

**Biennial Water Quality Monitoring Plan Evaluation  
First Half 2004 through Second Half 2006  
Manatee County Solid Waste Division  
Lena Road Landfill  
GMS ID No: 4041C02025  
Permit No: 39884-001-SO**

May 2007

Prepared For:



Solid Waste Division  
3333 Lena Road  
Bradenton, Florida 34211

Dept. of Environmental  
Protection

MAY 17 2007

Prepared By:

Southwest District



482 South Keller Road  
Orlando, Florida 32810

**PBS&J Project #120931.01 0500**

**P. Greg Mudd  
Florida P.G. #1521**

## Executive Summary

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This Biennial Water Quality Monitoring Report presents the results of an evaluation of the water quality monitoring program at Manatee County's Lena Road Landfill (LRL) (GMS No. 4041C02025), using the water quality and water level elevation data from the sampling events conducted during the period between 2004 and 2006.

The analytical results from the review period indicate that the water quality in the immediate vicinity of the LRL has had minimal effect on the water quality. There were numerous analytes detected in the leachate, groundwater, and surface water throughout the review period, but the only exceedances of the regulatory standards occurred with the groundwater and surface water. The following parameters were detected at concentrations in excess of the regulatory standards:

- In the groundwater, there were numerous inorganic detections, and no organic detections. The only analytes that were detected at concentrations in excess of the regulatory criteria were iron, pH, arsenic and TDS. The detection pattern with all of these analytes was very consistent throughout the review period in that, in general, the exceedances occurred at the same well locations.
- Three analytes, iron, fecal coliform, and DO, were detected at both surface water sampling points at concentrations in excess of the regulatory criteria during the review period. Iron was detected at an elevated concentration at both sampling points throughout the review period, whereas the detection patterns for the other two analytes were more scattered.

With regard to the hydrological data from the review period, the direction and rate of groundwater flow in the surficial aquifer beneath the LRL was flowing generally in a north-northwesterly direction at a relatively shallow gradient at all of the sampling events during the review period. Rainfall was lower than normal during the first year of the review period and higher than normal during the last two years. There was an inward gradient across the LRL's slurry wall throughout the review period.

Based on the findings of this evaluation, the water quality and elevation monitoring network at the LRL appears to be adequate in meeting the objectives of the monitoring program. The most significant detection in the water quality monitoring network was arsenic in the groundwater. The results of the statistical evaluation performed as part of this study do not indicate an obvious source for the arsenic detections. Therefore, PBS&J recommends that the County proceed with the field investigation designed to further evaluate this issue.



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## **1.0 Introduction**

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### **1.1 Background**

This biennial water quality report presents an evaluation of the water quality and elevation monitoring network at Manatee County's Lena Road Landfill (LRL) (GMS No. 4041C02025), as based on the monitoring data collected during 2004 through 2006. The LRL facility operates under Permit Number 39884-001-SO, which is on file with the Florida Department of Environmental Protection (FDEP).

#### **1.1.1 Water Quality Monitoring Network and Program**

The LRL is constructed with a perimeter slurry wall in three stages that are designated Stages I, II and III. Landfill leachate is collected by a leachate collection system. Specific Condition Numbers 31, 32, and 35 of the facility's permit stipulates that the water quality program involves monitoring of the leachate, surface water, and the groundwater in the surficial (or shallow) aquifer. The monitoring network consists of the following components:

- The leachate samples are taken at the lift stations.
- Currently, groundwater samples are collected from a network of 17 monitoring wells along the perimeter of the slurry wall. The wells are designated GW-1 through GW-17. There is also a background well, which is designated BGW-1. All of these wells monitor groundwater in the surficial aquifer. This well network was installed in 2005, and replaced the old network. The old network consisted of 19 surficial aquifer wells, and 7 deep (Floridan) aquifer wells. Wells MW-1, GC-6 and SMR-1 are the designated background wells for the surficial aquifer. Well CW-4 is designated a compliance well and the rest of the shallow wells are designated detection/compliance wells. Well SMR-2 is the designated background well for the deep aquifer and the rest of the deep wells are designated detection/compliance wells.
- The surface water samples are collected from two points (one upstream and one downstream) along the Cypress Strand.

A summary of the components that comprise the water quality network is presented in Table 1-1. The layout of the LRL, including the well locations, is illustrated in Figure 1-1.

The facility's operating permit calls for groundwater and surface water samples to be collected from the facility's water quality network on a semiannual basis, and for leachate samples to be collected annually. The leachate samples are analyzed for the parameters listed in the State guidelines for Solid Waste Management Facilities, Rule 62-701.510 (8)-62-701.510 (9) of the Florida Administrative Code (FAC). During one of the semiannual events, the groundwater and surface

water samples are analyzed for the parameters listed in Appendix I of 40 Code of Federal Regulations (CFR) Part 258, and for Appendices I and II during the other sampling event.

The analytical services for all four sampling events during the review period were provided by Manatee County Utility Operation's Central Wastewater Laboratory, as well as by P.A. La Moreaux and Associates, Inc. (PELA), and Southern Analytical Services. PELA representatives also collected the samples. Copies of the certificates of laboratory reports for all of the sampling events are on file with the FDEP.

### **1.1.2 Water Elevation Monitoring Network**

The 17 monitoring wells along the perimeter of the slurry wall at the LRL are used in conjunction with 17 piezometers, designated PZ-1 through PZ-17, to monitor the water level elevation on either side of the slurry wall. Water level elevations are also monitored at the East Lake and South Lake #2, which are immediately south of the LRL site. Currently, the elevations are measured manually from the wet wells located at these lakes, but Manatee County is planning on installing electronic water level measuring devices in the near future.

A summary of the components that comprise the water elevation network is presented in Table 1-2, and their locations are illustrated on Figure 1-1.

## **1.2 Objectives**

This report was prepared in accordance with Rule 62-701.510(9)(b) of the FAC. This statute stipulates that the following issues be addressed in a biennial report:

- A trend analyses of any parameters that were consistently detected in the monitoring network
- A comparison of the detection trends between the shallow and deep aquifers
- A comparison between the detection trends in the background wells and compliance wells
- A correlation between related parameters
- An interpretation of the groundwater flow conditions
- An evaluation of the adequacy of the water quality monitoring program

## **2.0 Water Quality Analytical and Elevation Data Summary**

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A description of the leachate, groundwater, and surface water analytical results, as well as the water elevation information, for the four sampling events during the period of review is presented in this section.

### **2.1 Water Quality Data Summary**

#### **2.1.1 Leachate Analytical Data Summary**

Leachate samples were collected during the following semiannual events during the review period:

- Second Half 2004
- First Half 2005
- Second Half 2005
- First Half 2006

Summaries of the leachate analytical results for each event are presented in Tables 2-1 through 2-4.

The only parameters that were consistently detected in the leachate samples during the period of review were inorganic constituents, including arsenic, barium, bicarbonate alkalinity, chloride, chromium, cobalt, copper, iron, lead, nickel, nitrate, selenium, sodium, total phenols, total ammonia-N, total dissolved solids (TDS) and zinc. Several organic constituents, including 1, 1-dichloroethane, 1, 4-dichlorobenzene, benzene, ethylbenzene, toluene, xylene, vinyl chloride, sulfide, and chlorobenzene were detected in the leachate during the review period on a somewhat less frequent basis.

The concentration of every parameter that was detected in the leachate throughout the review period was compared to the regulatory levels listed in 40 CFR Part 261.24, as promulgated by the Florida solid waste regulations. A standard has not been established for every parameter. None of the parameter concentrations detected in the leachate during the review period exceeded their respective regulatory level.

#### **2.1.2 Groundwater Analytical Data Summary**

The old well network was still in placed and used for the semiannual monitoring event during the first three sampling events of this review period (e.g. first and second halves of 2004, and the first half of 2005). There was not a sampling event in the second half of 2005 because the well network was in the process of being installed when the regular sampling event was scheduled. The new network was used for the first and second half 2006 sampling events. A summary of the groundwater analytical results for each sampling event during the review period is presented in Tables 2-4 through 2-7.

## Water Quality Analytical and Elevation Data Summary

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There were no organic parameters detected in the monitoring network during the review period. There were, however, numerous inorganic constituents detected in the network. All of the parameters detected in the network were compared to their Maximum Contaminant Levels (MCLs) or Secondary Drinking Water Standards (SDWSs) in accordance with the Florida statutes. Chapter 62-550 of the Florida Administrative Code (FAC) promulgates the MCLs and SDWSs for Drinking Water Standards, Monitoring, and Reporting. Not every parameter has an MCL or SDWS. The parameters that were detected at concentrations in excess of the regulatory criteria are shaded in the tables. A description of the parameters that were detected at concentrations in excess of the regulatory criteria is presented below.

Four parameters, pH, iron, arsenic and TDS, were detected at least once during the review period in the surficial aquifer at concentrations in excess of the regulatory criteria. The detection patterns for these parameters were very consistent throughout the review period.

pH – With the old network during the first three sampling events of the review period, the pH was consistently lower than the prescribed SDWS range of 6.5 to 8.5 at every shallow well except MW-5A and GC-1A. That included the background well, SMR-1. With the new network, during the 2006 sampling events, the pH generally increased into the preferred range at most well locations, but was consistently relatively low at several wells, including the background well, BGW-1.

Iron - Iron was detected at concentrations in excess of the SDWS at every shallow well in the old network during all three sampling events. The SDWS for iron is 0.3 milligram per liter (mg/L), and the iron concentration at these wells ranged from slightly over the standard to concentrations in the 20 mg/L range. With the new network, the iron concentration was consistently higher than the standard at all of the wells except GW-7. The iron concentration was consistently higher than the standard at both background wells in the two networks throughout the review period.

Arsenic – Arsenic has an MCL of 0.1 mg/L. The standard was lowered from 0.5 mg/L in 2006. The concentration of arsenic consistently exceeded the standard at wells CW-4, GC-2, and MW-2, and less frequently at approximately half of the other wells in the network. In the new network, the arsenic consistently exceeded the MCL at wells GW-1, GW-2, GW-9, GW-12, GW-14, and GW-15. Arsenic was detected once at the background wells during the review period, and was not at a concentration that exceeded the MCL.

TDS – TDS has an SDWS of 500 mg/L. The TDS concentrations at CW-4, MW-2 and MW-3 in the old well network consistently exceeded the standard. In the new network, the TDS concentration consistently exceeded the standard at well GW-10, GW-13, and GW-14. The TDS concentrations at the background wells were very consistent throughout the review period. For example, in the old network, the TDS concentrations at SMR-1 was well below the SDWS, whereas in the new network, at BGW-1, the TDS concentration was relatively high, at just below the standard, during both sampling events.

## **Water Quality Analytical and Elevation Data Summary**

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### **2.1.3 Surface Water Analytical Data Summary**

Surface water samples were collected from both surface water sampling points in the network during every semiannual sampling event during the review period. A summary of the surface water analytical results for each sampling event is presented in Tables 2-10 through 2-15.

There were no organic constituents detected in any of the surface water samples collected during the review period. There were, however, numerous inorganic constituents detected at both surface water sampling points throughout the review period. The concentrations of the inorganic constituents were compared to their respective Surface Water Cleanup Target Levels (SWCTLs) as a relative measure of the water quality. The SWCTLs are promulgated in Chapter 62- 777, FAC.

The only parameter that was consistently detected in the surface water at concentrations in excess of its SWCTL was iron. Other parameters, including arsenic, dissolved oxygen (DO), and fecal coliform, were detected at concentrations in excess of the State standards but on a less frequent basis.

### **2.2 Water Elevation Data Summary**

The groundwater elevation measurements were made at each monitoring well during every sampling event of the review period and were used to generate groundwater elevation contour maps for the surficial aquifer beneath the LRL. The maps were used to evaluate the groundwater flow direction and the water table gradient in the aquifer during the review period. A description of the findings is presented in Section 4.1 of this report.



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## 3.0 Water Quality Evaluation

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### 3.1 Water Quality Trends

#### 3.1.1 General Detection Pattern

Descriptions of the detection patterns of the parameters that were consistently detected at elevated concentrations in the leachate, groundwater and surface water during the period of review are presented below. A summary of the detection patterns is also presented in Table 3-1.

##### Leachate

There were no parameters detected in the leachate at concentrations in excess of the regulatory criteria during the review period. The detection patterns of most of the parameters that were detected in the leachate were present at the same general concentration range during every sampling event of the review period. There were several volatile organics compounds detected during the earlier sampling events of the review period, but not during the last event.

##### Groundwater

The detection patterns with the four parameters were regularly detected in the groundwater at concentrations in excess of their MCLs or SDWSs – pH, iron, arsenic and TDS – were very consistent throughout the review period. They were detected at the same locations in the monitoring network at comparable concentrations. The concentrations of these four analytes at all of the wells in the old and new well networks were plotted on graphs to demonstrate the changes in concentration over time. The graphs are presented in Appendix A. A summary of the findings is presented below.

pH – With exception to several wells in both the old and new well networks, the pH readings were very consistent throughout the review period. The wells that did show relatively significant changes were GC-4, GC-2, MW-3, MW-6, and MW-1 in the old network, and GW-9, GW-6, GW-7, and GW-9 in the new network. The pH increased during the period at GC, MW-3, and the three wells in the new network, and decreased at the other locations. The pH at the two background wells remained very steady throughout the review period.

Iron – As with pH, the iron concentrations at most of the old and new wells were very consistent throughout the period. The exceptions were GC-1A, GC-2, GC-3, and MW-3 in the old network, and GW-1, GW-2 and GW-4 in the new network. The concentration increased at GC-1A, GC-3 and GW-2, and decreased at the other wells.

Arsenic – None of the wells in the old network where arsenic was detected showed any significant changes in concentration during the review period. In the new network, the arsenic concentration increased at GW-2, GW-10, and GW-11, and was steady throughout the review period at the other wells where it was detected.

TDS – TDS displayed a pattern similar to the other parameters, in that the concentrations were very consistent at most well locations throughout the review period. The only exceptions were in the new network at wells GW-14, GW-8, and GW-6, where the concentrations increased between the two 2006 sampling events.

### Surface Water

The analytes which were detected at sampling point SW-1 at concentrations in excess of the State standards during the review period were DO and iron. The detection pattern with DO was such that the concentration was relatively high during the first half sampling events of the review period, and at relatively low concentrations during the second half sampling events. The iron concentration was lower than the standards during the first and last sampling events and higher during all of the other events.

At SW-2, DO, fecal coliform, and iron were detected outside the prescribed State standard. The detection pattern with the DO was very similar to that of SW-1, where it was generally elevated during the first half of the year sampling events, and relatively low during the second half sampling events. The fecal coliform reading exceeded the state standard during the first half sampling events in 2004 and 2005, and was lower than the standard during the rest of the review period. Conversely, iron exceeded the standard during all but the first half of 2005 sampling events.

### **3.1.2 Related Parameter Correlation**

The concentrations of the parameters that were consistently detected in the monitoring network at concentrations in excess of the regulatory standards, and/or that have a natural affinity to one another, were graphed together to evaluate whether an obvious correlation exists. The evaluation was limited to the groundwater and included the following correlations:

- pH versus Iron
- pH versus Arsenic
- Turbidity versus Iron
- Turbidity versus Arsenic
- DO versus Iron
- DO versus Arsenic
- Conductivity versus TDS

A description of the evaluation results is presented below. The concentration graphs are provided in Appendix B.

#### pH versus Iron

In general, the correlation between pH and iron varied drastically between the old and the new well networks. In the old network, there was very good correlation between the two parameters at most of the well locations, whereas at most of the wells in the new network the opposite effect was

observed.

### pH versus Arsenic

It is difficult to discern a trend in the data with these two parameters because arsenic was not detected at most of the wells during the period. Where it was detected, however, there does not appear to be a very good correlation between the two parameters except at one or two wells.

### Iron versus Turbidity

There was relatively good correlation between the concentrations of iron versus turbidity at most of the wells in both networks throughout the review period. Even though the turbidity concentrations were relatively low and the iron concentrations were relatively high at all of the well locations, there was a definite pattern at most wells in that with every change in the turbidity there was a corresponding change in the iron concentration. The same relationship was evident in the background wells.

### Arsenic versus Turbidity

As with pH, the turbidity did not seem to affect the arsenic concentration. This was true for the majority of the wells in both networks throughout the review period.

### Iron versus DO

The correlation pattern with these two parameters is similar to that of pH and iron, with a relatively strong correlation between the two, particularly with the wells on the old network. The same relationship was evident in the background wells.

### Arsenic versus DO

Arsenic also displayed a strong correlation with DO throughout the review period, particularly with the wells in the old network.

### TDS versus Conductivity

The correlation between TDS and conductivity was very good at most of the well locations throughout the review period, in that both exhibited a relatively parallel detection pattern at most wells.

## **3.1.3 Upgradient Versus Downgradient Correlation**

In order to evaluate any changes in groundwater quality on the downgradient side of the LRL, the concentrations of the parameters that were consistently detected in the well network at concentrations in excess of the regulatory criteria, as well as several other important parameters, were graphed. The parameters that were included in the evaluation were pH, iron, arsenic, and

## Water Quality Elevation

TDS. The graphs were prepared using the data from both the old well network and the new well network. The graphs were constructed by plotting the data from the wells located on the upgradient side of the landfill on the left side of the graph, and plotting those on the downgradient side of the landfill on the right. The graphs are presented in Appendix C. A summary of the observations for each parameter is presented below.

- *pH* – The pH concentration detection pattern in both well networks exhibited definite patterns on opposite sides of the landfill. With the old network, the pH decreased by 10 to 20 per cent at the wells located on the downgradient side of the LRL. This phenomenon occurred during every sampling event of the review period. The lowest pH levels were found in the wells located downgradient of Stage II. In the new network, the pH actually increased on the downgradient side of the landfill.
- *Iron* – There was no obvious change in the concentration pattern with iron in crossing the landfill. There were areas on both sides of the landfill where the iron was unusually high, and that occurred with both well networks.
- *TDS* – The detection pattern with TDS suggests that the concentration was relatively high on either side of the landfill and lower in the wells near the middle.
- *Arsenic* – There is some suggestion in the data that the arsenic concentrations increased in the areas around the landfill. The concentrations were lowest in the upgradient and downgradient wells. This pattern was observed in the graphs for both well networks.

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## 4.0 Water Elevation Data Evaluation

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### 4.1 Groundwater Flow Patterns

The groundwater elevation data was plotted and contoured to generate contour maps for the surficial aquifer. The contour plots are presented as Figures 4-1 through 4-5. The groundwater elevation contour maps indicate that the groundwater within the surficial aquifer around the LRL facility was flowing in a north-northwesterly direction at the time of each sampling event during the review period.

The average horizontal gradient of the water table during the five sampling events of the review period was 0.001 feet per foot (ft/ft). Using the results of hydraulic conductivity tests conducted by another firm during the preliminary hydrogeological evaluation of the LRL site (Ardaman and Associates, Inc., 1982), PBS&J was able to calculate the horizontal groundwater flow rates for the surficial aquifer during the period of review. The hydraulic conductivity test results produced an average value of 8.2 feet per day (ft/day) for the sediments that store groundwater of the surficial aquifer.

The groundwater flow velocity was calculated with the following formula:

$V = Ki/p$ , where:

$V$  = groundwater flow velocity (ft/day),  
 $K$  = hydraulic conductivity (8.2 ft/day),  
 $i$  = hydraulic gradient (0.001 ft/ft), and  
 $p$  = porosity (.30 for silty sand (unitless)).

The groundwater flow velocity for the site was calculated at 0.03 ft/day, or approximately 11 feet per year

### 4.2 Groundwater Fluctuations and Gradient Conditions

PBS&J collected water level elevation data at all of the shallow monitoring wells, piezometers and staff gauges at the LRL on a monthly basis during the period of review. These data are presented in Appendix D. The water level elevation data for the monitoring wells in the new network were plotted on line graphs to illustrate the fluctuations in the water table during the period of review. The hydrographs are presented in Appendix E. The groundwater elevation at the monitoring wells in the new well network fluctuated by an approximate average of 4 to 5 feet between the two sampling events in 2006.

The monthly rainfall data at the LRL during the period of review is presented in Table 4-1 along with the monthly average rainfall for the Sarasota area. These data are presented in graph form in Appendix E. The rainfall data indicates that 2004 was relatively dry year, and that 2005 and 2006 were relatively wet years.

## Water Elevation Data Evaluation

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### 4.2.1 Groundwater Gradient Conditions

PBS&J monitors the gradient conditions across the LRL's slurry wall on a monthly basis. The monthly data from the review period is provided in Appendix F. Only the data for monitoring points around Stages I and III of the LRL were analyzed because Stage II did not have any solid waste during the period of review. The data indicated that inward gradient conditions existed at both stages during every measuring event of the period.

## 5.0 Summary, Conclusions and Recommendations

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The analytical results from the review period indicate that the LRL had minimal effect on the water quality in the immediate area. A summary of the detection patterns in the water quality network is as follows:

- No analytes were detected in the leachate at concentrations in excess of the regulatory criteria, but there were numerous inorganic analyte detections and several volatile organic detections.
- In the groundwater, there were numerous inorganics detections, and no organic detections. The only analytes that were detected at concentrations in excess of the regulatory criteria were iron, pH, arsenic and TDS. The detection pattern with all of these analytes was very consistent throughout the review period in that, in general, the exceedances occurred at the same well locations.
- Three analytes, iron, fecal coliform, and DO, were detected at both surface water sampling points at concentrations in excess of the regulatory criteria during the review period. Iron was detected at an elevated concentration at both sampling points throughout the review period, whereas the detection patterns with the other two analytes was more scattered.

With regard to the hydrological data from the review period, the direction and rate of groundwater in the surficial aquifer beneath the LRL was flowing generally in a north-northwesterly direction at a relatively shallow gradient at all of the sampling events during the review period. Rainfall was lower than normal during the first year of the review period and higher than normal during the last two years. There was an inward gradient across the LRL's slurry wall throughout the review period.

Based on the findings of this evaluation, the water quality and elevation monitoring network at the LRL appears to be adequate in meeting the objectives of the monitoring program. The most significant detection in the water quality monitoring network was arsenic. Arsenic was detected in the leachate during the review period at concentrations between 0.007 mg/l and 0.014 milligrams per liter (mg/L), which was significantly lower than the concentrations detected in the groundwater. Like some of the other parameters, arsenic was also detected at the background wells in the well network, albeit not concentrations in excess of the regulatory standards.

PBS&J conducted a statistical analysis of the arsenic concentrations in the well network during the review period; including comparisons to the DO, pH, and turbidity readings. There were no obvious trends that would indicate a source for the arsenic, although there was some correlation between arsenic and DO. PBS&J reviewed recent technical literature regarding the matter, and found that elevated arsenic levels can be found in areas with elevated DO and pH, but the field data collected during the sampling events suggest that these conditions do not exist at the LRL.

## Summary, Conclusions and Recommendations

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Given that the statistical analysis did not point to an obvious source of the arsenic, PBS&J recommends that a field investigation designed to further evaluate a potential source of the arsenic detections be implemented in accordance with the work plan presented in a letter addressed to the Southwest District Office of the FDEP and dated March 22, 2007.



## 6.0 Environmental Professional Qualifications and Signatures

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The following environmental professional was responsible for the preparation of this biennial water quality monitoring report.

Mr. P. Greg Mudd, P.G.  
**Senior Geologist, PBS&J**

Mr. Mudd is a Florida-registered professional geologist with over 15 years of experience in the planning and performance of environmental projects.

5/11/07  
Date

  
P. Greg Mudd  
Florida P.G. #1521



## TABLES

**TABLE 1-1  
WATER QUALITY MONITORING NETWORK  
LENA ROAD LANDFILL**

| Leachate Sampling Points                       |                             |                                     |                      |
|------------------------------------------------|-----------------------------|-------------------------------------|----------------------|
| Location                                       |                             | WACS Testsite Identification Number |                      |
| Lift Station No. 1                             |                             | 21611                               |                      |
| Lift Station No. 2                             |                             | 21612                               |                      |
| Lift Station No. 3                             |                             | 21613                               |                      |
| Groundwater Sampling Points (Monitoring Wells) |                             |                                     |                      |
| Location/Well Identifier                       | Aquifer Monitored           | Designation                         | WACS Testsite ID No. |
| GW-1                                           | Surficial                   | Detection                           | 21593                |
| GW-2                                           | Surficial                   | Detection                           | 21594                |
| GW-3                                           | Surficial                   | Detection                           | 21595                |
| GW-4                                           | Surficial                   | Detection                           | 21596                |
| GW-5                                           | Surficial                   | Detection                           | 21597                |
| GW-6                                           | Surficial                   | Detection                           | 21598                |
| GW-7                                           | Surficial                   | Detection                           | 21599                |
| GW-8                                           | Surficial                   | Detection                           | 21600                |
| GW-9                                           | Surficial                   | Detection                           | 21601                |
| GW-10                                          | Surficial                   | Detection                           | 21602                |
| GW-11                                          | Surficial                   | Detection                           | 21603                |
| GW-12                                          | Surficial                   | Detection                           | 21604                |
| GW-13                                          | Surficial                   | Detection                           | 21605                |
| GW-14                                          | Surficial                   | Detection                           | 21606                |
| GW-15                                          | Surficial                   | Detection                           | 21607                |
| GW-16                                          | Surficial                   | Detection                           | 21608                |
| GW-17                                          | Surficial                   | Detection                           | 21609                |
| BGW-1                                          | Surficial                   | Background                          | 21610                |
| Surface Water Sampling Points                  |                             |                                     |                      |
| Identifier                                     | Location                    |                                     | WACS Testsite ID No. |
| SW-1                                           | Cypress Strand – Upstream   |                                     | 1663                 |
| SW-2                                           | Cypress Strand - Downstream |                                     | 1665                 |

**TABLE 1-2**  
**WATER ELEVATION MONITORING NETWORK**  
**LENA ROAD LANDFILL**

| Well Identifier                                   | Top-of-Casing Elevation (Ft-NGVD) | Total Depth (Ft-TOC) | Screen Interval Elevation (Ft-NGVD) |
|---------------------------------------------------|-----------------------------------|----------------------|-------------------------------------|
| <b>Surficial Aquifer (Outside of Slurry Wall)</b> |                                   |                      |                                     |
| GW-1                                              | 38.68                             | 19.42                | 19.76-34.76                         |
| GW-2                                              | 40.92                             | 19.41                | 22.01-37.01                         |
| GW-3                                              | 39.40                             | 19.56                | 20.34-35.34                         |
| GW-4                                              | 40.53                             | 19.63                | 21.4-36.4                           |
| GW-5                                              | 39.90                             | 19.66                | 20.74-35.74                         |
| GW-6                                              | 38.95                             | 19.54                | 19.91-34.91                         |
| GW-7                                              | 39.49                             | 20.54                | 19.45-34.45                         |
| GW-8                                              | 39.75                             | 20.32                | 19.93-34.93                         |
| GW-9                                              | 39.65                             | 20.56                | 19.59-34.59                         |
| GW-10                                             | 38.34                             | 20.15                | 18.82-33.82                         |
| GW-11                                             | 38.26                             | 21.61                | 13.76-28.76                         |
| GW-12                                             | 42.09                             | 20.27                | 22.32-37.32                         |
| GW-13                                             | 44.79                             | 20.22                | 25.07-40.07                         |
| GW-14                                             | 39.63                             | 20.15                | 19.98-34.98                         |
| GW-15                                             | 42.33                             | 20.00                | 22.83-37.83                         |
| GW-16                                             | 44.41                             | 20.15                | 24.76-39.76                         |
| GW-17                                             | 42.19                             | 20.80                | 21.89-36.89                         |
| BGW-1                                             | 47.57                             | 20.30                | 27.77-42.77                         |
| <b>Surficial Aquifer (Inside of Slurry Wall)</b>  |                                   |                      |                                     |
| PZ-1                                              | 42.68                             | 25.5                 | 14.5-24.5                           |
| PZ-2                                              | 42.32                             | 27.84                | 11.6-21.6                           |
| PZ-3                                              | 40.36                             | 31.29                | 6.1-16.1                            |
| PZ-4                                              | 40.78                             | 31.14                | 6.6-16.8                            |
| PZ-5                                              | 40.73                             | 31.7                 | 6.0-16.0                            |
| PZ-6                                              | 40.74                             | 31.88                | 5.7-15.7                            |
| PZ-7                                              | 40.60                             | 31.75                | 5.9-15.9                            |
| PZ-8                                              | 40.21                             | 22.79                | 15.0-25.0                           |
| PZ-9                                              | 39.97                             | 24.53                | 13.4-23.4                           |
| PZ-10                                             | 39.86                             | 24.53                | 12.7-22.7                           |
| PZ-11                                             | 40.52                             | 31.71                | 5.7-15.7                            |
| PZ-12                                             | 43.28                             | 24.14                | 16.8-26.8                           |
| PZ-13                                             | 44.78                             | 26.17                | 17.1-27.1                           |
| PZ-14                                             | 45.09                             | 20.25                | 23.1-33.1                           |
| PZ-15                                             | 45.57                             | 19.7                 | 23.4-33.4                           |
| PZ-16                                             | 44.67                             | 20                   | 23.5-33.5                           |
| PZ-17                                             | 44.28                             | 20.37                | 22.9-32.9                           |

| Lake Staff Gauges |                     |
|-------------------|---------------------|
| Lake              | Elevation (Ft-NGVD) |
| South 1           | 37.50               |
| South 2           | 46.40               |
| East Lake         | 46.50               |

**Table 2-1 - Lena Road Leachate Analytical Summary  
Second Half 2004**

| Analyte                            | Location:          |           | Lift Station #1 | Lift Station #2 |
|------------------------------------|--------------------|-----------|-----------------|-----------------|
|                                    | Sample Identifier: |           | Leachate I      | Leachate II     |
|                                    | Date of Test:      |           | 08/11/04        | 08/11/04        |
|                                    | Standard(I)        | Units     |                 |                 |
| <b>Field Measurements</b>          |                    |           |                 |                 |
| pH                                 |                    | STD       | 6.7             | 6.64            |
| Temperature                        |                    | Degrees C | 29.08           | 29.57           |
| Turbidity                          |                    | NTUs      | 91.5            | 3.36            |
| Conductivity                       |                    | umhos/cm  | 3871            | 4745            |
| Dissolved Oxygen (DO)              |                    | mg/l      | 1.14            | 0.59            |
| <b>Inorganics</b>                  |                    |           |                 |                 |
| Antimony                           |                    | mg/l      | <0.003          | <0.003          |
| Arsenic                            | 5.0                | mg/l      | 0.013           | 0.007           |
| Barium                             | 100                | mg/l      | 0.15            | 0.13            |
| Beryllium                          |                    | mg/l      | <0.003          | <0.003          |
| Bicarbonate alkalinity             |                    | mg/l      | 1545            | 1700            |
| Cadmium                            | 1.0                | mg/l      | <0.005          | <0.005          |
| Chloride                           |                    | mg/l      | 183             | 560             |
| Chromium                           |                    | mg/l      | <0.001          | <0.001          |
| Cobalt                             |                    | mg/l      | <0.05           | <0.05           |
| Copper                             |                    | mg/l      | 0.03            | 0.04            |
| Cyanide                            |                    | mg/l      | <0.005          | <0.005          |
| Iron                               |                    | mg/l      | 17              | 16.5            |
| Lead                               | 5,000              | mg/l      | 0.004           | 0.007           |
| Mercury                            | 200                | mg/l      | <0.0001         | <0.0001         |
| Nickel                             |                    | mg/l      | <0.02           | 0.03            |
| Nitrate                            |                    | mg/l      | 0.012           | <0.006          |
| Selenium                           | 1.0                | mg/l      | <0.002          | 0.002           |
| Silver                             | 5.0                | mg/l      | <0.0002         | <0.0002         |
| Sodium                             |                    | mg/l      | 443             | 388             |
| Total Ammonia - N                  |                    | mg/l      | 185             | 164             |
| Total phenols                      |                    | mg/l      | 0.025           | 0.02            |
| Thallium                           |                    | mg/l      | <0.001          | <0.001          |
| Tin as SN                          |                    | mg/l      | <0.1            | <0.10           |
| Total Dissolved Solids (TDS)       |                    | mg/l      | 2220            | 2450            |
| Vanadium                           |                    | mg/l      | <0.01           | <0.01           |
| Zinc                               |                    | mg/l      | 0.067           | 0.057           |
| <b>Pesticides &amp; Herbicides</b> |                    |           |                 |                 |
| 2,4-D                              | 10,000             | ug/l      | <0.2            | <0.2            |
| 2,4,5-T                            |                    | ug/l      | <0.2            | <0.2            |
| A-BHC                              |                    | ug/l      | <0.003          | <0.003          |
| Aldrin                             |                    | ug/l      | <0.004          | <0.004          |
| B-BHC                              |                    | ug/l      | <0.006          | <0.006          |
| Chlordane                          | 30                 | ug/l      | <0.02           | <0.02           |
| D-BHC                              |                    | ug/l      | <0.009          | <0.009          |
| Dinoseb                            |                    | ug/l      | <0.2            | <0.2            |
| Endosulfan Sulfate                 |                    | ug/l      | <0.03           | <0.03           |
| Endosulfan-I                       |                    | ug/l      | <0.014          | <0.014          |
| Endosulfan-II                      |                    | ug/l      | <0.004          | <0.004          |
| Endrin                             | 20                 | ug/l      | <0.006          | <0.006          |
| Endrin Aldehyde                    |                    | ug/l      | <0.023          | <0.023          |
| G-BHC(Lindane)                     | 400                | ug/l      | <0.004          | <0.004          |
| Heptachlor                         | 8                  | ug/l      | <0.003          | <0.003          |
| Heptachlor Epoxide                 |                    | ug/l      | <0.01           | <0.01           |
| Methoxychlor                       | 10,000             | ug/l      | <0.05           | <0.05           |

| Analyte                            | Location:          |       | Lift Station #1 | Lift Station #2 |
|------------------------------------|--------------------|-------|-----------------|-----------------|
|                                    | Sample Identifier: |       | Leachate I      | Leachate II     |
|                                    | Date of Test:      |       | 08/11/04        | 08/11/04        |
|                                    | Standard(1)        | Units |                 |                 |
| PP-DDD                             |                    | ug/l  | <0.011          | <0.011          |
| PP-DDE/Dieldrin                    |                    | ug/l  | <0.004          | <0.004          |
| PP-DDT                             |                    | ug/l  | <0.012          | <0.012          |
| Silvex                             | 1,000              | ug/l  | <0.1            | <0.1            |
| Toxaphene                          | 500                | ug/l  | <0.2            | <0.2            |
| PCB-1016                           |                    | ug/l  | <0.04           | <0.04           |
| PCB-1221                           |                    | ug/l  | <0.07           | <0.07           |
| PCB-1232                           |                    | ug/l  | <0.09           | <0.09           |
| PCB-1242                           |                    | ug/l  | <0.06           | <0.06           |
| PCB-1248                           |                    | ug/l  | <0.04           | <0.04           |
| PCB-1254                           |                    | ug/l  | <0.04           | <0.04           |
| PCB-1260                           |                    | ug/l  | <0.07           | <0.07           |
| <b>Organics, Acid Extractables</b> |                    |       |                 |                 |
| 2,4,6-Trichlorophenol              | 2,000              | ug/l  | <2.7            | <2.7            |
| 2,4,5-Trichlorophenol              | 400,000            | ug/l  | <3.9            | <3.9            |
| 2,4-Dinitrophenol                  |                    | ug/l  | <5.0            | <5.0            |
| 4-Nitrophenol                      |                    | ug/l  | <2.4            | <2.4            |
| 2,3,4,6-Tetrachlorophenol          |                    | ug/l  | <5.0            | <5.0            |
| Pentachlorophenol                  | 100,000            | ug/l  | <1.5            | <1.5            |
| 2,4-Dichlorophenol                 |                    | ug/l  | <2.7            | <2.7            |
| 4,6-Dinitro-2-methylphenol         |                    | ug/l  | <9.5            | <9.5            |
| (3+4)-Methylphenol                 |                    | ug/l  | <3.5            | <3.5            |
| 2-Methylphenol                     |                    | ug/l  | <3.5            | <3.5            |
| 2,4-Dimethylphenol                 |                    | ug/l  | <2.7            | <2.7            |
| 2-Nitrophenol                      |                    | ug/l  | <3.6            | <3.6            |
| Phenol                             |                    | ug/l  | <1.5            | <1.5            |
| 2-Chlorophenol                     |                    | ug/l  | <3.3            | <3.3            |
| 2,6-Dichlorophenol                 |                    | ug/l  | <5.0            | <5.0            |
| 4-Chloro-3-methylphenol            |                    | ug/l  | <3.0            | <3.0            |
| <b>Base Neutrals</b>               |                    |       |                 |                 |
| 1,3,5-Trinitrobenzene              |                    | ug/l  | <10.0           | <10.0           |
| 1,3-Dinitrobenzene                 |                    | ug/l  | <10.0           | <10.0           |
| 1,4-Naphthoquinone                 |                    | ug/l  | <7.5            | <7.5            |
| 2-Acetylaminoflourene              |                    | ug/l  | <7.5            | <7.5            |
| 3,3-Dimethylbenzidine              |                    | ug/l  | <5.0            | <5.0            |
| 5-Nitro-o-toluidine                |                    | ug/l  | <10.0           | <10.0           |
| Chlorobenzilate                    |                    | ug/l  | <10.0           | <10.0           |
| Diallate                           |                    | ug/l  | <5.0            | <5.0            |
| Dimethoate                         |                    | ug/l  | <5.0            | <5.0            |
| Disulfoton                         |                    | ug/l  | <5.0            | <5.0            |
| Famphur                            |                    | ug/l  | <20.0           | <20.0           |
| Hexylchloropropene                 |                    | ug/l  | <5.0            | <5.0            |
| Isodrin                            |                    | ug/l  | <6.0            | <6.0            |
| Isosafrole                         |                    | ug/l  | <5.0            | <5.0            |
| Kepone                             |                    | ug/l  | <30.0           | <30.0           |
| Methapyrilene                      |                    | ug/l  | <30.0           | <30.0           |
| Methyl parathion                   |                    | ug/l  | <15.0           | <15.0           |
| N-Nitrosoethylmethylamine          |                    | ug/l  | <10.0           | <10.0           |
| N-Nitrosopyrrolidine               |                    | ug/l  | <15.0           | <15.0           |
| N-Nitrosodiethylamine              |                    | ug/l  | <10.0           | <10.0           |
| OOO-Triethylphosphorothioate       |                    | ug/l  | <30.0           | <30.0           |

| Analyte                        | Location:          |       | Lift Station #1 | Lift Station #2 |
|--------------------------------|--------------------|-------|-----------------|-----------------|
|                                | Sample Identifier: |       | Leachate I      | Leachate II     |
|                                | Date of Test:      |       | 08/11/04        | 08/11/04        |
|                                | Standard(I)        | Units |                 |                 |
| Ortho-toluidine                |                    | ug/l  | <10.0           | <10.0           |
| Para-Phenylenediamine          |                    | ug/l  | <10.0           | <10.0           |
| Parathion                      |                    | ug/l  | <15.0           | <15.0           |
| Phorate                        |                    | ug/l  | <3.0            | <3.0            |
| Safrole                        |                    | ug/l  | <7.5            | <7.5            |
| Thionazin                      |                    | ug/l  | <10.0           | <10.0           |
| 1,2,4,5-Tetrachlorobenzene     |                    | ug/l  | <5.0            | <5.0            |
| 1,2,4-Trichlorobenzene         |                    | ug/l  | <1.9            | <1.9            |
| 1-Naphthylamine                |                    | ug/l  | <10.0           | <10.0           |
| 2,4-Dinitrotoluene             | 13,000             | ug/l  | <2.2            | <2.2            |
| 2,6-Dinitrotoluene             |                    | ug/l  | <1.9            | <1.9            |
| 2-Chloronaphthalene            |                    | ug/l  | <1.9            | <1.9            |
| 2-Methylnaphthalene            |                    | ug/l  | <2.0            | <2.0            |
| 2-Naphthylamine                |                    | ug/l  | <10.0           | <10.0           |
| 2-Nitroaniline                 |                    | ug/l  | <20.0           | <20.0           |
| 3,3-Dichlorobenzidine          |                    | ug/l  | <3.2            | <3.2            |
| 3-Methylcholanthrene           |                    | ug/l  | <5.0            | <5.0            |
| 3-Nitroaniline                 |                    | ug/l  | <20.0           | <20.0           |
| 4-Aminobiphenyl                |                    | ug/l  | <5.0            | <5.0            |
| 4-Bromophenyl-phenylether      |                    | ug/l  | <1.9            | <1.9            |
| 4-Chloroaniline                |                    | ug/l  | <6.0            | <6.0            |
| 4-Chlorophenylphenylether      |                    | ug/l  | <4.2            | <4.2            |
| 4-Nitronaline                  |                    | ug/l  | <20.0           | <20.0           |
| 7,12-Dimethylbenz(a)anthracene |                    | ug/l  | <5.0            | <5.0            |
| Acenaphthene                   |                    | ug/l  | <1.9            | <1.9            |
| Acenaphthylene                 |                    | ug/l  | <2.5            | <2.5            |
| Acetone                        |                    | ug/l  | <2.5            | <2.5            |
| Acetophenone                   |                    | ug/l  | <5.0            | <5.0            |
| Anthracene                     |                    | ug/l  | <1.9            | <1.9            |
| Benzo(a)anthracene             |                    | ug/l  | <3.1            | <3.1            |
| Benzo(a)pyrene                 |                    | ug/l  | <0.1            | <0.1            |
| Benzo(b)flouranthene           |                    | ug/l  | <2.5            | <2.5            |
| Benzo(g,h,i)perylene           |                    | ug/l  | <4.1            | <4.1            |
| Benzo(k)flouranthene           |                    | ug/l  | <2.5            | <2.5            |
| Benzyl alcohol                 |                    | ug/l  | <5.0            | <5.0            |
| Bis(2-chloroethoxy)methane     |                    | ug/l  | <2.5            | <2.5            |
| Bis(2-chloroethyl)ether        |                    | ug/l  | <2.5            | <2.5            |
| Bis(2-chloroisopropyl)ether    |                    | ug/l  | <5.7            | <5.7            |
| Bis(2-ethylhexyl)phthalate     |                    | ug/l  | <2.5            | <2.5            |
| Butylbenzylphthalate           |                    | ug/l  | <2.5            | <2.5            |
| Chrysene                       |                    | ug/l  | <2.5            | <2.5            |
| Dibenz(a,h)anthracene          |                    | ug/l  | <2.5            | <2.5            |
| Dibenzofuran                   |                    | ug/l  | <5.0            | <5.0            |
| Diethylphthalate               |                    | ug/l  | <1.9            | <1.9            |
| Dimethylphthalate              |                    | ug/l  | <1.6            | <1.6            |
| Di-N-butylphthalate            |                    | ug/l  | <2.5            | <2.5            |
| Di-N-octylphthalate            |                    | ug/l  | <2.5            | <2.5            |
| Diphenylamine                  |                    | ug/l  | <5.0            | <5.0            |
| Ethylmethanesulfonate          |                    | ug/l  | <10.0           | <10.0           |
| Flouranthene                   |                    | ug/l  | <2.2            | <2.2            |
| Flourene                       |                    | ug/l  | <1.9            | <1.9            |

Table 2, Page 3



| Analyte                    | Location:          |       | Lift Station #1 | Lift Station #2 |
|----------------------------|--------------------|-------|-----------------|-----------------|
|                            | Sample Identifier: |       | Leachate I      | Leachate II     |
|                            | Date of Test:      |       | 08/11/04        | 08/11/04        |
|                            | Standard(1)        | Units |                 |                 |
| Hexachlorobenzene          | 130                | ug/l  | <1.0            | <1.0            |
| Hexachlorobutadiene        | 500                | ug/l  | <0.9            | <0.9            |
| Hexachlorocyclopentadiene  |                    | ug/l  | <5.0            | <5.0            |
| Hexachloroethane           | 3,000              | ug/l  | <1.6            | <1.6            |
| Indeno(1,2,3-cd)pyrene     |                    | ug/l  | <3.7            | <3.7            |
| Isophorone                 |                    | ug/l  | <2.2            | <2.2            |
| Methylmethanesulfonate     |                    | ug/l  | <10.0           | <10.0           |
| Naphthalene                |                    | ug/l  | <1.6            | 2.2             |
| N-Nitrosodi-n-butylamine   |                    | ug/l  | <10.0           | <10.0           |
| Nitrobenzene               | 2,000              | ug/l  | <1.9            | <1.9            |
| N-Nitrosodimethylamine     |                    | ug/l  | <10.0           | <10.0           |
| N-Nitroso-di-n-propylamine |                    | ug/l  | <10.0           | <10.0           |
| N-Nitrosodiphenylamine     |                    | ug/l  | <1.9            | <1.9            |
| N-Nitrosopiperidine        |                    | ug/l  | <10.0           | <10.0           |
| P-Dimethylaminoazobenzene  |                    | ug/l  | <6.0            | <6.0            |
| Pentachlorobenzene         |                    | ug/l  | <5.0            | <5.0            |
| Pentachloronitrobenzene    |                    | ug/l  | <10.0           | <10.0           |
| Phenacetin                 |                    | ug/l  | <10.0           | <10.0           |
| Phenanthrene               |                    | ug/l  | <2.5            | <2.5            |
| Pronamide                  |                    | ug/l  | <10.0           | <10.0           |
| Pyrene                     |                    | ug/l  | <1.9            | <1.9            |
| <b>Volatile Organics</b>   |                    |       |                 |                 |
| 1,1,1,2-Tetrachloroethane  |                    | ug/l  | <1.0            | <0.1            |
| 1,1,1-Trichloroethane      |                    | ug/l  | <0.04           | <0.04           |
| 1,1,2,2-Tetrachloroethane  |                    | ug/l  | <0.04           | <0.04           |
| 1,1,2-Trichloroethane      |                    | ug/l  | <0.10           | <0.10           |
| 1,1-Dichloroethane         |                    | ug/l  | 0.16            | 0.6             |
| 1,1-Dichloroethene         | 700                | ug/l  | <0.12           | <0.12           |
| 1,1-Dichloropropene        |                    | ug/l  | <1.0            | <1.0            |
| 1,2,3-Trichloropropane     |                    | ug/l  | <0.3            | <0.3            |
| 1,2-Dichlorobenzene        |                    | ug/l  | <0.03           | <0.03           |
| 1,2-Dichloroethane         | 500                | ug/l  | <0.02           | <0.02           |
| 1,2-Dichloropropane        |                    | ug/l  | <0.04           | <0.04           |
| 1,3-Dichlorobenzene        |                    | ug/l  | <0.12           | <0.12           |
| 1,3-Dichloropropane        |                    | ug/l  | <1.0            | <1.0            |
| 1,4-Dichlorobenzene        | 7,500              | ug/l  | 4.27            | 12.4            |
| 2,2-Dichloropropane        |                    | ug/l  | <1.0            | <1.0            |
| 2-Butanone                 |                    | ug/l  | <2.5            | <2.5            |
| 2-Hexanone                 |                    | ug/l  | <2.5            | <2.5            |
| 4-Methyl-2-pentanone       |                    | ug/l  | <2.5            | <2.5            |
| Acetonitrile               |                    | ug/l  | <10.0           | <10.0           |
| Acrolein                   |                    | ug/l  | <1.7            | <1.7            |
| Acrylonitrile              |                    | ug/l  | <1.5            | <1.5            |
| Allyl chloride             |                    | ug/l  | <0.5            | <0.5            |
| Benzene                    | 500                | ug/l  | 1.23            | 7.9             |
| Bromomethane               |                    | ug/l  | <0.11           | <0.11           |
| Bromochloromethane         |                    | ug/l  | <0.5            | <0.5            |
| Bromodichloromethane       |                    | ug/l  | <0.08           | <0.08           |
| Carbon Disulfide           |                    | ug/l  | <4.1            | <4.1            |
| Carbon tetrachloride       | 500                | ug/l  | <0.21           | <0.21           |
| Chlorobenzene              | 100,000            | ug/l  | 6.43            | 4.69            |

Table 2, Page 4

| Analyte                   | Location:          |       | Lift Station #1 | Lift Station #2 |
|---------------------------|--------------------|-------|-----------------|-----------------|
|                           | Sample Identifier: |       | Leachate I      | Leachate II     |
|                           | Date of Test:      |       | 08/11/04        | 08/11/04        |
|                           | Standard(1)        | Units |                 |                 |
| Chloroethane              |                    | ug/l  | <0.10           | <0.1            |
| Chloromethane             |                    | ug/l  | <0.13           | <0.13           |
| Chloroprene               |                    | ug/l  | <0.03           | <0.03           |
| cis-1,2-Dichloroethene    |                    | ug/l  | <0.10           | <0.1            |
| cis-1,3-Dichloropropene   |                    | ug/l  | <0.05           | <0.05           |
| Dibromochloromethane      |                    | ug/l  | <0.05           | <0.05           |
| Dibromomethane            |                    | ug/l  | <0.3            | <0.3            |
| Dichlorodifluoromethane   |                    | ug/l  | <0.10           | <0.10           |
| Dichloromethane           |                    | ug/l  | <0.03           | <0.03           |
| Ethyl methacrylate        |                    | ug/l  | <0.5            | <0.5            |
| Ethylbenzene              |                    | ug/l  | 0.77            | 4.7             |
| Iodomethane               |                    | ug/l  | <0.5            | <0.5            |
| Isobutyl Alcohol          |                    | ug/l  | <10.0           | <10.0           |
| Methacrylonitrile         |                    | ug/l  | <10.0           | <10.0           |
| Methyl methacrylate       |                    | ug/l  | <0.5            | <0.5            |
| Propionitrile             |                    | ug/l  | <10.0           | <10.0           |
| Styrene                   |                    | ug/l  | <1.0            | <1.0            |
| t-1,4-Dichloro-2-butene   |                    | ug/l  | <10.0           | <10.0           |
| Tetrachloroethene         | 700                | ug/l  | <0.14           | <0.14           |
| Toluene                   |                    | ug/l  | <0.11           | 0.96            |
| trans-1,2-Dichloroethene  |                    | ug/l  | <0.06           | <0.06           |
| trans-1,3-Dichloropropene |                    | ug/l  | <0.04           | <0.04           |
| Tribromomethane           |                    | ug/l  | <0.12           | <0.12           |
| Trichloroethene           | 500                | ug/l  | <0.19           | <0.19           |
| Trichlorofluoromethane    |                    | ug/l  | <0.08           | <0.08           |
| Trichloromethane          |                    | ug/l  | <0.03           | <0.03           |
| Vinyl acetate             |                    | ug/l  | <10.0           | <10.0           |
| Vinyl chloride            | 200                | ug/l  | <0.17           | 5.91            |
| o-Xylene                  |                    | ug/l  | 1.55            | 5.8             |
| m,p-Xylenes               |                    | ug/l  | 2.64            | 3.34            |
| Ethylene dibromide        |                    | ug/l  | <0.01           | <0.01           |
| Dibromochloropropane      |                    | ug/l  | <0.01           | <0.01           |
| Total sulfide             |                    | mg/l  | <1.0            | <1.0            |

Notes: (1) - Regulatory standard listed in 40 CFR Part 261.24. Analyte concentrations shown with shading represent an exceedance of the regulatory level.

Abbreviations: mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

**Table 2-2**  
**Leachate Analytical Summary**  
**Lena Road Landfill**  
**First Half 2005**

| Analyte                            | Location:          |           | Lift Station #1 | Lift Station #2 |
|------------------------------------|--------------------|-----------|-----------------|-----------------|
|                                    | Sample Identifier: |           | Phase I         | Phase II        |
|                                    | Date of Test:      |           | 02/18/05        | 02/18/05        |
|                                    | Standard(1)        | Units     |                 |                 |
| <b>Field Measurements</b>          |                    |           |                 |                 |
| pH                                 |                    | STD       | 6.42            | 6.55            |
| Temperature                        |                    | Degrees C | 22.39           | 20.79           |
| Turbidity                          |                    | NTUs      | 141             | 5.5             |
| Conductivity                       |                    | umhos/cm  | 2231            | 5259            |
| Dissolved Oxygen (DO)              |                    | mg/l      | 0.72            | 0.6             |
| <b>Inorganics</b>                  |                    |           |                 |                 |
| Antimony                           |                    | mg/l      | BDL             | BDL             |
| Arsenic                            | 5.0                | mg/l      | BDL             | BDL             |
| Barium                             | 100                | mg/l      | BDL             | BDL             |
| Beryllium                          |                    | mg/l      | BDL             | BDL             |
| Bicarbonate alkalinity             |                    | mg/l      | BDL             | BDL             |
| Cadmium                            | 1.0                | mg/l      | BDL             | BDL             |
| Chloride                           |                    | mg/l      | BDL             | BDL             |
| Chromium                           |                    | mg/l      | BDL             | BDL             |
| Cobalt                             |                    | mg/l      | BDL             | BDL             |
| Copper                             |                    | mg/l      | BDL             | BDL             |
| Cyanide                            |                    | mg/l      | BDL             | 0.005           |
| Iron                               |                    | mg/l      | 15.7            | 9.84            |
| Lead                               | 5,000              | mg/l      | BDL             | BDL             |
| Mercury                            | 200                | mg/l      | BDL             | BDL             |
| Nickel                             |                    | mg/l      | BDL             | BDL             |
| Nitrate                            |                    | mg/l      | BDL             | BDL             |
| Selenium                           | 1.0                | mg/l      | BDL             | BDL             |
| Silver                             | 5.0                | mg/l      | BDL             | BDL             |
| Sodium                             |                    | mg/l      | 122             | 415             |
| Total Ammonia - N                  |                    | mg/l      | BDL             | BDL             |
| Total phenols                      |                    | mg/l      | 0.019           | 0.026           |
| Thallium                           |                    | mg/l      | BDL             | BDL             |
| Tin as SN                          |                    | mg/l      | BDL             | BDL             |
| Total Dissolved Solids (TDS)       |                    | mg/l      | BDL             | BDL             |
| Total Sulfide                      |                    | mg/l      | BDL             | BDL             |
| Vanadium                           |                    | mg/l      | BDL             | BDL             |
| Zinc                               |                    | mg/l      | BDL             | BDL             |
| <b>Pesticides &amp; Herbicides</b> |                    |           |                 |                 |
| 2,4-D                              | 10,000             | ug/l      | BDL             | BDL             |
| 2,4,5-T                            |                    | ug/l      | BDL             | BDL             |
| A-BHC                              |                    | ug/l      | BDL             | BDL             |
| Aldrin                             |                    | ug/l      | BDL             | BDL             |
| B-BHC                              |                    | ug/l      | BDL             | BDL             |
| Chlordane                          | 30                 | ug/l      | BDL             | BDL             |
| D-BHC                              |                    | ug/l      | BDL             | BDL             |
| Dinoseb                            |                    | ug/l      | BDL             | BDL             |
| Endosulfan Sulfate                 |                    | ug/l      | BDL             | BDL             |
| Endosulfan-I                       |                    | ug/l      | BDL             | BDL             |
| Endosulfan-II                      |                    | ug/l      | BDL             | BDL             |
| Endrin                             | 20                 | ug/l      | BDL             | BDL             |
| Endrin Aldehyde                    |                    | ug/l      | BDL             | BDL             |
| G-BHC(Lindane)                     | 400                | ug/l      | BDL             | BDL             |
| Heptachlor                         | 8                  | ug/l      | BDL             | BDL             |
| Heptachlor Epoxide                 |                    | ug/l      | BDL             | BDL             |
| Methoxychlor                       | 10,000             | ug/l      | BDL             | BDL             |

| Analyte                            | Location:          |       | Lift Station #1 | Lift Station #2 |
|------------------------------------|--------------------|-------|-----------------|-----------------|
|                                    | Sample Identifier: |       | Phase I         | Phase II        |
|                                    | Date of Test:      |       | 02/18/05        | 02/18/05        |
|                                    | Standard(1)        | Units |                 |                 |
| PP-DDD                             |                    | ug/l  | BDL             | BDL             |
| PP-DDE/Dieldrin                    |                    | ug/l  | BDL             | BDL             |
| PP-DDT                             |                    | ug/l  | BDL             | BDL             |
| Silvex                             | 1,000              | ug/l  | BDL             | BDL             |
| Toxaphene                          | 500                | ug/l  | BDL             | BDL             |
| PCB-1016                           |                    | ug/l  | BDL             | BDL             |
| PCB-1221                           |                    | ug/l  | BDL             | BDL             |
| PCB-1232                           |                    | ug/l  | BDL             | BDL             |
| PCB-1242                           |                    | ug/l  | BDL             | BDL             |
| PCB-1248                           |                    | ug/l  | BDL             | BDL             |
| PCB-1254                           |                    | ug/l  | BDL             | BDL             |
| PCB-1260                           |                    | ug/l  | BDL             | BDL             |
| <b>Organics, Acid Extractables</b> |                    |       |                 |                 |
| 2,4,6-Trichlorophenol              | 2,000              | ug/l  | BDL             | BDL             |
| 2,4,5-Trichlorophenol              | 400,000            | ug/l  | BDL             | BDL             |
| 2,4-Dinitrophenol                  |                    | ug/l  | BDL             | BDL             |
| 4-Nitrophenol                      |                    | ug/l  | BDL             | BDL             |
| 2,3,4,6-Tetrachlorophenol          |                    | ug/l  | BDL             | BDL             |
| Pentachlorophenol                  | 100,000            | ug/l  | BDL             | BDL             |
| 2,4-Dichlorophenol                 |                    | ug/l  | BDL             | BDL             |
| 4,6-Dinitro-2-methylphenol         |                    | ug/l  | BDL             | BDL             |
| (3+4)-Methylphenol                 |                    | ug/l  | BDL             | BDL             |
| 2-Methylphenol                     |                    | ug/l  | BDL             | BDL             |
| 2,4-Dimethylphenol                 |                    | ug/l  | BDL             | BDL             |
| 2-Nitrophenol                      |                    | ug/l  | BDL             | BDL             |
| Phenol                             |                    | ug/l  | BDL             | BDL             |
| 2-Chlorophenol                     |                    | ug/l  | BDL             | BDL             |
| 2,6-Dichlorophenol                 |                    | ug/l  | BDL             | BDL             |
| 4-Chloro-3-methylphenol            |                    | ug/l  | BDL             | BDL             |
| <b>Base Neutrals</b>               |                    |       |                 |                 |
| 1,3,5-Trinitrobenzene              |                    | ug/l  | BDL             | BDL             |
| 1,3-Dinitrobenzene                 |                    | ug/l  | BDL             | BDL             |
| 1,4-Naphthoquinone                 |                    | ug/l  | BDL             | BDL             |
| 2-Acetylaminoflourene              |                    | ug/l  | BDL             | BDL             |
| 3,3-Dimethylbenzidine              |                    | ug/l  | BDL             | BDL             |
| 5-Nitro-o-toluidine                |                    | ug/l  | BDL             | BDL             |
| Acetonitrile                       |                    | ug/l  | BDL             | BDL             |
| Chlorobenzilate                    |                    | ug/l  | BDL             | BDL             |
| cis-Diallate                       |                    | ug/l  | BDL             | BDL             |
| trans-Diallate                     |                    | ug/l  | BDL             | BDL             |
| Dimethoate                         |                    | ug/l  | BDL             | BDL             |
| Disulfoton                         |                    | ug/l  | BDL             | BDL             |
| Famfur                             |                    | ug/l  | BDL             | BDL             |
| Hexylchloropropene                 |                    | ug/l  | BDL             | BDL             |
| Isodrin                            |                    | ug/l  | BDL             | BDL             |
| Isosafrole                         |                    | ug/l  | BDL             | BDL             |
| Kepone                             |                    | ug/l  | BDL             | BDL             |
| Methapyrilene                      |                    | ug/l  | BDL             | BDL             |
| Methyl parathion                   |                    | ug/l  | BDL             | BDL             |
| N-Nitrosoethylmethylamine          |                    | ug/l  | BDL             | BDL             |
| N-Nitrosopyrrolidine               |                    | ug/l  | BDL             | BDL             |
| N-Nitrosodiethylamine              |                    | ug/l  | BDL             | BDL             |
| OOO-Triethylphosphorothioate       |                    | ug/l  | BDL             | BDL             |

| Analyte                        | Location:          |       | Lift Station #1 | Lift Station #2 |
|--------------------------------|--------------------|-------|-----------------|-----------------|
|                                | Sample Identifier: |       | Phase I         | Phase II        |
|                                | Date of Test:      |       | 02/18/05        | 02/18/05        |
|                                | Standard(1)        | Units |                 |                 |
| Ortho-toluidine                |                    | ug/l  | BDL             | BDL             |
| Para-Phenylenediamine          |                    | ug/l  | BDL             | BDL             |
| Parathion                      |                    | ug/l  | BDL             | BDL             |
| Phorate                        |                    | ug/l  | BDL             | BDL             |
| Safrole                        |                    | ug/l  | BDL             | BDL             |
| Thionazin                      |                    | ug/l  | BDL             | BDL             |
| 1,2,4,5-Tetrachlorobenzene     |                    | ug/l  | BDL             | BDL             |
| 1,2,4-Trichlorobenzene         |                    | ug/l  | BDL             | BDL             |
| 1-Naphthylamine                |                    | ug/l  | BDL             | BDL             |
| 2,4-Dinitrotoluene             | 13,000             | ug/l  | BDL             | BDL             |
| 2,6-Dinitrotoluene             |                    | ug/l  | BDL             | BDL             |
| 2-Chloronaphthalene            |                    | ug/l  | BDL             | BDL             |
| 2-Methylnaphthalene            |                    | ug/l  | BDL             | BDL             |
| 2-Naphthylamine                |                    | ug/l  | BDL             | BDL             |
| 2-Nitroaniline                 |                    | ug/l  | BDL             | BDL             |
| 3,3-Dichlorobenzidine          |                    | ug/l  | BDL             | BDL             |
| 3-Methylcholanthrene           |                    | ug/l  | BDL             | BDL             |
| 3-Nitroaniline                 |                    | ug/l  | BDL             | BDL             |
| 4-Aminobiphenyl                |                    | ug/l  | BDL             | BDL             |
| 4-Bromophenyl-phenylether      |                    | ug/l  | BDL             | BDL             |
| 4-Chloroaniline                |                    | ug/l  | BDL             | BDL             |
| 4-Chlorophenylphenylether      |                    | ug/l  | BDL             | BDL             |
| 4-Nitronaline                  |                    | ug/l  | BDL             | BDL             |
| 7,12-Dimethylbenz(a)anthracene |                    | ug/l  | BDL             | BDL             |
| Acenaphthene                   |                    | ug/l  | BDL             | BDL             |
| Acenaphthylene                 |                    | ug/l  | BDL             | BDL             |
| Acetone                        |                    | ug/l  | BDL             | BDL             |
| Acetophenone                   |                    | ug/l  | BDL             | BDL             |
| Anthracene                     |                    | ug/l  | BDL             | BDL             |
| Benzo(a)anthracene             |                    | ug/l  | BDL             | BDL             |
| Benzo(a)pyrene                 |                    | ug/l  | BDL             | BDL             |
| Benzo(b)flouranthene           |                    | ug/l  | BDL             | BDL             |
| Benzo(g,h,i)perylene           |                    | ug/l  | BDL             | BDL             |
| Benzo(k)flouranthene           |                    | ug/l  | BDL             | BDL             |
| Benzyl alcohol                 |                    | ug/l  | BDL             | BDL             |
| Bis(2-chloroethoxy)methane     |                    | ug/l  | BDL             | BDL             |
| Bis(2-chloroethyl)ether        |                    | ug/l  | BDL             | BDL             |
| Bis(2-chloroisopropyl)ether    |                    | ug/l  | BDL             | BDL             |
| Bis(2-ethylhexyl)phthalate     |                    | ug/l  | BDL             | BDL             |
| Butylbenzylphthalate           |                    | ug/l  | BDL             | BDL             |
| Chrysene                       |                    | ug/l  | BDL             | BDL             |
| Dibenz(a,h)anthracene          |                    | ug/l  | BDL             | BDL             |
| Dibenzofuran                   |                    | ug/l  | BDL             | BDL             |
| Diethylphthalate               |                    | ug/l  | BDL             | BDL             |
| Dimethylphthalate              |                    | ug/l  | BDL             | BDL             |
| Di-N-butylphthalate            |                    | ug/l  | BDL             | BDL             |
| Di-N-octylphthalate            |                    | ug/l  | BDL             | BDL             |
| Diphenylamine                  |                    | ug/l  | BDL             | BDL             |
| Ethylmethanesulfonate          |                    | ug/l  | BDL             | BDL             |
| Flouranthene                   |                    | ug/l  | BDL             | BDL             |
| Flourene                       |                    | ug/l  | BDL             | BDL             |

| Analyte                    | Location:          |       | Lift Station #1 | Lift Station #2 |
|----------------------------|--------------------|-------|-----------------|-----------------|
|                            | Sample Identifier: |       | Phase I         | Phase II        |
|                            | Date of Test:      |       | 02/18/05        | 02/18/05        |
|                            | Standard(1)        | Units |                 |                 |
| Hexachlorobenzene          | 130                | ug/l  | BDL             | BDL             |
| Hexachlorobutadiene        | 500                | ug/l  | BDL             | BDL             |
| Hexachlorocyclopentadiene  |                    | ug/l  | BDL             | BDL             |
| Hexachloroethane           | 3,000              | ug/l  | BDL             | BDL             |
| Indeno(1,2,3-cd)pyrene     |                    | ug/l  | BDL             | BDL             |
| Isophorone                 |                    | ug/l  | BDL             | BDL             |
| Methylmethanesulfonate     |                    | ug/l  | BDL             | BDL             |
| Naphthalene                |                    | ug/l  | BDL             | BDL             |
| N-Nitrosodi-n-butylamine   |                    | ug/l  | BDL             | BDL             |
| Nitrobenzene               | 2,000              | ug/l  | BDL             | BDL             |
| N-Nitrosodimethylamine     |                    | ug/l  | BDL             | BDL             |
| N-Nitroso-di-n-propylamine |                    | ug/l  | BDL             | BDL             |
| N-Nitrosodiphenylamine     |                    | ug/l  | BDL             | BDL             |
| N-Nitrosopiperidine        |                    | ug/l  | BDL             | BDL             |
| P-Dimethylaminoazobenzene  |                    | ug/l  | BDL             | BDL             |
| Pentachlorobenzene         |                    | ug/l  | BDL             | BDL             |
| Pentachloronitrobenzene    |                    | ug/l  | BDL             | BDL             |
| Phenacetin                 |                    | ug/l  | BDL             | BDL             |
| Phenanathrene              |                    | ug/l  | BDL             | BDL             |
| Pronamide                  |                    | ug/l  | BDL             | BDL             |
| Pyrene                     |                    | ug/l  | BDL             | BDL             |
| <b>Volatile Organics</b>   |                    |       |                 |                 |
| 1,1,1,2-Tetrachloroethane  |                    | ug/l  | BDL             | BDL             |
| 1,1,1-Trichloroethane      |                    | ug/l  | BDL             | BDL             |
| 1,1,2,2-Tetrachloroethane  |                    | ug/l  | BDL             | BDL             |
| 1,1,2-Trichloroethane      |                    | ug/l  | BDL             | BDL             |
| 1,1-Dichloroethane         |                    | ug/l  | BDL             | BDL             |
| 1,1-Dichloroethene         | 700                | ug/l  | BDL             | 0.43            |
| 1,1-Dichloropropene        |                    | ug/l  | BDL             | BDL             |
| 1,2,3-Trichloropropane     |                    | ug/l  | BDL             | BDL             |
| 1,2-Dichlorobenzene        |                    | ug/l  | BDL             | BDL             |
| 1,2-Dichloroethane         | 500                | ug/l  | BDL             | BDL             |
| 1,2-Dichloropropane        |                    | ug/l  | BDL             | BDL             |
| 1,3-Dichlorobenzene        |                    | ug/l  | BDL             | BDL             |
| 1,3-Dichloropropane        |                    | ug/l  | BDL             | BDL             |
| 1,4-Dichlorobenzene        | 7,500              | ug/l  | BDL             | 11.1            |
| 2,2-Dichloropropane        |                    | ug/l  | BDL             | BDL             |
| 2-Butanone                 |                    | ug/l  | BDL             | BDL             |
| 2-Hexanone                 |                    | ug/l  | BDL             | BDL             |
| 4-Methyl-2-pentanone       |                    | ug/l  | BDL             | BDL             |
| Acetonitrile               |                    | ug/l  | BDL             | BDL             |
| Acrolein                   |                    | ug/l  | BDL             | BDL             |
| Acrylonitrile              |                    | ug/l  | BDL             | BDL             |
| Allyl chloride             |                    | ug/l  | BDL             | BDL             |
| Benzene                    | 500                | ug/l  | BDL             | 2.8             |
| Bromomethane               |                    | ug/l  | BDL             | BDL             |
| Bromochloromethane         |                    | ug/l  | BDL             | BDL             |
| Bromodichloromethane       |                    | ug/l  | BDL             | BDL             |
| Carbon disulfide           |                    | ug/l  | BDL             | BDL             |
| Carbon tetrachloride       | 500                | ug/l  | BDL             | BDL             |
| Chlorobenzene              | 100,000            | ug/l  | BDL             | 3.76            |

| Analyte                   | Location:          |       | Lift Station #1 | Lift Station #2 |
|---------------------------|--------------------|-------|-----------------|-----------------|
|                           | Sample Identifier: |       | Phase I         | Phase II        |
|                           | Date of Test:      |       | 02/18/05        | 02/18/05        |
|                           | Standard(1)        | Units |                 |                 |
| Chloroethane              |                    | ug/l  | BDL             | BDL             |
| Chloromethane             |                    | ug/l  | BDL             | BDL             |
| Chloroprene               |                    | ug/l  | BDL             | BDL             |
| cis-1,2-Dichloroethene    |                    | ug/l  | BDL             | BDL             |
| cis-1,3-Dichloropropene   |                    | ug/l  | BDL             | BDL             |
| Dibromochloromethane      |                    | ug/l  | BDL             | BDL             |
| Dibromomethane            |                    | ug/l  | BDL             | BDL             |
| Dichlorodifluoromethane   |                    | ug/l  | BDL             | BDL             |
| Dichloromethane           |                    | ug/l  | BDL             | BDL             |
| Ethyl methacrylate        |                    | ug/l  | BDL             | BDL             |
| Ethylbenzene              |                    | ug/l  | BDL             | 0.8             |
| Iodomethane               |                    | ug/l  | BDL             | BDL             |
| Isobutyl Alcohol          |                    | ug/l  | BDL             | BDL             |
| Methacrylonitrile         |                    | ug/l  | BDL             | BDL             |
| Methyl methacrylate       |                    | ug/l  | BDL             | BDL             |
| Propionitrile             |                    | ug/l  | BDL             | BDL             |
| Styrene                   |                    | ug/l  | BDL             | BDL             |
| t-1,4-Dichloro-2-butene   |                    | ug/l  | BDL             | BDL             |
| Tetrachloroethene         | 700                | ug/l  | BDL             | BDL             |
| Toluene                   |                    | ug/l  | BDL             | 0.22            |
| trans-1,2-Dichloroethene  |                    | ug/l  | BDL             | BDL             |
| trans-1,3-Dichloropropene |                    | ug/l  | BDL             | BDL             |
| Tribromomethane           |                    | ug/l  | BDL             | BDL             |
| Trichloroethene           | 500                | ug/l  | BDL             | BDL             |
| Trichlorofluoromethane    |                    | ug/l  | BDL             | BDL             |
| Trichloromethane          |                    | ug/l  | BDL             | BDL             |
| Vinyl acetate             |                    | ug/l  | BDL             | BDL             |
| Vinyl chloride            | 200                | ug/l  | BDL             | 2.15            |
| o-Xylene                  |                    | ug/l  | BDL             | 2.11            |
| m,p-Xylenes               |                    | ug/l  | BDL             | 2.89            |
| Ethylene dibromide        |                    | ug/l  | BDL             | BDL             |
| Dibromochloropropane      |                    | ug/l  | BDL             | BDL             |

Notes: (1) - Regulatory standard listed in 40 CFR Part 261.24. Analyte concentrations shown with shading represent an exceedance of the regulatory level.

Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

**Table 2-3 - Lena Road Leachate Analytical Summary  
Second Half 2005**

| Analyte                            | Location:          |           | Lift Station #1 | Lift Station #2 | Lift Station #3 |
|------------------------------------|--------------------|-----------|-----------------|-----------------|-----------------|
|                                    | Sample Identifier: |           | Leachate I      | Leachate II     | Leachate III    |
|                                    | Date of Test:      |           | 08/10/05        | 08/10/05        | 8/10/2005       |
|                                    | Standard(I)        | Units     |                 |                 |                 |
| <b>Field Measurements</b>          |                    |           |                 |                 |                 |
| pH                                 |                    | STD       | 6.8             | 6.7             | 6.5             |
| Temperature                        |                    | Degrees C | 30.6            | 34.4            | 28.5            |
| Conductivity                       |                    | umhos/cm  | 4150            | 2878            | 876             |
| Dissolved Oxygen (DO)              |                    | mg/l      | 2               | 1.8             | 2.1             |
| <b>Inorganics</b>                  |                    |           |                 |                 |                 |
| Antimony                           |                    | mg/l      | <0.0015         | <0.0015         | <0.0015         |
| Arsenic                            | 5.0                | mg/l      | 0.01            | <0.007          | 0.007           |
| Barium                             | 100                | mg/l      | 0.08            | 0.066           | 0.029           |
| Beryllium                          |                    | mg/l      | <0.0002         | <0.0002         | <0.0002         |
| Bicarbonate alkalinity             |                    | mg/l      | 1720            | 1020            | 377             |
| Cadmium                            | 1.0                | mg/l      | <0.0005         | <0.0005         | <0.0005         |
| Chloride                           |                    | mg/l      | 608             | 342             | 33.6            |
| Chromium                           |                    | mg/l      | 0.005           | 0.003           | 0.002           |
| Cobalt                             |                    | mg/l      | 0.008           | 0.007           | 0.001           |
| Copper                             |                    | mg/l      | 0.3             | 0.044           | 0.01            |
| Iron                               |                    | mg/l      | 11.4            | 1.28            | 9.71            |
| Lead                               | 5,000              | mg/l      | 0.013           | <0.005          | <0.005          |
| Mercury                            | 2                  | ug/l      | <0.100          | <0.100          | <0.100          |
| Nickel                             |                    | mg/l      | 0.045           | 0.012           | 0.003           |
| Nitrate                            |                    | mg/l      | <0.006          | <0.006          | <0.006          |
| Selenium                           | 1.0                | mg/l      | 0.002           | 0.002           | 0.001           |
| Silver                             | 5.0                | mg/l      | <0.002          | <0.002          | <0.002          |
| Sodium                             |                    | mg/l      | 192             | 181             | 24.9            |
| Total Ammonia - N                  |                    | mg/l      | 180             | 109             | 21.3            |
| Thallium                           |                    | mg/l      | <0.0004         | <0.0004         | <0.0004         |
| Tin as SN                          |                    | mg/l      | <0.1            | <0.1            | <0.1            |
| Total Dissolved Solids (TDS)       |                    | mg/l      | 1300            | 1440            | 446             |
| Vanadium                           |                    | mg/l      | 0.017           | 0.002           | 0.006           |
| Zinc                               |                    | mg/l      | 0.154           | 0.048           | 0.034           |
| <b>Pesticides &amp; Herbicides</b> |                    |           |                 |                 |                 |
| 2,4-D                              | 10,000             | ug/l      | <0.36           | <0.36           | <0.36           |
| 2,4,5-T                            |                    | ug/l      | <0.046          | <0.046          | <0.046          |
| A-BHC                              |                    | ug/l      | <0.00051        | <0.00051        | <0.00051        |
| Aldrin                             |                    | ug/l      | <0.00065        | <0.00065        | <0.00065        |
| B-BHC                              |                    | ug/l      | <0.0063         | <0.0063         | <0.0063         |
| Chlordane                          | 30                 | ug/l      | <0.057          | <0.057          | <0.057          |
| D-BHC                              |                    | ug/l      | <0.0074         | <0.0074         | <0.0074         |
| Dinoseb                            |                    | ug/l      | <0.42           | <0.42           | <0.42           |
| Endosulfan Sulfate                 |                    | ug/l      | <0.0070         | <0.0070         | <0.0070         |
| Endosulfan-I                       |                    | ug/l      | <0.0063         | <0.0063         | <0.0063         |
| Endosulfan-II                      |                    | ug/l      | <0.0078         | <0.0078         | <0.0078         |
| Endrin                             | 20                 | ug/l      | <0.0035         | <0.0035         | <0.0035         |
| Endrin Aldehyde                    |                    | ug/l      | <0.0050         | <0.0050         | <0.0050         |
| G-BHC(Lindane)                     | 400                | ug/l      | <0.011          | <0.011          | <0.011          |
| Heptachlor                         | 8                  | ug/l      | <0.011          | <0.011          | <0.011          |
| Heptachlor Epoxide                 |                    | ug/l      | <0.0060         | <0.0060         | <0.0060         |
| Methoxychlor                       | 10,000             | ug/l      | <0.0082         | <0.0082         | <0.0082         |



| Analyte                            | Location:          |       | Lift Station #1 | Lift Station #2 | Lift Station #3 |
|------------------------------------|--------------------|-------|-----------------|-----------------|-----------------|
|                                    | Sample Identifier: |       | Leachate I      | Leachate II     | Leachate III    |
|                                    | Date of Test:      |       | 08/10/05        | 08/10/05        | 8/10/2005       |
|                                    | Standard(I)        | Units |                 |                 |                 |
| PP-DDD                             |                    | ug/l  | <0.0047         | <0.0047         | <0.0047         |
| PP-DDE/Dieldrin                    |                    | ug/l  | <0.0031         | <0.0031         | <0.0031         |
| PP-DDT                             |                    | ug/l  | <0.0042         | <0.0042         | <0.0042         |
| Silvex                             | 1,000              | ug/l  | <0.036          | <0.036          | <0.036          |
| Toxaphene                          | 500                | ug/l  | <0.72           | <0.72           | <0.72           |
| PCB-1016                           |                    | ug/l  | <0.26           | <0.26           | <0.26           |
| PCB-1221                           |                    | ug/l  | <0.15           | <0.15           | <0.15           |
| PCB-1232                           |                    | ug/l  | <0.38           | <0.38           | <0.38           |
| PCB-1242                           |                    | ug/l  | <0.077          | <0.077          | <0.077          |
| PCB-1248                           |                    | ug/l  | <0.070          | <0.070          | <0.070          |
| PCB-1254                           |                    | ug/l  | <0.12           | <0.12           | <0.12           |
| PCB-1260                           |                    | ug/l  | <0.10           | <0.10           | <0.10           |
| <b>Organics, Acid Extractables</b> |                    |       |                 |                 |                 |
| 2,4,6-Trichlorophenol              | 2,000              | ug/l  | <1.9            | <1.9            | <1.9            |
| 2,4,5-Trichlorophenol              | 400,000            | ug/l  | <2.1            | <2.1            | <2.1            |
| 2,4-Dinitrophenol                  |                    | ug/l  | <6.2            | <6.2            | <6.2            |
| 4-Nitrophenol                      |                    | ug/l  | <6.2            | <6.2            | <6.2            |
| 2,3,4,6-Tetrachlorophenol          |                    | ug/l  | <2.1            | <0.65           | <0.65           |
| Pentachlorophenol                  | 100,000            | ug/l  | <1.5            | <1.5            | <1.5            |
| 2,4-Dichlorophenol                 |                    | ug/l  | <1.8            | <1.8            | <1.8            |
| 4,6-Dinitro-2-methylphenol         |                    | ug/l  | <1.5            | <1.5            | <1.5            |
| (3+4)-Methylphenol                 |                    | ug/l  | <2.4            | <2.4            | <2.4            |
| 2-Methylphenol                     |                    | ug/l  | <2.3            | <2.3            | <2.3            |
| 2,4-Dimethylphenol                 |                    | ug/l  | <1.8            | <1.8            | <1.8            |
| 2-Nitrophenol                      |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Phenol                             |                    | ug/l  | <2.4            | <2.4            | <2.4            |
| 2-Chlorophenol                     |                    | ug/l  | <2.1            | <2.1            | <2.1            |
| 2,6-Dichlorophenol                 |                    | ug/l  | <1.6            | <1.6            | <1.6            |
| 4-Chloro-3-methylphenol            |                    | ug/l  | <1.7            | <1.7            | <1.7            |
| <b>Base Neutrals</b>               |                    |       |                 |                 |                 |
| 1,3,5-Trinitrobenzene              |                    | ug/l  | <0.61           | <0.61           | <0.61           |
| 1,3-Dinitrobenzene                 |                    | ug/l  | <0.99           | <0.99           | <0.99           |
| 1,4-Naphthoquinone                 |                    | ug/l  | <0.54           | <0.54           | <0.54           |
| 2-Acetylaminoflourene              |                    | ug/l  | <0.77           | <0.77           | <0.77           |
| 3,3-Dimethylbenzidine              |                    | ug/l  | <14             | <14             | <14             |
| 5-Nitro-o-toluidine                |                    | ug/l  | <0.90           | <0.90           | <0.90           |
| Chlorobenzilate                    |                    | ug/l  | <0.075          | <0.075          | <0.075          |
| Diallate                           |                    | ug/l  | <1.4            | <1.4            | <1.4            |
| Dimethoate                         |                    | ug/l  | <0.12           | <0.12           | <0.12           |
| Disulfoton                         |                    | ug/l  | <0.18           | <0.18           | <0.18           |
| Famphur                            |                    | ug/l  | <0.17           | <0.17           | <0.17           |
| Hexylchloropropene                 |                    | ug/l  | <3800           | <3800           | <3800           |
| Isodrin                            |                    | ug/l  | <0.0061         | <0.0061         | <0.0061         |
| Isosafrole                         |                    | ug/l  | <1.6            | <1.6            | <1.6            |
| Kepone                             |                    | ug/l  | <0.083          | <0.083          | <0.083          |
| Methapyriline                      |                    | ug/l  | <1.1            | <1.1            | <1.1            |
| Methyl parathion                   |                    | ug/l  | <0.11           | <0.11           | <0.11           |
| N-Nitrosoethylmethylanine          |                    | ug/l  | <2.4            | <2.4            | <2.4            |
| N-Nitrosopyrrolidine               |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| N-Nitrosodiethylamine              |                    | ug/l  | <1.5            | <1.5            | <1.5            |
| OOO-Triethylphosphorothioate       |                    | ug/l  | <1.8            | <1.8            | <1.8            |

| Analyte                        | Location:          |       | Lift Station #1 | Lift Station #2 | Lift Station #3 |
|--------------------------------|--------------------|-------|-----------------|-----------------|-----------------|
|                                | Sample Identifier: |       | Leachate I      | Leachate II     | Leachate III    |
|                                | Date of Test:      |       | 08/10/05        | 08/10/05        | 8/10/2005       |
|                                | Standard(I)        | Units |                 |                 |                 |
| Ortho-toluidine                |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Para-Phenylenediamine          |                    | ug/l  | <3.1            | <3.1            | <3.1            |
| Parathion                      |                    | ug/l  | <0.085          | <0.085          | <0.085          |
| Phorate                        |                    | ug/l  | <0.086          | <0.086          | <0.086          |
| Safrole                        |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Thionazin                      |                    | ug/l  | <0.080          | <0.080          | <0.080          |
| 1,2,4,5-Tetrachlorobenzene     |                    | ug/l  | <1.1            | <1.1            | <1.1            |
| 1,2,4-Trichlorobenzene         |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| 1-Naphthylamine                |                    | ug/l  | <0.84           | <0.84           | <0.84           |
| 2,4-Dinitrotoluene             | 13,000             | ug/l  | <0.91           | <0.91           | <0.91           |
| 2,6-Dinitrotoluene             |                    | ug/l  | <0.72           | <0.72           | <0.72           |
| 2-Chloronaphthalene            |                    | ug/l  | <1.6            | <1.6            | <1.6            |
| 2-Methylnaphthalene            |                    | ug/l  | <1.6            | <1.6            | <1.6            |
| 2-Naphthylamine                |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| 2-Nitroaniline                 |                    | ug/l  | <1.4            | <1.4            | <1.4            |
| 3,3-Dichlorobenzidine          |                    | ug/l  | <1.6            | <1.6            | <1.6            |
| 3-Methylcholanthrene           |                    | ug/l  | <0.56           | <0.56           | <0.56           |
| 3-Nitroaniline                 |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| 4-Aminobiphenyl                |                    | ug/l  | <0.81           | <0.81           | <0.81           |
| 4-Bromophenyl-phenylether      |                    | ug/l  | <1.7            | <1.7            | <1.7            |
| 4-Chloroaniline                |                    | ug/l  | <2.1            | <2.1            | <2.1            |
| 4-Chlorophenylphenylether      |                    | ug/l  | <1.8            | <1.8            | <1.8            |
| 4-Nitroaniline                 |                    | ug/l  | <1.4            | <1.4            | <1.4            |
| 7,12-Dimethylbenz(a)anthracene |                    | ug/l  | <0.92           | <0.92           | <0.92           |
| Acenaphthene                   |                    | ug/l  | <1.5            | 2.9             | <1.5            |
| Acenaphthylene                 |                    | ug/l  | <1.8            | <1.8            | <1.8            |
| Acetone                        |                    | ug/l  | 12              | 13              | <9.9            |
| Acetophenone                   |                    | ug/l  | <1.5            | <1.5            | <1.5            |
| Anthracene                     |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| Benzo(a)anthracene             |                    | ug/l  | <1.6            | <1.6            | <1.6            |
| Benzo(a)pyrene                 |                    | ug/l  | <0.99           | <0.99           | <0.99           |
| Benzo(b)fluoranthene           |                    | ug/l  | <1.6            | <1.6            | <1.6            |
| Benzo(g,h,i)perylene           |                    | ug/l  | <1.1            | <1.1            | <1.1            |
| Benzo(k)fluoranthene           |                    | ug/l  | <1.3            | <1.3            | <1.3            |
| Benzyl alcohol                 |                    | ug/l  | <2.9            | <2.9            | <2.9            |
| Bis(2-chloroethoxy)methane     |                    | ug/l  | <2.0            | <2.0            | <2.0            |
| Bis(2-chloroethyl)ether        |                    | ug/l  | <2.6            | <2.6            | <2.6            |
| Bis(2-chloroisopropyl)ether    |                    | ug/l  | <2.1            | <2.1            | <2.1            |
| Bis(2-ethylhexyl)phthalate     |                    | ug/l  | <1.3            | <1.3            | <1.3            |
| Butylbenzylphthalate           |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Chrysene                       |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Dibenz(a,h)anthracene          |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| Dibenzofuran                   |                    | ug/l  | <1.6            | 2.2             | <1.6            |
| Diethylphthalate               |                    | ug/l  | <1.6            | <1.6            | <1.6            |
| Dimethylphthalate              |                    | ug/l  | <2.1            | <2.1            | <2.1            |
| Di-N-butylphthalate            |                    | ug/l  | <1.8            | <1.8            | <1.8            |
| Di-N-octylphthalate            |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Diphenylamine                  |                    | ug/l  | <1.1            | <1.1            | <1.1            |
| Ethylmethanesulfonate          |                    | ug/l  | <1.3            | <1.3            | <1.3            |
| Fluoranthene                   |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Flourene                       |                    | ug/l  | <1.7            | 2.6             | <1.7            |

| Analyte                    | Location:          |       | Lift Station #1 | Lift Station #2 | Lift Station #3 |
|----------------------------|--------------------|-------|-----------------|-----------------|-----------------|
|                            | Sample Identifier: |       | Leachate I      | Leachate II     | Leachate III    |
|                            | Date of Test:      |       | 08/10/05        | 08/10/05        | 8/10/2005       |
|                            | Standard(I)        | Units |                 |                 |                 |
| Hexachlorobenzene          | 130                | ug/l  | <1.7            | <1.7            | <1.7            |
| Hexachlorobutadiene        | 500                | ug/l  | <1.0            | <1.0            | <1.0            |
| Hexachlorocyclopentadiene  |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Hexachloroethane           | 3,000              | ug/l  | <0.85           | <0.85           | <0.85           |
| Indeno(1,2,3-cd)pyrene     |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Isophorone                 |                    | ug/l  | <1.4            | <1.4            | <1.4            |
| Methylmethanesulfonate     |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Naphthalene                |                    | ug/l  | <1.3            | 2.3             | <1.3            |
| N-Nitrosodi-n-butylamine   |                    | ug/l  | <1.5            | <1.5            | <1.5            |
| Nitrobenzene               | 2,000              | ug/l  | <1.9            | <1.9            | <1.9            |
| N-Nitrosodimethylamine     |                    | ug/l  | <2.4            | <2.4            | <2.4            |
| N-Nitroso-di-n-propylamine |                    | ug/l  | <1.9            | <1.9            | <1.9            |
| N-Nitrosodiphenylamine     |                    | ug/l  | <1.6            | <1.6            | <1.6            |
| N-Nitrosopiperidine        |                    | ug/l  | <0.87           | <0.87           | <0.87           |
| P-Dimethylaminoazobenzene  |                    | ug/l  | <0.67           | <0.67           | <0.67           |
| Pentachlorobenzene         |                    | ug/l  | <0.99           | <0.99           | <0.99           |
| Pentachloronitrobenzene    |                    | ug/l  | <1.5            | <1.5            | <1.5            |
| Phenacetin                 |                    | ug/l  | <0.84           | <0.84           | <0.84           |
| Phenanathrene              |                    | ug/l  | <1.3            | 1.5             | <1.3            |
| Pronamide                  |                    | ug/l  | <0.70           | <0.70           | <0.70           |
| Pyrene                     |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| <b>Volatiles Organics</b>  |                    |       |                 |                 |                 |
| 1,1,1,2-Tetrachloroethane  |                    | ug/l  | <0.63           | <0.63           | <0.63           |
| 1,1,1-Trichloroethane      |                    | ug/l  | <0.46           | <0.46           | <0.46           |
| 1,1,2,2-Tetrachloroethane  |                    | ug/l  | <0.14           | <0.14           | <0.14           |
| 1,1,2-Trichloroethane      |                    | ug/l  | <0.47           | <0.47           | <0.47           |
| 1,1-Dichloroethane         |                    | ug/l  | <0.52           | <0.52           | <0.52           |
| 1,1-Dichloroethene         | 700                | ug/l  | <0.45           | <0.45           | <0.45           |
| 1,1-Dichloropropene        |                    | ug/l  | <0.31           | <0.31           | <0.31           |
| 1,2,3-Trichloropropane     |                    | ug/l  | <0.15           | <0.15           | <0.15           |
| 1,2-Dichlorobenzene        |                    | ug/l  | <0.44           | <0.44           | <0.44           |
| 1,2-Dichloroethane         | 500                | ug/l  | <0.57           | <0.57           | <0.57           |
| 1,2-Dichloropropane        |                    | ug/l  | <0.52           | <0.52           | <0.52           |
| 1,3-Dichlorobenzene        |                    | ug/l  | <0.64           | <0.64           | <0.64           |
| 1,3-Dichloropropane        |                    | ug/l  | <0.39           | <0.39           | <0.39           |
| 1,4-Dichlorobenzene        | 7,500              | ug/l  | 5.4             | 3.6             | 1.6             |
| 2,2-Dichloropropane        |                    | ug/l  | <0.36           | <0.36           | <0.36           |
| 2-Butanone                 |                    | ug/l  | <8.4            | <8.4            | <8.4            |
| 2-Hexanone                 |                    | ug/l  | <4.4            | <4.4            | <4.4            |
| 4-Methyl-2-pentanone       |                    | ug/l  | <3.8            | <3.8            | <3.8            |
| Acetonitrile               |                    | ug/l  | <75             | <75             | <75             |
| Acrolein                   |                    | ug/l  | <3.8            | <3.8            | <3.8            |
| Acrylonitrile              |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Allyl chloride             |                    | ug/l  | <1.1            | <1.1            | <1.1            |
| Benzene                    | 500                | ug/l  | 1.9             | 1.1             | <0.27           |
| Bromomethane               |                    | ug/l  | <0.66           | <0.66           | <0.66           |
| Bromochloromethane         |                    | ug/l  | <0.58           | <0.58           | <0.58           |
| Bromodichloromethane       |                    | ug/l  | <0.35           | <0.35           | <0.35           |
| Carbon Disulfide           |                    | ug/l  | <0.85           | <0.85           | <0.85           |
| Carbon tetrachloride       | 500                | ug/l  | <0.42           | <0.42           | <0.42           |
| Chlorobenzene              | 100,000            | ug/l  | 8.7             | 6.3             | 4.6             |

| Analyte                      | Location:          |       | Lift Station #1 | Lift Station #2 | Lift Station #3 |
|------------------------------|--------------------|-------|-----------------|-----------------|-----------------|
|                              | Sample Identifier: |       | Leachate I      | Leachate II     | Leachate III    |
|                              | Date of Test:      |       | 08/10/05        | 08/10/05        | 8/10/2005       |
|                              | Standard(f)        | Units |                 |                 |                 |
| Chloroethane                 |                    | ug/l  | <0.80           | <0.80           | <0.80           |
| Chloromethane                |                    | ug/l  | <0.64           | <0.64           | <0.64           |
| Chloroprene                  |                    | ug/l  | <0.89           | <0.89           | <0.89           |
| cis-1,2-Dichloroethene       |                    | ug/l  | <0.65           | <0.65           | <0.65           |
| cis-1,3-Dichloropropene      |                    | ug/l  | <0.14           | <0.14           | <0.14           |
| Dibromochloromethane         |                    | ug/l  | <0.34           | <0.34           | <0.34           |
| Dibromomethane               |                    | ug/l  | <0.41           | <0.41           | <0.41           |
| Dichlorodifluoromethane      |                    | ug/l  | <0.40           | <0.40           | <0.40           |
| Dichloromethane              |                    | ug/l  | <4.0            | <4.0            | <4.0            |
| Ethyl methacrylate           |                    | ug/l  | <0.53           | <0.53           | <0.53           |
| Ethylbenzene                 |                    | ug/l  | 1.2             | 1.2             | <0.53           |
| Iodomethane                  |                    | ug/l  | <0.67           | <0.67           | <0.67           |
| Isobutyl Alcohol             |                    | ug/l  | <31             | <31             | <31             |
| Methacrylonitrile            |                    | ug/l  | <1.8            | <1.8            | <1.8            |
| Methyl methacrylate          |                    | ug/l  | <0.66           | <0.66           | <0.66           |
| Propionitrile                |                    | ug/l  | <7.2            | <7.2            | <7.2            |
| Styrene                      |                    | ug/l  | <0.98           | <0.98           | <0.98           |
| t-1,4-Dichloro-2-butene      |                    | ug/l  | <2.5            | <2.5            | <2.5            |
| Tetrachloroethene            | 700                | ug/l  | <0.34           | <0.34           | <0.34           |
| Toluene                      |                    | ug/l  | <0.51           | <0.51           | <0.51           |
| trans-1,2-Dichloroethene     |                    | ug/l  | <0.44           | <0.44           | <0.44           |
| trans-1,3-Dichloropropene    |                    | ug/l  | <0.14           | <0.14           | <0.14           |
| Tribromomethane              |                    | ug/l  | <0.58           | <0.58           | <0.58           |
| Trichloroethene              | 500                | ug/l  | <0.28           | <0.28           | <0.28           |
| Trichlorofluoromethane       |                    | ug/l  | <0.98           | <0.98           | <0.98           |
| Trichloromethane             |                    | ug/l  | <0.90           | <0.90           | <0.90           |
| Vinyl acetate                |                    | ug/l  | <1.5            | <1.5            | <1.5            |
| Vinyl chloride               | 200                | ug/l  | <0.50           | 0.54            | 0.72            |
| o-Xylene                     |                    | ug/l  | NA              | NA              | NA              |
| m,p-Xylenes                  |                    | ug/l  | NA              | NA              | NA              |
| Total xylenes                |                    | ug/l  | 3.8             | 4.1             | <0.30           |
| Ethylene dibromide           |                    | ug/l  | <0.50           | <0.50           | <0.50           |
| Dibromochloropropane         |                    | ug/l  | <0.74           | <0.74           | <0.74           |
| Total sulfide <sup>(2)</sup> |                    | mg/l  | 3.2             | 2               | 0.6             |

Notes: (1) - Regulatory standard listed in 40 CFR Part 261.24. Analyte concentrations shown with shading represent an exceedance of the regulatory level.

(2) Sulfide data collected 12/23/2005

Abbreviations: mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

**Table 2-4**  
**Leachate Analytical Summary**  
**Lena Road Landfill**  
**First Half 2006**

| Analyte                            | Location:          |          | Lift Station #1 | Lift Station #2 | Lift Station #3 |
|------------------------------------|--------------------|----------|-----------------|-----------------|-----------------|
|                                    | Sample Identifier: |          | Phase I         | Phase II        |                 |
|                                    | Date of Test:      |          | 02/27/06        | 02/27/06        | 02/27/06        |
|                                    | Standard(1)        | Units    |                 |                 |                 |
| <b>Field Measurements:</b>         |                    |          |                 |                 |                 |
| pH                                 |                    | STD      | 6.5             | 6.4             | 6.3             |
| Conductivity                       |                    | umhos/cm | 1520            | 1459            | 1098            |
| Dissolved Oxygen (DO)              |                    | mg/l     | 0.9             | 0.6             | 1.3             |
| <b>Inorganics</b>                  |                    |          |                 |                 |                 |
| Antimony                           |                    | mg/l     | 0.004           | 0.003           | 0.003           |
| Arsenic                            | 5.0                | mg/l     | 0.011           | 0.014           | 0.012           |
| Barium                             | 100                | mg/l     | 0.109           | 0.031           | 0.028           |
| Beryllium                          |                    | mg/l     | ≤0.0002         | ≤0.0002         | ≤0.0002         |
| Bicarbonate alkalinity             |                    | mg/l     | 1650            | 551             | 484             |
| Cadmium                            | 1.0                | mg/l     | ≤0.0005         | ≤0.0005         | ≤0.0005         |
| Chloride                           |                    | mg/l     | 604             | 65.8            | 37.4            |
| Chromium                           |                    | mg/l     | 0.007           | 0.002           | 0.002           |
| Cobalt                             |                    | mg/l     | 0.014           | 0.002           | 0.002           |
| Copper                             |                    | mg/l     | 0.008           | 0.005           | 0.007           |
| Cyanide                            |                    | mg/l     | <0.0005         | <0.0005         | <0.0005         |
| Iron                               |                    | mg/l     | 15              | 4.97            | 5.03            |
| Lead                               | 5,000              | mg/l     | ≤0.005          | ≤0.005          | ≤0.005          |
| Mercury                            | 200                | mg/l     | ≤0.100          | ≤0.100          | ≤0.100          |
| Nickel                             |                    | mg/l     | 0.015           | 0.007           | 0.007           |
| Nitrate                            |                    | mg/l     | ≤0.006          | 0.284           | 0.192           |
| Selenium                           | 1.0                | mg/l     | 0.005           | 0.002           | 0.003           |
| Silver                             | 5.0                | mg/l     | ≤0.002          | ≤0.002          | ≤0.002          |
| Sodium                             |                    | mg/l     | 356             | 48.2            | 33.1            |
| Total Ammonia - N                  |                    | mg/l     | 210             | 37.9            | 29              |
| Thallium                           |                    | mg/l     | ≤0.0004         | 0.001           | 0.001           |
| Tin as SN                          |                    | mg/l     | <0.1            | <0.1            | <0.1            |
| Total Dissolved Solids (TDS)       |                    | mg/l     | 2330            | 693             | 5995            |
| Total Sulfide                      |                    | mg/l     | 3               | 3.5             | 0.56            |
| Vanadium                           |                    | mg/l     | 0.028           | 0.004           | 0.003           |
| Zinc                               |                    | mg/l     | 0.025           | 0.02            | 0.038           |
| <b>Pesticides &amp; Herbicides</b> |                    |          |                 |                 |                 |
| 2,4-D                              | 10,000             | ug/l     | <0.36           | <0.36           | <0.36           |
| 2,4,5-T                            |                    | ug/l     | <0.046          | <0.046          | <0.046          |
| 3 & 4 methylphenol                 |                    | ug/l     | <0.72           | 3.7             | <0.72           |
| A-BHC                              |                    | ug/l     | <0.0025         | <0.0026         | <0.0024         |
| Aldrin                             |                    | ug/l     | <0.0028         | <0.0029         | <0.0026         |
| B-BHC                              |                    | ug/l     | <0.0040         | <0.0041         | <0.0038         |
| Chlordane                          | 30                 | ug/l     | <0.0038         | <0.0039         | <0.0036         |
| D-BHC                              |                    | ug/l     | <0.003          | <0.0031         | <0.0028         |
| Dieldrin                           |                    | ug/l     | <0.0018         | <0.0019         | <0.0017         |
| Dinoseb                            |                    | ug/l     | <0.42           | <0.42           | <0.42           |
| Endosulfan Sulfate                 |                    | ug/l     | <0.0019         | <0.0021         | <0.0018         |
| Endosulfan-I                       |                    | ug/l     | <0.0017         | <0.008          | <0.0016         |
| Endosulfan-II                      |                    | ug/l     | <0.0018         | <0.0019         | <0.0017         |
| Endrin                             | 20                 | ug/l     | <0.002          | <0.0021         | <0.0019         |
| Endrin Aldehyde                    |                    | ug/l     | <0.0025         | <0.0026         | <0.0024         |
| G-BHC(Lindane)                     | 400                | ug/l     | <0.002          | <0.0021         | <0.0019         |
| Heptachlor                         | 8                  | ug/l     | <0.002          | <0.0021         | <0.0019         |
| Heptachlor Epoxide                 |                    | ug/l     | <0.002          | <0.0021         | <0.0019         |
| Methoxychlor                       | 10,000             | ug/l     | <0.0031         | <0.0032         | <0.0029         |

| Analyte                            | Location:          |       | Lift Station #1 | Lift Station #2 | Lift Station #3 |
|------------------------------------|--------------------|-------|-----------------|-----------------|-----------------|
|                                    | Sample Identifier: |       | Phase I         | Phase II        |                 |
|                                    | Date of Test:      |       | 02/27/06        | 02/27/06        | 02/27/06        |
|                                    | Standard(I)        | Units |                 |                 |                 |
| PCB-1016                           |                    | ug/l  | <0.32           | <0.33           | <0.30           |
| PCB-1221                           |                    | ug/l  | <0.46           | <0.47           | <0.43           |
| PCB-1232                           |                    | ug/l  | <0.19           | <0.20           | <0.18           |
| PCB-1242                           |                    | ug/l  | <0.34           | <0.35           | <0.32           |
| PCB-1248                           |                    | ug/l  | <0.12           | <0.12           | <0.11           |
| PCB-1254                           |                    | ug/l  | <0.079          | <0.80           | <0.074          |
| PCB-1260                           |                    | ug/l  | <0.064          | <0.065          | <0.059          |
| PP-DDD                             |                    | ug/l  | <0.0016         | <0.0016         | <0.0015         |
| PP-DDE                             |                    | ug/l  | <0.0021         | <0.0022         | <0.0020         |
| PP-DDT                             |                    | ug/l  | <0.0026         | <0.0027         | <0.0025         |
| Silvex                             | 1,000              | ug/l  | <0.036          | <0.036          | <0.036          |
| Toxaphene                          | 500                | ug/l  | <0.31           | <0.32           | <0.29           |
| <b>Organics, Acid Extractables</b> |                    |       |                 |                 |                 |
| 2,4,6-Trichlorophenol              | 2,000              | ug/l  | <1.3            | <1.3            | <1.3            |
| 2,3,4,6-Tetrachlorophenol          |                    | ug/l  | <3.6            | <3.6            | <3.6            |
| 2,4,5-Trichlorophenol              | 400,000            | ug/l  | <1.6            | <1.6            | <1.6            |
| 2,4-Dichlorophenol                 |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| 2,4-Dimethylphenol                 |                    | ug/l  | <2.5            | <2.5            | <2.5            |
| 2,4-Dinitrophenol                  |                    | ug/l  | <1.3            | <1.3            | <1.3            |
| 2,6-Dichlorophenol                 |                    | ug/l  | <0.68           | <0.68           | <0.68           |
| 2-Chlorophenol                     |                    | ug/l  | <0.78           | <0.78           | <0.78           |
| 2-Methylphenol                     |                    | ug/l  | <0.94           | <0.94           | <0.94           |
| 2-Nitrophenol                      |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| 4,6-Dinitro-2-methylphenol         |                    | ug/l  | <1.3            | <1.3            | <1.3            |
| 4-Chloro-3-methylphenol            |                    | ug/l  | <1.6            | <1.6            | <1.6            |
| 4-Nitrophenol                      |                    | ug/l  | <2.4            | <2.4            | <2.4            |
| Pentachlorophenol                  | 100,000            | ug/l  | <2.1            | <2.1            | <2.1            |
| Phenol                             |                    | ug/l  | <0.66           | <0.66           | <0.66           |
| <b>Base Neutrals</b>               |                    |       |                 |                 |                 |
| 1,2,4,5-Tetrachlorobenzene         |                    | ug/l  | <0.85           | <0.85           | <0.85           |
| 1,2,4-Trichlorobenzene             |                    | ug/l  | <1.4            | <1.4            | <1.4            |
| 1,3,5-Trinitrobenzene              |                    | ug/l  | <0.55           | <0.55           | <0.55           |
| 1,3-Dinitrobenzene                 |                    | ug/l  | <1.6            | <1.6            | <1.6            |
| 1,4-Naphthoquinone                 |                    | ug/l  | <0.32           | <0.32           | <0.32           |
| 1-Naphthylamine                    |                    | ug/l  | <0.58           | <0.58           | <0.58           |
| 2,4-Dinitrotoluene                 | 13,000             | ug/l  | <1.1            | <1.1            | <1.1            |
| 2,6-Dinitrotoluene                 |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| 2-Acetylaminofluorene              |                    | ug/l  | <0.94           | <0.94           | <0.94           |
| 2-Chloronaphthalene                |                    | ug/l  | <0.78           | <0.78           | <0.78           |
| 2-Methylnaphthalene                |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| 2-Naphthylamine                    |                    | ug/l  | <0.59           | <0.59           | <0.59           |
| 2-Nitroaniline                     |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| 3,3-Dichlorobenzidine              |                    | ug/l  | <0.51           | <0.51           | <0.51           |
| 3,3-Dimethylbenzidine              |                    | ug/l  | <2.8            | <2.8            | <2.8            |
| 3-Methylcholanthrene               |                    | ug/l  | <0.58           | <0.58           | <0.58           |
| 3-Nitroaniline                     |                    | ug/l  | <1.9            | <1.9            | <1.9            |
| 4-Aminobiphenyl                    |                    | ug/l  | <0.55           | <0.55           | <0.55           |
| 4-Bromophenyl-phenylether          |                    | ug/l  | <0.77           | <0.77           | <0.77           |
| 4-Chloroaniline                    |                    | ug/l  | <0.57           | <0.57           | <0.57           |
| 4-Chlorophenylphenylether          |                    | ug/l  | <0.60           | <0.60           | <0.60           |
| 4-Nitronaline                      |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| 5-Nitro-o-toluidine                |                    | ug/l  | <0.70           | <0.70           | <0.70           |
| 7,12-Dimethylbenz(a)anthracene     |                    | ug/l  | <0.32           | <0.32           | <0.32           |
| Acenaphthene                       |                    | ug/l  | <0.94           | <0.94           | <0.94           |
| Acenaphthylene                     |                    | ug/l  | <0.64           | <0.64           | <0.64           |

| Analyte                          | Location:          |       | Lift Station #1 | Lift Station #2 | Lift Station #3 |
|----------------------------------|--------------------|-------|-----------------|-----------------|-----------------|
|                                  | Sample Identifier: |       | Phase I         | Phase II        |                 |
|                                  | Date of Test:      |       | 02/27/06        | 02/27/06        | 02/27/06        |
|                                  | Standard(l)        | Units |                 |                 |                 |
| Acetophenone                     |                    | ug/l  | <0.76           | <0.76           | <0.76           |
| Anthracene                       |                    | ug/l  | <0.58           | <0.58           | <0.58           |
| Benzo(a)anthracene               |                    | ug/l  | <0.94           | <0.94           | <0.94           |
| Benzo(a)pyrene                   |                    | ug/l  | <0.53           | <0.53           | <0.53           |
| Benzo(b)flouranthene             |                    | ug/l  | <1.9            | <1.9            | <1.9            |
| Benzo(g,h,i)perylene             |                    | ug/l  | <0.59           | <0.59           | <0.59           |
| Benzo(k)flouranthene             |                    | ug/l  | <0.51           | <0.51           | <0.51           |
| Benzyl alcohol                   |                    | ug/l  | <0.84           | <0.84           | <0.84           |
| Bis(2-chloroethoxy)methane       |                    | ug/l  | <0.75           | <0.75           | <0.75           |
| Bis(2-chloroethyl)ether          |                    | ug/l  | <0.92           | <0.92           | <0.92           |
| Bis(2-chloro-1-methylethyl)ether |                    | ug/l  | <0.75           | <0.75           | <0.75           |
| Bis(2-ethylhexyl)phthalate       |                    | ug/l  | <1.8            | <1.8            | <1.8            |
| Butylbenzylphthalate             |                    | ug/l  | <1.4            | <1.4            | <1.4            |
| Chlorobenzilate                  |                    | ug/l  | <0.019          | <0.02           | <0.018          |
| Chrysene                         |                    | ug/l  | <0.29           | <0.29           | <0.29           |
| Diallate                         |                    | ug/l  | <0.43           | <0.43           | <0.43           |
| Dibenz(a,h)anthracene            |                    | ug/l  | <0.54           | <0.54           | <0.54           |
| Dibenzofuran                     |                    | ug/l  | <1.1            | <1.1            | <1.1            |
| Diethylphthalate                 |                    | ug/l  | <1.3            | <1.3            | <1.3            |
| Dimethoate                       |                    | ug/l  | <0.32           | <0.27           | <0.23           |
| Dimethylphthalate                |                    | ug/l  | <0.94           | <0.94           | <0.94           |
| Di-N-butylphthalate              |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Di-N-octylphthalate              |                    | ug/l  | <2.0            | <2.0            | <2.0            |
| Diphenylamine                    |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| Disulfoton                       |                    | ug/l  | <0.42           | <0.42           | <0.42           |
| Ethylmethanesulfonate            |                    | ug/l  | <0.87           | <0.87           | <0.87           |
| Famfur                           |                    | ug/l  | <0.17           | <0.17           | <0.17           |
| Flouranthene                     |                    | ug/l  | <0.28           | <0.28           | <0.28           |
| Flourene                         |                    | ug/l  | <0.58           | <0.58           | <0.58           |
| Hexachlorobenzene                | 130                | ug/l  | <0.57           | <0.57           | <0.57           |
| Hexachlorobutadiene              | 500                | ug/l  | <1.0            | <1.0            | <1.0            |
| Hexachlorocyclopentadiene        |                    | ug/l  | <0.46           | <0.46           | <0.46           |
| Hexachloroethane                 | 3,000              | ug/l  | <1.3            | <1.3            | <1.3            |
| Hexylchloropropene               |                    | ug/l  | <0.59           | <0.59           | <0.59           |
| Indeno(1,2,3-cd)pyrene           |                    | ug/l  | <0.81           | <0.81           | <0.81           |
| Isodrin                          |                    | ug/l  | <0.0043         | <0.0044         | <0.0041         |
| Isophorone                       |                    | ug/l  | <0.77           | <0.77           | <0.77           |
| Isosafrole                       |                    | ug/l  | <0.85           | <0.85           | <0.85           |
| Kepone                           |                    | ug/l  | <1.4            | <1.4            | <1.4            |
| Methapyrilene                    |                    | ug/l  | <0.94           | <0.94           | <0.94           |
| Methyl parathion                 |                    | ug/l  | <0.32           | <0.32           | <0.32           |
| Methylmethanesulfonate           |                    | ug/l  | <0.58           | <0.58           | <0.58           |
| Naphthalene                      |                    | ug/l  | <0.94           | <0.94           | <0.94           |
| Nitrobenzene                     | 2,000              | ug/l  | <0.75           | <0.75           | <0.75           |
| N-Nitrosodiethylamine            |                    | ug/l  | <0.94           | <0.94           | <0.94           |
| N-Nitrosodimethylamine           |                    | ug/l  | <1.3            | <1.3            | <1.3            |
| N-Nitrosodi-n-butylamine         |                    | ug/l  | <0.62           | <0.62           | <0.62           |
| N-Nitroso-di-n-propylamine       |                    | ug/l  | <1.5            | <1.5            | <1.5            |
| N-Nitrosodiphenylamine           |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| N-Nitrosoethylmethylamine        |                    | ug/l  | <1.1            | <1.1            | <1.1            |
| N-Nitrosopiperidine              |                    | ug/l  | <0.94           | <0.94           | <0.94           |
| N-Nitrosopyrrolidine             |                    | ug/l  | <0.66           | <0.66           | <0.66           |
| 0,0,0-Triethylphosphorothioate   |                    | ug/l  | <0.75           | <0.75           | <0.75           |
| Ortho-toluidine                  |                    | ug/l  | <0.60           | <0.60           | <0.60           |
| Para-Phenylenediamine            |                    | ug/l  | <470            | <470            | <470            |
| Parathion                        |                    | ug/l  | <0.22           | <0.22           | <0.22           |

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
MAY 17 2007  
SOUTHWEST DISTRICT  
TAMPA

| Analyte                         | Location:          |       | Lift Station #1 | Lift Station #2 | Lift Station #3 |
|---------------------------------|--------------------|-------|-----------------|-----------------|-----------------|
|                                 | Sample Identifier: |       | Phase I         | Phase II        |                 |
|                                 | Date of Test:      |       | 02/27/06        | 02/27/06        | 02/27/06        |
|                                 | Standard(1)        | Units |                 |                 |                 |
| P-Dimethylaminoazobenzene       |                    | ug/l  | <0.37           | <0.37           | <0.37           |
| Pentachlorobenzene              |                    | ug/l  | <0.94           | <0.94           | <0.94           |
| Pentachloronitrobenzene         |                    | ug/l  | <0.51           | <0.51           | <0.51           |
| Phenacetin                      |                    | ug/l  | <0.50           | <0.50           | <0.50           |
| Phenanthrene                    |                    | ug/l  | <0.47           | <0.47           | <0.47           |
| Phorate                         |                    | ug/l  | <0.28           | <0.28           | <0.28           |
| Pronamide                       |                    | ug/l  | <0.33           | <0.33           | <0.33           |
| Pyrene                          |                    | ug/l  | <0.34           | <0.34           | <0.34           |
| Safrole                         |                    | ug/l  | <1.0            | <1.0            | <1.0            |
| Thionazin                       |                    | ug/l  | <0.11           | <0.11           | <0.11           |
| <b><i>Volatile Organics</i></b> |                    |       |                 |                 |                 |
| 1,1,1,2-Tetrachloroethane       |                    | ug/l  | <0.63           | <0.63           | <0.63           |
| 1,1,1-Trichloroethane           |                    | ug/l  | <0.46           | <0.46           | <0.46           |
| 1,1,2,2-Tetrachloroethane       |                    | ug/l  | <0.14           | <0.14           | <0.14           |
| 1,1,2-Trichloroethane           |                    | ug/l  | <0.47           | <0.47           | <0.47           |
| 1,1-Dichloroethane              |                    | ug/l  | <0.52           | <0.52           | <0.52           |
| 1,1-Dichloroethene              | 700                | ug/l  | <0.45           | <0.45           | <0.45           |
| 1,1-Dichloropropene             |                    | ug/l  | <0.31           | <0.31           | <0.31           |
| 1,2,3-Trichloropropane          |                    | ug/l  | <0.15           | <0.15           | <0.15           |
| 1,2-Dichlorobenzene             |                    | ug/l  | <0.44           | <0.44           | <0.44           |
| 1,2-Dichloroethane              | 500                | ug/l  | <0.57           | <0.57           | <0.57           |
| 1,2-Dichloropropane             |                    | ug/l  | <0.52           | <0.52           | <0.52           |
| 1,3-Dichlorobenzene             |                    | ug/l  | <0.64           | <0.64           | <0.64           |
| 1,3-Dichloropropane             |                    | ug/l  | <0.39           | <0.39           | <0.39           |
| 1,4-Dichlorobenzene             | 7,500              | ug/l  | <1.8            | <1.7            | <1.2            |
| 2,2-Dichloropropane             |                    | ug/l  | <0.36           | <0.36           | <0.36           |
| 2-Butanone                      |                    | ug/l  | <8.4            | <8.4            | <8.4            |
| 2-Hexanone                      |                    | ug/l  | <4.4            | <4.4            | <4.4            |
| 4-Methyl-2-pentanone            |                    | ug/l  | <3.8            | <3.8            | <3.8            |
| Acetone                         |                    | ug/l  | <9.9            | <9.9            | <9.9            |
| Acetonitrile                    |                    | ug/l  | <75             | <75             | <75             |
| Acrolein                        |                    | ug/l  | <3.8            | <3.8            | <3.8            |
| Acrylonitrile                   |                    | ug/l  | <1.2            | <1.2            | <1.2            |
| Allyl chloride                  |                    | ug/l  | <1.1            | <1.1            | <1.1            |
| Benzene                         | 500                | ug/l  | <0.90           | <0.87           | <0.82           |
| Bromochloromethane              |                    | ug/l  | <0.58           | <0.58           | <0.58           |
| Bromodichloromethane            |                    | ug/l  | <0.35           | <0.35           | <0.35           |
| Bromomethane                    |                    | ug/l  | <0.66           | <0.66           | <0.66           |
| Carbon disulfide                |                    | ug/l  | <0.85           | <0.85           | <0.85           |
| Carbon tetrachloride            | 500                | ug/l  | <0.42           | <0.42           | <0.42           |
| Chlorobenzene                   | 100,000            | ug/l  | <5.0            | <4.7            | <4.8            |
| Chloroethane                    |                    | ug/l  | <0.80           | <0.80           | <0.80           |
| Chloromethane                   |                    | ug/l  | <0.64           | <0.64           | <0.64           |
| Chloroprene                     |                    | ug/l  | <0.89           | <0.89           | <0.89           |
| cis-1,2-Dichloroethene          |                    | ug/l  | <0.65           | <0.65           | <0.65           |
| cis-1,3-Dichloropropene         |                    | ug/l  | <0.14           | <0.14           | <0.14           |
| Dibromochloromethane            |                    | ug/l  | <0.34           | <0.34           | <0.34           |
| Dibromochloropropane            |                    | ug/l  | <0.74           | <0.74           | <0.74           |
| Dibromomethane                  |                    | ug/l  | <0.41           | <0.41           | <0.41           |
| Dichlorodifluoromethane         |                    | ug/l  | <0.40           | <0.48           | <0.48           |
| Dichloromethane                 |                    | ug/l  | <4.0            | <4.0            | <4.0            |
| Ethyl methacrylate              |                    | ug/l  | <0.53           | <0.53           | <0.53           |
| Ethylbenzene                    |                    | ug/l  | <0.44           | <0.44           | <0.44           |
| Ethylene dibromide              |                    | ug/l  | <0.50           | <0.50           | <0.50           |
| Iodomethane                     |                    | ug/l  | <0.67           | <0.67           | <0.67           |
| Isobutyl Alcohol                |                    | ug/l  | <31             | <31             | <31             |
| Methacrylonitrile               |                    | ug/l  | <1.8            | <1.8            | <1.8            |
| Methyl methacrylate             |                    | ug/l  | <0.66           | <0.66           | <0.66           |
| Propionitrile                   |                    | ug/l  | <7.2            | <7.2            | <7.2            |
| Styrene                         |                    | ug/l  | <0.98           | <0.98           | <0.98           |
| t-1,4-Dichloro-2-butene         |                    | ug/l  | <2.5            | <2.5            | <2.5            |
| Tetrachloroethene               | 700                | ug/l  | <0.34           | <0.34           | <0.34           |
| Toluene                         |                    | ug/l  | <0.51           | <0.53           | <0.53           |
| Total Xylenes                   |                    | ug/l  | <0.30           | <0.30           | <0.30           |

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| Analyte                   | Location:          |       | Lift Station #1 | Lift Station #2 | Lift Station #3 |
|---------------------------|--------------------|-------|-----------------|-----------------|-----------------|
|                           | Sample Identifier: |       | Phase I         | Phase II        |                 |
|                           | Date of Test:      |       | 02/27/06        | 02/27/06        | 02/27/06        |
|                           | Standard(1)        | Units |                 |                 |                 |
| trans-1,2-Dichloroethene  |                    | ug/l  | <0.44           | <0.44           | <0.44           |
| trans-1,3-Dichloropropene |                    | ug/l  | <0.14           | <0.14           | <0.14           |
| Tribromomethane           |                    | ug/l  | <0.58           | <0.58           | <0.58           |
| Trichloroethene           | 500                | ug/l  | <0.28           | <0.28           | <0.28           |
| Trichlorofluoromethane    |                    | ug/l  | <0.98           | <0.98           | <0.98           |
| Trichloromethane          |                    | ug/l  | <0.90           | <0.90           | <0.90           |
| Vinyl acetate             |                    | ug/l  | <1.5            | <1.5            | <1.5            |
| Vinyl chloride            | 200                | ug/l  | <2.1            | <0.50           | <2.8            |

Notes: (1) - Regulatory standard listed in 40 CFR Part 261.24. Analyte concentrations shown with shading represent an exceedance of the regulatory level.

Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

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| Analyte                      |                         |       | Surficial Wells |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | Artesian Wells |           |           |           |           |           |           |           |
|------------------------------|-------------------------|-------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                              | Well:                   |       | CW-4            | CW-5A     | GC-1A     | GC-2      | GC-3      | GC-4A     | GC-5      | GC-6      | LRH-1     | LRH-2     | LRH-3     | LRH-4     | LRH-5     | MW-1      | MW-2      | MW-3      | MW-5      | MW-6      | SMR-1     | SA-2           | SA-3      | SA-4      | SA-5      | SA-6      | SA-7      | SA-8      | SMR-2     |
|                              | Sample Identifier:      |       | CW-4            | CW-5A     | GC-1A     | GC-2      | GC-3      | GC-4A     | GC-5      | GC-6      | LRH-1     | LRH-2     | LRH-3     | LRH-4     | LRH-5     | MW-1      | MW-2      | MW-3      | MW-5      | MW-6      | SMR-1     | SA-2           | SA-3      | SA-4      | SA-5      | SA-6      | SA-7      | SA-8      | SMR-2     |
|                              | Date of Test:           |       | 3/17/2004       | 3/31/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004      | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 | 3/17/2004 |
|                              | Standard <sup>(3)</sup> | Units |                 |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |                |           |           |           |           |           |           |           |
| Antimony                     | 0.006                   | mg/l  | 0.002           | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002         | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    |           |
| Arsenic                      | 0.01                    | mg/l  | 0.023           | <0.007    | 0.015     | 0.08      | 0.012     | 0.012     | 0.008     | 0.01      | 0.012     | 0.007     | <0.007    | <0.007    | 0.011     | <0.007    | 0.037     | <0.007    | <0.007    | 0.01      | 0.007     | <0.007         | <0.007    | 0.007     | <0.007    | 0.008     | <0.007    | <0.007    | <0.007    |
| Barium                       | 2                       | mg/l  | 0.219           | 0.024     | 0.015     | 0.006     | 0.014     | 0.022     | 0.035     | 0.03      | 0.009     | 0.006     | 0.052     | 0.012     | 0.008     | 0.024     | 0.039     | 0.021     | 0.049     | 0.008     | 0.008     | 0.006          | 0.007     | 0.014     | 0.015     | 0.021     | 0.015     | 0.027     | 0.014     |
| Beryllium                    | 0.004                   | mg/l  | <0.0002         | 0.0002    | <0.002    | <0.0002   | <0.0002   | <0.0002   | <0.0002   | 0.002     | <0.0002   | <0.0002   | 0.001     | 0.0002    | <0.0002   | 0.002     | 0.0003    | <0.0002   | <0.0002   | 0.0003    | <0.0002   | <0.0002        | <0.0002   | <0.0002   | <0.0002   | <0.0002   | <0.0002   | <0.0002   | <0.0002   |
| Cadmium                      | 0.005                   | mg/l  | <0.0005         | <0.0005   | <0.0005   | 0.001     | <0.0005   | <0.0005   | <0.0005   | <0.0005   | 0.001     | <0.0005   | <0.0005   | <0.0005   | <0.0005   | <0.0005   | <0.0005   | <0.0005   | <0.0005   | <0.0005   | <0.0005   | <0.0005        | <0.0005   | <0.0005   | <0.0005   | <0.0005   | <0.0005   | <0.0005   | <0.0005   |
| Chloride                     | 250                     | mg/l  | 222             | 101       | 6.08      | 16.1      | 21.3      | 8.15      | 26.0      | 0.024     | 19.5      | 8.2       | 45.5      | 27.7      | 18.4      | 47.0      | 51.0      | 38.8      | 8.13      | 14.6      | 14.9      | 39.6           | 18.0      | 60.1      | 65.7      | 51.7      | 56.8      | 52.1      | 95.8      |
| Chromium                     | 0.1                     | mg/l  | 0.002           | 0.001     | <0.005    | 0.001     | 0.001     | 0.003     | 0.002     | 0.004     | 0.002     | 0.002     | <0.0005   | 0.001     | <0.003    | 0.004     | 0.005     | 0.004     | 0.003     | 0.008     | 0.005     | 0.004          | 0.002     | 0.002     | 0.002     | 0.002     | <0.0005   | 0.003     | 0.002     |
| Cobalt                       |                         | mg/l  | <0.001          | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | 0.001     | <0.001    | <0.001    | <0.001    | <0.001    | <0.001         | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    |
| Copper                       | 1*                      | mg/l  | <0.005          | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005         | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    |
| Iron                         | 0.3*                    | mg/l  | 10.3            | 3.16      | 12.3      | 16.5      | 6.07      | 0.73      | 8.35      | 0.529     | 27.1      | 3.33      | 2.06      | 8.25      | 4.49      | 3.99      | 4.32      | 0.622     | 2.44      | 8.09      | 5.73      | 0.078          | 0.444     | 0.119     | 0.094     | 0.021     | 0.015     | 0.017     | 0.021     |
| Lead                         | 0.015                   | mg/l  | <0.005          | <0.005    | <0.005    | <0.005    | <0.005    | 0.005     | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    | 0.007     | <0.005    | <0.005    | <0.005    | <0.005         | <0.005    | 0.006     | <0.005    | <0.005    | <0.005    | <0.005    | <0.005    |
| Mercury                      | 0.002                   | mg/l  | <0.1            | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      | 0.423     | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      | <0.1           | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      | <0.1      |
| Nickel                       | 0.1                     | mg/l  | 0.009           | 0.003     | <0.001    | 0.003     | 0.001     | 0.002     | 0.0017    | <0.001    | <0.001    | 0.003     | <0.001    | <0.001    | <0.001    | 0.0014    | 0.003     | 0.005     | <0.001    | 0.001     | <0.001    | 0.003          | 0.002     | <0.001    | 0.002     | 0.002     | 0.001     | 0.002     | 0.002     |
| Nitrate                      | 10                      | mg/l  | 0.019           | 0.025     | 0.019     | 0.023     | 0.023     | 0.023     | 0.022     | 222       | 0.021     | 0.022     | 0.023     | 0.027     | 0.026     | 0.025     | 0.058     | 0.025     | 0.025     | 0.043     | 0.021     | 0.02           | 0.023     | 0.025     | 0.031     | 0.024     | 0.024     | 0.023     | 0.025     |
| Selenium                     | 0.05                    | mg/l  | <0.01           | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.010    | 0.012     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01          | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     |
| Silver                       | 0.1*                    | mg/l  | <0.002          | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002         | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    | <0.002    |
| Sodium                       | 160                     | mg/l  | 83.5            | 53.7      | 17.4      | 13.3      | 12.1      | 5.42      | 19.7      | 3.15      | 14.6      | 3.93      | 22.8      | 17.7      | 13.1      | 19.0      | 46.0      | 45.0      | 6.34      | 8.68      | 13.9      | 28.4           | 25.7      | 61.2      | 50.1      | 42.0      | 37.0      | 28.1      | 56.0      |
| Thallium                     | 0.002                   | mg/l  | <0.0024         | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0005   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004        | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   | <0.0004   |
| Total Ammonia-N              |                         | mg/l  | 0.18            | 0.271     | 9.4       | 0.11      | 0.22      | 0.528     | 1.02      | 4.04      | 1.2       | <0.009    | 1.82      | 1.36      | 0.394     | 1.92      | 0.158     | 2.42      | 1.52      | 0.253     | 0.152     | 0.173          | 0.139     | 0.184     | 0.136     | 0.0128    | 0.129     | 0.307     | 0.178     |
| Total Dissolved Solids (TDS) | 500*                    | mg/l  | 1270            | 367       | 173       | 272       | 362       | 429       | 297       | 197       | 187       | 64.0      | 163       | 261       | 190       | 191       | 444       | 518       | 158       | 135       | 143       | 345            | 390       | 466       | 412       | 605       | 322       | 640       | 410       |
| Vanadium                     |                         | mg/l  | 0.003           | 0.006     | <0.005    | 0.002     | 0.004     | 0.005     | 0.004     | 0.01      | 0.007     | 0.005     | 0.004     | 0.002     | 0.006     | 0.012     | 0.037     | 0.006     | 0.016     | 0.04      | 0.016     | <0.005         | <0.0005   | 0.001     | <0.0005   | <0.0005   | <0.0005   | <0.0005   | <0.0005   |
| Zinc                         | 5*                      | mg/l  | <0.01           | <0.01     | 0.012     | <0.01     | <0.01     | <0.01     | <0.01     | <0.1      | <0.01     | <0.01     | 0.011     | 0.019     | <0.01     | 0.015     | <0.01     | 0.01      | <0.01     | <0.01     | <0.01     | <0.01          | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     | <0.01     |

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. Those marked by an \* are Secondary Drinking Water Standards (SDWSs). Analyte concentrations shown with shading represent an exceedance of its MCL or SDWS.  
(2) As measured from the top of well casing.  
(3) Standard for arsenic at that time was actually 0.05 mg/L.

Abbreviations: umhos/cm = microohms per centimeter; mg/l = milligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter.

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**Table 2-5 - Groundwater Analytical and Elevation Summary  
First Half 2004**

[illegible]

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| Analyte                      | Surficial Aquifer Wells |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         | Artesian Aquifer Wells |         |         |         |         |         |         |         |         |
|------------------------------|-------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|                              | Well:                   | CW-4   | CW-5A   | GC-1A   | GC-2    | GC-3    | GC-4    | GC-5    | GC-6    | LRII-1  | LRII-2  | LRII-3  | LRII-4  | LRII-5  | MW-1    | MW-2    | MW-3    | MW-5    | MW-6    | SMR-1   | SA-2                   | SA-3    | SA-4    | SA-5    | SA-6    | SA-7    | SA-8    | SMR-2   |         |
|                              | Sample Identifier:      | CW-4   | CW-5A   | GC-1A   | GC-2    | GC-3    | GC-4A   | GC-5    | GC-6    | LRII-1  | LRII-2  | LRII-3  | LRII-4  | LRII-5  | MW-1    | MW-2    | MW-3    | MW-5    | MW-6    | SMR-1   | SA-2                   | SA-3    | SA-4    | SA-5    | SA-6    | SA-7    | SA-8    | SMR-2   |         |
|                              | Date of Test:           | 8/9/04 | 8/9/04  | 8/18/04 | 8/18/04 | 8/18/04 | 8/11/04 | 8/10/04 | 8/10/04 | 8/18/04 | 8/18/04 | 8/12/04 | 8/12/04 | 8/10/04 | 8/9/04  | 8/10/04 | 8/9/04  | 8/10/04 | 8/11/04 | 8/12/04 | 8/15/04                | 8/18/04 | 8/18/04 | 8/18/04 | 8/18/04 | 8/12/04 | 8/12/04 | 8/12/04 |         |
|                              | Standard <sup>(1)</sup> | Units  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |                        |         |         |         |         |         |         |         |         |
| um                           | 0.005                   | mg/l   | <0.0005 | <0.0005 | 0.001   | 0.001   | 0.001   | <0.0005 | <0.0005 | <0.0005 | 0.002   | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005                | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |         |
| de                           | 250                     | mg/l   | 204     | 90.3    | 56.2    | 17.4    | 21.2    | 5.35    | 48.3    | 5.21    | 6.52    | 10.6    | 17.2    | 11.4    | 6.06    | 42.3    | 53.3    | 16.3    | 8.27    | 2.32    | 10.1                   | 21.1    | 21.7    | 62.8    | 67.4    | 54.1    | 60      | 53.6    | 97.7    |
| Chromium                     | 0.1                     | mg/l   | 0.001   | 0.001   | <0.0005 | 0.001   | 0.002   | 0.003   | 0.002   | 0.004   | 0.002   | 0.002   | 0.001   | 0.001   | 0.004   | 0.004   | 0.004   | 0.004   | 0.002   | 0.007   | 0.006                  | 0.001   | 0.001   | <0.0005 | 0.001   | 0.001   | 0.001   | 0.001   | 0.001   |
| Cobalt                       |                         | mg/l   | 0.002   | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001                 | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  |
| Copper                       | 1*                      | mg/l   | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | 0.011   | <0.005  | <0.005  | <0.005  | <0.005  | <0.005                 | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  |
| Iron                         | 0.3*                    | mg/l   | 8.46    | 2.79    | 20.7    | 11      | 9.34    | 1.25    | 3.69    | 0.429   | 25.3    | 4.12    | 1.07    | 8.67    | 4.79    | 4.01    | 1.11    | 0.097   | 2.79    | 6.32    | 5.64                   | 0.664   | 0.652   | 0.135   | 0.057   | 0.022   | <0.01   | 0.014   | 0.027   |
| Lead                         | 0.015                   | mg/l   | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005                 | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  |
| Mercury <sup>(3)</sup>       | 0.002                   | mg/l   | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100                 | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  |
| Nickel                       | 0.1                     | mg/l   | 0.008   | 0.003   | <0.001  | 0.003   | 0.001   | 0.002   | 0.001   | <0.001  | 0.001   | 0.001   | <0.001  | <0.001  | <0.001  | 0.003   | 0.004   | <0.001  | <0.001  | <0.001  | 0.001                  | 0.001   | <0.001  | 0.001   | 0.001   | <0.001  | 0.001   | 0.001   | 0.001   |
| Nitrate                      | 10                      | mg/l   | 0.033   | 0.03    | 0.076   | 0.011   | 0.012   | 0.333   | 0.02    | 0.018   | 0.009   | 0.172   | 0.011   | 0.008   | 0.018   | 0.032   | 2.53    | 2.18    | 0.021   | 0.01    | 0.009                  | 0.008   | 0.009   | 0.008   | 0.056   | 0.013   | 0.021   | 0.01    | 0.012   |
| Selenium                     | 0.05                    | mg/l   | 0.0002  | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002                | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | 0.0006  | <0.0002 | <0.0002 |
| Silver                       | 0.1*                    | mg/l   | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002                 | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  | <0.002  |
| Sodium                       | 160                     | mg/l   | 77.9    | 56.8    | 23.3    | 12.6    | 16.3    | 2.18    | 29.5    | 2.86    | 12.7    | 4.47    | 9.18    | 13.7    | 12.8    | 16.3    | 35.8    | 39.3    | 7.14    | 3.36    | 14.8                   | 26.8    | 21.5    | 60      | 49.8    | 41      | 31.4    | 24.1    | 53.6    |
| Thallium                     | 0.002                   | mg/l   | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004                | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 |
| Total Ammonia-N              |                         | mg/l   | 0.137   | 0.211   | 7.95    | 0.119   | 0.166   | 0.213   | 2.17    | 0.588   | 0.009   | 0.043   | 1.07    | 2.77    | 0.411   | 1.05    | 0.121   | 0.729   | 1.63    | 0.26    | 0.172                  | 0.177   | 0.139   | 0.172   | 0.164   | 0.16    | 0.112   | 0.06    | 0.226   |
| Total Dissolved Solids (TDS) | 500*                    | mg/l   | 1100    | 384     | 247     | 290     | 384     | 436     | 388     | 200     | 247     | 70      | 119     | 311     | 182     | 166     | 450     | 631     | 158     | 116     | 148                    | 339     | 385     | 465     | 402     | 597     | 278     | 672     | 414     |
| Vanadium                     |                         | mg/l   | 0.002   | 0.009   | 0.001   | 0.003   | 0.006   | 0.003   | 0.006   | 0.021   | 0.007   | 0.009   | 0.003   | 0.002   | 0.007   | 0.013   | 0.035   | 0.011   | 0.014   | 0.042   | 0.016                  | <0.0005 | 0.001   | 0.001   | <0.0005 | <0.0005 | <0.0005 | 0.001   | <0.0005 |
| Zinc                         | 5*                      | mg/l   | 0.064   | 0.03    | 0.055   | 0.058   | 0.038   | 0.037   | 0.069   | 0.116   | 0.074   | 0.135   | 0.082   | 0.019   | 0.026   | 0.055   | 0.138   | 0.048   | 0.048   | 0.02    | 0.032                  | 0.039   | 0.067   | 0.044   | 0.061   | 0.043   | 0.12    | 0.02    | 0.049   |

<sup>(1)</sup> Maximum Contaminant Level (MCL), as established in Chapter 62-550.

<sup>(2)</sup> As measured from the top of well casing.

<sup>(3)</sup> Mercury exceedence due to MDL exceeding MCL.

43) Standard for arsenic at that time was actually 0.05 mg/L.

\* Secondary Drinking Water Standards (SDWSs).

Shaded data indicates an exceedence of either the MCL or SDWS

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| Analyte                      |                    |      | Surficial Wells |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           | Artesian Wells |           |           |           |           |           |           |           |           |
|------------------------------|--------------------|------|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                              | Well:              |      | CW-4            | CW-5A     | GC-1A     | GC-2      | GC-3      | GC-4A     | GC-5      | GC-6      | LRII-1    | LRII-2    | LRII-3    | LRII-4    | LRII-5    | MW-1      | MW-2      | MW-3      | MW-5      | MW-6      | SMR-1          | SA-2      | SA-3      | SA-4      | SA-5      | SA-6      | SA-7      | SA-8      | SMR-2     |
|                              | Sample Identifier: |      | CW-4            | CW-5A     | GC-1A     | GC-2      | GC-3      | GC-4A     | GC-5      | GC-6      | LRII-1    | LRII-2    | LRII-3    | LRII-4    | LRII-5    | MW-1      | MW-2      | MW-3      | MW-5      | MW-6      | SMR-1          | SA-2      | SA-3      | SA-4      | SA-5      | SA-6      | SA-7      | SA-8      | SMR-2     |
|                              | Date of Test:      |      | 2/14/2005       | 2/14/2005 | 2/22/2005 | 2/22/2005 | 2/22/2005 | 2/15/2005 | 2/15/2005 | 2/15/2005 | 2/17/2005 | 2/16/2005 | 2/16/2005 | 2/16/2005 | 2/15/2005 | 2/14/2005 | 2/14/2005 | 2/14/2005 | 2/14/2005 | 2/15/2005 | 2/16/2005      | 2/22/2005 | 2/22/2005 | 2/22/2005 | 2/17/2005 | 2/22/2005 | 2/17/2005 | 2/17/2005 | 2/17/2005 |
| Standard <sup>(1)</sup>      | Units              |      |                 |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |                |           |           |           |           |           |           |           |           |
| Inorganics                   |                    |      |                 |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |                |           |           |           |           |           |           |           |           |
| Antimony                     | 0.006              | mg/l | 0.002           | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL            | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | 0.002     | BDL       |
| Arsenic                      | 0.01               | mg/l | 0.021           | BDL       | 0.009     | 0.062     | 0.008     | 0.007     | BDL       | BDL       | 0.008     | BDL       | BDL       | BDL       | BDL       | BDL       | 0.016     | BDL       | BDL       | BDL       | BDL            | BDL       | 0.008     | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Barium                       | 2                  | mg/l | 0.167           | 0.018     | 0.01      | 0.008     | 0.011     | 0.024     | 0.028     | 0.021     | 0.007     | 0.003     | 0.024     | 0.007     | 0.005     | 0.016     | 0.049     | 0.008     | 0.039     | 0.004     | 0.005          | 0.005     | BDL       | 0.011     | 0.014     | 0.021     | 0.143     | 0.215     | 0.015     |
| Beryllium                    | 0.004              | mg/l | BDL             | 0.0002    | BDL       | BDL       | BDL       | 0.0002    | BDL       | BDL       | BDL       | BDL       | 0.0005    | 0.0003    | BDL       | 0.0003    | 0.0003    | BDL       | BDL       | 0.0003    | 0.0002         | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Calcium                      |                    | mg/l | NA              | NA        | NA        | NA        | NA        | NA        | NA        | NA        | 41.1      | NA        | NA        | NA        | NA        | NA        | NA        | NA        | NA        | NA        | NA             | NA        | NA        | NA        | 51.7      | NA        | BDL       | BDL       | 50        |
| Cadmium                      | 0.005              | mg/l | BDL             | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL            | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Chloride                     | 250                | mg/l | 54.5            | 95.7      | 34.2      | 23        | 29.7      | 26.8      | 26.6      | 4.66      | 13.7      | 14.4      | 13.1      | 27.3      | 15        | 40.6      | 58.4      | 15.9      | 6.12      | 3.55      | 19.7           | 32.9      | 23.5      | 66.2      | 64.6      | 54        | 62.1      | 54.7      | 48.6      |
| Chromium                     | 0.1                | mg/l | 0.001           | 0.001     | BDL       | BDL       | 0.001     | 0.008     | BDL       | 0.002     | 0.002     | BDL       | BDL       | BDL       | 0.002     | 0.003     | 0.004     | 0.004     | 0.0029    | 0.006     | 0.003          | 0.001     | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Cobalt                       |                    | mg/l | 0.002           | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | 0.001     | BDL       | BDL       | BDL       | BDL            | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Copper                       | 1*                 | mg/l | BDL             | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL            | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Iron                         | 0.3*               | mg/l | 6.56            | 2.73      | 18.7      | 15.1      | 9.6       | 0.384     | 4.13      | 3.33      | 23.5      | 7.29      | 1.33      | 6.54      | 3.5       | 3.67      | 2.4       | 0.469     | 1.41      | 6.51      | 5.55           | BDL       | 0.422     | 0.188     | 0.055     | 0.032     | 0.013     | 0.02      | 0.024     |
| Lead                         | 0.015              | mg/l | BDL             | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL            | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Magnesium                    |                    | mg/l | NA              | NA        | NA        | NA        | NA        | NA        | NA        | NA        | 15.5      | NA        | NA        | NA        | NA        | NA        | NA        | NA        | NA        | NA        | NA             | NA        | NA        | NA        | 21.8      | NA        | BDL       | BDL       | 17.5      |
| Mercury                      | 0.002              | mg/l | BDL             | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL            | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Nickel                       | 0.1                | mg/l | 0.009           | 0.002     | BDL       | 0.003     | BDL       | 0.02      | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | 0.001     | 0.002     | BDL       | BDL       | BDL            | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Nitrate                      | 10                 | mg/l | 0.04            | 0.036     | 0.036     | 0.034     | 0.017     | 0.027     | 0.016     | 0.014     | 0.024     | 0.022     | 0.019     | 0.021     | 0.02      | 0.069     | 0.063     | 0.068     | 0.142     | 0.02      | 0.024          | 0.015     | 0.035     | 0.042     | 0.023     | 0.034     | 0.027     | 0.028     | 0.039     |
| Selenium                     | 0.05               | mg/l | BDL             | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL            | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Silver                       | 0.1*               | mg/l | BDL             | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL            | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Sodium                       | 160                | mg/l | 71.1            | 57.9      | 21.5      | 15.2      | 17.6      | 11.2      | 31.9      | 5.7       | 14        | 4.69      | 8.78      | 12.9      | 14.2      | 15.3      | 42        | 35.1      | 4.53      | 7.01      | 17.2           | 28.7      | 23.8      | 61.7      | 51.4      | 44.1      | 33.6      | 24.5      | 58.1      |
| Thallium                     | 0.002              | mg/l | BDL             | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL            | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Total Ammonia-N              |                    | mg/l | 0.175           | 0.368     | 6.22      | 0.069     | 0.257     | 1.42      | 2.11      | 0.815     | 1.01      | BDL       | 1.02      | 1.59      | 0.475     | 1.18      | 0.209     | 0.762     | 0.713     | 0.195     | 0.156          | 0.18      | 0.208     | 0.175     | 0.204     | 0.181     | 0.298     | 0.403     | 0.266     |
| Total Dissolved Solids (TDS) | 500*               | mg/l | 1180            | 391       | 203       | 276       | 375       | 463       | 407       | 256       | 257       | 96        | 85        | 226       | 229       | 174       | 518       | 430       | 166       | 149       | 158            | 349       | 364       | 454       | 396       | 601       | 268       | 792       | 404       |
| Vanadium                     |                    | mg/l | 0.001           | 0.008     | 0.001     | 0.003     | 0.005     | 0.021     | 0.005     | 0.012     | 0.008     | 0.003     | 0.003     | 0.001     | 0.006     | 0.01      | 0.018     | 0.008     | 0.012     | 0.042     | 0.013          | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |
| Zinc                         | 5*                 | mg/l | 0.018           | 0.019     | BDL       | 0.013     | BDL       | BDL       | BDL       | 0.029     | BDL       | BDL       | 0.016     | 0.013     | BDL       | 0.023     | 0.016     | 0.013     | 0.011     | BDL       | 0.021          | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       | BDL       |

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. Those marked by an \* are Secondary Drinking Water Standards (SDWSs). Analyte concentrations shown with shading represent an exceedance of its MCL or SDWS.

Abbreviations: BDL = below detection limits.; umhos/cm = microohms per centimeter; mg/l = milligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; NA = Not analyzed..

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Table 2-8 - Groundwater Analytical Summary  
First Half 2006

| Analyte                      |                         |           | Surficial Aquifer Wells |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|------------------------------|-------------------------|-----------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                              | Well:                   |           | GW-1                    | GW-2      | GW-3      | GW-4      | GW-5      | GW-6      | GW-7      | GW-8      | GW-9      | GW-10     | GW-12     | GW-13     | GW-14     | GW-15     | GW-16     | GW-17     | BGW-1     |
|                              | Sample Identifier:      |           | GW-1                    | GW-2      | GW-3      | GW-4      | GW-5      | GW-6      | GW-7      | GW-8      | GW-9      | GW-10     | GW-12     | GW-13     | GW-14     | GW-15     | GW-16     | GW-17     | BGW-1     |
|                              | Date of Test:           |           | 2/27/2006               | 2/27/2006 | 2/27/2006 | 2/27/2006 | 2/27/2006 | 2/27/2006 | 2/27/2006 | 2/28/2006 | 2/28/2006 | 2/28/2006 | 2/28/2006 | 2/28/2006 | 2/28/2006 | 2/28/2006 | 2/27/2006 | 2/27/2006 | 2/27/2006 |
|                              | Standard <sup>(1)</sup> | Units     |                         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Field Measurements           |                         |           |                         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Temperature                  |                         | degrees C | 20.6                    | 21.8      | 21.3      | 20.6      | 21.8      | 21.9      | 22.4      | 20.6      | 21.1      | 20.6      | 22.5      | 22.8      | 20.3      | 19.7      | 22.5      | 21.8      | 23.3      |
| pH                           | 6.5-8.5*                | STD       | 6.5                     | 6.5       | 6.2       | 5.9       | 6.1       | 6.5       | 6.4       | 5.8       | 6.7       | 6.5       | 6         | 6.4       | 6.6       | 6.4       | 6.5       | 5.5       | 6.1       |
| Conductivity                 |                         | umhos/cm  | 709                     | 655       | 690       | 344       | 480       | 330       | 304       | 407       | 586       | 932       | 669       | 2022      | 2271      | 692       | 580       | 130       | 635       |
| Dissolved Oxygen (DO)        |                         | mg/l      | 0.3                     | 0.2       | 0.2       | 0.2       | 0.1       | 0.3       | 0.1       | 0.3       | 0.4       | 0.6       | 0.2       | 0.2       | 2         | 0.2       | 0.1       | 0.3       | 0.3       |
| Turbidity                    |                         | NTU       | 3.3                     | 50        | 4.1       | 5.4       | 2         | 2.4       | 5.8       | 16        | 0.9       | 11        | 4.4       | 4.6       | 0.7       | 1.2       | 14        | 13        | 8.7       |
| Inorganics                   |                         |           |                         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Antimony                     | 0.006                   | mg/l      | 0.002                   | 0.003     | 0.002     | ≤0.0015   | 0.0015    | ≤0.0015   | ≤0.0015   | ≤0.0015   | ≤0.0015   | 0.0015    | 0.003     | 0.008     | 0.006     | ≤0.0015   | ≤0.0015   | ≤0.0015   | 0.0015    |
| Arsenic                      | 0.01                    | mg/l      | 0.045                   | 0.025     | ≤0.007    | ≤0.007    | 0.018     | 0.01      | ≤0.007    | ≤0.007    | 0.021     | 0.01      | 0.012     | 0.007     | 0.016     | 0.011     | ≤0.007    | ≤0.007    | ≤0.007    |
| Barium                       | 2                       | mg/l      | 0.004                   | 0.007     | 0.004     | 0.005     | 0.014     | 0.004     | 0.008     | 0.018     | 0.016     | 0.052     | 0.057     | 0.033     | 0.053     | 0.04      | 0.019     | 0.005     | 0.013     |
| Beryllium                    | 0.004                   | mg/l      | ≤0.0002                 | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   | ≤0.0002   |
| Cadmium                      | 0.005                   | mg/l      | ≤0.0005                 | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   | ≤0.0005   |
| Chloride                     | 250*                    | mg/l      | 48.1                    | 23.3      | 40.2      | 11.2      | 24        | 10.8      | 10.9      | 31.1      | 22.5      | 18        | 6.49      | 32        | 429       | 89.4      | 79        | 5.79      | 83.1      |
| Chromium                     | 0.1                     | mg/l      | 0.001                   | 0.002     | 0.002     | 0.002     | 0.002     | ≤0.001    | 0.002     | 0.004     | ≤0.001    | ≤0.001    | 0.001     | 0.001     | 0.001     | 0.002     | 0.001     | 0.006     | ≤0.001    |
| Cobalt                       |                         | mg/l      | ≤0.001                  | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | 0.002     | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    |
| Copper                       | 1*                      | mg/l      | ≤0.005                  | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | 0.01      | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    |
| Iron                         | 0.3*                    | mg/l      | 7.41                    | 12.3      | 8.28      | 10        | 16.8      | 5.64      | 0.113     | 0.256     | 6.8       | 8.09      | 3.42      | 8.45      | 23.576    | 8         | 1.89      | 3.75      | 0.209     |
| Lead                         | 0.015                   | mg/l      | ≤0.005                  | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    | ≤0.005    |
| Mercury                      | 0.002                   | mg/l      | <0.0001                 | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   | <0.0001   |
| Nickel                       | 0.1                     | mg/l      | 0.001                   | ≤0.001    | ≤0.001    | ≤0.001    | 0.002     | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | ≤0.001    | 0.002     | ≤0.001    | 0.001     | ≤0.001    | 0.001     |
| Nitrate                      | 10                      | mg/l      | 0.006                   | ≤0.006    | ≤0.006    | ≤0.006    | ≤0.006    | ≤0.006    | ≤0.006    | ≤0.006    | ≤0.006    | ≤0.006    | ≤0.006    | ≤0.006    | ≤0.006    | 0.043     | ≤0.006    | ≤0.006    | ≤0.006    |
| Selenium                     | 0.05                    | mg/l      | 0.001                   | 0.003     | 0.002     | 0.001     | 0.001     | ≤0.0002   | 0.001     | 0.001     | 0.001     | 0.001     | 0.002     | 0.004     | 0.001     | 0.001     | 0.001     | 0.001     | 0.001     |
| Silver                       | 0.1*                    | mg/l      | ≤0.002                  | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    | ≤0.002    |
| Sodium                       | 160                     | mg/l      | 19.7                    | 13.9      | 32.2      | 6.43      | 21.6      | 15.3      | 10.8      | 17.6      | 16.1      | 17.2      | 5.57      | 27.7      | 141       | 57.8      | 62.9      | 5.37      | 66.4      |
| Thallium                     | 0.002                   | mg/l      | 0.001                   | 0.001     | ≤0.0004   | 0.0004    | ≤0.0004   | 0.001     | ≤0.0004   | 0.001     | ≤0.0004   | 0.001     | ≤0.0004   | ≤0.0004   | ≤0.0004   | ≤0.0004   | ≤0.0004   | ≤0.0004   | ≤0.0004   |
| Total Ammonia-N              |                         | mg/l      | 0.732                   | 0.843     | 0.591     | 0.592     | 1.08      | 0.454     | 0.715     | 1.05      | 0.856     | 2.06      | 1.24      | 5.32      | 0.487     | 0.98      | 0.784     | 1.65      | 0.997     |
| Total Dissolved Solids (TDS) | 500*                    | mg/l      | 430                     | 393       | 463       | 225       | 302       | 207       | 264       | 320       | 326       | 518       | 434       | 1390      | 1640      | 403       | 376       | 116       | 374       |
| Vanadium                     |                         | mg/l      | 0.005                   | 0.012     | 0.013     | 0.009     | 0.007     | 0.005     | 0.005     | 0.016     | 0.001     | 0.002     | 0.007     | 0.005     | 0.005     | 0.008     | 0.004     | 0.026     | 0.004     |
| Zinc                         | 5*                      | mg/l      | 0.01                    | 0.012     | ≤0.010    | ≤0.010    | ≤0.010    | ≤0.010    | 0.012     | ≤0.010    | ≤0.010    | 0.011     | 0.011     | 0.01      | ≤0.010    | 0.016     | ≤0.010    | 0.013     | 0.01      |
| Organics                     |                         |           |                         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Acetone                      |                         | ug/l      | <9.9                    | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      | <9.9      |
| Acrylonitrile                |                         | ug/l      | <1.2                    | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      | <1.2      |
| Benzene                      | 1                       | ug/l      | <0.27                   | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     | <0.27     |
| Bromochloromethane           |                         | ug/l      | <0.58                   | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     |
| Bromodichloromethane         |                         | ug/l      | <0.35                   | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     | <0.35     |
| Bromomethane                 |                         | ug/l      | <0.66                   | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     | <0.66     |
| 2-Butanone                   |                         | ug/l      | <8.4                    | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      | <8.4      |
| Carbon disulfide             |                         | ug/l      | <0.85                   | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     | <0.85     |
| Carbon tetrachloride         | 3                       | ug/l      | <0.42                   | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     | <0.42     |
| Chlorobenzene                |                         | ug/l      | <0.63                   | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | 1.8       | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     |
| Chloroethane                 |                         | ug/l      | <0.80                   | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     | <0.80     |
| Chloromethane                | 5                       | ug/l      | <0.64                   | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     | <0.64     |
| Dibromochloromethane         |                         | ug/l      | <0.34                   | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     |

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Table 2-8 - Groundwater Analytical Summary  
First Half 2006

| Analyte                   | Surficial Aquifer Wells |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
|---------------------------|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                           | Well:                   | GW-1      | GW-2      | GW-3      | GW-4      | GW-5      | GW-6      | GW-7      | GW-8      | GW-9      | GW-10     | GW-12     | GW-13     | GW-14     | GW-15     | GW-16     | GW-17     | BGW-1     |
|                           | Sample Identifier:      | GW-1      | GW-2      | GW-3      | GW-4      | GW-5      | GW-6      | GW-7      | GW-8      | GW-9      | GW-10     | GW-12     | GW-13     | GW-14     | GW-15     | GW-16     | GW-17     | BGW-1     |
|                           | Date of Test:           | 2/27/2006 | 2/27/2006 | 2/27/2006 | 2/27/2006 | 2/27/2006 | 2/27/2006 | 2/27/2006 | 2/28/2006 | 2/28/2006 | 2/28/2006 | 2/28/2006 | 2/28/2006 | 2/28/2006 | 2/28/2006 | 2/27/2006 | 2/27/2006 | 2/27/2006 |
|                           | Standard <sup>(1)</sup> | Units     |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| <i>Organics</i>           |                         |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| Dibromochloropropane      |                         | ug/l      | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     | <0.74     |
| Dibromomethane            |                         | ug/l      | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     | <0.41     |
| Dichloromethane           |                         | ug/l      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      | <4.0      |
| Ethylene dibromide        |                         | ug/l      | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     |
| 1,2-Dichlorobenzene       |                         | ug/l      | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     |
| 1,4-Dichlorobenzene       |                         | ug/l      | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     |
| 1,1-Dichloroethane        |                         | ug/l      | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     |
| 1,2-Dichloroethane        | 3                       | ug/l      | <0.50     | <0.57     | <0.57     | <0.57     | <0.57     | <0.57     | <0.57     | <0.57     | <0.57     | <0.57     | <0.57     | <0.57     | <0.57     | <0.57     | <0.57     | <0.57     |
| 1,1-Dichloroethene        | 7                       | ug/l      | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     |
| cis-1,2-Dichloroethene    |                         | ug/l      | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     | <0.65     |
| trans-1,2-Dichloroethene  | 100                     | ug/l      | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     |
| 1,2-Dichloropropane       | 5                       | ug/l      | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     | <0.52     |
| cis-1,3-Dichloropropene   |                         | ug/l      | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     |
| trans-1,3-Dichloropropene |                         | ug/l      | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     |
| t-1,4-Dichloro-2-butene   |                         | ug/l      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      | <2.5      |
| Ethylbenzene              | 700                     | ug/l      | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     |
| 2-Hexanone                |                         | ug/l      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      | <4.4      |
| Iodomethane               |                         | ug/l      | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     | <0.67     |
| 4-Methyl-2-pentanone      |                         | ug/l      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      | <3.8      |
| Styrene                   | 100                     | ug/l      | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     |
| 1,1,1,2-Tetrachloroethane |                         | ug/l      | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     | <0.63     |
| 1,1,2,2-Tetrachloroethane |                         | ug/l      | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     | <0.14     |
| Tetrachloroethene         | 3                       | ug/l      | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     | <0.34     |
| Toluene                   | 1000                    | ug/l      | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     | <0.51     |
| Tribromomethane           |                         | ug/l      | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     | <0.58     |
| 1,1,1-Trichloroethane     | 200                     | ug/l      | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     | <0.46     |
| 1,1,2-Trichloroethane     | 5                       | ug/l      | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     |
| Trichloroethene           | 3                       | ug/l      | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     | <0.28     |
| Trichloromethane          |                         | ug/l      | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     | <0.90     |
| Trichlorofluoromethane    |                         | ug/l      | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     | <0.98     |
| 1,2,3-Trichloropropane    |                         | ug/l      | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     | <0.15     |
| Vinyl acetate             |                         | ug/l      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      | <1.5      |
| Vinyl chloride            | 1                       | ug/l      | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     | <0.50     |
| Total xylenes             | 10000                   | ug/l      | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     | <0.30     |

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. Those marked by an \* are Secondary Drinking Water Standards (SDWSs). Analyte concentrations shown with shading represent an exceedance of its MCL or SDWS.  
Abbreviations: BDL = below detection limits.; umhos/cm = microohms per centimeter; mg/l = milligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; NA = Not analyzed..

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Table 2-9 - Lena Road Groundwater Analytical Summary  
Second Half 2006

|                                     | Well:                   |          | GW-1    | GW-2    | GW-3    | GW-4    | GW-5    | GW-6    | GW-7    | GW-8    | GW-9    | GW-10   | GW-11 <sup>(3)</sup> | GW-12   | GW-13   | GW-14   | GW-15   | GW-16   | GW-17   | BGW-1   |
|-------------------------------------|-------------------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------|---------|---------|---------|---------|---------|---------|---------|
|                                     | Sample Identifier:      |          | 21593   | 21594   | 21595   | 21596   | 21597   | 21598   | 21599   | 21600   | 21601   | 21602   | 21603                | 21604   | 21605   | 21606   | 21607   | 21608   | 21609   | 21610   |
|                                     | Date of Test:           |          | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/22/06 | 8/22/06              | 8/22/06 | 8/22/06 | 8/22/06 | 8/22/06 | 8/22/06 | 8/22/06 | 8/22/06 |
|                                     | Standard <sup>(1)</sup> | Units    |         |         |         |         |         |         |         |         |         |         |                      |         |         |         |         |         |         |         |
| <b>Field Measurements</b>           |                         |          |         |         |         |         |         |         |         |         |         |         |                      |         |         |         |         |         |         |         |
| Depth-to-Groundwater <sup>(2)</sup> |                         | ft       | 4.89    | 7.27    | 3.54    | 6.27    | 6.64    | 6.36    | 7.83    | 9.16    | 9.53    | 7.32    | 6.19                 | 9.62    | 10.94   | 4.73    | 6.46    | 8.33    | 6.89    | 7.54    |
| Temperature                         |                         | deg. C   | 25.4    | 27      | 26.2    | 26.8    | 27.1    | 27.1    | 27.7    | 27.7    | 29.2    | 27.7    | 26.3                 | 26.3    | 26.3    | 27.1    | 25.8    | 25.6    | 26.7    | 25.4    |
| pH                                  | 6.5-8.5                 | STD      | 6       | 6.2     | 7       | 6.9     | 7       | 7.3     | 7.2     | 7.3     | 7.7     | 6.7     | 5.9                  | 5.9     | 6.5     | 6.4     | 6.5     | 6.5     | 5.3     | 5.9     |
| Conductivity                        |                         | umhos/cm | 834     | 576     | 839     | 524     | 698     | 1,204   | 674     | 1,471   | 766     | 990     | 621                  | 938     | 1,796   | 3,817   | 923     | 685     | 147     | 870     |
| Dissolved Oxygen (DO)               |                         | mg/l     | 0.3     | 0.3     | 0.2     | 0.5     | 0.3     | 0.4     | 0.2     | 0.2     | 0.2     | 1       | 0.2                  | 0.2     | 0.2     | 0.6     | 0.2     | 0.1     | 0.1     | 0.2     |
| Turbidity                           |                         | NTU      | 7.7     | 19      | 3.9     | 12      | 9.3     | 1.2     | 12      | 5       | 2.1     | 4       | 3.2                  | 4.3     | 24      | 12      | 1       | 12      | 5.7     | 3.3     |
| <b>Inorganics</b>                   |                         |          |         |         |         |         |         |         |         |         |         |         |                      |         |         |         |         |         |         |         |
| Antimony                            | 0.006                   | mg/l     | <0.0015 | <0.0015 | 0.002   | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015 | <0.0015              | <0.0015 | <0.0015 | 0.002   | <0.0015 | <0.0015 | <0.0015 | <0.0015 |
| Arsenic                             | 0.01                    | mg/l     | 0.06    | 0.06    | <0.007  | 0.01    | 0.01    | 0.01    | 0.01    | 0.01    | 0.02    | 0.04    | 0.06                 | 0.02    | 0.01    | 0.02    | 0.02    | 0.01    | <0.007  | <0.007  |
| Barium                              | 2                       | mg/l     | 0.01    | 0.007   | 0.013   | 0.011   | 0.016   | 0.013   | 0.015   | 0.049   | 0.023   | 0.021   | 0.013                | 0.077   | 0.034   | 0.092   | 0.056   | 0.026   | 0.006   | 0.022   |
| Beryllium                           | 0.004                   | mg/l     | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002              | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Cadmium                             | 0.005                   | mg/l     | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005              | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| Chloride                            | 250                     | mg/l     | 29.3    | 9.73    | 24.4    | 7.82    | 18.2    | 44.2    | 15.1    | 4.74    | 9.07    | 6.18    | 25                   | 9.19    | 37      | 484     | 100     | 91.9    | 7.93    | 106     |
| Chromium                            | 0.1                     | mg/l     | 0.003   | 0.004   | 0.003   | 0.003   | 0.003   | <0.001  | 0.002   | 0.001   | 0.002   | 0.001   | 0.007                | 0.002   | 0.002   | <0.001  | 0.002   | 0.003   | 0.007   | 0.001   |
| Cobalt                              | 0.14                    | mg/l     | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001  | <0.001               | 0.003   | <0.001  | 0.002   | <0.001  | <0.001  | <0.001  | <0.001  |
| Copper                              | 1                       | mg/l     | <0.005  | <0.005  | <0.005  | 0.006   | 0.007   | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005               | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  |
| Iron                                | 0.3                     | mg/l     | 8.58    | 21.3    | 0.522   | 0.509   | 2.03    | 11      | 0.198   | 0.408   | 6.5     | 3.65    | 40.3                 | 9.03    | 4.28    | 25.8    | 20.7    | 1.82    | 4.48    | 0.615   |
| Lead                                | 0.015                   | mg/l     | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005               | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  | <0.005  |
| Mercury                             | 2                       | ug/l     | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100               | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  | <0.100  |
| Nickel                              | 0.1                     | mg/l     | 0.006   | 0.002   | 0.002   | 0.002   | 0.003   | <0.001  | 0.001   | 0.001   | <0.001  | <0.001  | 0.001                | 0.002   | <0.001  | 0.002   | <0.001  | 0.002   | 0.001   | 0.002   |
| Nitrate                             | 10                      | mg/l     | <0.006  | 0.032   | 2.56    | 0.45    | 4.15    | 0.028   | 0.061   | 0.97    | 0.019   | <0.006  | <0.006               | 0.191   | <0.006  | <0.006  | <0.006  | 0.014   | 0.022   | 0.039   |
| Selenium                            | 0.05                    | mg/l     | 0.003   | 0.003   | 0.004   | 0.008   | 0.008   | 0.003   | 0.005   | 0.007   | 0.002   | 0.003   | 0.003                | 0.003   | 0.002   | 0.001   | 0.003   | 0.001   | 0.001   | 0.001   |
| Silver                              | 0.1                     | mg/l     | 0.002   | <0.002  | 0.002   | <0.002  | <0.002  | 0.002   | <0.002  | 0.003   | 0.002   | 0.002   | <0.002               | <0.002  | 0.004   | 0.005   | <0.002  | <0.002  | <0.002  | <0.002  |
| Sodium                              | 160                     | mg/l     | 28.3    | 10.2    | 27.1    | 5.43    | 17.8    | 22.5    | 14.5    | 19.1    | 13.4    | 11.5    | 16                   | 6.79    | 25.5    | 201     | 84      | 68.8    | 6.32    | 81.5    |
| Total Ammonia - N                   |                         | mg/l     | 1.15    | 1.63    | 0.042   | 0.151   | 0.569   | 0.811   | 0.641   | 1.35    | 0.762   | 0.432   | 0.699                | 0.845   | 5.67    | 0.645   | 0.922   | 0.746   | 1.65    | 0.986   |
| Thallium                            | 0.002                   | mg/l     | 0.001   | 0.001   | <0.0004 | <0.0004 | <0.0004 | 0.0004  | <0.0004 | 0.001   | <0.0004 | <0.0004 | <0.0004              | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | <0.0004 | 0.001   |
| Total Dissolved Solids (TDS)        | 500                     | mg/l     | 586     | 365     | 613     | 340     | 433     | 826     | 440     | 1070    | 484     | 631     | 567                  | 648     | 1130    | 2730    | 558     | 419     | 121     | 493     |
| Vanadium                            | 0.049                   | mg/l     | 0.008   | 0.014   | 0.028   | 0.045   | 0.03    | 0.052   | 0.008   | 0.005   | <0.0005 | 0.002   | 0.019                | 0.009   | 0.006   | 0.004   | 0.008   | 0.007   | 0.025   | 0.006   |
| Zinc                                | 5                       | mg/l     | 0.016   | <0.010  | 0.011   | 0.012   | 0.015   | 0.013   | 0.014   | <0.010  | <0.010  | 0.012   | 0.011                | 0.015   | <0.010  | <0.010  | <0.010  | <0.010  | 0.012   | 0.019   |
| <b>Volatile Organics</b>            |                         |          |         |         |         |         |         |         |         |         |         |         |                      |         |         |         |         |         |         |         |
| 1,1,1,2-Tetrachloroethane           | 5                       | ug/l     | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63                | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   |
| 1,1,1-Trichloroethane               | 200                     | ug/l     | <0.46   | <0.46   | <0.46   | <0.46   | <0.46   | <0.46   | <0.46   | <0.46   | <0.46   | <0.46   | <0.46                | <0.46   | <0.46   | <0.46   | <0.46   | <0.46   | <0.46   | <0.46   |
| 1,1,2,2-Tetrachloroethane           |                         | ug/l     | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14                | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   |
| 1,1,2-Trichloroethane               | 5                       | ug/l     | <0.47   | <0.47   | <0.47   | <0.47   | <0.47   | <0.47   | <0.47   | <0.47   | <0.47   | <0.47   | <0.47                | <0.47   | <0.47   | <0.47   | <0.47   | <0.47   | <0.47   | <0.47   |
| 1,1-Dichloroethane                  |                         | ug/l     | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52                | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   |
| 1,1-Dichloroethene                  | 7                       | ug/l     | <0.45   | <0.45   | <0.45   | <0.45   | <0.45   | <0.45   | <0.45   | <0.45   | <0.45   | <0.45   | <0.45                | <0.45   | <0.45   | <0.45   | <0.45   | <0.45   | <0.45   | <0.45   |
| 1,2,3-Trichloropropane              |                         | ug/l     | <0.15   | <0.15   | <0.15   | <0.15   | <0.15   | <0.15   | <0.15   | <0.15   | <0.15   | <0.15   | <0.15                | <0.15   | <0.15   | <0.15   | <0.15   | <0.15   | <0.15   | <0.15   |
| 1,2-Dichlorobenzene                 | 600                     | ug/l     | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44                | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   |
| 1,2-Dichloroethane                  | 3                       | ug/l     | <0.57   | <0.57   | <0.57   | <0.57   | <0.57   | <0.57   | <0.57   | <0.57   | <0.57   | <0.57   | <0.57                | <0.57   | <0.57   | <0.57   | <0.57   | <0.57   | <0.57   | <0.57   |
| 1,2-Dichloropropane                 | 5                       | ug/l     | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52                | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   |
| 1,4-Dichlorobenzene                 | 75                      | ug/l     | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52                | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   | <0.52   |
| 2-Butanone                          |                         | ug/l     | <8.4    | <8.4    | <8.4    | <8.4    | <8.4    | <8.4    | <8.4    | <8.4    | <8.4    | <8.4    | <8.4                 | <8.4    | <8.4    | <8.4    | <8.4    | <8.4    | <8.4    | <8.4    |

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|                           | Well:                   |       | GW-1    | GW-2    | GW-3    | GW-4    | GW-5    | GW-6    | GW-7    | GW-8    | GW-9    | GW-10   | GW-11 <sup>(3)</sup> | GW-12   | GW-13   | GW-14   | GW-15   | GW-16   | GW-17   | BGW-1   |
|---------------------------|-------------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------|---------|---------|---------|---------|---------|---------|---------|
|                           | Sample Identifier:      |       | 21593   | 21594   | 21595   | 21596   | 21597   | 21598   | 21599   | 21600   | 21601   | 21602   | 21603                | 21604   | 21605   | 21606   | 21607   | 21608   | 21609   | 21610   |
|                           | Date of Test:           |       | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/21/06 | 8/22/06 | 8/22/06              | 8/22/06 | 8/22/06 | 8/22/06 | 8/22/06 | 8/22/06 | 8/22/06 | 8/22/06 |
|                           | Standard <sup>(1)</sup> | Units |         |         |         |         |         |         |         |         |         |         |                      |         |         |         |         |         |         |         |
| 2-Hexanone                |                         | ug/l  | <4.4    | <4.4    | <4.4    | <4.4    | <4.4    | <4.4    | <4.4    | <4.4    | <4.4    | <4.4    | <4.4                 | <4.4    | <4.4    | <4.4    | <4.4    | <4.4    | <4.4    | <4.4    |
| 4-Methyl-2-pentanone      |                         | ug/l  | <3.8    | <3.8    | <3.8    | <3.8    | <3.8    | <3.8    | <3.8    | <3.8    | <3.8    | <3.8    | <3.8                 | <3.8    | <3.8    | <3.8    | <3.8    | <3.8    | <3.8    | <3.8    |
| Acrylonitrile             |                         | ug/l  | <1.2    | <1.2    | <1.2    | <1.2    | <1.2    | <1.2    | <1.2    | <1.2    | <1.2    | <1.2    | <1.2                 | <1.2    | <1.2    | <1.2    | <1.2    | <1.2    | <1.2    | <1.2    |
| Benzene                   | 1                       | ug/l  | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50                | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   |
| Bromomethane              |                         | ug/l  | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5                 | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    |
| Bromochloromethane        |                         | ug/l  | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58                | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   |
| Bromodichloromethane      |                         | ug/l  | <0.35   | <0.35   | <0.35   | <0.35   | <0.35   | <0.35   | <0.35   | <0.35   | <0.35   | <0.35   | <0.35                | <0.35   | <0.35   | <0.35   | <0.35   | <0.35   | <0.35   | <0.35   |
| Carbon Disulfide          |                         | ug/l  | <0.85   | <0.85   | <0.85   | <0.85   | <0.85   | <0.85   | <0.85   | <0.85   | <0.85   | <0.85   | <0.85                | <0.85   | <0.85   | <0.85   | <0.85   | <0.85   | <0.85   | <0.85   |
| Carbon tetrachloride      | 3                       | ug/l  | <0.42   | <0.42   | <0.42   | <0.42   | <0.42   | <0.42   | <0.42   | <0.42   | <0.42   | <0.42   | <0.42                | <0.42   | <0.42   | <0.42   | <0.42   | <0.42   | <0.42   | <0.42   |
| Chlorobenzene             | 100                     | ug/l  | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63                | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   | <0.63   |
| Chloroethane              |                         | ug/l  | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5                 | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    |
| Chloromethane             |                         | ug/l  | <1.0    | <1.0    | <1.0    | <1.0    | <1.0    | <1.0    | <1.0    | <1.0    | <1.0    | <1.0    | <1.0                 | <1.0    | <1.0    | <1.0    | <1.0    | <1.0    | <1.0    | <1.0    |
| cis-1,2-Dichloroethene    | 70                      | ug/l  | <0.65   | <0.65   | <0.65   | <0.65   | <0.65   | <0.65   | <0.65   | <0.65   | <0.65   | <0.65   | <0.65                | <0.65   | <0.65   | <0.65   | <0.65   | <0.65   | <0.65   | <0.65   |
| cis-1,3-Dichloropropene   |                         | ug/l  | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14                | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   |
| Dibromochloromethane      |                         | ug/l  | <0.34   | <0.34   | <0.34   | <0.34   | <0.34   | <0.34   | <0.34   | <0.34   | <0.34   | <0.34   | <0.34                | <0.34   | <0.34   | <0.34   | <0.34   | <0.34   | <0.34   | <0.34   |
| Dibromomethane            |                         | ug/l  | <0.41   | <0.41   | <0.41   | <0.41   | <0.41   | <0.41   | <0.41   | <0.41   | <0.41   | <0.41   | <0.41                | <0.41   | <0.41   | <0.41   | <0.41   | <0.41   | <0.41   | <0.41   |
| Dichloromethane           | 5                       | ug/l  | <4      | <4      | <4      | <4      | <4      | <4      | <4      | <4      | <4      | <4      | <4                   | <4      | <4      | <4      | <4      | <4      | <4      | <4      |
| Ethylbenzene              | 700                     | ug/l  | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44                | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   |
| Iodomethane               |                         | ug/l  | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5                 | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    |
| Styrene                   | 100                     | ug/l  | <0.98   | <0.98   | <0.98   | <0.98   | <0.98   | <0.98   | <0.98   | <0.98   | <0.98   | <0.98   | <0.98                | <0.98   | <0.98   | <0.98   | <0.98   | <0.98   | <0.98   | <0.98   |
| t-1,4-Dichloro-2-butene   |                         | ug/l  | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5                 | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    |
| Tetrachloroethene         | 3                       | ug/l  | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50                | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   |
| Toluene                   | 1000                    | ug/l  | <0.51   | <0.51   | <0.51   | <0.51   | <0.51   | <0.51   | <0.51   | <0.51   | 0.82    | 0.69    | <0.51                | <0.51   | <0.51   | <0.51   | <0.51   | <0.51   | <0.51   | <0.51   |
| trans-1,2-Dichloroethene  | 100                     | ug/l  | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44                | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   | <0.44   |
| trans-1,3-Dichloropropene |                         | ug/l  | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14                | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   | <0.14   |
| Tribromomethane           |                         | ug/l  | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58                | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   | <0.58   |
| Trichloroethene           | 3                       | ug/l  | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50                | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   |
| Trichlorofluoromethane    |                         | ug/l  | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5                 | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    |
| Trichloromethane          |                         | ug/l  | <0.90   | <0.90   | <0.90   | <0.90   | <0.90   | <0.90   | <0.90   | <0.90   | <0.90   | <0.90   | <0.90                | <0.90   | <0.90   | <0.90   | <0.90   | <0.90   | <0.90   | <0.90   |
| Vinyl acetate             |                         | ug/l  | <1.5    | <1.5    | <1.5    | <1.5    | <1.5    | <1.5    | <1.5    | <1.5    | <1.5    | <1.5    | <1.5                 | <1.5    | <1.5    | <1.5    | <1.5    | <1.5    | <1.5    | <1.5    |
| Vinyl chloride            | 1                       | ug/l  | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50                | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   |
| Total xylenes             | 10000                   | ug/l  | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | 0.64    | <0.50   | <0.50   | <0.50                | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   |
| Ethylene dibromide        |                         | ug/l  | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50                | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   | <0.50   |
| Dibromochloropropane      |                         | ug/l  | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5                 | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    | <2.5    |

<sup>(1)</sup> Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS), as established in Chapter 62-550.

<sup>(2)</sup> As measured from the top of well casing.

<sup>(3)</sup> Monitoring well GW 11 has not been installed and therefore, no data is available.

<sup>(4)</sup> Monitoring well GC-6 was sampled for data purposes due to its proximity to the GW-11 well location.

<sup>(5)</sup> Sulfide data collected on 12/22-23/05.

Shaded data indicates an exceedence of either the MCL or SDWS

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**Table 2-10 - Surface Water Analytical Summary**  
**First Half 2004**

| Analyte                         | Location:          |           | SW-1     | SW-2     |
|---------------------------------|--------------------|-----------|----------|----------|
|                                 | Sample Identifier: |           | SW-1     | SW-2     |
|                                 | Date of Test:      |           | 03/17/04 | 03/17/04 |
|                                 | Standard(1)        | Units     |          |          |
| <b>Field Measurements</b>       |                    |           |          |          |
| Temperature                     |                    | deg. C    | 21.33    | 25.49    |
| pH                              |                    | STD       | 6.56     | 6.72     |
| Conductivity                    |                    | umhos/cm  | 708      | 850      |
| Dissolved Oxygen (DO)           | <5                 | mg/l      | 6.02     | 10.27    |
| Turbidity                       | 29                 | NTU       | 6.53     | 3.23     |
| <b>Inorganics</b>               |                    |           |          |          |
| Antimony                        | 4.3                | mg/l      | <0.002   | <0.002   |
| Arsenic                         | 0.05               | mg/l      | <0.007   | 0.0009   |
| Barium                          |                    | mg/l      | 0.011    | 0.042    |
| Beryllium                       | 0.13               | mg/l      | <0.0002  | 0.0004   |
| Biochemical Oxygen Demand (BOD) |                    | mg/l      | <2.0     | 5.8      |
| Cadmium                         | Note 2             | mg/l      | <0.0005  | <0.0005  |
| Calcium                         |                    | mg/l      | 51.1     | 114      |
| Chemical Oxygen Demand (COD)    |                    | mg/l      | 18.8     | 17.3     |
| Chlorophyll A                   |                    | mg/m3     | 8.05     | 1.45     |
| Chromium                        | Note 3             | mg/l      | 0.001    | 0.031    |
| Cobalt                          |                    | mg/l      | <0.001   | <0.001   |
| Copper                          | Note 4             | mg/l      | <0.005   | 0.008    |
| Fecal coliform                  | 800                | cfu/100ml | 300      | 900      |
| Iron                            | 1                  | mg/l      | 0.23     | 3.29     |
| Lead                            | Note 5             | mg/l      | <0.005   | 0.012    |
| Magnesium                       |                    | mg/l      | 8.49     | 11.3     |
| Mercury                         | 0.012              | ug/l      | <0.100   | 0.123    |
| Nickel                          | Note 6             | mg/l      | 0.002    | 0.01     |
| Nitrate                         |                    | mg/l      | 0.025    | 0.581    |
| Selenium                        | 0.005              | mg/l      | <0.01    | <0.01    |
| Silver                          | 0.00007            | mg/l      | <0.002   | <0.002   |
| Thallium                        | 0.0063             | mg/l      | <0.0004  | <0.0004  |
| Total Dissolved Solids (TDS)    |                    | mg/l      | 246      | 423      |
| Total phosphorous               |                    | mg/l      | 0.149    | 1.26     |
| Total Suspended Solids (TSS)    |                    | mg/l      | 2        | 494      |
| Unionized ammonia               | 0.02               | mg/l      | <0.009   | <0.009   |
| Vanadium                        |                    | mg/l      | 0.004    | 0.035    |
| Zinc                            | Note 7             | mg/l      | <0.01    | 0.036    |
| <b>Organics</b>                 |                    |           |          |          |
| Acetone                         |                    | ug/l      | <2.5     | <2.5     |
| Acrylonitrile                   |                    | ug/l      | <1.5     | <1.5     |
| Benzene                         |                    | ug/l      | <0.04    | <0.04    |
| Bromochloromethane              |                    | ug/l      | <0.5     | <0.5     |
| Bromodichloromethane            |                    | ug/l      | <0.08    | <0.08    |
| Bromomethane                    |                    | ug/l      | <0.11    | <0.11    |
| Carbon disulfide                |                    | ug/l      | <4.1     | <4.1     |
| Carbon tetrachloride            | 4.42               | ug/l      | <0.21    | <0.21    |
| Chlorobenzene                   |                    | ug/l      | <0.04    | <0.04    |

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| Analyte                     | Location:          |       | SW-1     | SW-2     |
|-----------------------------|--------------------|-------|----------|----------|
|                             | Sample Identifier: |       | SW-1     | SW-2     |
|                             | Date of Test:      |       | 03/17/04 | 03/17/04 |
|                             | Standard(1)        | Units |          |          |
| Chloroethane                |                    | ug/l  | <0.1     | <0.1     |
| Dibromomethane              |                    | ug/l  | <0.3     | <0.3     |
| Dibromochloromethane        |                    | ug/l  | <0.05    | <0.05    |
| Dibromchloropropane         |                    | ug/l  | <0.01    | <0.01    |
| 1,2-Dichlorobenzene         |                    | ug/l  | <0.03    | <0.03    |
| 1,4-Dichlorobenzene         |                    | ug/l  | <0.03    | <0.03    |
| Dichloromethane             | 1580               | ug/l  | <0.03    | <0.03    |
| 1,2-Dibromo-3-chloropropane |                    | ug/l  | <0.01    | <0.01    |
| Ethylene dibromide          |                    | ug/l  | <0.01    | <0.01    |
| o-Dichlorobenzene           |                    | ug/l  | <1.0     | <1.0     |
| 1,1-Dichloroethane          |                    | ug/l  | <0.03    | <0.03    |
| 1,2-Dichloroethane          |                    | ug/l  | <0.02    | <0.02    |
| 1,1-Dichloroethene          |                    | ug/l  | <0.12    | <0.12    |
| cis-1,2-Dichloroethene      | 3.2                | ug/l  | <0.1     | <0.1     |
| trans-1,2-Dichloroethene    |                    | ug/l  | <0.06    | <0.06    |
| 1,2-Dichloropropane         |                    | ug/l  | <0.04    | <0.04    |
| cis-1,3-Dichloropropene     |                    | ug/l  | <0.05    | <0.05    |
| trans-1,3-Dichloropropene   |                    | ug/l  | <0.04    | <0.04    |
| Ethylbenzene                |                    | ug/l  | <0.06    | <0.06    |
| Ethylene Dibromide          |                    | ug/l  | <0.3     | <0.3     |
| 2-Hexanone                  |                    | ug/l  | <2.5     | <2.5     |
| Iodomethane                 |                    | ug/l  | <0.5     | <0.5     |
| Methyl bromide              |                    | ug/l  | <0.11    | <0.11    |
| Chloromethane               |                    | ug/l  | <0.13    | <0.13    |
| 2-Butanone                  |                    | ug/l  | <2.5     | <2.5     |
| Methyl iodide               |                    | ug/l  | <0.5     | <0.5     |
| 4-Methyl-2-pentanone        |                    | ug/l  | <2.5     | <2.5     |
| Styrene                     |                    | ug/l  | <1.0     | <1.0     |
| 1,1,1,2-Tetrachloroethane   |                    | ug/l  | <0.1     | <0.1     |
| 1,1,2,2-Tetrachloroethane   | 10.8               | ug/l  | <0.04    | <0.04    |
| t-1,4-Dichloro-2-butene     |                    | ug/l  | <10      | <10      |
| Tetrachloroethene           |                    | ug/l  | <0.14    | <0.14    |
| Toluene                     |                    | ug/l  | <0.11    | <0.11    |
| 1,1,1-Trichloroethane       |                    | ug/l  | <0.04    | <0.04    |
| 1,1,2-Trichloroethane       |                    | ug/l  | <0.1     | <0.1     |
| Tribromomethane             |                    | ug/l  | <0.12    | <0.12    |
| Trichloroethene             | 80.7               | ug/l  | <0.19    | <0.19    |
| Trichloromethane            |                    | ug/l  | <0.03    | <0.03    |
| Trichlorofluoromethane      |                    | ug/l  | <0.08    | <0.08    |
| 1,2,3-Trichloropropane      |                    | ug/l  | <0.3     | <0.3     |
| Vinyl acetate               |                    | ug/l  | <10      | <10      |
| Vinyl chloride              |                    | ug/l  | <0.17    | <0.17    |
| Total xylenes               |                    | ug/l  | <0.22    | <0.22    |

Abbreviations: mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units..

Notes:

(1) Surface water standards presented in Chapter 62-302, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level.

(3) Cr less than or equal to  $e(0.819(\ln H)+0.6848)$

(4) Cu less than or equal to  $e(0.845(\ln H)-1.702)$

(5) Pb less than or equal to  $e(1.273(\ln H)-4.705)$

(6) Ni less than or equal to  $e(0.846(\ln H)+0.0584)$

(7) Zn less than or equal to  $e(0.8473(\ln H)+0.884)$

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**Table 2-11 - Surface Water Analytical Summary**  
**Second Half 2004**

| Analyte                         | Location:          |           | SW-1     | SW-2     |
|---------------------------------|--------------------|-----------|----------|----------|
|                                 | Sample Identifier: |           | SW-1     | SW-2     |
|                                 | Date of Test:      |           | 08/11/04 | 08/11/04 |
|                                 | Standard(1)        | Units     |          |          |
| <b>Field Measurements</b>       |                    |           |          |          |
| Temperature                     |                    | deg. C    | 28.36    | 32.16    |
| pH                              |                    | STD       | 6.93     | 6.42     |
| Conductivity                    |                    | umhos/cm  | 358      | 274      |
| Dissolved Oxygen (DO)           | >5                 | mg/l      | 2.65     | 2.69     |
| Turbidity                       | 29                 | NTU       | 8.79     | 5.41     |
| <b>Inorganics</b>               |                    |           |          |          |
| Antimony                        | 4.3                | mg/l      | <0.002   | <0.002   |
| Arsenic                         | 0.05               | mg/l      | 0.009    | <0.007   |
| Barium                          |                    | mg/l      | 0.017    | 0.014    |
| Beryllium                       | 0.13               | mg/l      | <0.0002  | 0.0002   |
| Biochemical Oxygen Demand (BOD) |                    | mg/l      | <2       | 4.53     |
| Cadmium                         | Note 2             | mg/l      | <0.0005  | <0.0005  |
| Chemical Oxygen Demand (COD)    |                    | mg/l      | 79       | 158      |
| Chlorophyll A                   |                    | mg/m3     | 1.62     | 1.65     |
| Chromium                        | Note 3             | mg/l      | 0.01     | 0.003    |
| Cobalt                          |                    | mg/l      | <0.001   | <0.001   |
| Copper                          | Note 4             | mg/l      | 0.013    | 0.007    |
| Fecal coliform                  | 800                | cfu/100ml | 290      | 6800     |
| Iron                            | 1                  | mg/l      | 2.36     | 1.58     |
| Lead                            | Note 5             | mg/l      | 0.0079   | 0.008    |
| Mercury                         | 12                 | ug/l      | <0.1     | <0.1     |
| Nickel                          | Note 6             | mg/l      | 0.01     | 0.004    |
| Nitrate                         |                    | mg/l      | 0.038    | 0.014    |
| Selenium                        | 0.005              | mg/l      | <0.0002  | <0.0002  |
| Silver                          | 0.07               | mg/l      | <0.002   | <0.002   |
| Thallium                        | 0.0063             | mg/l      | <0.0004  | <0.0004  |
| Total Dissolved Solids (TDS)    |                    | mg/l      | 270      | 251      |
| Total Hardness                  |                    | mg/l      | 136      | 78.9     |
| Total Nitrogen                  |                    | mg/l      | 1.63     | 0.684    |
| Total Organic Carbon (TOC)      |                    | mg/l      | 28.2     | 54.8     |
| Total phosphorous               |                    | mg/l      | 0.741    | 0.204    |
| Total Suspended Solids (TSS)    |                    | mg/l      | 5.2      | 8.4      |
| Unionized ammonia               | 0.02               | mg/l      | 0.0004   | 0.0008   |
| Vanadium                        |                    | mg/l      | 0.009    | 0.003    |
| Zinc                            | Note 7             | mg/l      | 0.257    | 0.103    |
| <b>Organics</b>                 |                    |           |          |          |
| Acetone                         |                    | ug/l      | < 2.5    | < 2.5    |
| Acrylonitrile                   |                    | ug/l      | < 1.5    | < 1.5    |
| Benzene                         |                    | ug/l      | < 0.04   | < 0.04   |

| Analyte                     | Location:          |       | SW-1     | SW-2     |
|-----------------------------|--------------------|-------|----------|----------|
|                             | Sample Identifier: |       | SW-1     | SW-2     |
|                             | Date of Test:      |       | 08/11/04 | 08/11/04 |
|                             | Standard(1)        | Units |          |          |
| Bromochloromethane          |                    | ug/l  | < 0.03   | < 0.5    |
| Bromodichloromethane        |                    | ug/l  | < 0.08   | < 0.05   |
| Carbon disulfide            |                    | ug/l  | < 4.1    | < 4.1    |
| Carbon tetrachloride        | 4.42               | ug/l  | < 0.21   | < 0.21   |
| Chlorobenzene               |                    | ug/l  | < 0.04   | < 0.04   |
| Chloroethane                |                    | ug/l  | < 0.10   | < 0.10   |
| Dibromomethane              |                    | ug/l  | < 0.3    | < 0.3    |
| Dibromochloromethane        |                    | ug/l  | < 0.05   | < 0.05   |
| 1,2-Dichlorobenzene         |                    | ug/l  | < 0.03   | < 0.03   |
| 1,4-Dichlorobenzene         |                    | ug/l  | < 0.03   | < 0.03   |
| Dichloromethane             | 1580               | ug/l  | < 0.03   | < 0.03   |
| 1,2-Dibromo-3-chloropropane |                    | ug/l  | < 0.01   | < 0.01   |
| 1,1-Dichloroethane          |                    | ug/l  | < 0.03   | < 0.03   |
| 1,2-Dichloroethane          |                    | ug/l  | < 0.02   | < 0.02   |
| 1,1-Dichloroethene          |                    | ug/l  | < 0.12   | < 0.12   |
| cis-1,2-Dichloroethene      | 3.2                | ug/l  | < 0.10   | < 0.10   |
| trans-1,2-Dichloroethene    |                    | ug/l  | < 0.06   | < 0.06   |
| 1,2-Dichloropropane         |                    | ug/l  | < 0.04   | < 0.04   |
| cis-1,3-Dichloropropene     |                    | ug/l  | < 0.05   | < 0.05   |
| trans-1,3-Dichloropropene   |                    | ug/l  | < 0.04   | < 0.05   |
| Ethylbenzene                |                    | ug/l  | < 0.06   | < 0.06   |
| Ethylene Dibromide          |                    | ug/l  | < 0.01   | < 0.01   |
| 2-Hexanone                  |                    | ug/l  | < 2.5    | < 2.5    |
| Iodomethane                 |                    | ug/l  | < 0.5    | < 0.5    |
| Methyl bromide              |                    | ug/l  | < 0.11   | < 0.11   |
| Chloromethane               |                    | ug/l  | < 0.13   | < 0.13   |
| 2-Butanone                  |                    | ug/l  | < 2.5    | < 2.5    |
| 4-Methyl-2-pentanone        |                    | ug/l  | < 2.5    | < 2.5    |
| Styrene                     |                    | ug/l  | < 1.0    | < 1.0    |
| 1,1,1,2-Tetrachloroethane   |                    | ug/l  | < 0.1    | < 0.1    |
| 1,1,2,2-Tetrachloroethane   | 10.8               | ug/l  | < 0.04   | < 0.04   |
| t-1,4-Dichloro-2-butene     |                    | ug/l  | < 10.0   | < 10.0   |
| Tetrachloroethene           |                    | ug/l  | < 0.14   | < 0.14   |
| Toluene                     |                    | ug/l  | < 0.11   | < 0.11   |
| 1,1,1-Trichloroethane       |                    | ug/l  | < 0.04   | < 0.04   |
| 1,1,2-Trichloroethane       |                    | ug/l  | < 0.10   | < 0.10   |
| Tribromomethane             |                    | ug/l  | < 0.12   | < 0.12   |
| Trichloroethene             | 80.7               | ug/l  | < 0.19   | < 0.19   |
| Trichloromethane            |                    | ug/l  | < 0.03   | < 0.03   |
| Trichlorofluoromethane      |                    | ug/l  | < 0.08   | < 0.08   |
| 1,2,3-Trichloropropane      |                    | ug/l  | < 0.3    | < 0.3    |
| Vinyl acetate               |                    | ug/l  | < 10.0   | < 10.0   |

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| Analyte        | Location:          |       | SW-1     | SW-2     |
|----------------|--------------------|-------|----------|----------|
|                | Sample Identifier: |       | SW-1     | SW-2     |
|                | Date of Test:      |       | 08/11/04 | 08/11/04 |
|                | Standard(1)        | Units |          |          |
| Vinyl chloride |                    | ug/l  | < 0.17   | < 0.17   |
| Total xylenes  |                    | ug/l  | < 0.11   | < 0.11   |

Abbreviations: mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

Notes:

(1) Surface water standards presented in Chapter 62-302, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level.

(3) Cr less than or equal to  $e(0.819(\ln H)+0.6848)$

(4) Cu less than or equal to  $e(0.845(\ln H)-1.702)$

(5) Pb less than or equal to  $e(1.273(\ln H)-4.705)$

(6) Ni less than or equal to  $e(0.846(\ln H)+0.0584)$

(7) Zn less than or equal to  $e(0.8473(\ln H)+0.884)$

**Table 2-12 - Surface Water Analytical Summary  
First Half 2005**

| Analyte                         | Location:          |           | SW-1     | SW-2     |
|---------------------------------|--------------------|-----------|----------|----------|
|                                 | Sample Identifier: |           | SW-1     | SW-2     |
|                                 | Date of Test:      |           | 02/18/05 | 02/18/05 |
|                                 | Standard(1)        | Units     |          |          |
| <b>Field Measurements</b>       |                    |           |          |          |
| Temperature                     |                    | deg. C    | 16.92    | 17.47    |
| pH                              |                    | STD       | 6.87     | 6.9      |
| Conductivity                    |                    | umhos/cm  | 733      | 885      |
| Dissolved Oxygen (DO)           | <5                 | mg/l      | 6.55     | 6.78     |
| Turbidity                       | 29                 | NTU       | 8.36     | 3.15     |
| <b>Inorganics</b>               |                    |           |          |          |
| Ammonia                         |                    | mg/l      | 0.19     | 0.013    |
| Antimony                        | 4.3                | mg/l      | BDL      | BDL      |
| Arsenic                         | 0.01               | mg/l      | 0.007    | BDL      |
| Barium                          |                    | mg/l      | 0.013    | 0.008    |
| Beryllium                       | 0.13               | mg/l      | BDL      | BDL      |
| Biochemical Oxygen Demand (BOD) |                    | mg/l      | BDL      | BDL      |
| Cadmium                         | Note 2             | mg/l      | BDL      | BDL      |
| Calcium                         |                    | mg/l      | 38       | 64.3     |
| Chemical Oxygen Demand (COD)    |                    | mg/l      | 48.5     | 51.2     |
| Chlorophyll A                   |                    | mg/m3     | 2.71     | 5.02     |
| Chromium                        | Note 3             | mg/l      | BDL      | BDL      |
| Cobalt                          |                    | mg/l      | BDL      | BDL      |
| Copper                          | Note 4             | mg/l      | BDL      | BDL      |
| Fecal coliforms                 | 800                | cfu/100ml | 680      | 130      |
| Iron                            | 1                  | mg/l      | 1.55     | 0.203    |
| Lead                            | Note 5             | mg/l      | BDL      | BDL      |
| Magnesium                       |                    | mg/l      | 12.8     | 12.3     |
| Mercury                         | 0.012              | ug/l      | BDL      | BDL      |
| Nickel                          | Note 6             | mg/l      | 0.003    | 0.003    |
| Nitrate                         |                    | mg/l      | 0.127    | 0.011    |
| Nitrite                         |                    | mg/l      | 0.029    | BDL      |
| Selenium                        | 0.005              | mg/l      | BDL      | BDL      |
| Silver                          | 0.00007            | mg/l      | BDL      | BDL      |
| Thallium                        | 0.0063             | mg/l      | BDL      | BDL      |
| Total Dissolved Solids (TDS)    |                    | mg/l      | 415      | 510      |
| Total Hardness                  |                    | mg/l      | 148      | 211      |
| Total Kjeldahl Nitrogen (TKN)   |                    | mg/l      | 1.06     | 1.05     |
| Total Nitrogen                  |                    | mg/l      | 1.22     | 1.06     |
| Total Organic Carbon (TOC)      |                    | mg/l      | 16.4     | 14.9     |
| Total Phosphate                 |                    | mg/l      | 0.326    | 0.038    |
| Total Suspended Solids (TSS)    |                    | mg/l      | 4.6      | 3.9      |
| Unionized ammonia               | 0.02               | mg/l      | 0.0005   | 0.00004  |
| Vanadium                        |                    | mg/l      | 0.002    | 0.002    |
| Zinc                            | Note 7             | mg/l      | BDL      | BDL      |
| <b>Organics</b>                 |                    |           |          |          |
| Acetone                         |                    | ug/l      | BDL      | BDL      |
| Acrylonitrile                   |                    | ug/l      | BDL      | BDL      |
| Benzene                         |                    | ug/l      | BDL      | BDL      |

| Analyte                     | Location:          |       | SW-1     | SW-2     |
|-----------------------------|--------------------|-------|----------|----------|
|                             | Sample Identifier: |       | SW-1     | SW-2     |
|                             | Date of Test:      |       | 02/18/05 | 02/18/05 |
|                             | Standard(1)        | Units |          |          |
| Bromochloromethane          |                    | ug/l  | BDL      | BDL      |
| Bromodichloromethane        |                    | ug/l  | BDL      | BDL      |
| Bromomethane                |                    | ug/l  | BDL      | BDL      |
| Carbon disulfide            |                    | ug/l  | BDL      | BDL      |
| Carbon tetrachloride        | 4.42               | ug/l  | BDL      | BDL      |
| Chlorobenzene               |                    | ug/l  | BDL      | BDL      |
| Chloroethane                |                    | ug/l  | BDL      | BDL      |
| Dibromomethane              |                    | ug/l  | BDL      | BDL      |
| Dibromochloromethane        |                    | ug/l  | BDL      | BDL      |
| Dibromchloropropane         |                    | ug/l  | BDL      | BDL      |
| 1,2-Dichlorobenzene         |                    | ug/l  | BDL      | BDL      |
| 1,4-Dichlorobenzene         |                    | ug/l  | BDL      | BDL      |
| Dichloromethane             | 1580               | ug/l  | BDL      | BDL      |
| 1,2-Dibromo-3-chloropropane |                    | ug/l  | BDL      | BDL      |
| Ethylene dibromide          |                    | ug/l  | BDL      | BDL      |
| o-Dichlorobenzene           |                    | ug/l  | BDL      | BDL      |
| 1,1-Dichloroethane          |                    | ug/l  | BDL      | BDL      |
| 1,2-Dichloroethane          |                    | ug/l  | BDL      | BDL      |
| 1,1-Dichloroethene          |                    | ug/l  | BDL      | BDL      |
| cis-1,2-Dichloroethene      | 3.2                | ug/l  | BDL      | BDL      |
| trans-1,2-Dichloroethene    |                    | ug/l  | BDL      | BDL      |
| 1,2-Dichloropropane         |                    | ug/l  | BDL      | BDL      |
| cis-1,3-Dichloropropene     |                    | ug/l  | BDL      | BDL      |
| trans-1,3-Dichloropropene   |                    | ug/l  | BDL      | BDL      |
| Ethylbenzene                |                    | ug/l  | BDL      | BDL      |
| Ethylene Dibromide          |                    | ug/l  | BDL      | BDL      |
| 2-Hexanone                  |                    | ug/l  | BDL      | BDL      |
| Iodomethane                 |                    | ug/l  | BDL      | BDL      |
| Methyl bromide              |                    | ug/l  | BDL      | BDL      |
| Chloromethane               |                    | ug/l  | BDL      | BDL      |
| 2-Butanone                  |                    | ug/l  | BDL      | BDL      |
| Methyl iodide               |                    | ug/l  | BDL      | BDL      |
| 4-Methyl-2-pentanone        |                    | ug/l  | BDL      | BDL      |
| Styrene                     |                    | ug/l  | BDL      | BDL      |
| 1,1,1,2-Tetrachloroethane   |                    | ug/l  | BDL      | BDL      |
| 1,1,2,2-Tetrachloroethane   | 10.8               | ug/l  | BDL      | BDL      |
| t-1,4-Dichloro-2-butene     |                    | ug/l  | BDL      | BDL      |
| Tetrachloroethene           |                    | ug/l  | BDL      | BDL      |
| Toluene                     |                    | ug/l  | BDL      | BDL      |
| 1,1,1-Trichloroethane       |                    | ug/l  | BDL      | BDL      |
| 1,1,2-Trichloroethane       |                    | ug/l  | BDL      | BDL      |
| Tribromomethane             |                    | ug/l  | BDL      | BDL      |
| Trichloroethene             | 80.7               | ug/l  | BDL      | BDL      |
| Trichloromethane            |                    | ug/l  | BDL      | BDL      |
| Trichlorofluoromethane      |                    | ug/l  | BDL      | BDL      |
| 1,2,3-Trichloropropane      |                    | ug/l  | BDL      | BDL      |
| Vinyl acetate               |                    | ug/l  | BDL      | BDL      |
| Vinyl chloride              |                    | ug/l  | BDL      | BDL      |



| Analyte       | Location:          |       | SW-1     | SW-2     |
|---------------|--------------------|-------|----------|----------|
|               | Sample Identifier: |       | SW-1     | SW-2     |
|               | Date of Test:      |       | 02/18/05 | 02/18/05 |
|               | Standard(1)        | Units |          |          |
| Total xylenes |                    | ug/l  | BDL      | BDL      |

Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

Notes:

(1) Surface water standards presented in Chapter 62-302, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level.

(3) Cr less than or equal to  $e(0.819(\ln H)+0.6848)$

(4) Cu less than or equal to  $e(0.845(\ln H)-1.702)$

(5) Pb less than or equal to  $e(1.273(\ln H)-4.705)$

(6) Ni less than or equal to  $e(0.846(\ln H)+0.0584)$

(7) Zn less than or equal to  $e(0.8473(\ln H)+0.884)$

**Table 2-13 - Surface Water Analytical Summary**  
**Second Half 2005**

| Analyte                      | Location:          |           | SW-1      | SW-2      |
|------------------------------|--------------------|-----------|-----------|-----------|
|                              | Sample Identifier: |           | SW-1      | SW-2      |
|                              | Date of Test:      |           | 8/10/2005 | 8/10/2005 |
|                              | Standard(1)        | Units     |           |           |
| <b>Field Measurements</b>    |                    |           |           |           |
| Temperature                  |                    | deg. C    | 28.1      | 28.4      |
| pH                           |                    | STD       | 7.2       | 7.2       |
| Conductivity                 |                    | umhos/cm  | 450       | 501       |
| Dissolved Oxygen (DO)        | >5                 | mg/l      | 4.0       | 3.4       |
| Turbidity                    | 29                 | NTU       | 6.4       | 6.9       |
| <b>Inorganics</b>            |                    |           |           |           |
| Antimony                     | 4.3                | mg/l      | <0.0015   | <0.0015   |
| Arsenic                      | 0.05               | mg/l      | <0.007    | 0.034     |
| Barium                       |                    | mg/l      | 0.011     | 0.022     |
| Beryllium                    | 0.13               | mg/l      | <0.0002   | <0.0002   |
| Carbonaceous BOD             |                    | mg/l      | 3.75      | <2.00     |
| Cadmium                      | Note 2             | mg/l      | <0.0005   | <0.0005   |
| Chemical Oxygen Demand (COD) |                    | mg/l      | 56.1      | 72.0      |
| Chlorophyll A                |                    | mg/m3     | 2         | 46        |
| Chromium                     | Note 3             | mg/l      | <0.001    | <0.001    |
| Cobalt                       |                    | mg/l      | <0.001    | <0.001    |
| Copper                       | Note 4             | mg/l      | <0.005    | <0.005    |
| Fecal coliform               | 800                | cfu/100ml | 1800      | 380       |
| Iron                         | 1                  | mg/l      | 1.19      | 5.49      |
| Lead                         | Note 5             | mg/l      | <0.005    | <0.005    |
| Mercury                      | 12                 | ug/l      | <0.100    | <0.100    |
| Nickel                       | Note 6             | mg/l      | 0.002     | 0.001     |
| Nitrate                      |                    | mg/l      | 0.104     | <0.006    |
| Selenium                     | 0.005              | mg/l      | 0.0004    | 0.0004    |
| Silver                       | 0.07               | mg/l      | <0.002    | <0.002    |
| Thallium                     | 0.0063             | mg/l      | <0.0004   | <0.0004   |
| Total Dissolved Solids (TDS) |                    | mg/l      | 330       | 373       |
| Total Hardness               |                    | mg/l      | 110       | 134       |
| Total Nitrogen               |                    | mg/l      | 1.3       | 1.3       |
| Total Organic Carbon (TOC)   |                    | mg/l      | 19.3      | 19.7      |
| Total phosphorous            |                    | mg/l      | 0.432     | 0.706     |
| Total Suspended Solids (TSS) |                    | mg/l      | 6.00      | 280       |
| Unionized ammonia            | 0.02               | mg/l      | 0.0018    | 0.0008    |
| Vanadium                     |                    | mg/l      | 0.002     | 0.001     |
| Zinc                         | Note 7             | mg/l      | 0.019     | 0.019     |
| <b>Organics</b>              |                    |           |           |           |
| Acetone                      |                    | ug/l      | <9.9      | <9.9      |
| Acrylonitrile                |                    | ug/l      | <1.2      | <1.2      |
| Benzene                      |                    | ug/l      | <0.27     | <0.27     |

| Analyte                     | Location:          |       | SW-1      | SW-2      |
|-----------------------------|--------------------|-------|-----------|-----------|
|                             | Sample Identifier: |       | SW-1      | SW-2      |
|                             | Date of Test:      |       | 8/10/2005 | 8/10/2005 |
|                             | Standard(1)        | Units |           |           |
| Bromochloromethane          |                    | ug/l  | <0.58     | <0.58     |
| Bromodichloromethane        |                    | ug/l  | <0.35     | <0.35     |
| Carbon disulfide            |                    | ug/l  | <0.85     | <0.85     |
| Carbon tetrachloride        | 4.42               | ug/l  | <0.42     | <0.42     |
| Chlorobenzene               |                    | ug/l  | <0.63     | <0.63     |
| Chloroethane                |                    | ug/l  | <0.8      | <0.8      |
| Dibromomethane              |                    | ug/l  | <0.41     | <0.41     |
| Dibromochloromethane        |                    | ug/l  | <0.34     | <0.34     |
| 1,2-Dichlorobenzene         |                    | ug/l  | <0.44     | <0.44     |
| 1,4-Dichlorobenzene         |                    | ug/l  | <0.52     | <0.52     |
| Dichloromethane             | 1580               | ug/l  | <4.0      | <4.0      |
| 1,2-Dibromo-3-chloropropane |                    | ug/l  | <0.74     | <0.74     |
| 1,1-Dichloroethane          |                    | ug/l  | <0.52     | <0.52     |
| 1,2-Dichloroethane          |                    | ug/l  | <0.50     | <0.50     |
| 1,1-Dichloroethene          |                    | ug/l  | <0.45     | <0.45     |
| cis-1,2-Dichloroethene      | 3.2                | ug/l  | <0.65     | <0.65     |
| trans-1,2-Dichloroethene    |                    | ug/l  | <0.44     | <0.44     |
| 1,2-Dichloropropane         |                    | ug/l  | <0.52     | <0.52     |
| cis-1,3-Dichloropropene     |                    | ug/l  | <0.14     | <0.14     |
| trans-1,3-Dichloropropene   |                    | ug/l  | <0.14     | <0.14     |
| Ethylbenzene                |                    | ug/l  | <0.44     | <0.44     |
| Ethylene Dibromide          |                    | ug/l  | <0.57     | <0.57     |
| 2-Hexanone                  |                    | ug/l  | <4.4      | <4.4      |
| Iodomethane                 |                    | ug/l  | <0.67     | <0.67     |
| Methyl bromide              |                    | ug/l  | <0.66     | <0.66     |
| Chloromethane               |                    | ug/l  | <0.64     | <0.64     |
| 2-Butanone                  |                    | ug/l  | <8.4      | <8.4      |
| 4-Methyl-2-pentanone        |                    | ug/l  | <3.8      | <3.8      |
| Styrene                     |                    | ug/l  | <0.98     | <0.98     |
| 1,1,1,2-Tetrachloroethane   |                    | ug/l  | <0.63     | <0.63     |
| 1,1,2,2-Tetrachloroethane   | 10.8               | ug/l  | <0.14     | <0.14     |
| t-1,4-Dichloro-2-butene     |                    | ug/l  | <2.5      | <2.5      |
| Tetrachloroethene           |                    | ug/l  | <0.34     | <0.34     |
| Toluene                     |                    | ug/l  | <0.51     | <0.51     |
| 1,1,1-Trichloroethane       |                    | ug/l  | <0.46     | <0.46     |
| 1,1,2-Trichloroethane       |                    | ug/l  | <0.47     | <0.47     |
| Tribromomethane             |                    | ug/l  | <0.58     | <0.58     |
| Trichloroethene             | 80.7               | ug/l  | <0.28     | <0.28     |
| Trichloromethane            |                    | ug/l  | <0.90     | <0.90     |
| Trichlorofluoromethane      |                    | ug/l  | <0.98     | <0.98     |
| 1,2,3-Trichloropropane      |                    | ug/l  | <0.15     | <0.15     |
| Vinyl acetate               |                    | ug/l  | <1.5      | <1.5      |

| Analyte        | Location:          |       | SW-1      | SW-2      |
|----------------|--------------------|-------|-----------|-----------|
|                | Sample Identifier: |       | SW-1      | SW-2      |
|                | Date of Test:      |       | 8/10/2005 | 8/10/2005 |
|                | Standard(1)        | Units |           |           |
| Vinyl chloride |                    | ug/l  | <0.50     | <0.50     |
| Total xylenes  |                    | ug/l  | <0.30     | <0.30     |

Abbreviations: mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

Notes:

(1) Surface water standards presented in Chapter 62-302, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level.

(2) Ca less than or equal to  $e(0.7852(\ln H)-3.49)$

(3) Cr less than or equal to  $e(0.819(\ln H)+0.6848)$

(4) Cu less than or equal to  $e(0.845(\ln H)-1.702)$

(5) Pb less than or equal to  $e(1.273(\ln H)-4.705)$

(6) Ni less than or equal to  $e(0.846(\ln H)+0.0584)$

(7) Zn less than or equal to  $e(0.8473(\ln H)+0.884)$

**Table 2-14 - Surface Water Analytical Summary**  
**First Half 2006**

| Analyte                         | Location:          |           | SW-1     | SW-2     |
|---------------------------------|--------------------|-----------|----------|----------|
|                                 | Sample Identifier: |           | SW-1     | SW-2     |
|                                 | Date of Test:      |           | 02/27/06 | 02/27/06 |
|                                 | Standard(1)        | Units     |          |          |
| <b>Field Measurements</b>       |                    |           |          |          |
| Temperature                     |                    | deg. C    | 16.5     | 16.5     |
| pH                              |                    | STD       | 7.5      | 6.6      |
| Conductivity                    |                    | umhos/cm  | 580      | 390      |
| Dissolved Oxygen (DO)           | <5                 | mg/l      | 6.5      | 4        |
| Turbidity                       | 29                 | NTU       | 6.8      | 45       |
| <b>Inorganics</b>               |                    |           |          |          |
| Ammonia                         |                    | mg/l      | 0.047    | 0.067    |
| Antimony                        | 4.3                | mg/l      | ≤0.0015  | ≤0.0015  |
| Arsenic                         | 0.01               | mg/l      | ≤0.007   | 0.027    |
| Barium                          |                    | mg/l      | 0.012    | 0.016    |
| Beryllium                       | 0.13               | mg/l      | ≤0.0002  | ≤0.0002  |
| Biochemical Oxygen Demand (BOD) |                    | mg/l      | ≤2.00    | 2.03     |
| Cadmium                         | Note 2             | mg/l      | ≤0.0005  | ≤0.0005  |
| Calcium                         |                    | mg/l      | 45       | 28       |
| Chemical Oxygen Demand (COD)    |                    | mg/l      | 37.4     | 117      |
| Chlorophyll A                   |                    | mg/m3     | 9.3      | 11       |
| Chromium                        | Note 3             | mg/l      | ≤0.001   | ≤0.001   |
| Cobalt                          |                    | mg/l      | ≤0.001   | ≤0.001   |
| Copper                          | Note 4             | mg/l      | ≤0.005   | ≤0.005   |
| Fecal coliforms                 | 800                | cfu/100ml | 1050     | 5000     |
| Iron                            | 1                  | mg/l      | 0.374    | 7.06     |
| Lead                            | Note 5             | mg/l      | ≤0.005   | ≤0.005   |
| Magnesium                       |                    | mg/l      | 12.3     | 8.91     |
| Mercury                         | 0.012              | ug/l      | ≤0.0001  | ≤0.0001  |
| Nickel                          | Note 6             | mg/l      | 0.002    | 0.002    |
| Nitrate as N                    |                    | mg/l      | 0.024    | ≤0.006   |
| Selenium                        | 0.005              | mg/l      | 0.001    | 0.001    |
| Silver                          | 0.00007            | mg/l      | ≤0.002   | ≤0.002   |
| Thallium                        | 0.0063             | mg/l      | 0.001    | ≤0.0004  |
| Total Dissolved Solids (TDS)    |                    | mg/l      | 358      | 315      |
| Total Hardness                  |                    | mg/l      | 163      | 107      |
| Total Kjeldahl Nitrogen (TKN)   |                    | mg/l      | 0.833    | 1.85     |
| Total Nitrogen                  |                    | mg/l      | 0.879    | 1.85     |
| Total Organic Carbon (TOC)      |                    | mg/l      | 15.4     | 18.3     |
| Total Phosphate                 |                    | mg/l      | 0.199    | 0.252    |
| Total Suspended Solids (TSS)    |                    | mg/l      | 4.2      | 88       |
| Unionized ammonia               | 0.02               | mg/l      | 0.0005   | 0.0001   |
| Vanadium                        |                    | mg/l      | 0.003    | 0.001    |
| Zinc                            | Note 7             | mg/l      | 0.01     | 0.012    |
| <b>Organics</b>                 |                    |           |          |          |
| 1,1,1,2-Tetrachloroethane       |                    | ug/l      | <0.63    | <0.63    |
| 1,1,1-Trichloroethane           |                    | ug/l      | <0.46    | <0.46    |
| 1,1,2,2-Tetrachloroethane       | 10.8               | ug/l      | <0.14    | <0.14    |



| Analyte                   | Location:          |       | SW-1     | SW-2     |
|---------------------------|--------------------|-------|----------|----------|
|                           | Sample Identifier: |       | SW-1     | SW-2     |
|                           | Date of Test:      |       | 02/27/06 | 02/27/06 |
|                           | Standard(I)        | Units |          |          |
| 1,1,2-Trichloroethane     |                    | ug/l  | <0.47    | <0.47    |
| 1,1-Dichloroethane        |                    | ug/l  | <0.52    | <0.52    |
| 1,1-Dichloroethene        |                    | ug/l  | <0.45    | <0.45    |
| 1,2,3-Trichloropropane    |                    | ug/l  | <0.15    | <0.15    |
| 1,2-Dichlorobenzene       |                    | ug/l  | <0.44    | <0.44    |
| 1,2-Dichloroethane        |                    | ug/l  | <0.57    | <0.57    |
| 1,2-Dichloropropane       |                    | ug/l  | <0.52    | <0.52    |
| 1,4-Dichlorobenzene       |                    | ug/l  | <0.52    | <0.52    |
| 2-Butanone                |                    | ug/l  | <8.4     | <8.4     |
| 2-Hexanone                |                    | ug/l  | <4.4     | <4.4     |
| 4-Methyl-2-pentanone      |                    | ug/l  | <2.8     | <2.8     |
| Acetone                   |                    | ug/l  | <9.9     | <9.9     |
| Acrylonitrile             |                    | ug/l  | <1.2     | <1.2     |
| Benzene                   |                    | ug/l  | <0.27    | <0.27    |
| Bromochloromethane        |                    | ug/l  | <0.58    | <0.58    |
| Bromodichloromethane      |                    | ug/l  | <0.35    | <0.35    |
| Bromomethane              |                    | ug/l  | <0.66    | <0.66    |
| Carbon disulfide          |                    | ug/l  | <0.85    | <0.85    |
| Carbon tetrachloride      | 4.42               | ug/l  | <0.42    | <0.42    |
| Chlorobenzene             |                    | ug/l  | <0.63    | <0.63    |
| Chloroethane              |                    | ug/l  | <0.80    | <0.80    |
| Chloromethane             |                    | ug/l  | <0.64    | <0.64    |
| cis-1,2-Dichloroethene    | 3.2                | ug/l  | <0.65    | <0.65    |
| cis-1,3-Dichloropropene   |                    | ug/l  | <0.14    | <0.14    |
| Dibromochloromethane      |                    | ug/l  | <0.34    | <0.34    |
| Dibromochloropropane      |                    | ug/l  | <0.74    | <0.74    |
| Dibromomethane            |                    | ug/l  | <0.41    | <0.41    |
| Dichloromethane           | 1580               | ug/l  | <4.0     | <4.0     |
| Ethylbenzene              |                    | ug/l  | <0.44    | <0.44    |
| Ethylene dibromide        |                    | ug/l  | <0.50    | <0.50    |
| Iodomethane               |                    | ug/l  | <0.67    | <0.67    |
| Styrene                   |                    | ug/l  | <0.98    | <0.98    |
| t-1,4-Dichloro-2-butene   |                    | ug/l  | <2.5     | <2.5     |
| Tetrachloroethene         |                    | ug/l  | <0.34    | <0.34    |
| Toluene                   |                    | ug/l  | <0.51    | <0.51    |
| Total xylenes             |                    | ug/l  | <0.30    | <0.30    |
| trans-1,2-Dichloroethene  |                    | ug/l  | <0.44    | <0.44    |
| trans-1,3-Dichloropropene |                    | ug/l  | <0.14    | <0.14    |
| Tribromomethane           |                    | ug/l  | <0.58    | <0.58    |
| Trichloroethene           | 80.7               | ug/l  | <0.28    | <0.28    |
| Trichlorofluoromethane    |                    | ug/l  | <0.98    | <0.98    |
| Trichloromethane          |                    | ug/l  | <0.90    | <0.90    |
| Vinyl acetate             |                    | ug/l  | <1.5     | <1.5     |
| Vinyl chloride            |                    | ug/l  | <0.50    | <0.50    |

Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

Note (1) Surface water standards presented in Chapter 62-302, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level.

Note (3) Cr less than or equal to  $e(0.819(\ln H)+0.6848)$

Note (4) Cu less than or equal to  $e(0.845(\ln H)-1.702)$

Note (5) Pb less than or equal to  $e(1.273(\ln H)-4.705)$

Note (6) Ni less than or equal to  $e(0.846(\ln H)+0.0584)$

Note (7) Zn less than or equal to  $e(0.8473(\ln H)+0.884)$

**Table -15 - Surface Water Analytical Summary**  
**Second Half 2006**

| Analyte                      | Location:             |          | SW-1      | SW-2      |
|------------------------------|-----------------------|----------|-----------|-----------|
|                              | Sample Identifier:    |          | SW-1      | SW-2      |
|                              | Date of Test:         |          | 8/23/2006 | 8/23/2006 |
|                              | Standard(1)           | Units    |           |           |
| <b>Field Measurements</b>    |                       |          |           |           |
| Temperature                  |                       | deg. C   | 25.6      | 27.3      |
| pH                           | 6-8.5                 | STD      | 6.6       | 6.6       |
| Conductivity                 | 1275                  | umhos/cm | 305       | 212       |
| Dissolved Oxygen (DO)        | >5                    | mg/l     | 4.4       | 4.3       |
| Turbidity                    | 29+                   | NTU      | 12        | 6.5       |
| <b>Inorganics</b>            |                       |          |           |           |
| Antimony                     | 4300                  | ug/l     | <1.5      | <1.5      |
| Arsenic                      | 50                    | ug/l     | <7.0      | 10        |
| Barium                       |                       | ug/l     | 10        | 14        |
| Beryllium                    | 0.13                  | ug/l     | <0.2      | <0.2      |
| Carbonaceous BOD             |                       | ug/l     | <2000     | 3850      |
| Cadmium                      | 0.836 <sup>(2)</sup>  | ug/l     | <0.5      | <0.5      |
| Chemical Oxygen Demand (COD) |                       | ug/l     | 84300     | 182000    |
| Chlorophyll A                |                       | mg/m3    | 6.9       | 29        |
| Chromium                     | 62.688 <sup>(3)</sup> | ug/l     | 2.0       | 2.0       |
| Cobalt                       |                       | ug/l     | <1.0      | <1.0      |
| Copper                       | 6.693 <sup>(4)</sup>  | ug/l     | <5.0      | 6         |
| Fecal coliform               | 800                   | cfu/ml   | 480       | 300       |
| Iron                         | 1000                  | ug/l     | 2480      | 4870      |
| Lead                         | 1.94 <sup>(5)</sup>   | ug/l     | <5.0      | <5.0      |
| Mercury                      | 0.012                 | ug/l     | <100      | <100      |
| Nickel                       | 37.548 <sup>(6)</sup> | ug/l     | <1.0      | <1.0      |
| Nitrate                      |                       | ug/l     | 32        | 19        |
| Selenium                     | 5                     | ug/l     | 1         | 1         |
| Silver                       | 0.07                  | ug/l     | <2.0      | <2.0      |
| Thallium                     | 6.3                   | ug/l     | <0.4      | <0.4      |
| Total Dissolved Solids (TDS) |                       | ug/l     | 241000    | 183000    |
| Total Hardness               |                       | mg/l     | 92.7      | 67.8      |
| Total Nitrogen               |                       | ug/l     | 1450      | 3660      |
| Total Organic Carbon (TOC)   |                       | ug/l     | 30800     | 38700     |
| Total phosphate              |                       | ug/l     | 859       | 1970      |
| Total Suspended Solids (TSS) |                       | mg/l     | 7.17      | 6.13      |
| Unionized ammonia            | 20                    | ug/l     | 0.3       | 0.2       |
| Vanadium                     |                       | ug/l     | 2.0       | 3.0       |
| Zinc                         | 86.202 <sup>(7)</sup> | ug/l     | 14        | 27        |
| <b>Organics</b>              |                       |          |           |           |
| Acetone                      |                       | ug/l     | <9.9      | <9.9      |
| Acrylonitrile                |                       | ug/l     | <1.2      | <1.2      |
| Benzene                      | 71.28                 | ug/l     | <0.50     | <0.50     |

| Analyte                     | Location:          |       | SW-1      | SW-2      |
|-----------------------------|--------------------|-------|-----------|-----------|
|                             | Sample Identifier: |       | SW-1      | SW-2      |
|                             | Date of Test:      |       | 8/23/2006 | 8/23/2006 |
|                             | Standard(1)        | Units |           |           |
| Bromochloromethane          |                    | ug/l  | <0.58     | <0.58     |
| Bromodichloromethane        | 22                 | ug/l  | <0.35     | <0.35     |
| Carbon disulfide            |                    | ug/l  | <0.85     | <0.85     |
| Carbon tetrachloride        | 4.42               | ug/l  | <0.42     | <0.42     |
| Chlorobenzene               |                    | ug/l  | <0.63     | <0.63     |
| Chloroethane                |                    | ug/l  | <2.5      | <2.5      |
| Dibromomethane              |                    | ug/l  | <0.41     | <0.41     |
| Dibromochloromethane        | 34                 | ug/l  | <0.34     | <.34      |
| 1,2-Dichlorobenzene         |                    | ug/l  | <0.44     | <0.44     |
| 1,4-Dichlorobenzene         |                    | ug/l  | <0.52     | <0.52     |
| Dichloromethane             | 1580               | ug/l  | <4.0      | <4.0      |
| 1,2-Dibromo-3-chloropropane |                    | ug/l  | <2.5      | <2.5      |
| 1,1-Dichloroethane          |                    | ug/l  | <0.52     | <0.52     |
| 1,2-Dichloroethane          |                    | ug/l  | <0.57     | <0.57     |
| 1,1-Dichloroethene          | 3.2                | ug/l  | <0.45     | <0.45     |
| cis-1,2-Dichloroethene      |                    | ug/l  | <0.65     | <0.65     |
| trans-1,2-Dichloroethene    |                    | ug/l  | <0.44     | <0.44     |
| 1,2-Dichloropropane         |                    | ug/l  | <0.52     | <0.52     |
| cis-1,3-Dichloropropene     |                    | ug/l  | <0.14     | <0.14     |
| trans-1,3-Dichloropropene   |                    | ug/l  | <0.14     | <0.14     |
| Ethylbenzene                |                    | ug/l  | <0.44     | <0.44     |
| 2-Hexanone                  |                    | ug/l  | <4.4      | <4.4      |
| Iodomethane                 |                    | ug/l  | <2.5      | <2.5      |
| Methyl bromide              |                    | ug/l  | <2.5      | <2.5      |
| Chloromethane               | 470.8              | ug/l  | <1.0      | <1.0      |
| 2-Butanone                  |                    | ug/l  | <8.4      | <8.4      |
| 4-Methyl-2-pentanone        |                    | ug/l  | <3.8      | <3.8      |
| Styrene                     |                    | ug/l  | <0.98     | <0.98     |
| 1,1,1,2-Tetrachloroethane   |                    | ug/l  | <0.63     | <0.63     |
| 1,1,2,2-Tetrachloroethane   | 10.8               | ug/l  | <0.14     | <0.14     |
| t-1,4-Dichloro-2-butene     |                    | ug/l  | <2.5      | <2.5      |
| Tetrachloroethene           |                    | ug/l  | <0.50     | <0.50     |
| Toluene                     |                    | ug/l  | <0.51     | <0.51     |
| 1,1,1-Trichloroethane       |                    | ug/l  | <0.46     | <0.46     |
| 1,1,2-Trichloroethane       |                    | ug/l  | <0.47     | <0.47     |
| Tribromomethane             | 360                | ug/l  | 0.58      | 0.58      |
| Trichloroethene             | 80.7               | ug/l  | <0.50     | <0.50     |
| Trichloromethane            | 470.8              | ug/l  | <0.90     | <0.90     |
| Trichlorofluoromethane      |                    | ug/l  | <2.5      | <2.5      |
| 1,2,3-Trichloropropane      |                    | ug/l  | <0.15     | <0.15     |
| Vinyl acetate               |                    | ug/l  | <1.5      | <1.5      |

| Analyte        | Location:          |       | SW-1      | SW-2      |
|----------------|--------------------|-------|-----------|-----------|
|                | Sample Identifier: |       | SW-1      | SW-2      |
|                | Date of Test:      |       | 8/23/2006 | 8/23/2006 |
|                | Standard(1)        | Units |           |           |
| Vinyl chloride |                    | ug/l  | <0.50     | <0.50     |
| Total xylenes  |                    | ug/l  | <0.50     | <0.50     |

Abbreviations: mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

(1) Surface water standards presented in Chapter 62-302, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level. The lowest hardness value was used to calculate standards below.

(2) Cd less than or equal to  $e(0.7852(\text{InH})-3.49)$

(3) Cr less than or equal to  $e(0.819(\text{InH})+0.6848)$

(4) Cu less than or equal to  $e(0.845(\text{InH})-1.702)$

(5) Pb less than or equal to  $e(1.273(\text{InH})-4.705)$

(6) Ni less than or equal to  $e(0.846(\text{InH})+0.0584)$

(7) Zn less than or equal to  $e(0.8473(\text{InH})+0.884)$

**TABLE 3-1**  
**SUMMARY OF WATER QUALITY DATA TRENDS**  
**LENA ROAD LANDFILL**  
**May 2007 Biennial Report**

| Parameter                                                                                                                   | Trend<br>in<br>Concentration | Comments                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Leachate</b>                                                                                                             |                              |                                                                                                                                                                      |
| Inorganics                                                                                                                  | Steady                       | Various detected during every sampling event.                                                                                                                        |
| 1,1-dichloroethane, 1,4-dichlorobenzene, benzene, ethylbenzene, toluene, xylene, vinyl chloride, sulfide, and chlorobenzene | Decreasing                   | Number of detections decreased during latter part of review period.                                                                                                  |
| <b>Groundwater</b>                                                                                                          |                              |                                                                                                                                                                      |
| PH                                                                                                                          | Steady                       | PH was lower than SDWS at most wells in both networks throughout review period.                                                                                      |
| Iron                                                                                                                        | Steady                       | Concentration of iron was higher than SDWS at most wells in both networks throughout review period.                                                                  |
| Arsenic                                                                                                                     | Steady                       | Arsenic concentration exceeded the MCL in several wells of both networks.                                                                                            |
| TDS                                                                                                                         | Steady                       | TDS concentration was consistently higher than the MCL at several wells in both networks during review period, and occasionally exceeded MCL at several other wells. |
| <b>Surface Water</b>                                                                                                        |                              |                                                                                                                                                                      |
| Iron                                                                                                                        | Steady                       | Concentration exceeded the SWCTL at both sampling events during the most of the sampling events during the review period.                                            |
| Fecal coliform                                                                                                              | Erratic                      | Detected at SW-2 at concentrations in excess of SWCTL during most sampling events; exceeded the SWCTL at SW-1 during two sampling events.                            |
| Dissolved oxygen (DO)                                                                                                       | Erratic                      | Generally lower than the prescribed range at point sampling points during second half of the year sampling events.                                                   |

MCL = Maximum Contaminant Level. SWCTL = Surface Water Cleanup Target Level.  
SDWS = Secondary Drinking Water Standard.

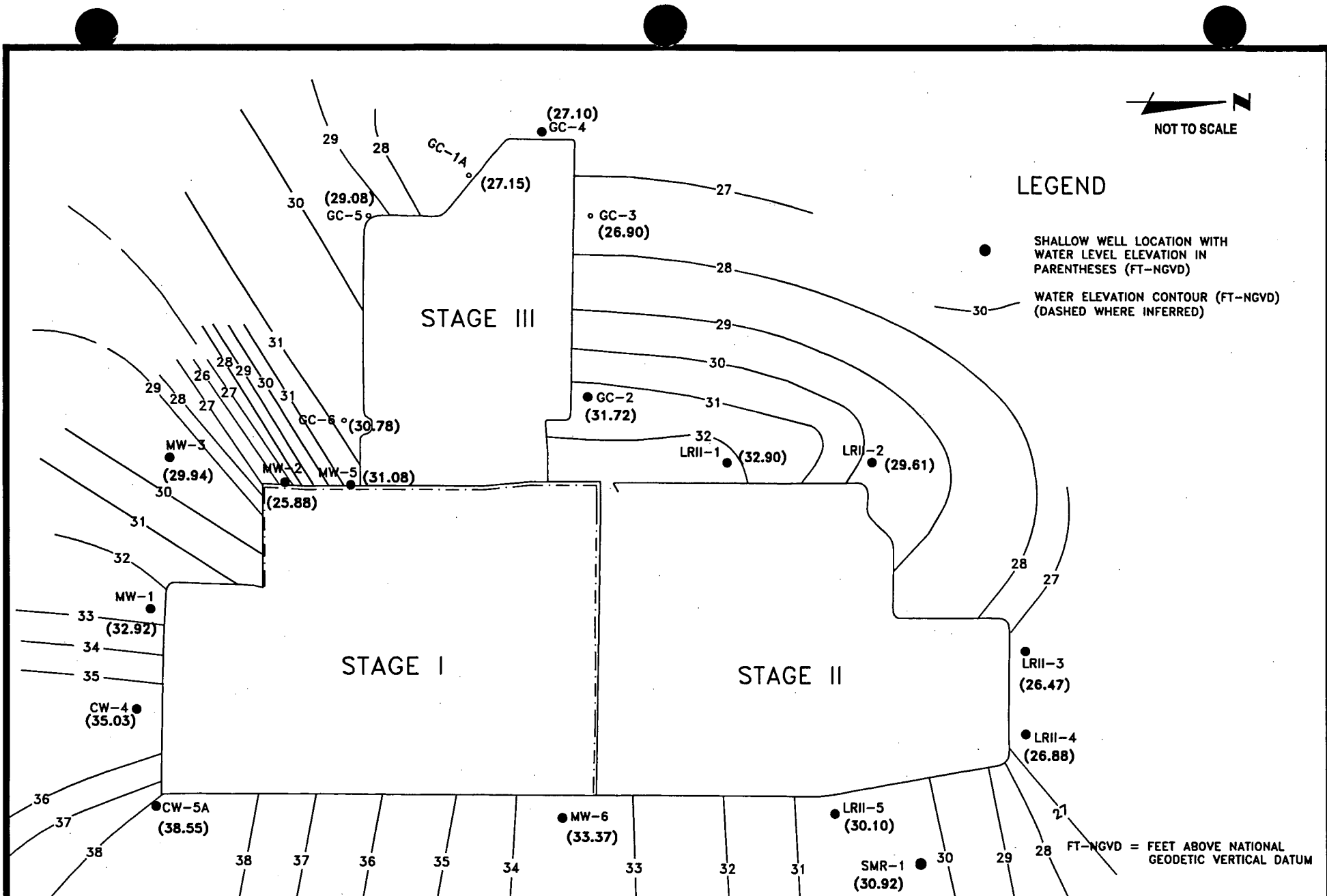


**TABLE 4-1**  
**RAINFALL DURING REVIEW PERIOD**  
**LENA ROAD LANDFILL**

| <b>MONTH</b>     | <b>AVERAGE<br/>RAINFALL<br/>(inches)</b> | <b>2004<br/>RAINFALL<br/>(inches)</b> | <b>2005<br/>RAINFALL<br/>(inches)</b> | <b>2006<br/>RAINFALL<br/>(inches)</b> |
|------------------|------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| <b>JANUARY</b>   | 2.09                                     | 1.72                                  | 1.51                                  | 1.78                                  |
| <b>FEBRUARY</b>  | 2.91                                     | 4.48                                  | 4.89                                  | 2.09                                  |
| <b>MARCH</b>     | 3.15                                     | 0.61                                  | 5.34                                  | 1.07                                  |
| <b>APRIL</b>     | 2.31                                     | 3.30                                  | 4.57                                  | 0.21                                  |
| <b>MAY</b>       | 2.81                                     | 0.55                                  | 3.92                                  | 1.51                                  |
| <b>JUNE</b>      | 6.67                                     | 8.08                                  | 10.15                                 | 8.15                                  |
| <b>JULY</b>      | 7.30                                     | 9.14                                  | 8.35                                  | 9.49                                  |
| <b>AUGUST</b>    | 8.70                                     | 10.25                                 | 4.47                                  | 9.79                                  |
| <b>SEPTEMBER</b> | 8.50                                     | 13.04                                 | 1.38                                  | 11.62                                 |
| <b>OCTOBER</b>   | 3.20                                     | 0.90                                  | 4.00                                  | 1.80                                  |
| <b>NOVEMBER</b>  | 1.80                                     | 3.07                                  | 2.81                                  | 1.06                                  |
| <b>DECEMBER</b>  | 2.30                                     | 3.36                                  | 0.87                                  | 1.82                                  |
| <b>TOTAL</b>     | <b>51.74</b>                             | <b>58.50</b>                          | <b>52.26</b>                          | <b>50.39</b>                          |

## FIGURES

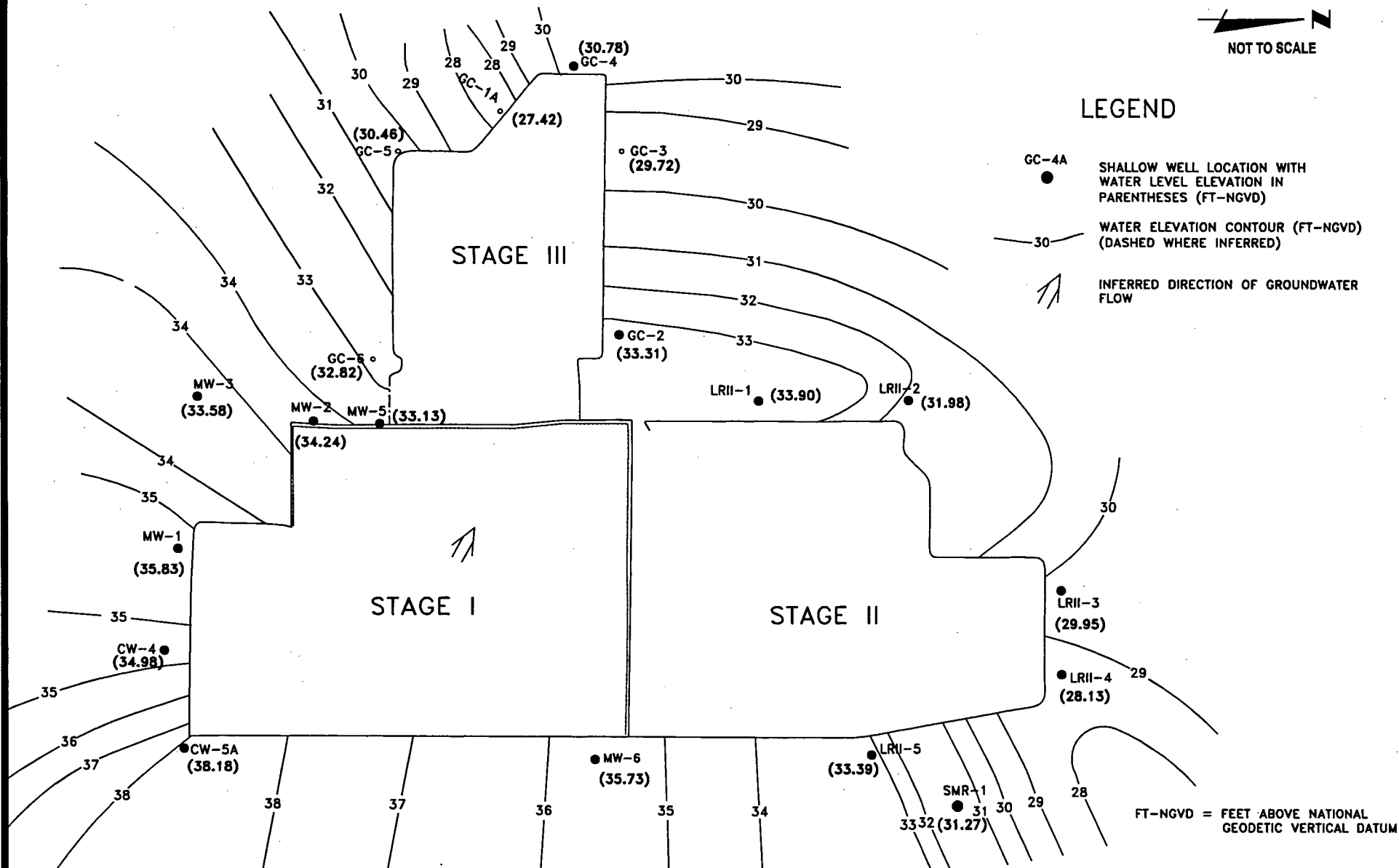




LENA ROAD LANDFILL  
3333 LENA ROAD  
BRADENTON, MANATEE COUNTY, FLORIDA

GROUNDWATER ELEVATION CONTOUR MAP,  
SURFICIAL AQUIFER - FIRST HALF, 2004

FIG. 4-1

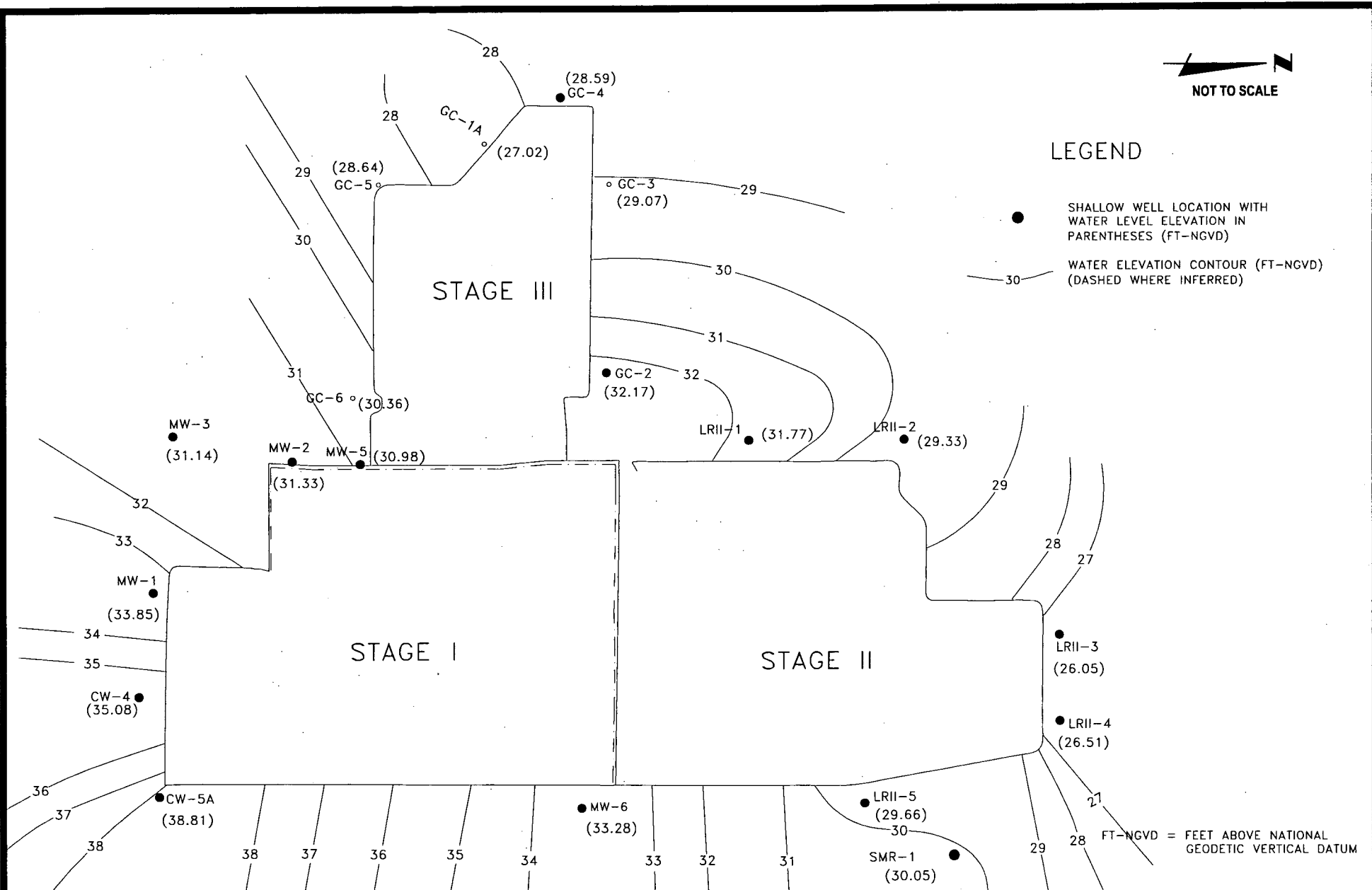


LENA ROAD LANDFILL  
3333 LENA ROAD  
BRADENTON, MANATEE COUNTY, FLORIDA

GROUNDWATER ELEVATION CONTOUR MAP,  
SURFICIAL AQUIFER - SECOND HALF, 2004

FIG. 4-2





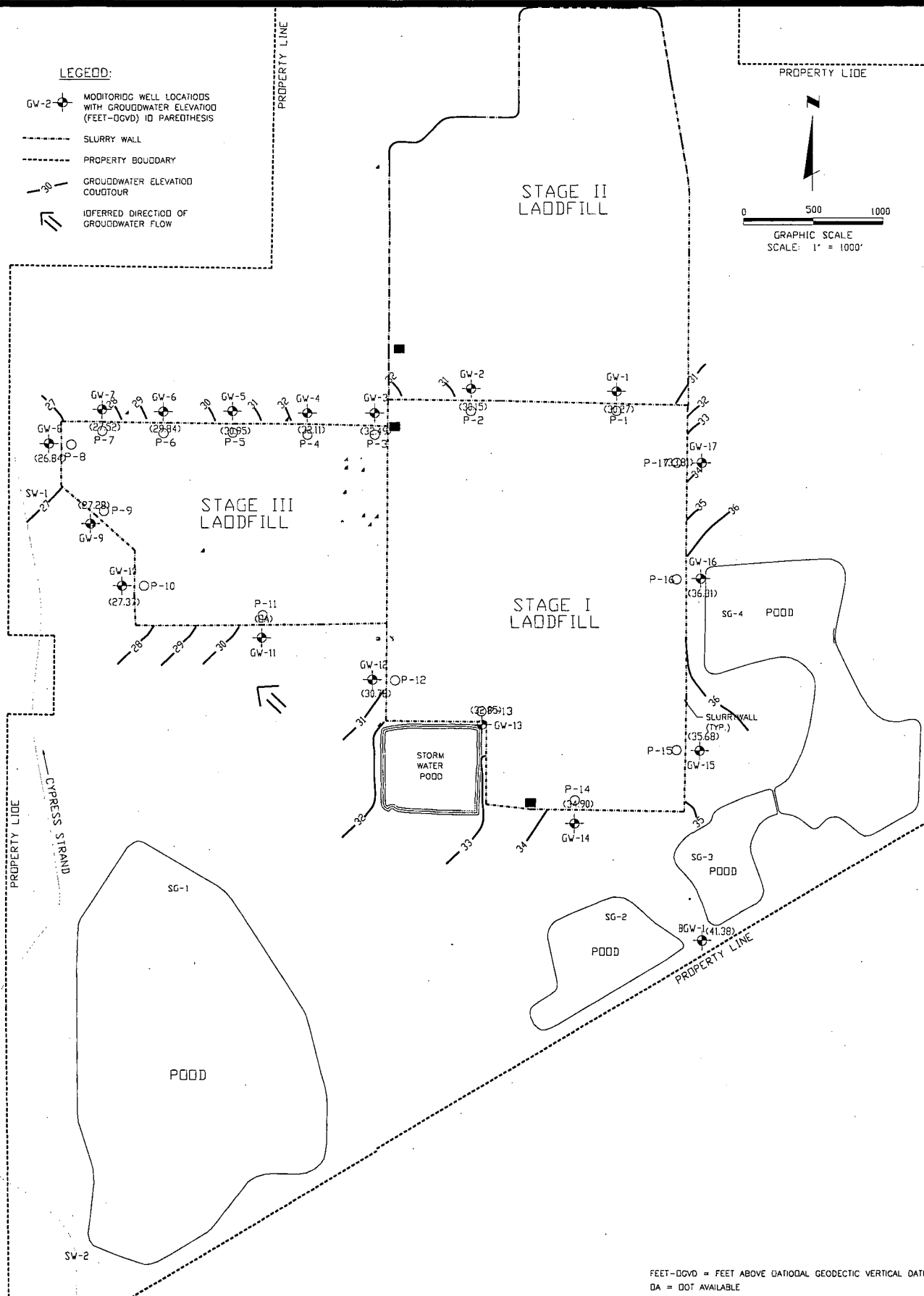
LEGEND:

- GW-2 MODIFIED WELL LOCATIONS WITH GROUNDWATER ELEVATION (FEET-DGVD) IN PARETHESIS
- SLURRY WALL
- PROPERTY BOUNDARY
- GROUNDWATER ELEVATION CONTOUR
- INFERRED DIRECTION OF GROUNDWATER FLOW

PROPERTY LINE



0 500 1000  
GRAPHIC SCALE  
SCALE: 1" = 1000'



FEET-DGVD = FEET ABOVE DATUM  
DA = DATUM AVAILABLE



LENA ROAD LANDFILL  
MANATEE COUNTY, FLORIDA

GROUNDWATER ELEVATION  
CONTOUR MAP  
FIRST HALF 2006

FIG. 4-4

**LEGEND:**

GW-2 MODIFIED WELL LOCATIONS  
WITH WATER TABLE ELEVATION  
(FEET-OGVD) IN PARENTHESES

SLURRY WALL

PROPERTY BOUNDARY

WATER TABLE ELEVATION  
CONTOUR (DASHED WHERE  
INTERFERED)

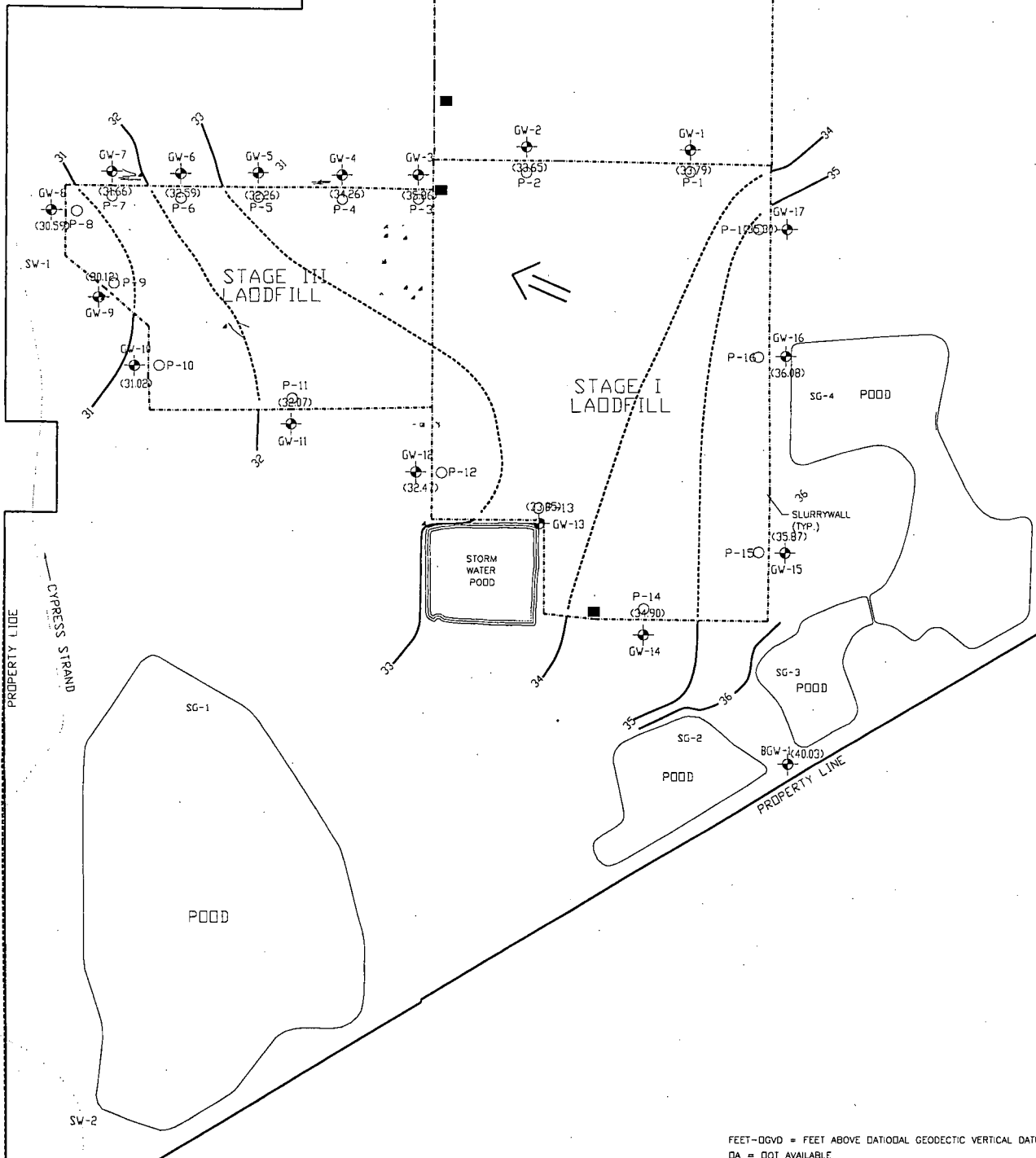
INTERFERED DIRECTION OF  
GROUNDWATER FLOW

PROPERTY LINE



0 500 1000

GRAPHIC SCALE  
SCALE: 1" = 1000'



FEET-OGVD = FEET ABOVE DATUMAL GEODECTIC VERTICAL DATUM  
DA = DAT AVAILABLE



LENA ROAD LANDFILL  
MANATEE COUNTY, FLORIDA

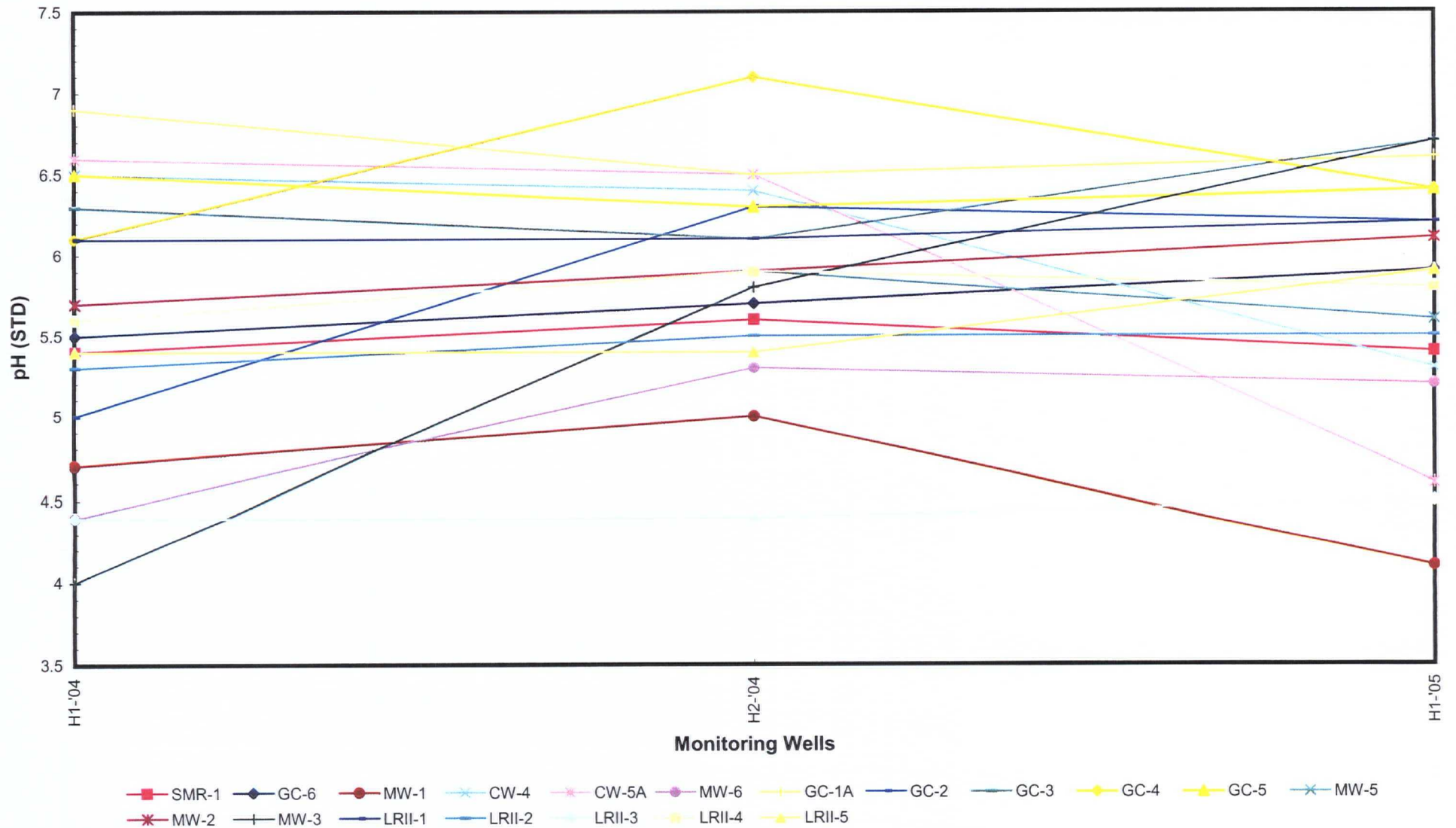
GROUNDWATER ELEVATION  
CONTOUR MAP  
SECOND HALF 2006

FIG. 4-5

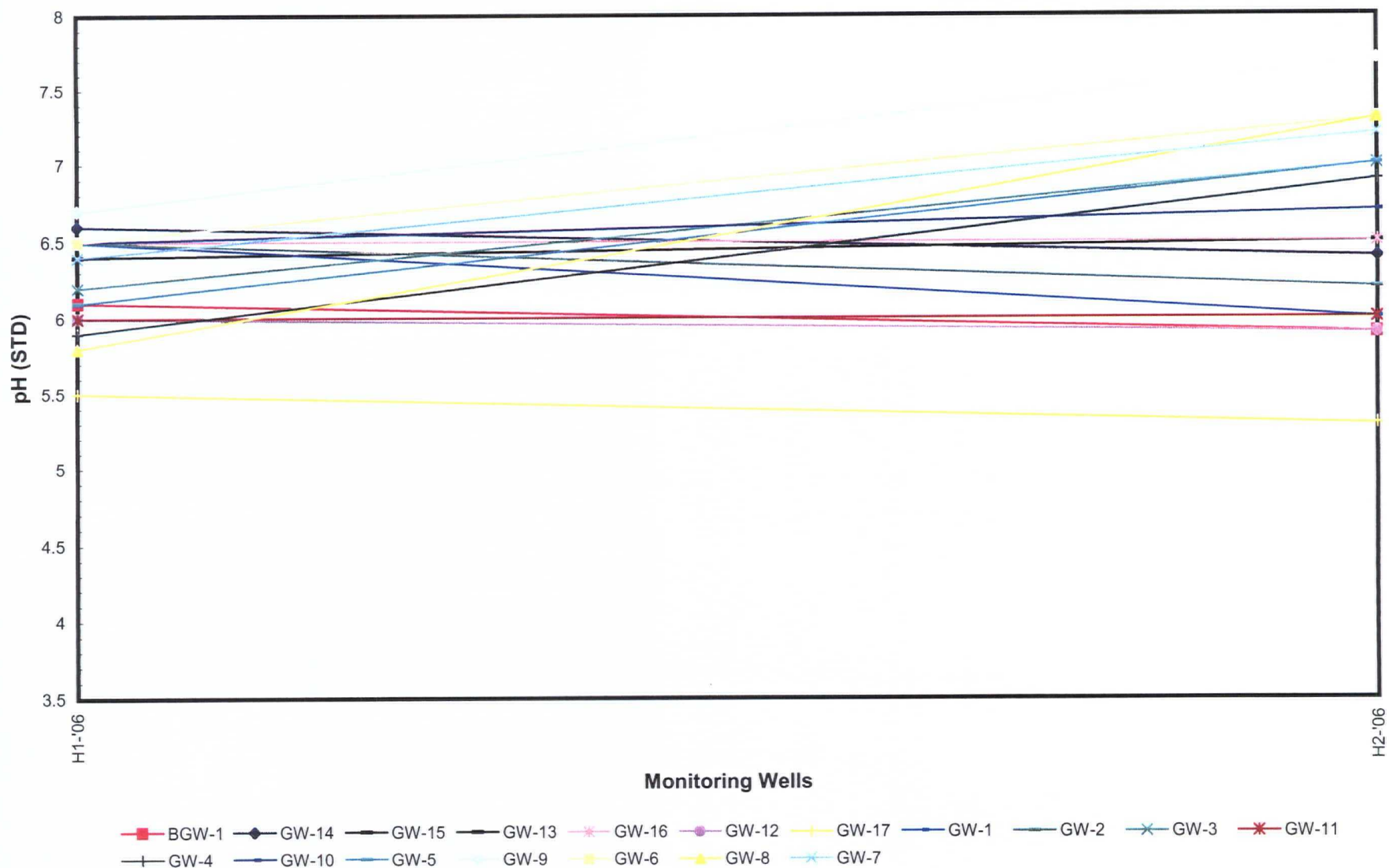
## **APPENDIX A**

### **Parameter Concentration Graphs**

# pH Concentration Trend Graph, Old Network

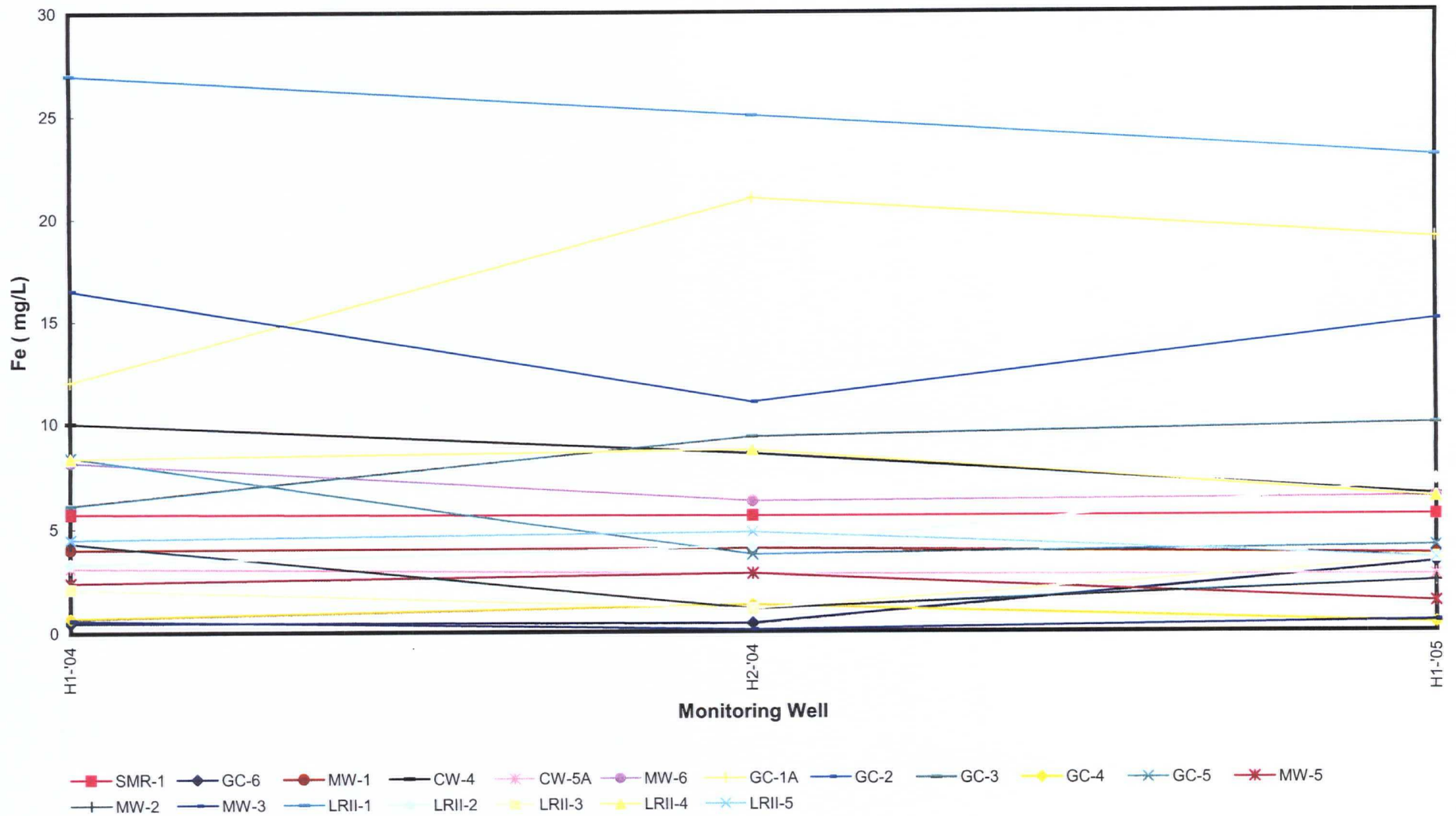


# pH Concentration Trend Graph, New Network

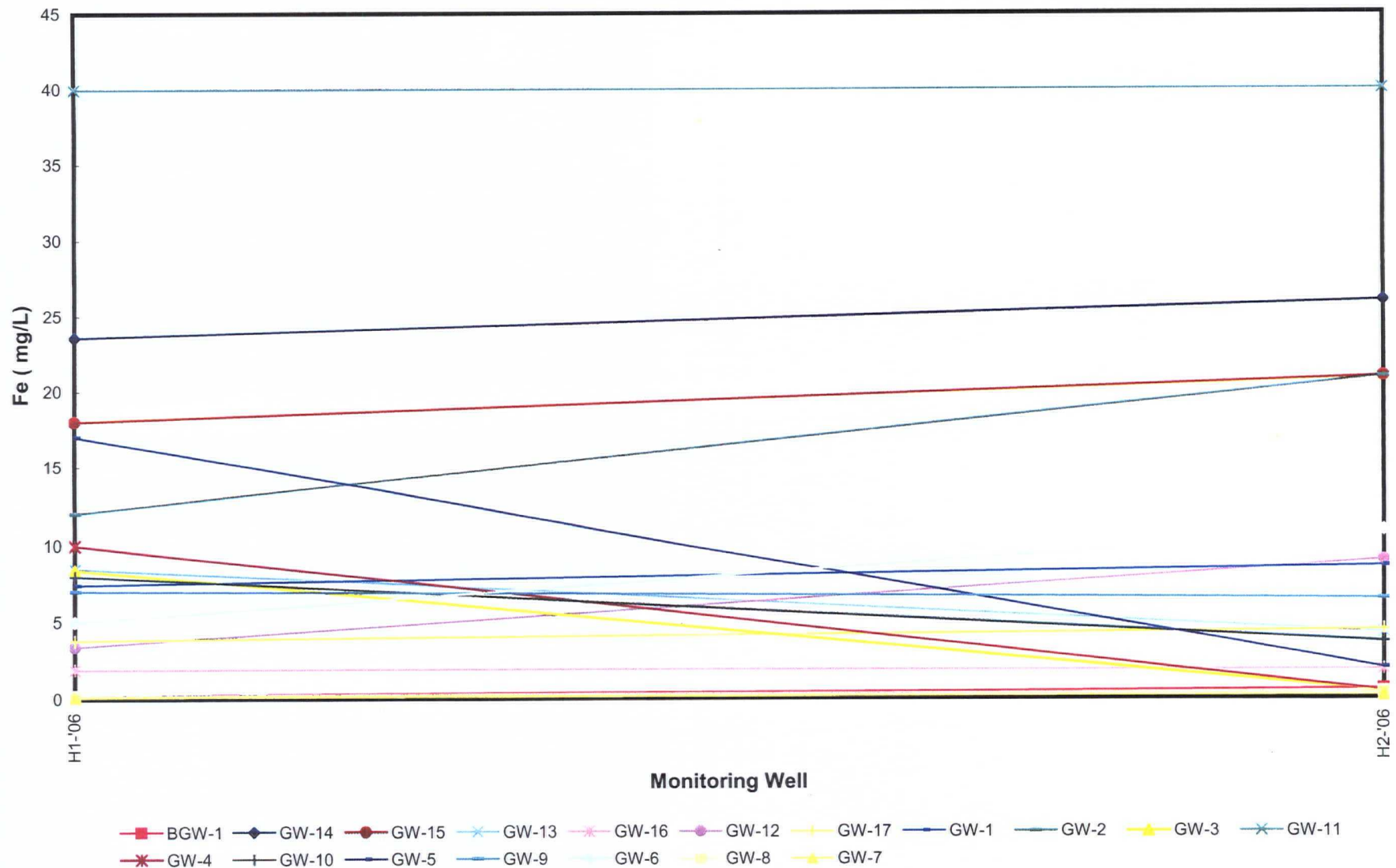




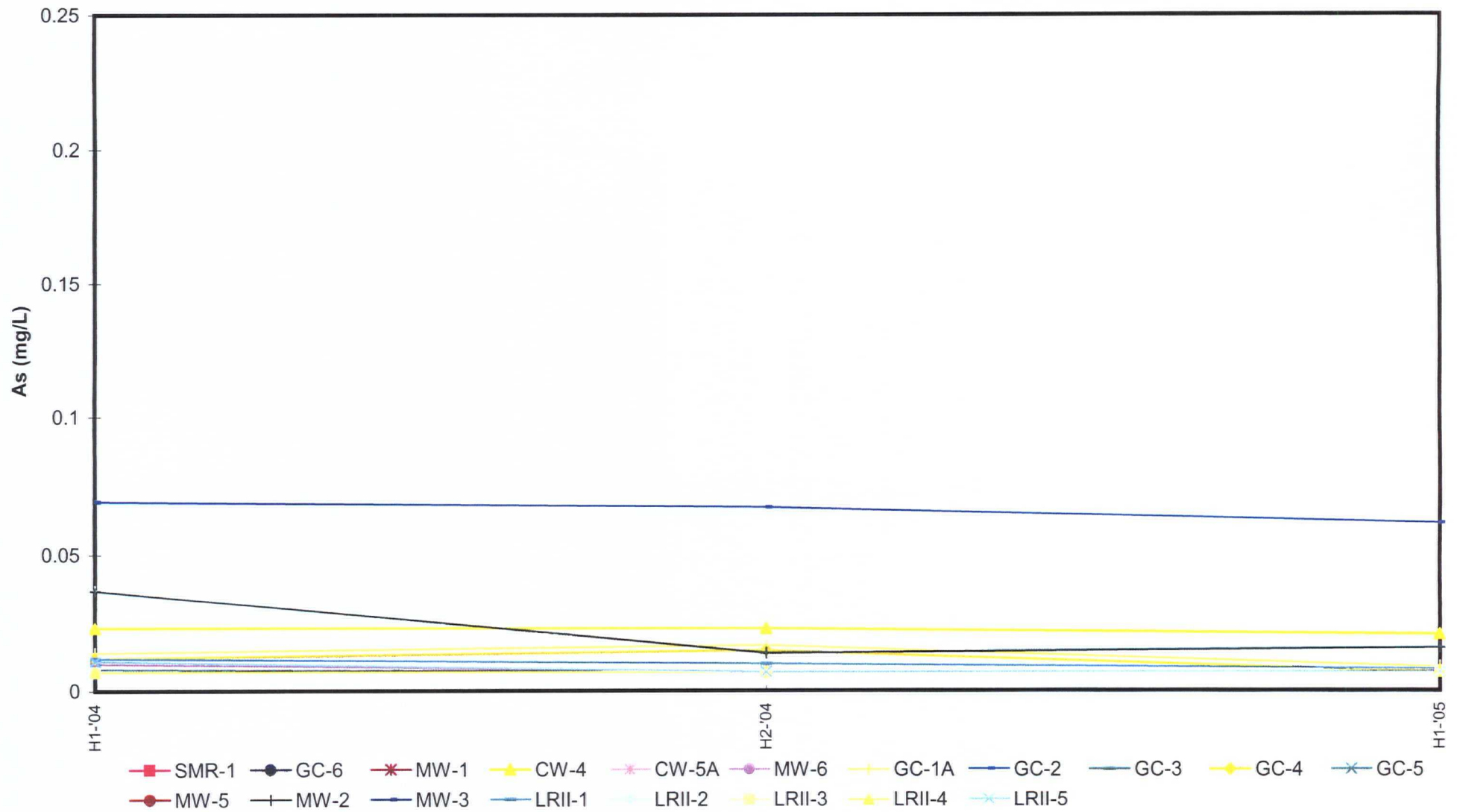
# Iron Concentration Trend Graph, Old Network



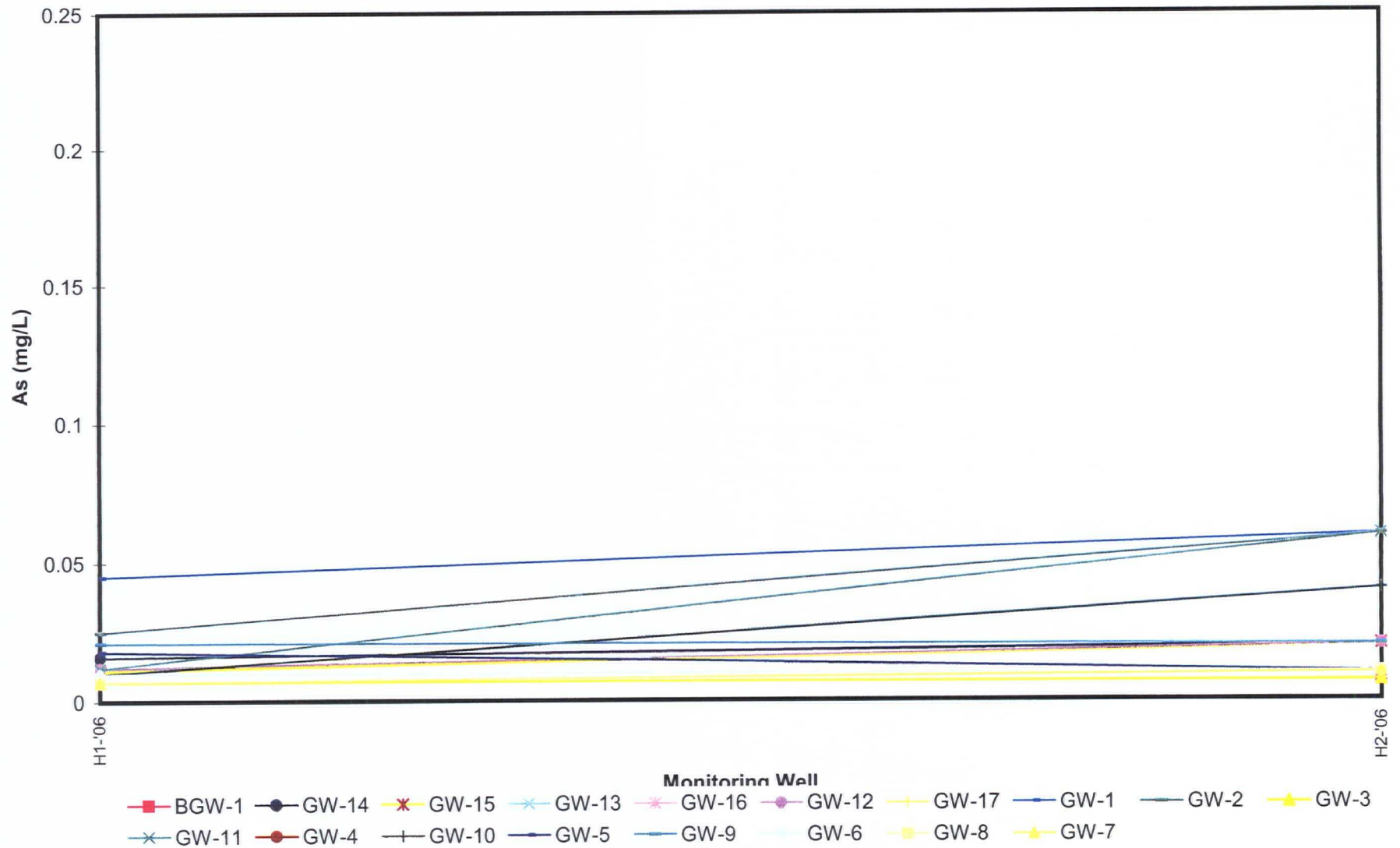
# Iron Concentration Trend Graph, New Network



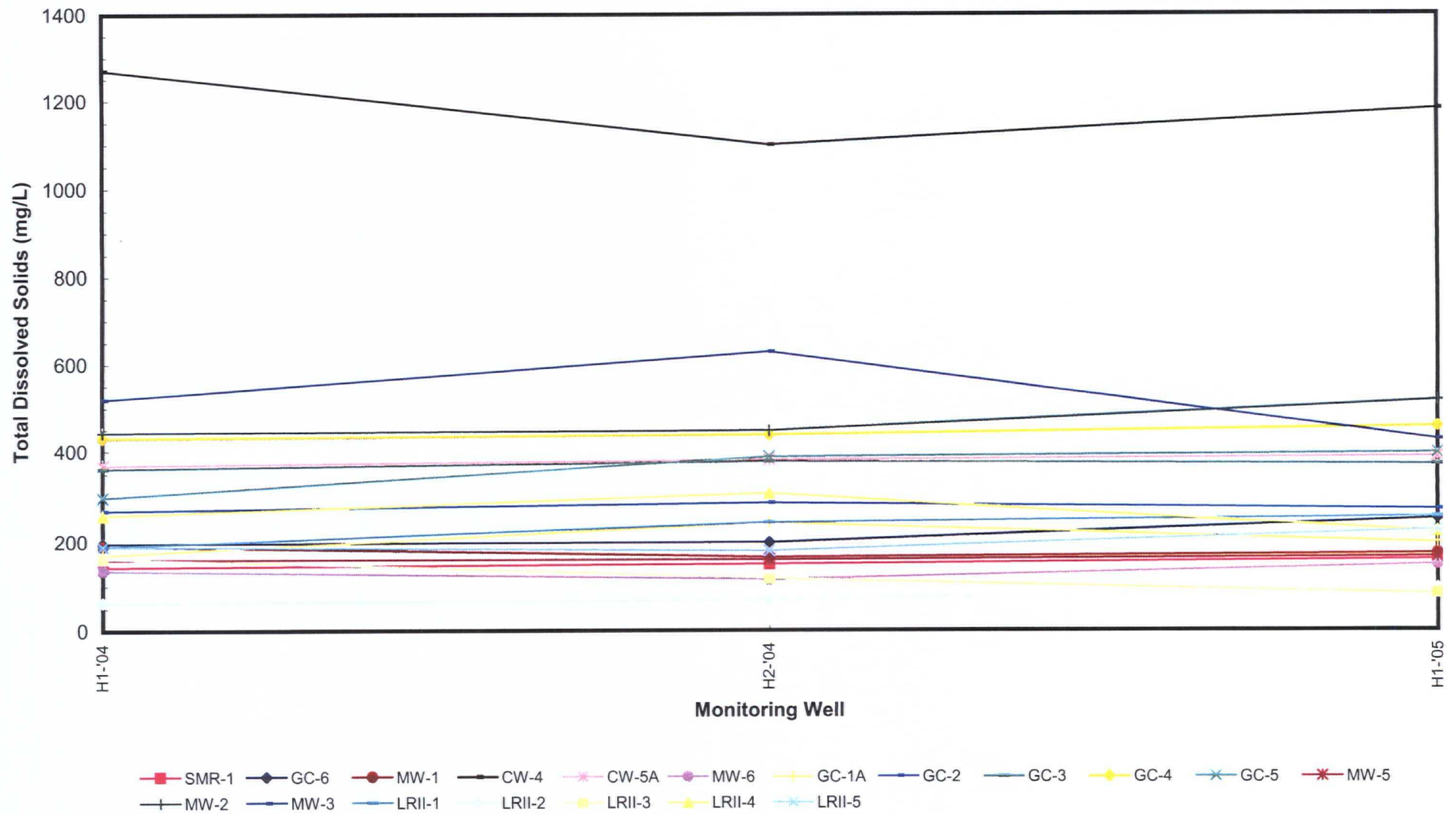
# Arsenic Concentration Trend Graph, Old Network



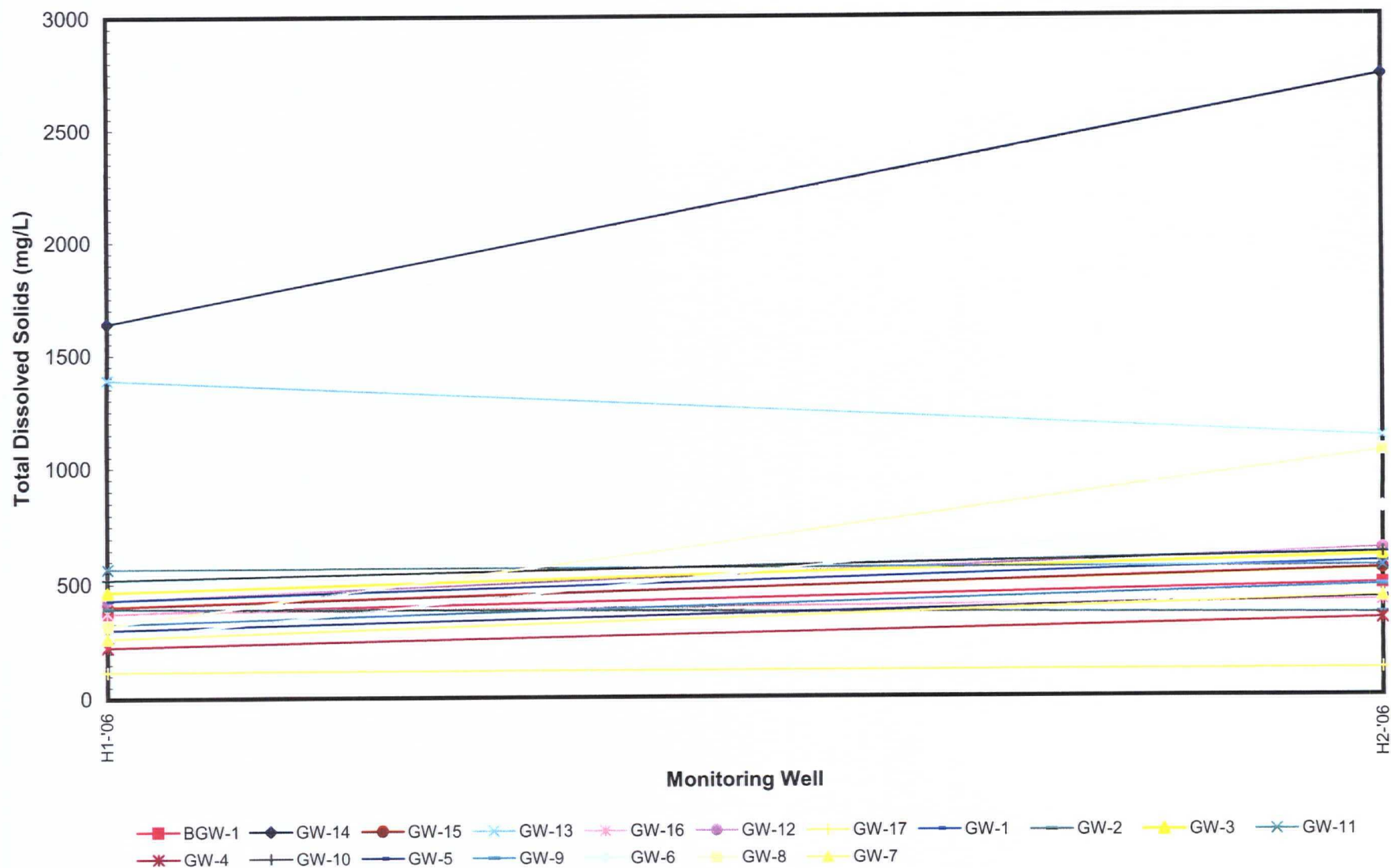
# Arsenic Concentration Trend Graph, New Network



# TDS Concentration Trend Graph, Old Network



# TDS Concentration Trend Graph, New Network



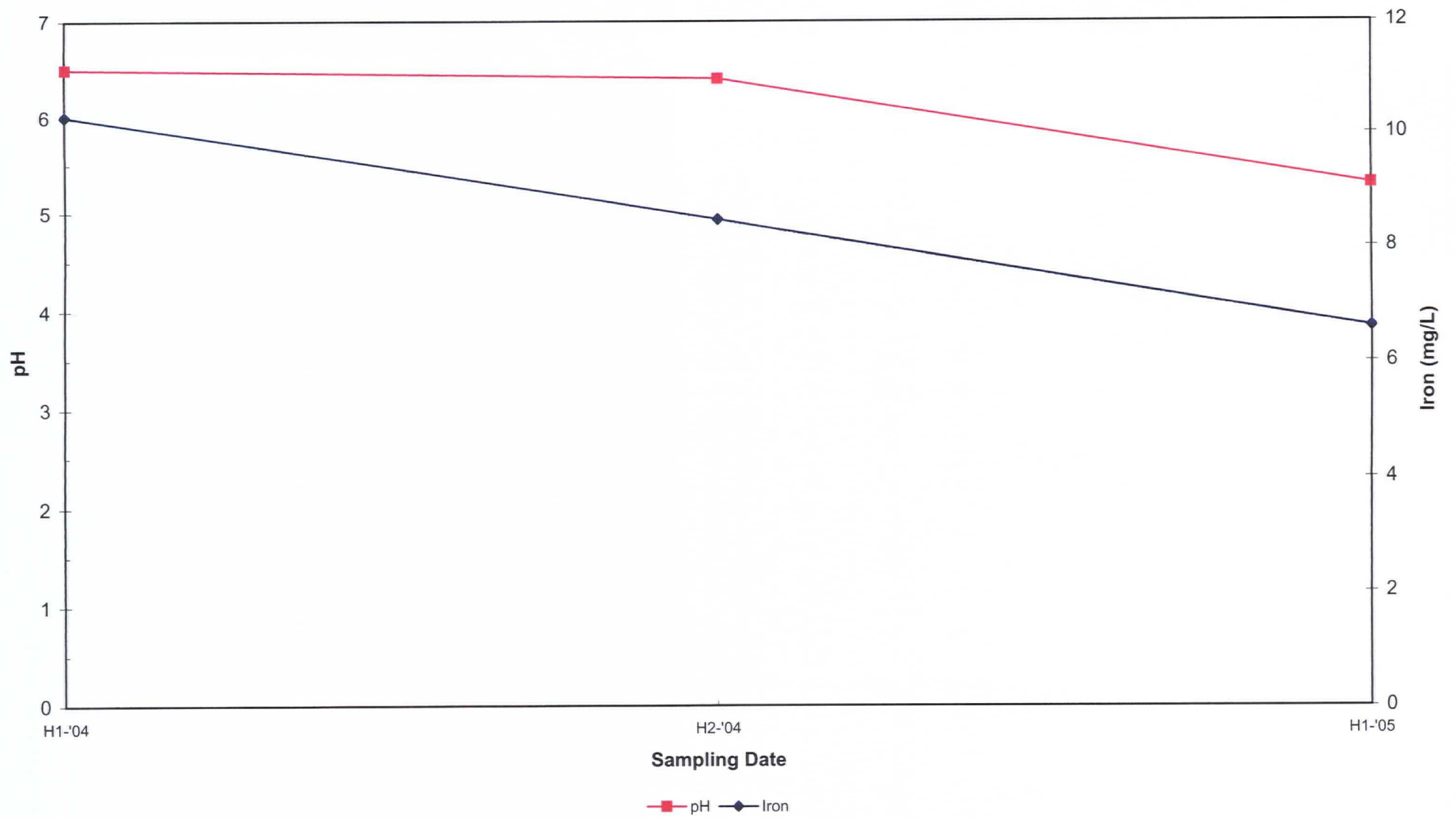


## **APPENDIX B**

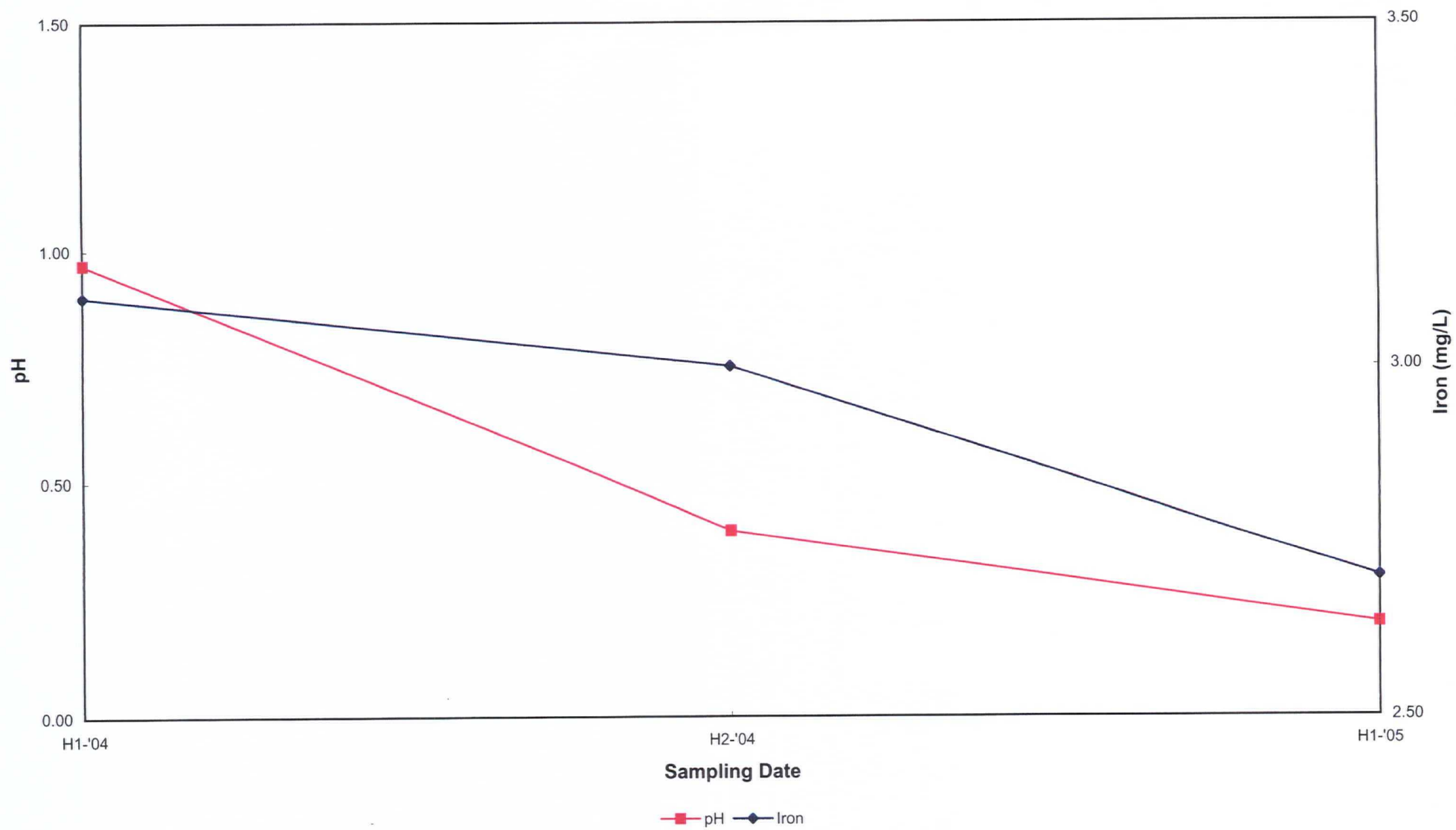
### **Related Parameter Correlation Graphs**

**B-1 – pH versus Iron**

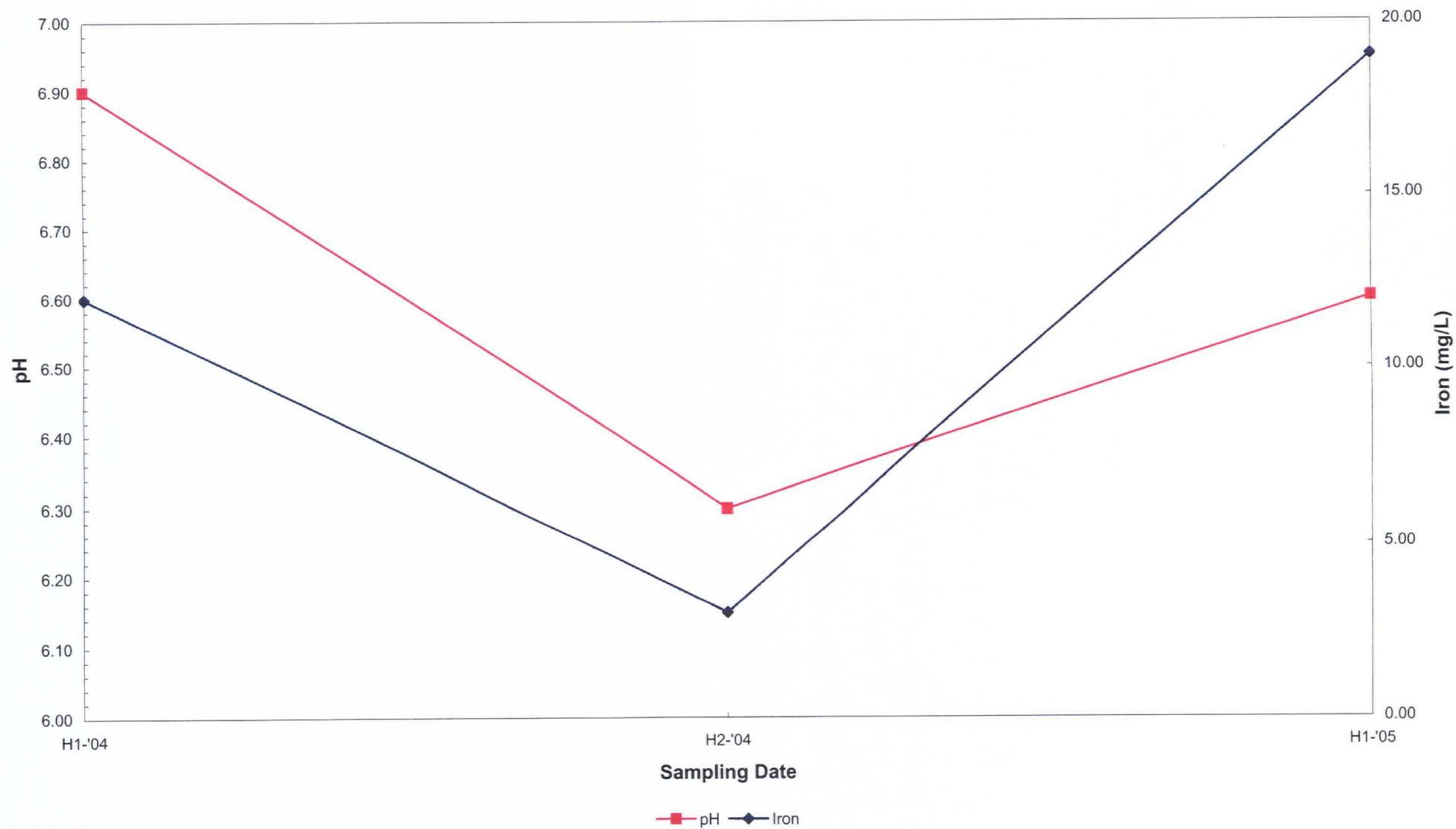
# Monitoring Well CW- 4



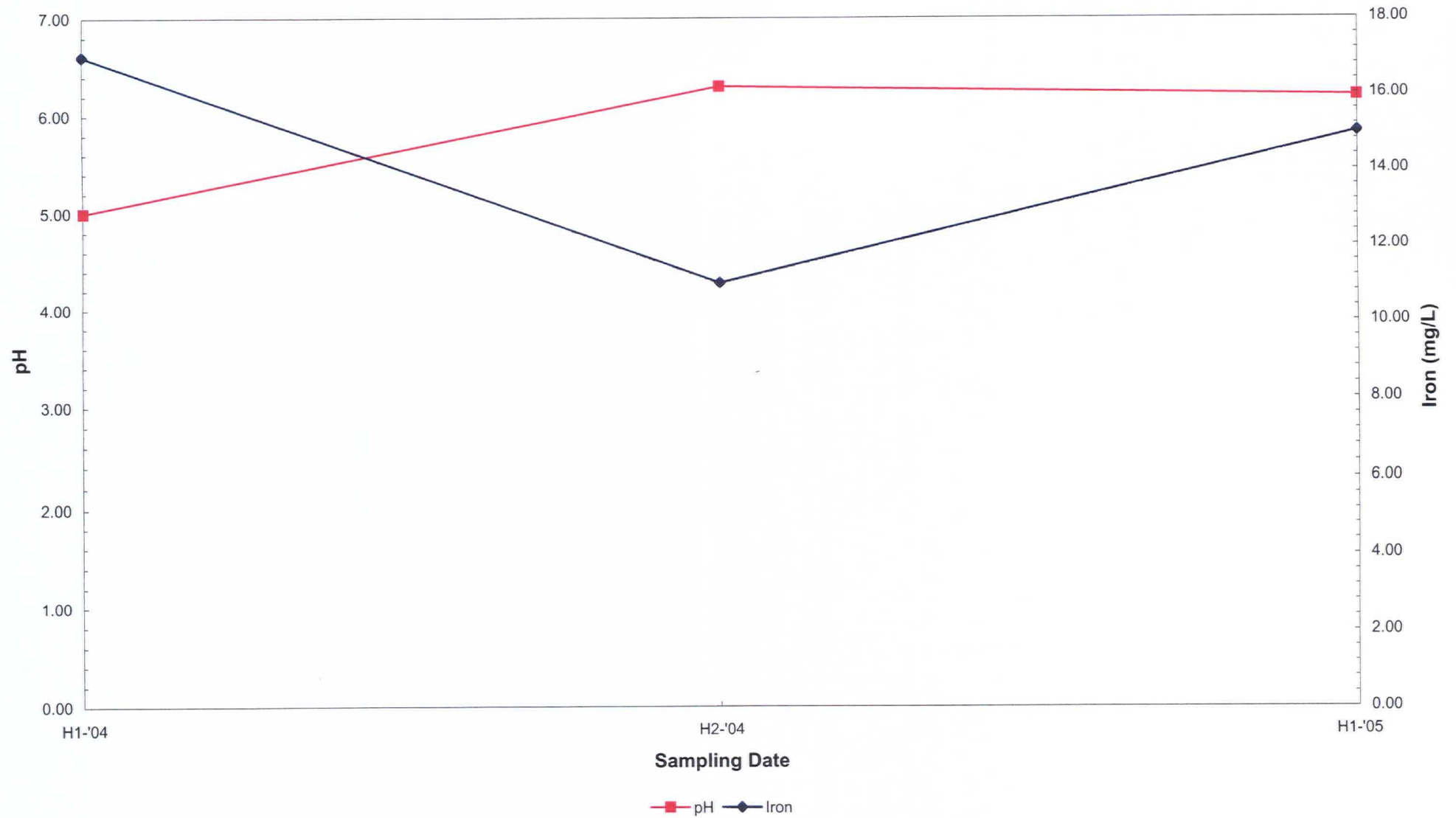
# Monitoring Well CW- 5A



# Monitoring Well GC-1A

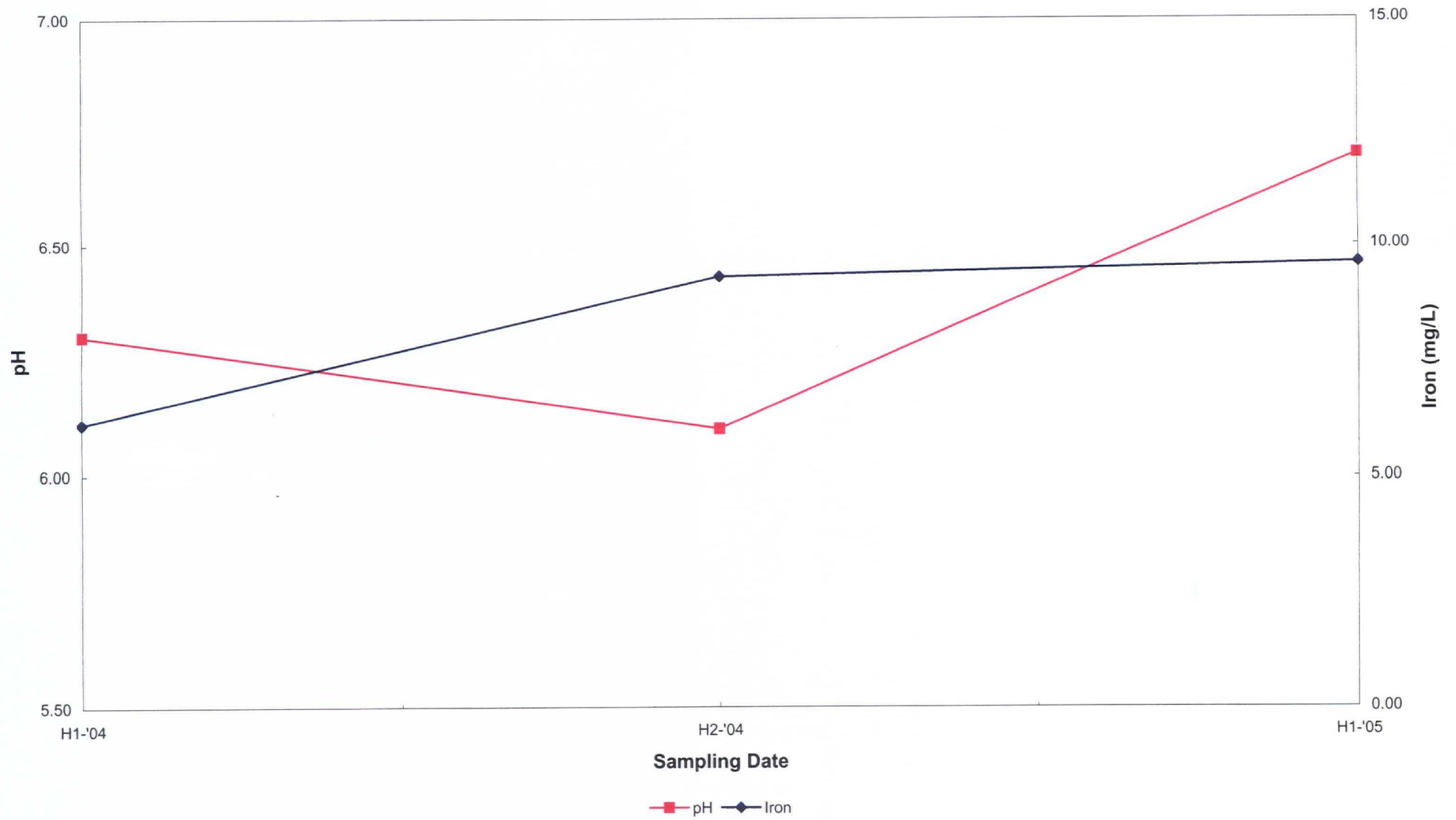


### Monitoring Well GC-2

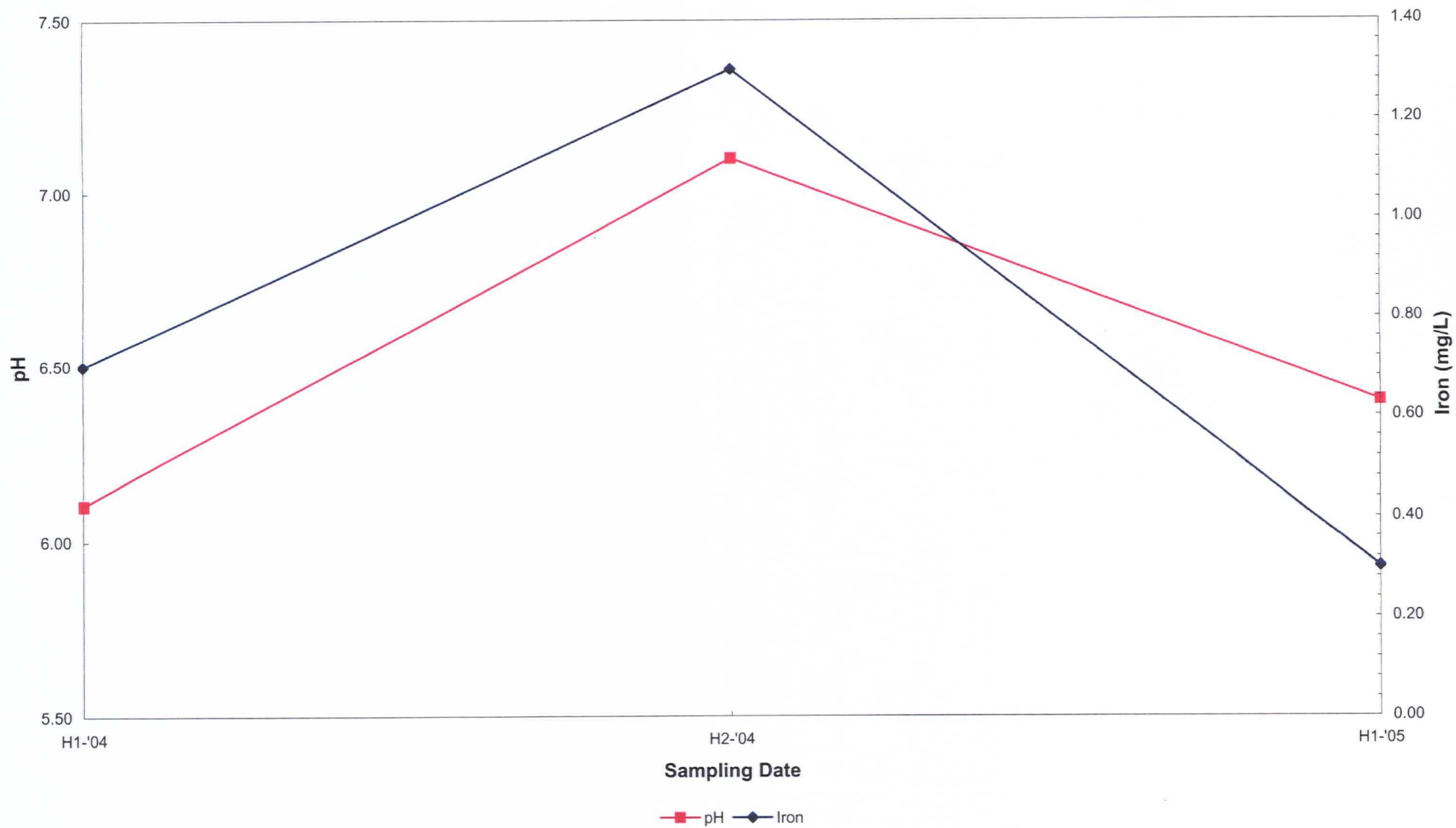




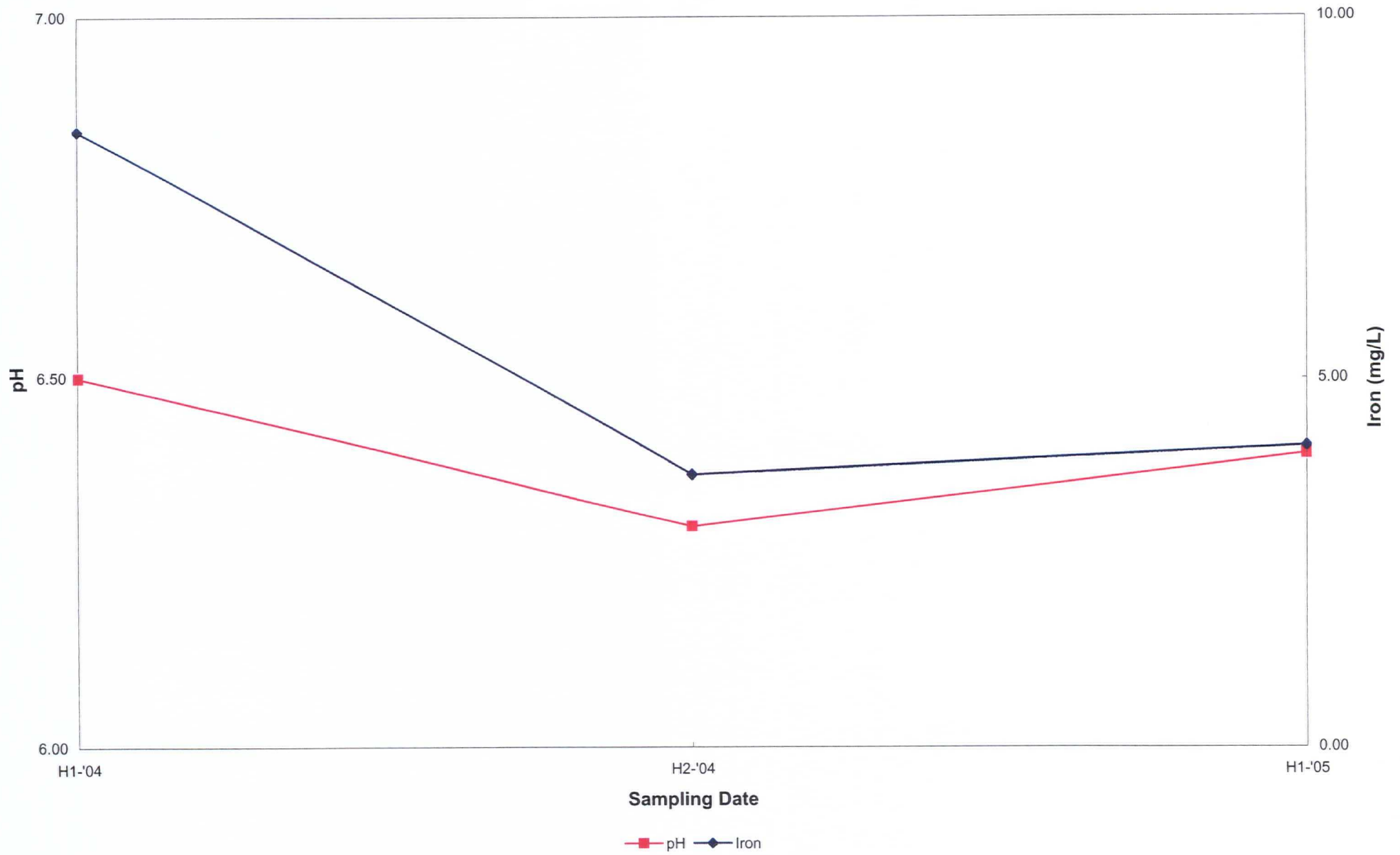
### Monitoring Well GC-3



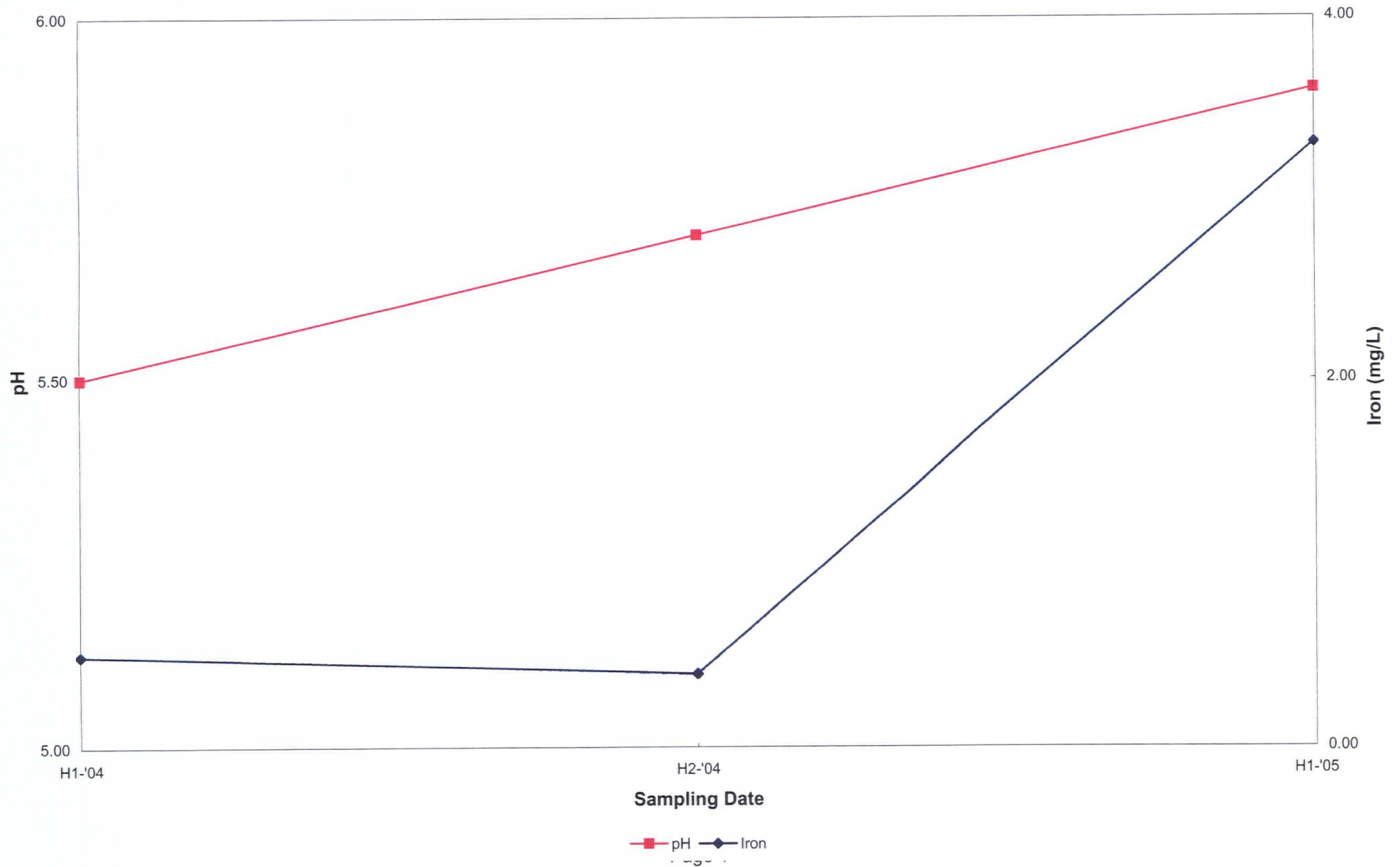
### Monitoring Well GC-4



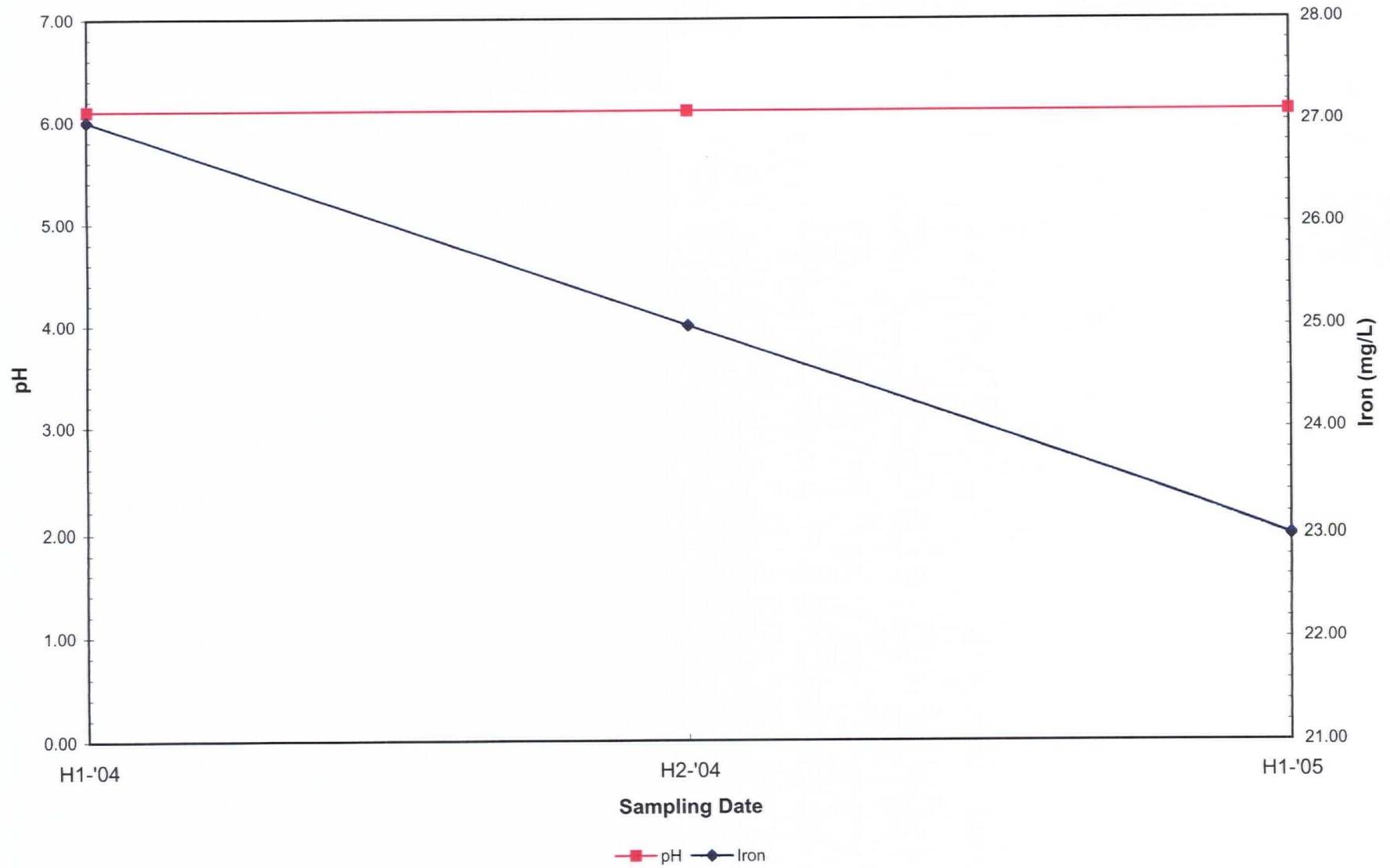
# Monitoring Well GC- 5



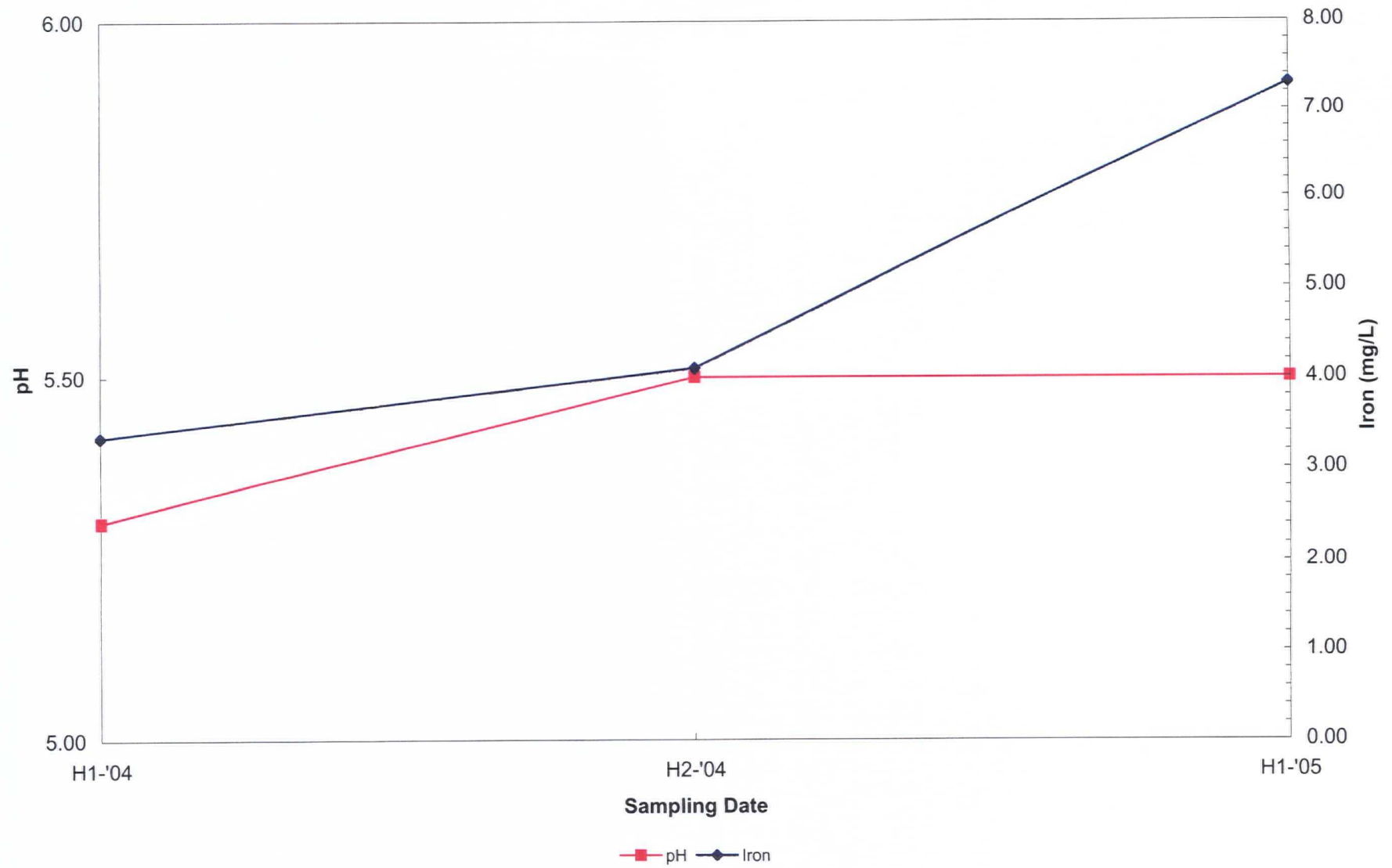
# Monitoring Well GC-6



# Monitoring Well LR11-1

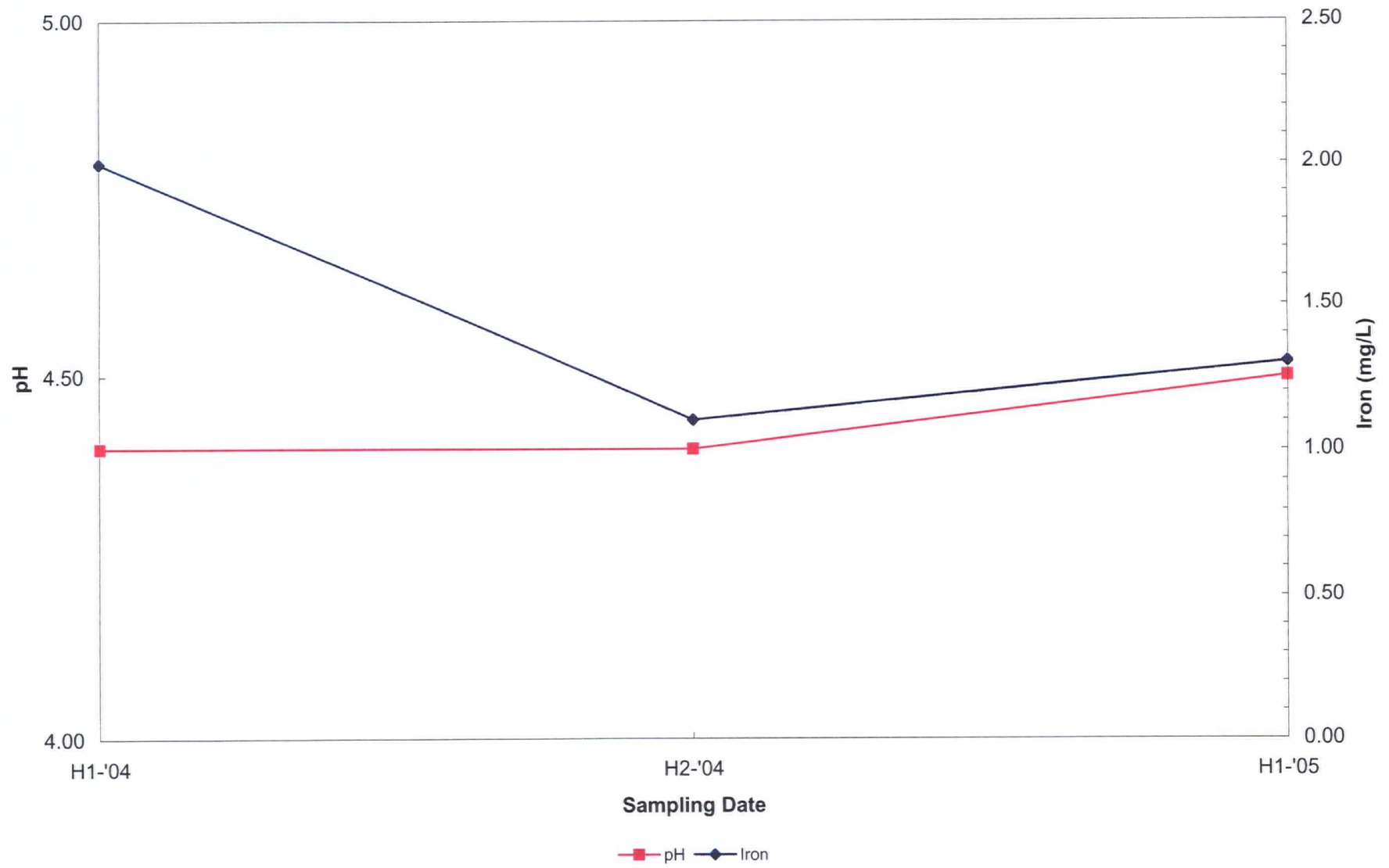


# Monitoring Well LR11-2

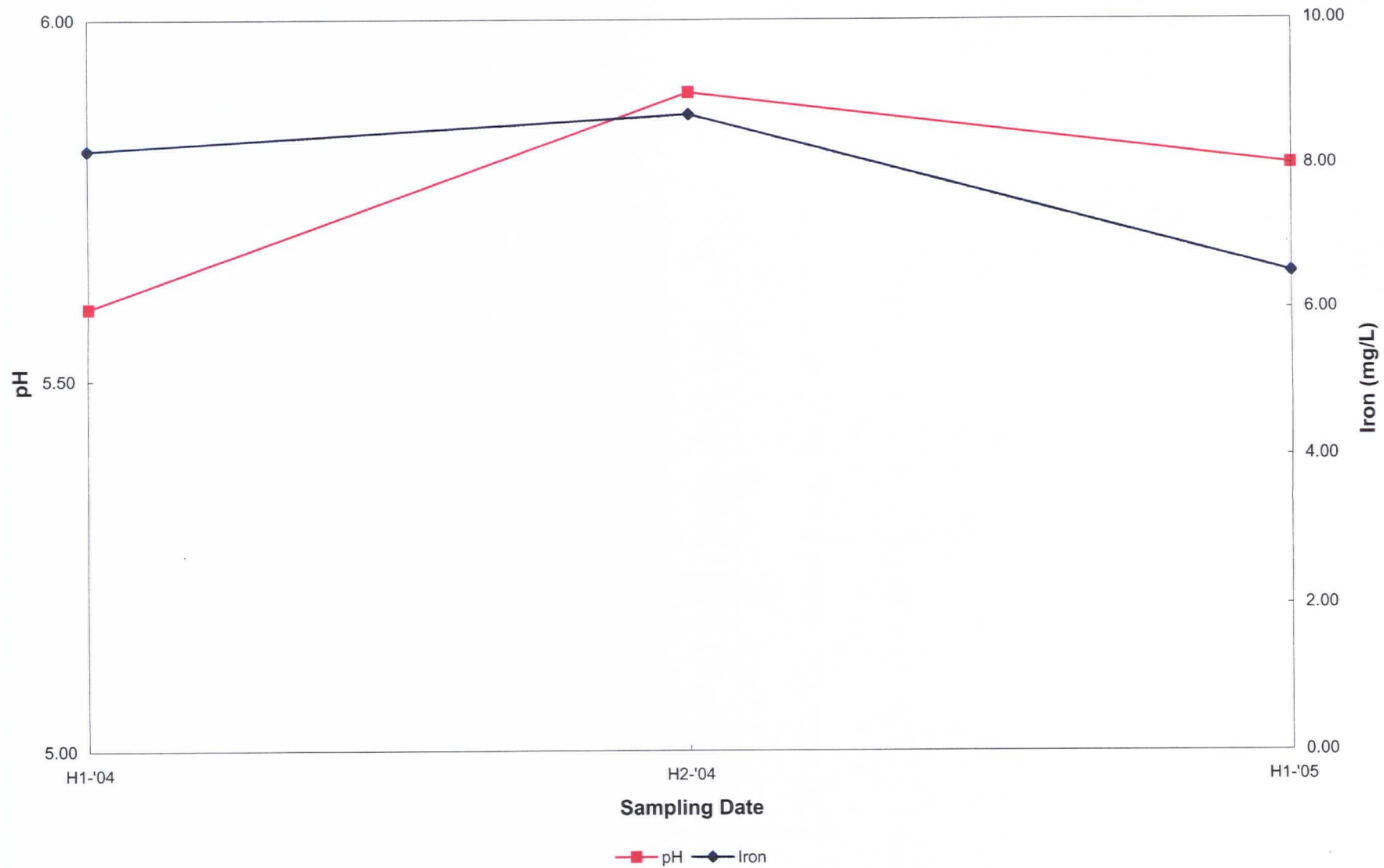




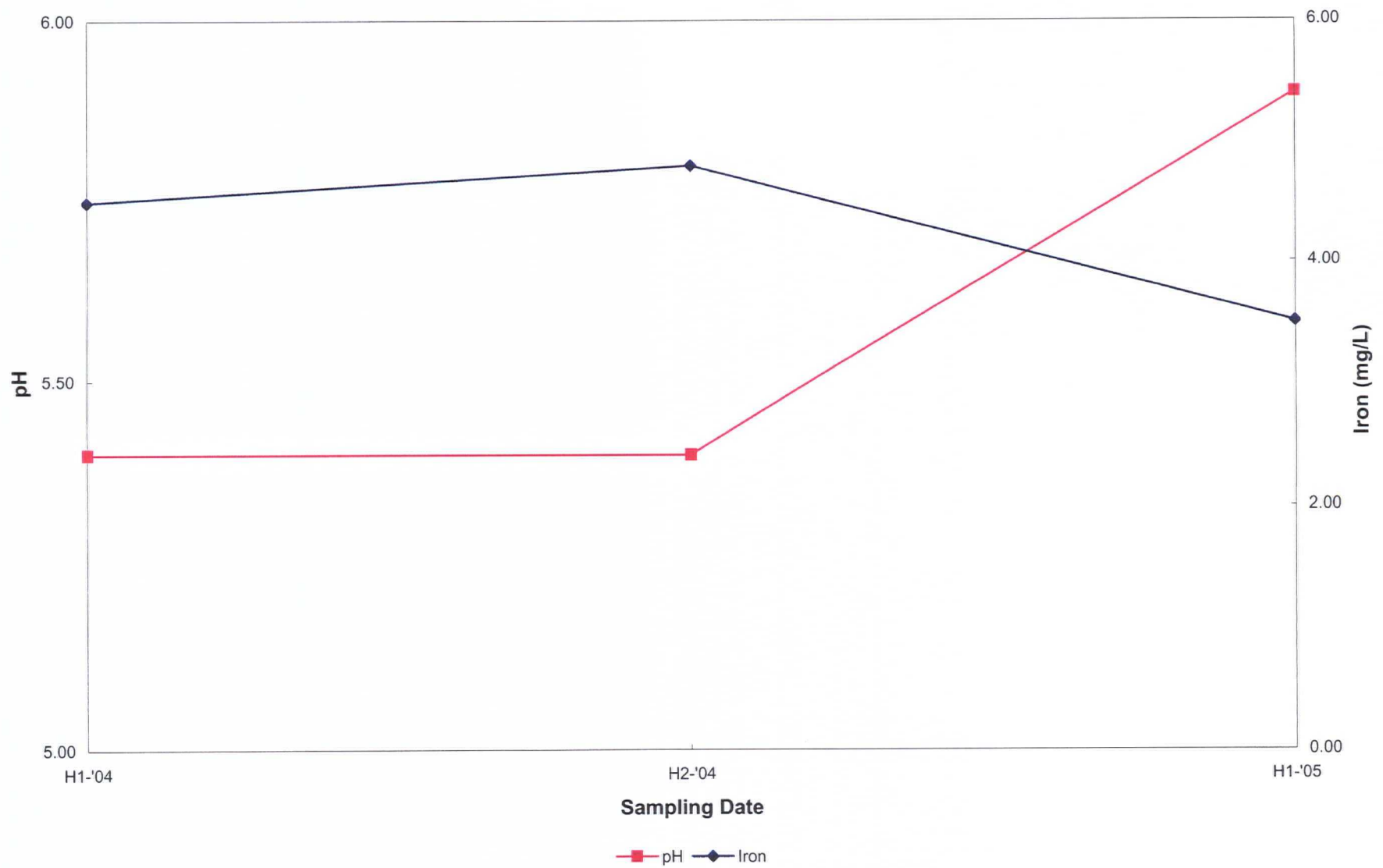
### Monitoring Well LR11-3



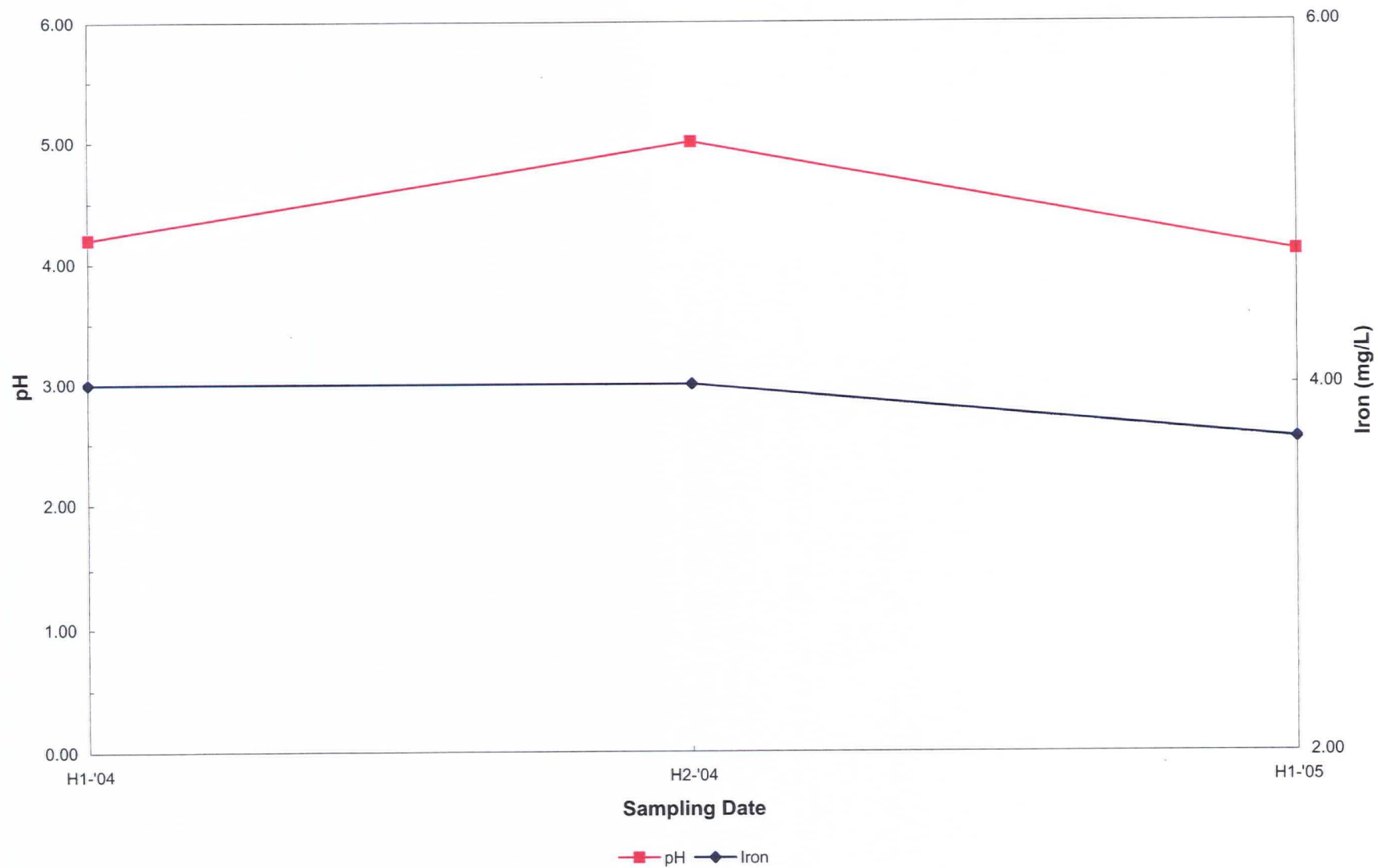
### Monitoring Well LR11-4



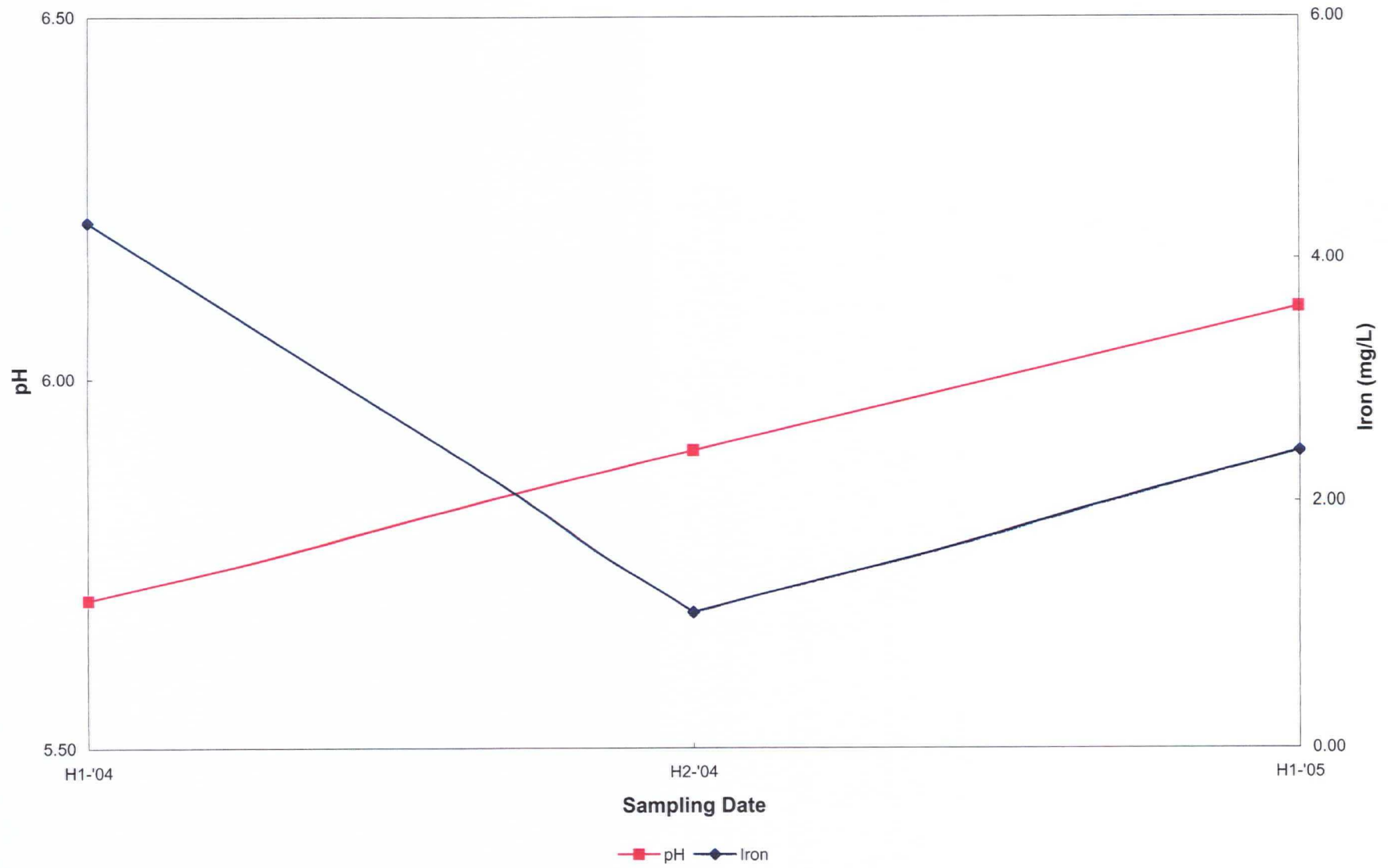
# Monitoring Well LR11-5



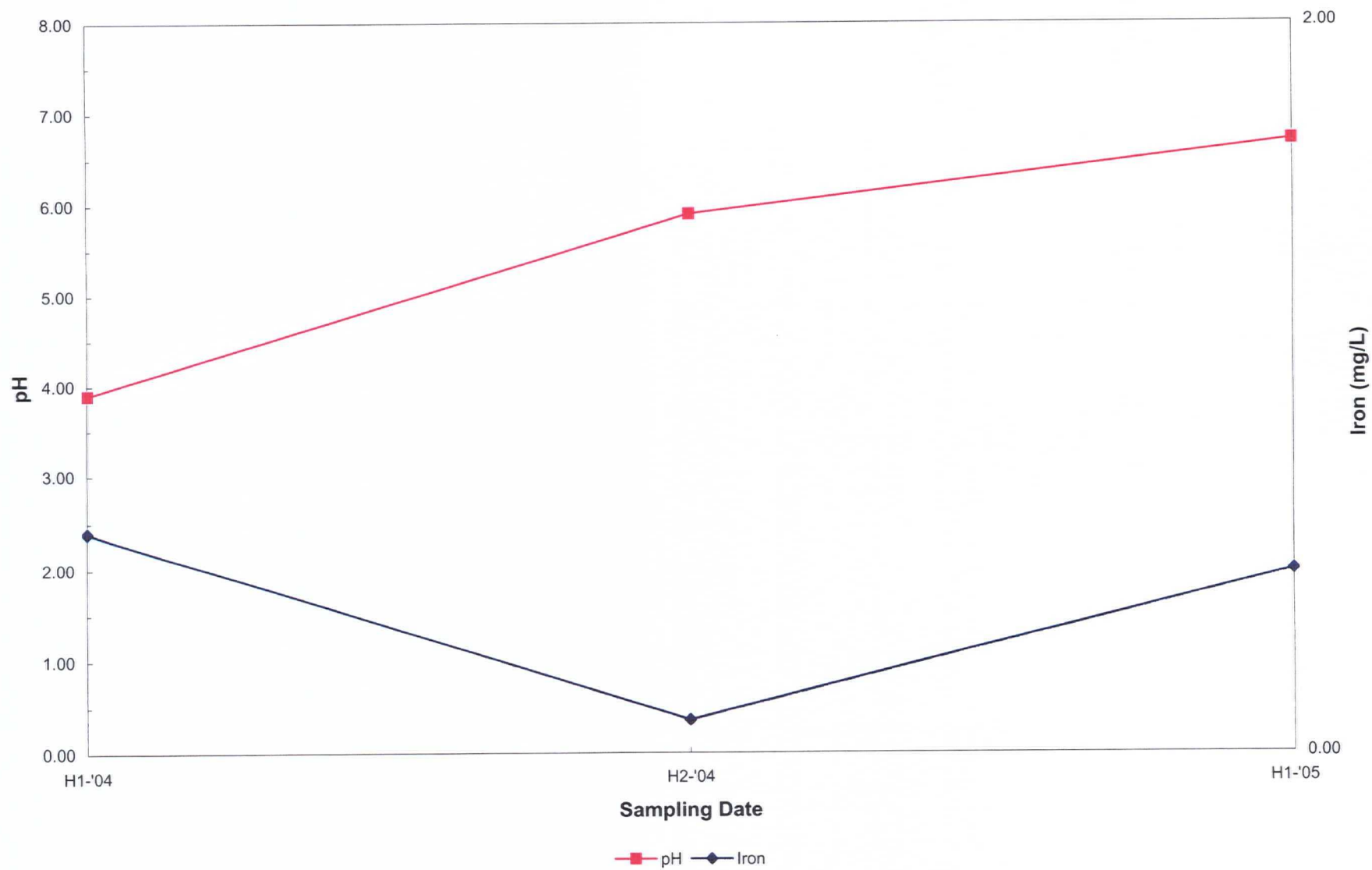
# Monitoring Well MW-1



# Monitoring Well MW-2

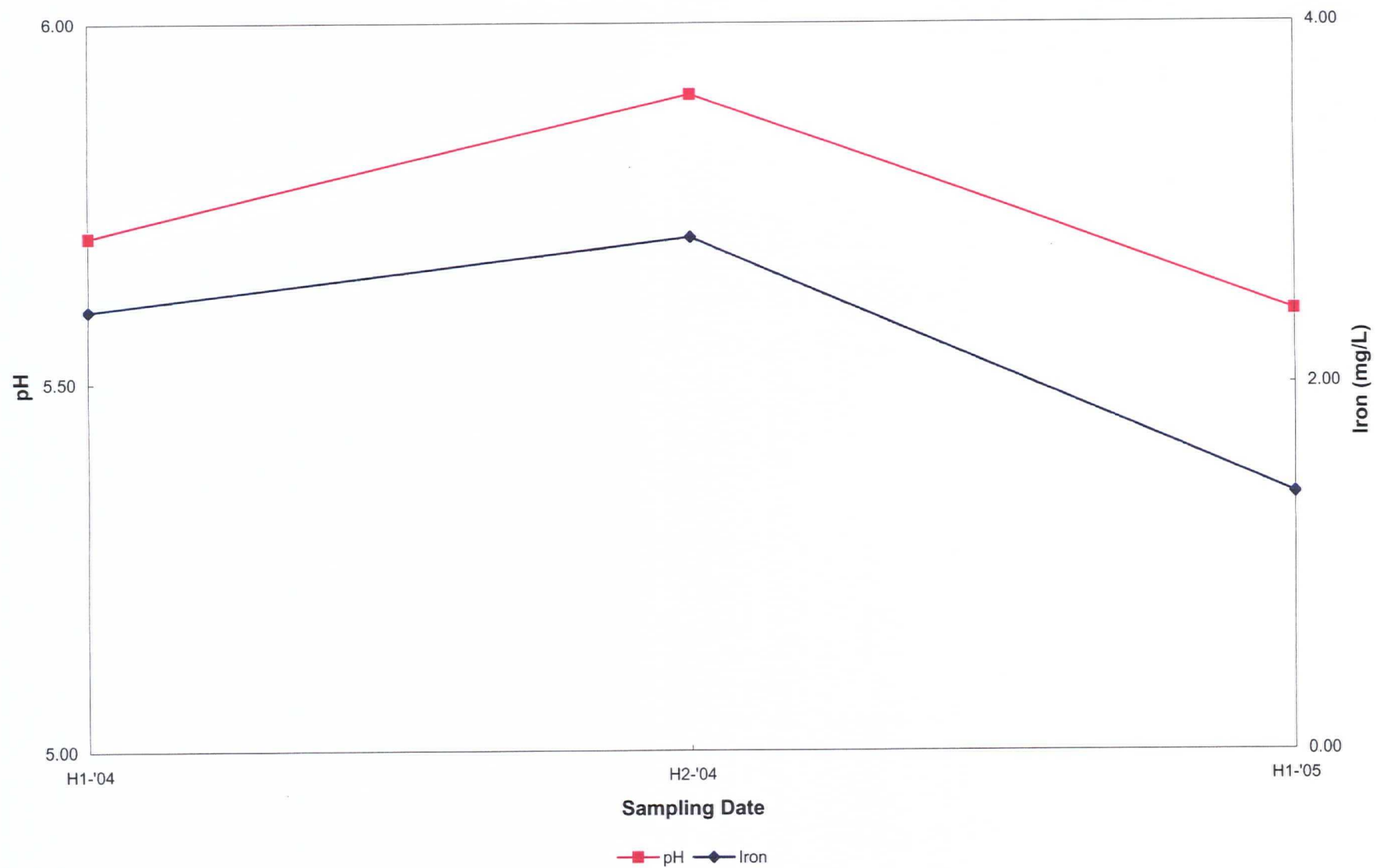


### Monitoring Well MW-3

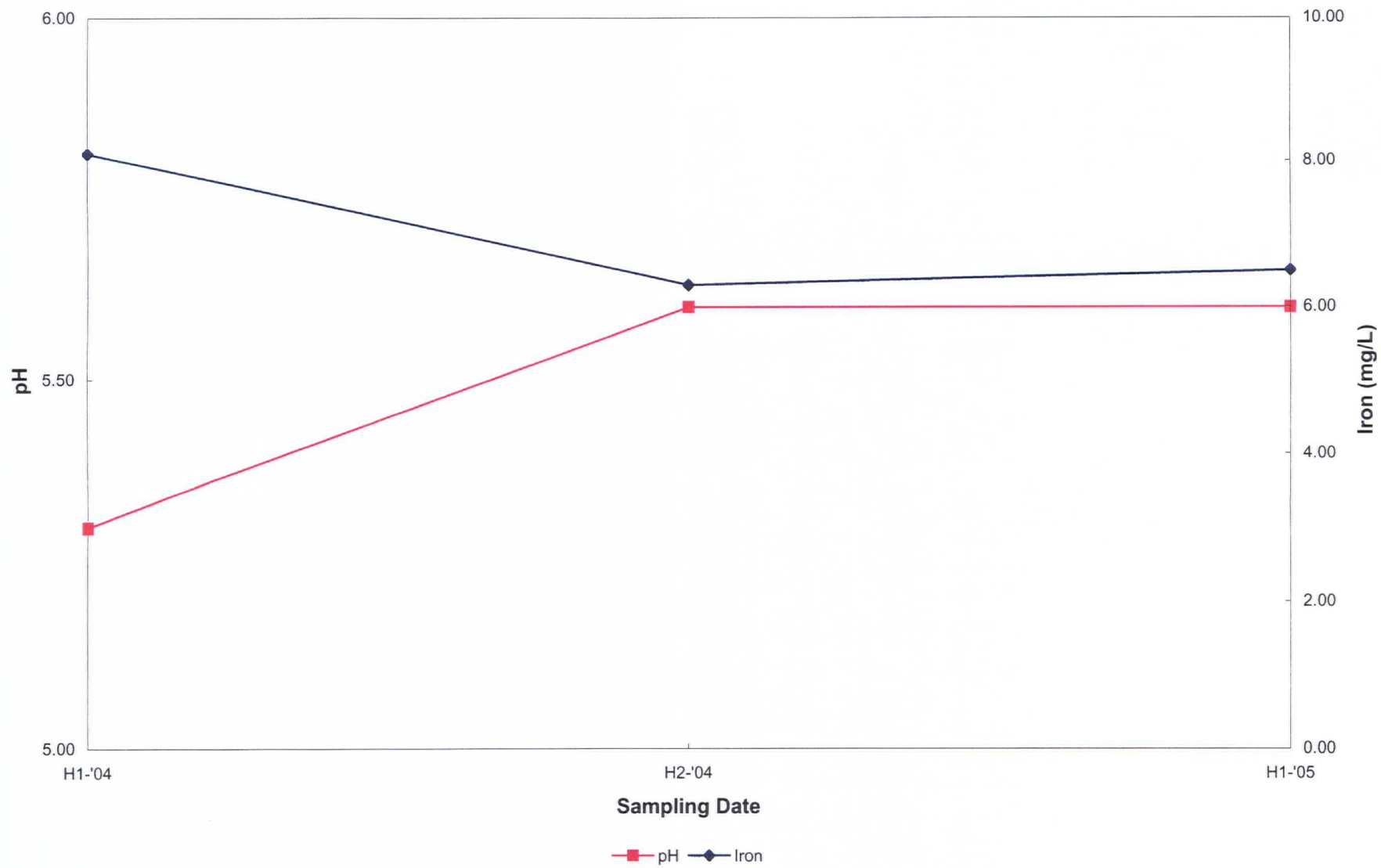




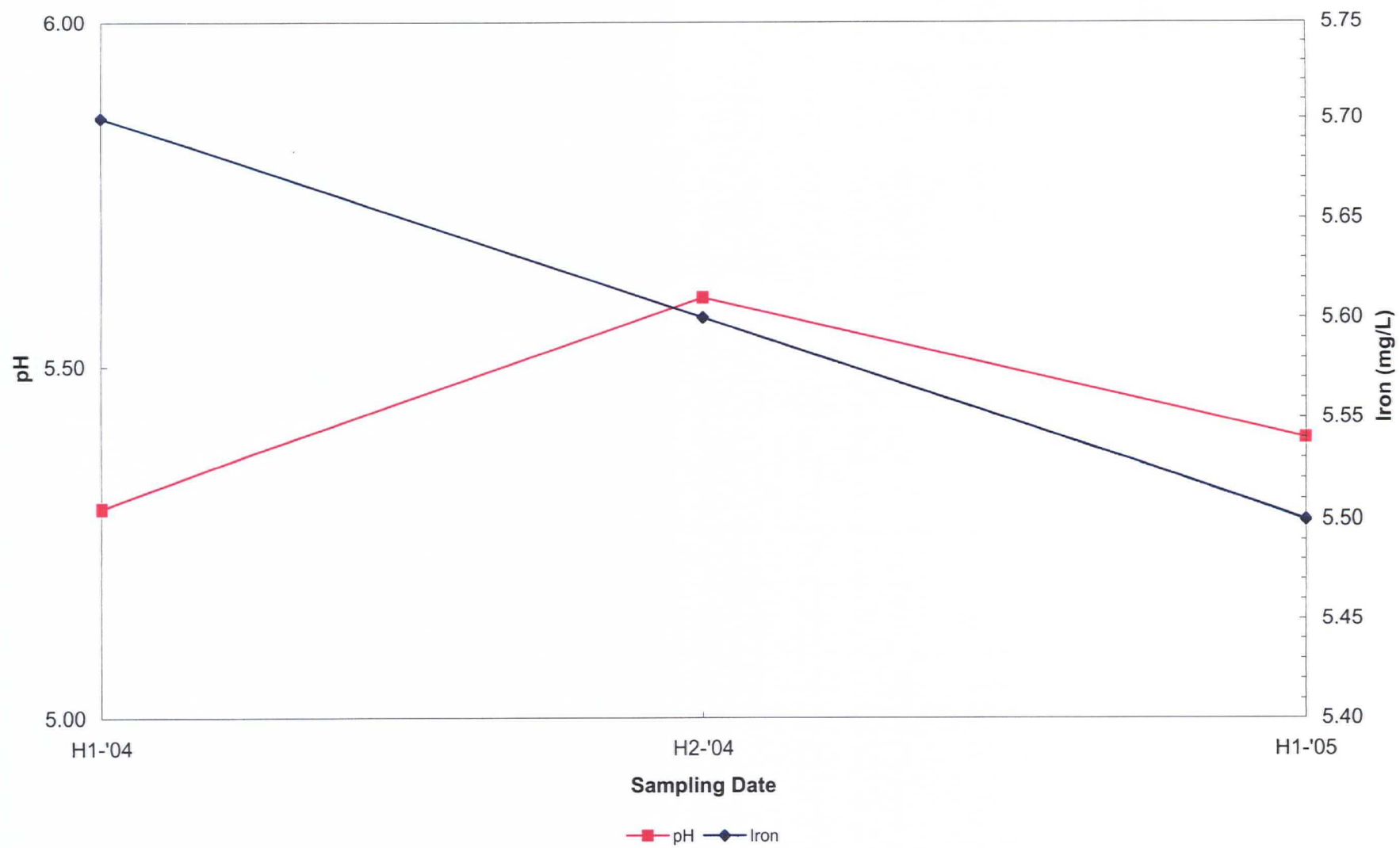
# Monitoring Well MW-5



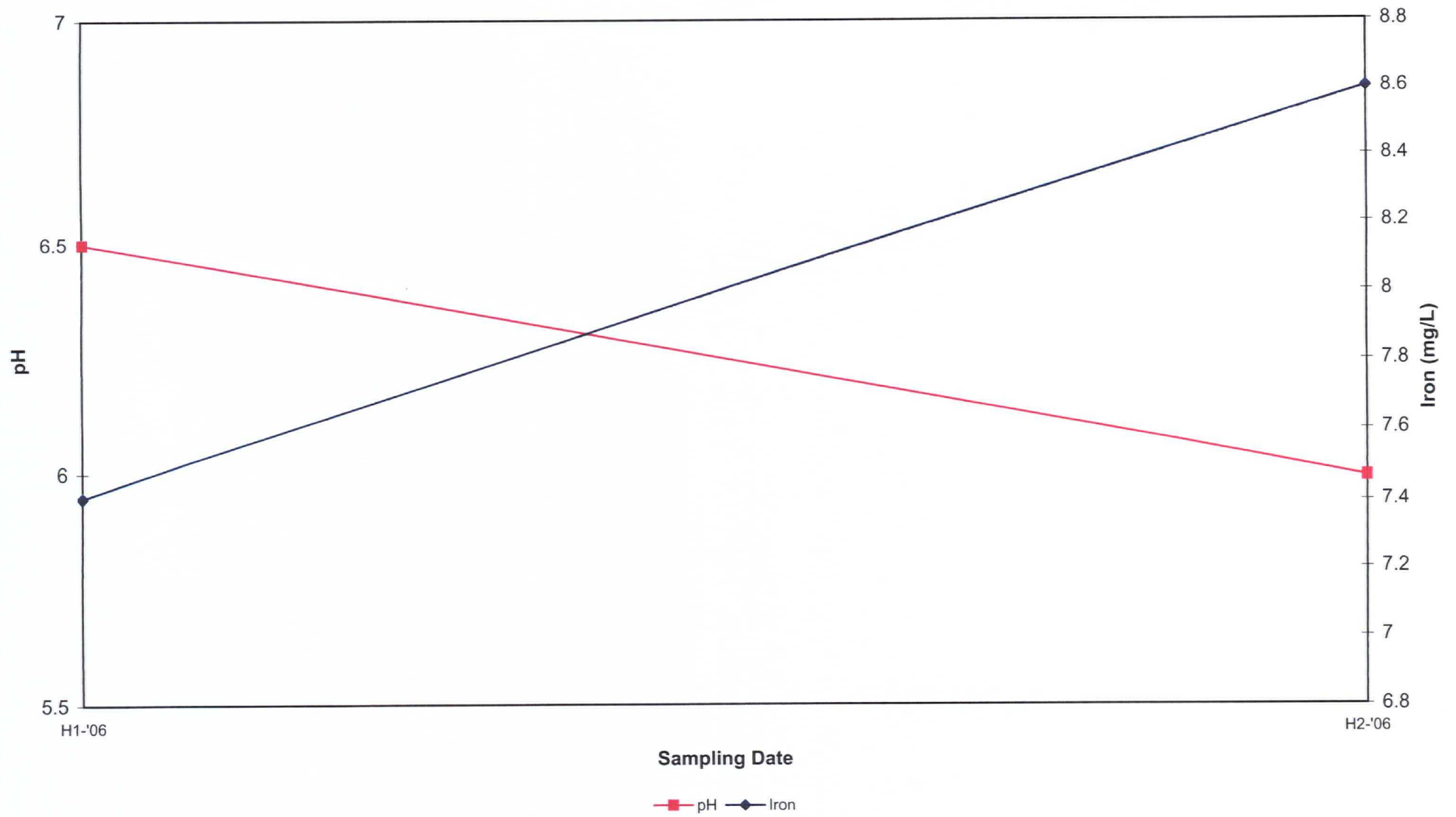
### Monitoring Well MW-6



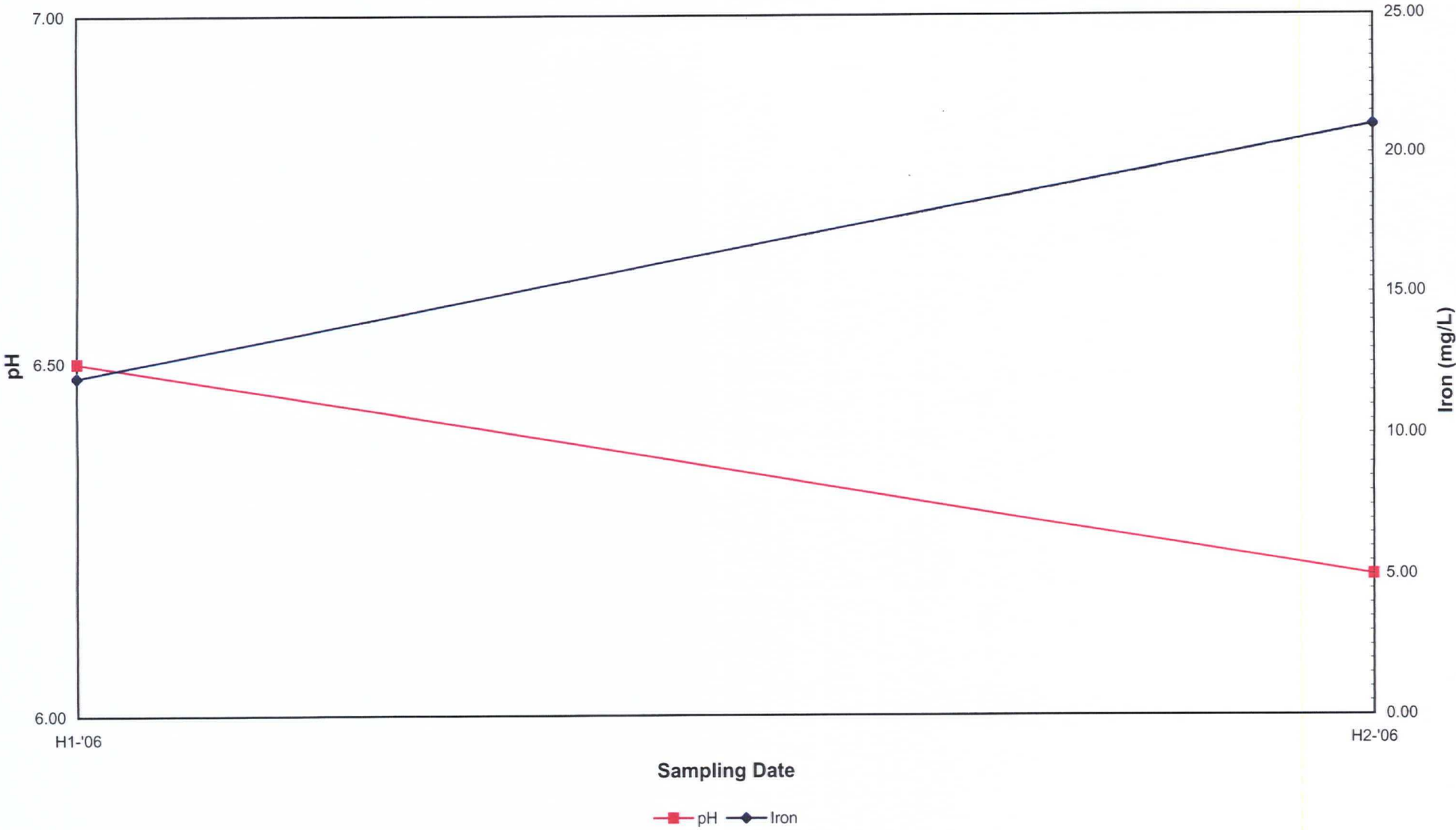
### Monitoring Well SMR-1



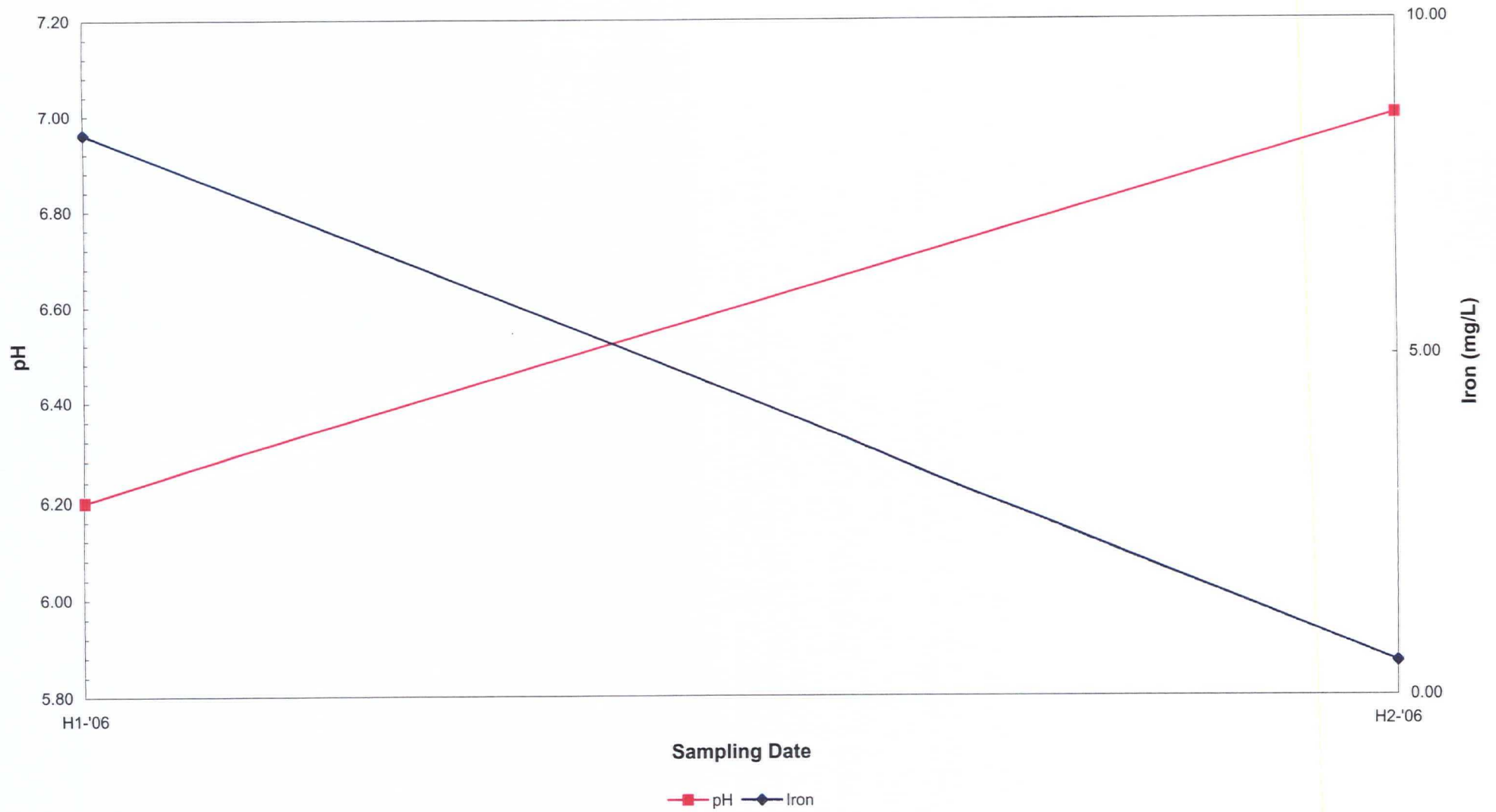
# Monitoring Well GW- 1



Monitoring Well GW- 2

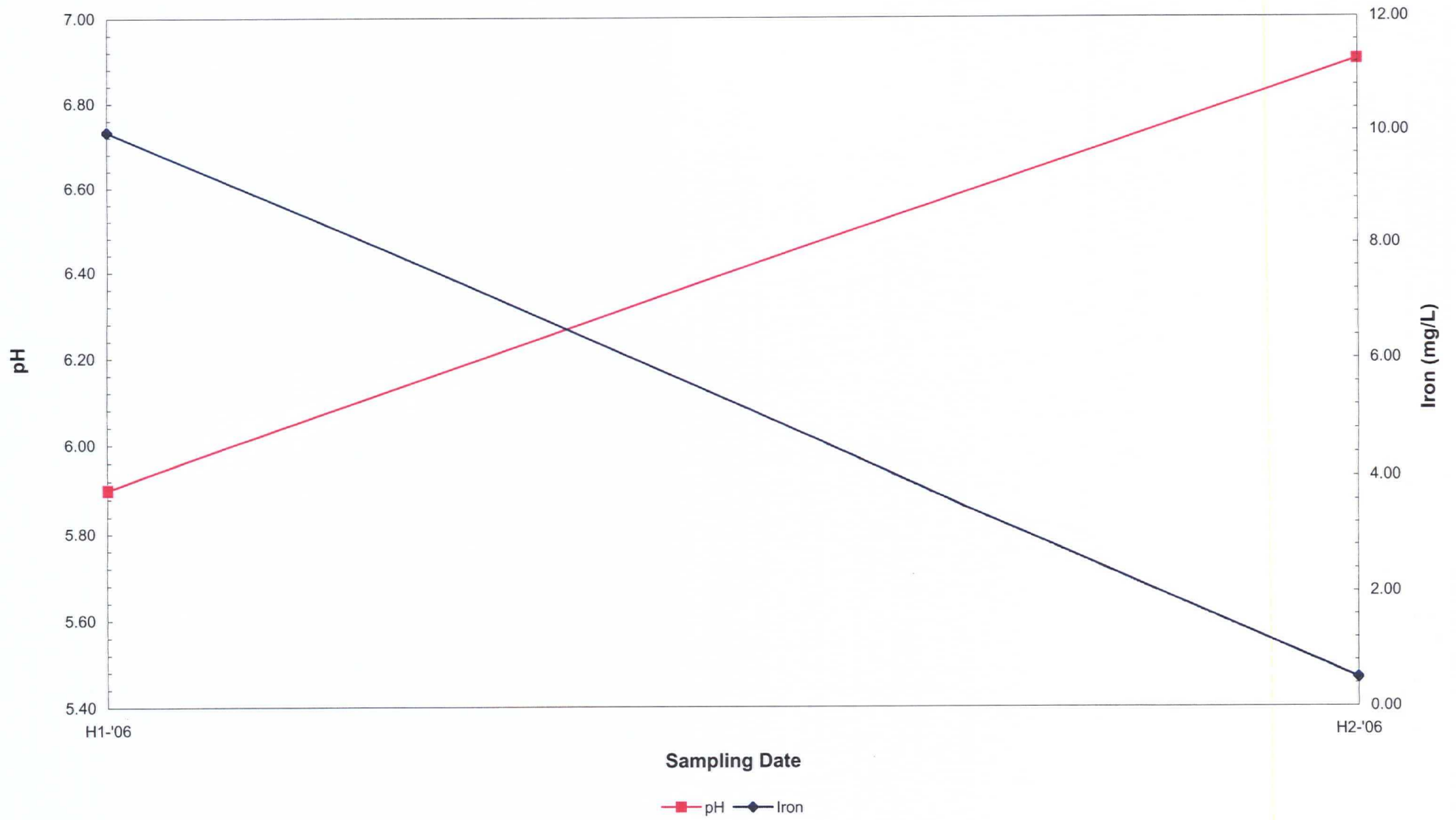


### Monitoring Well GW-3

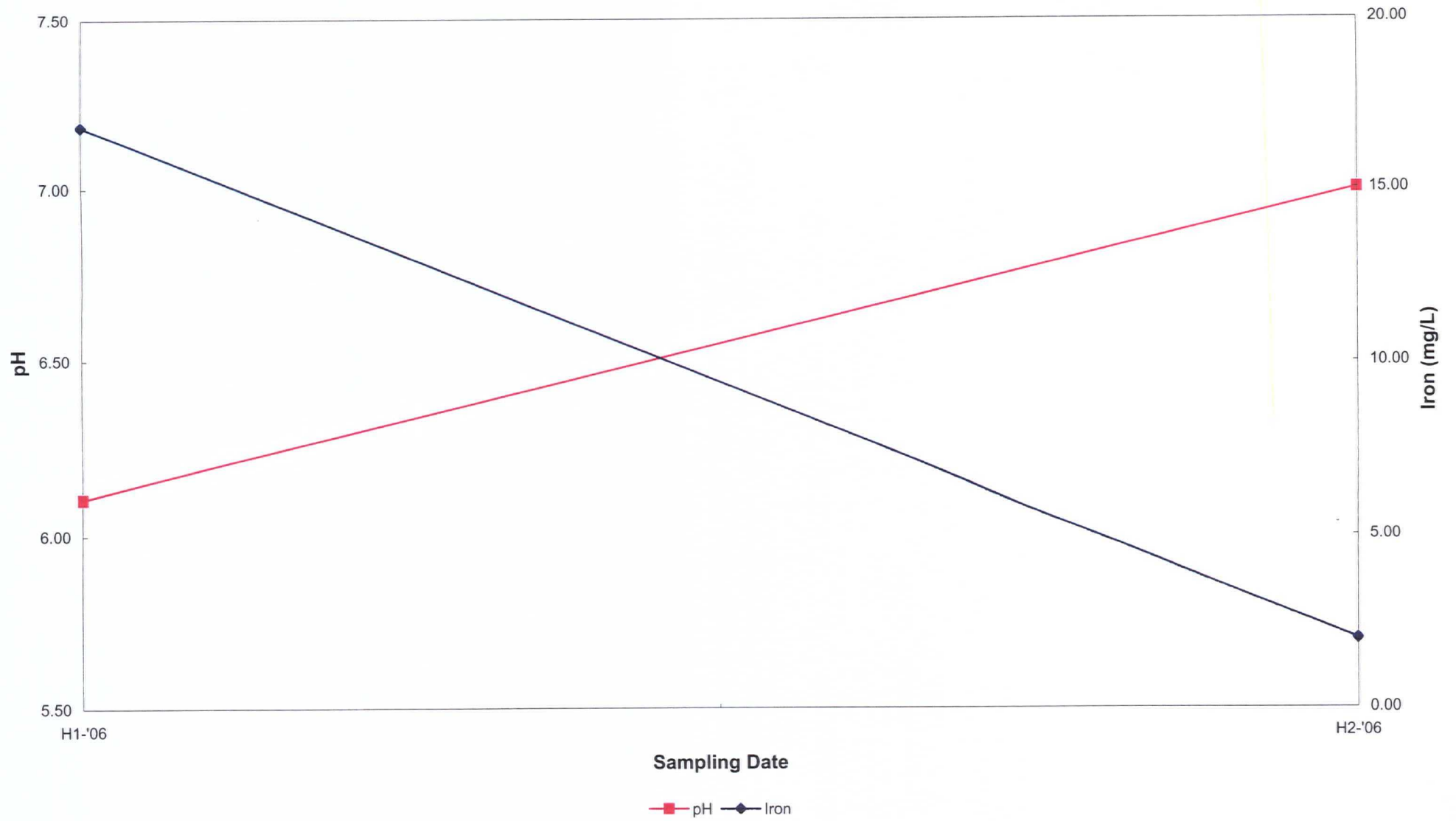




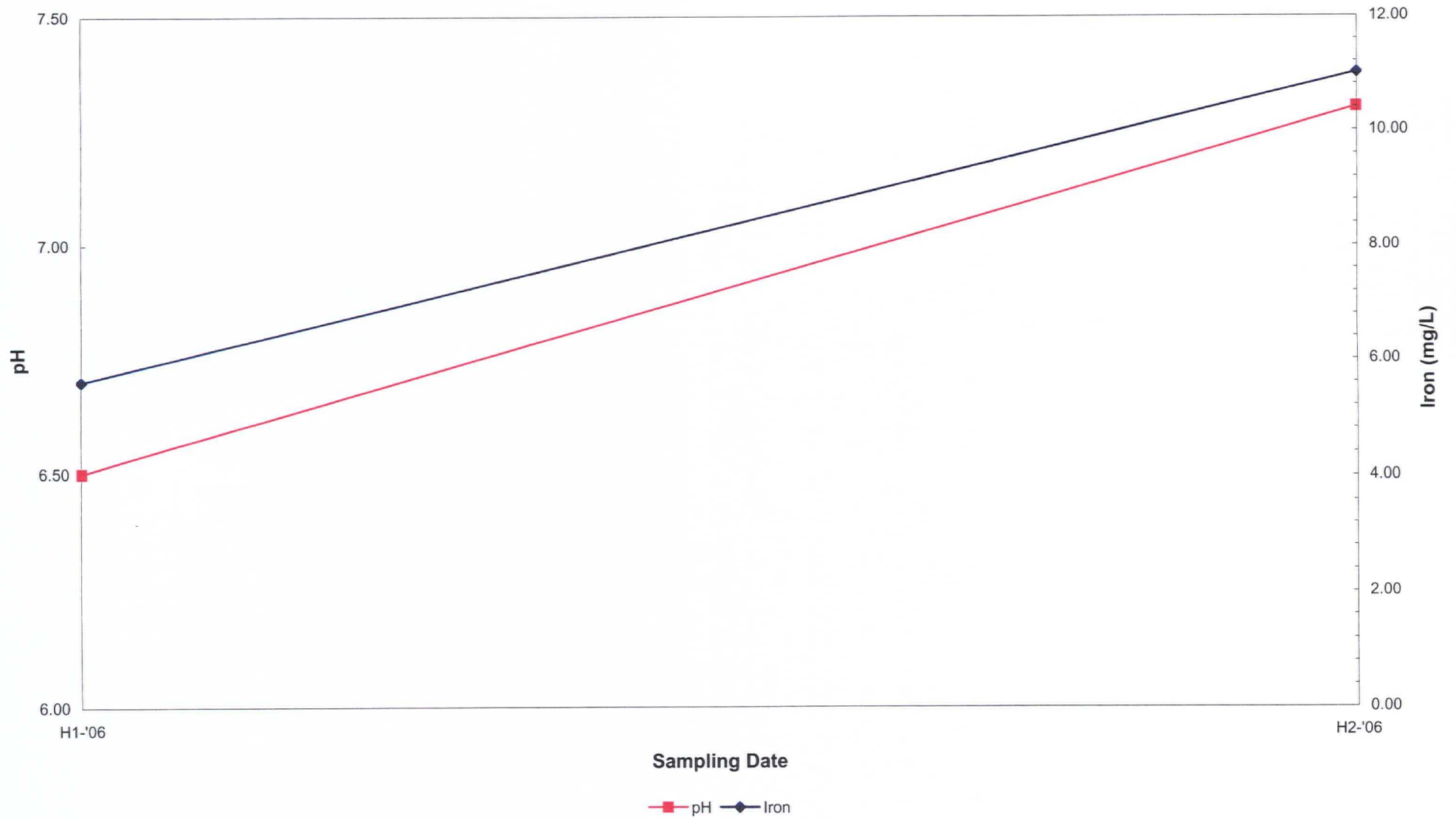
# Monitoring Well GW-4



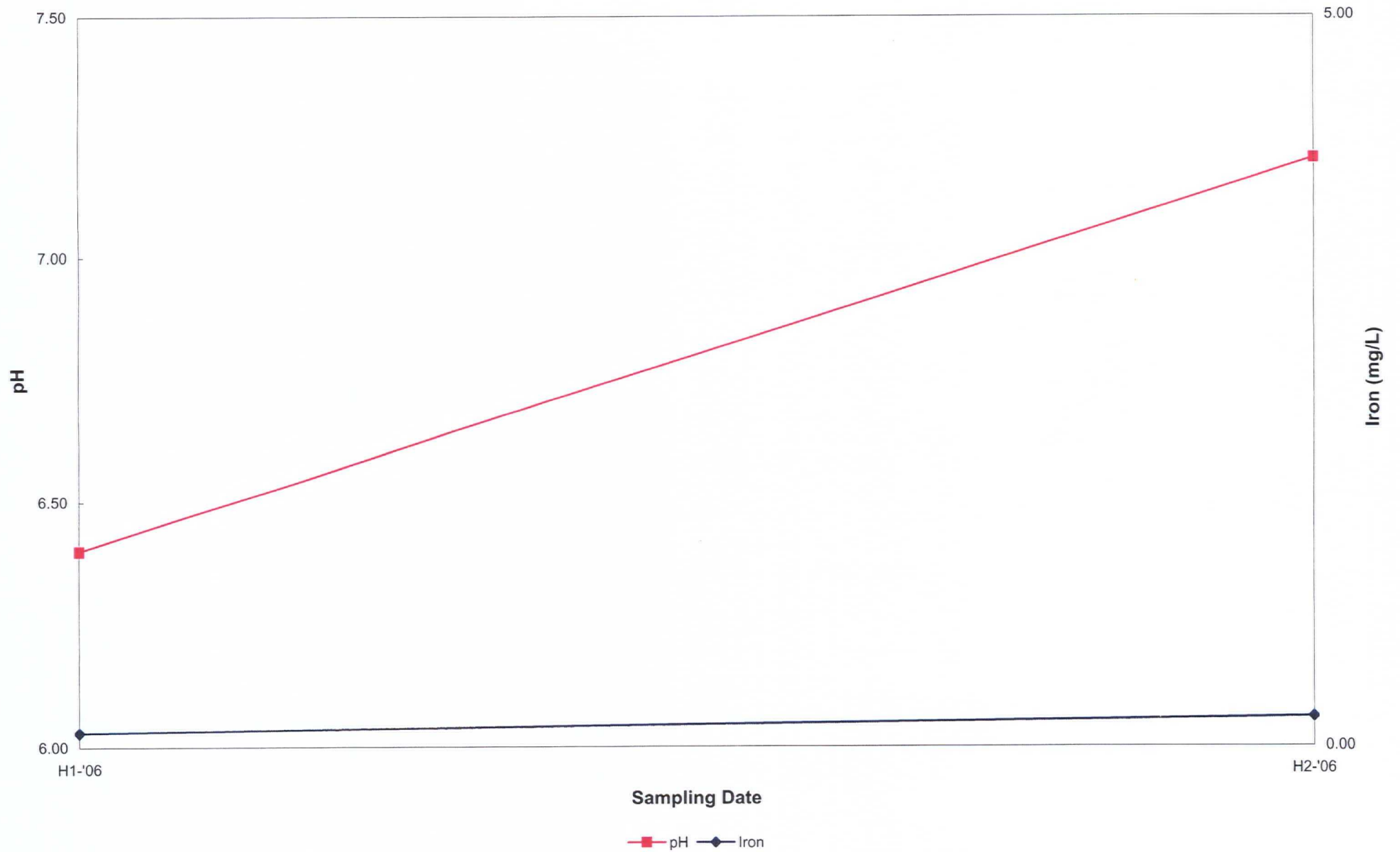
# Monitoring Well GW-5



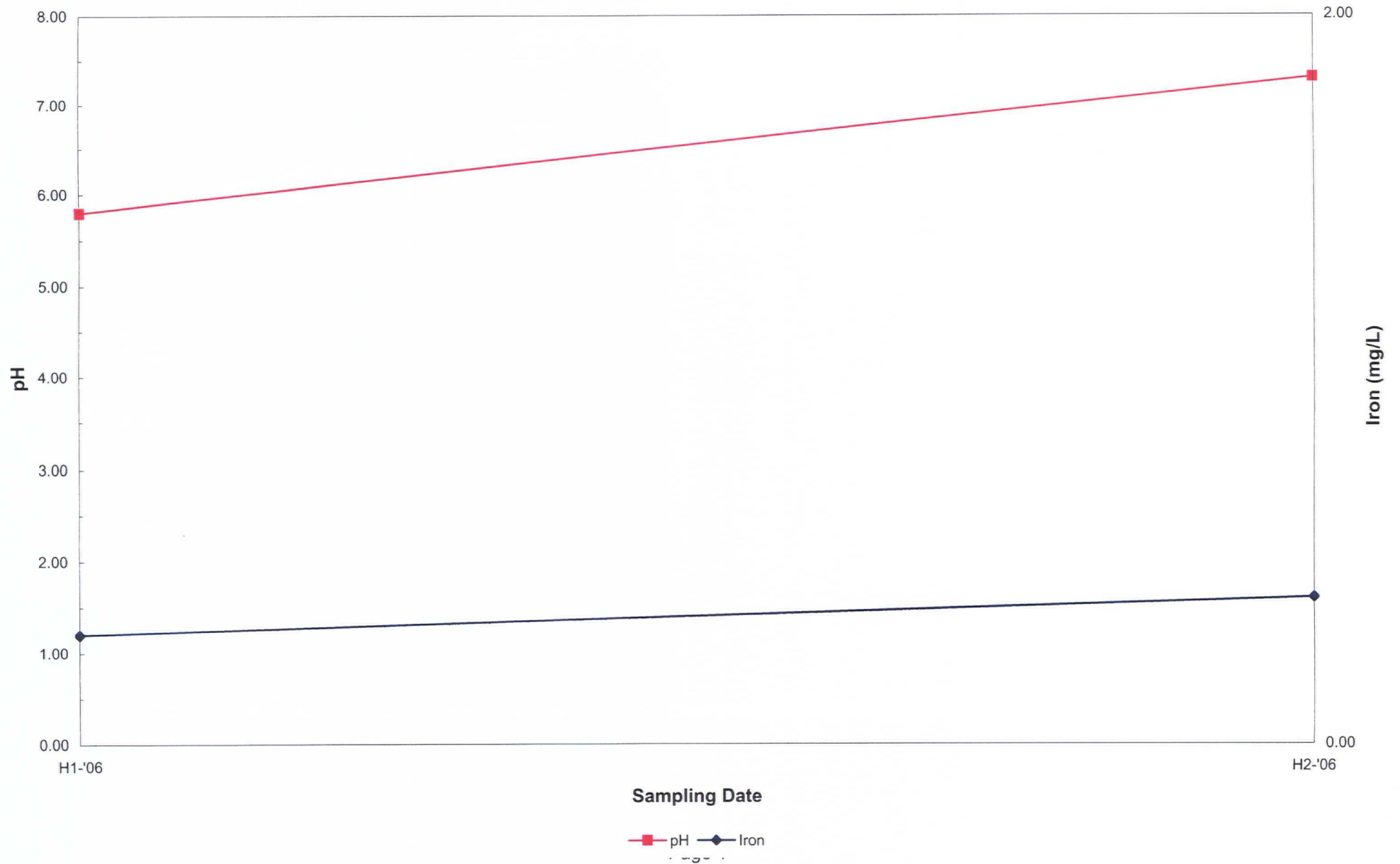
# Monitoring Well GW-6



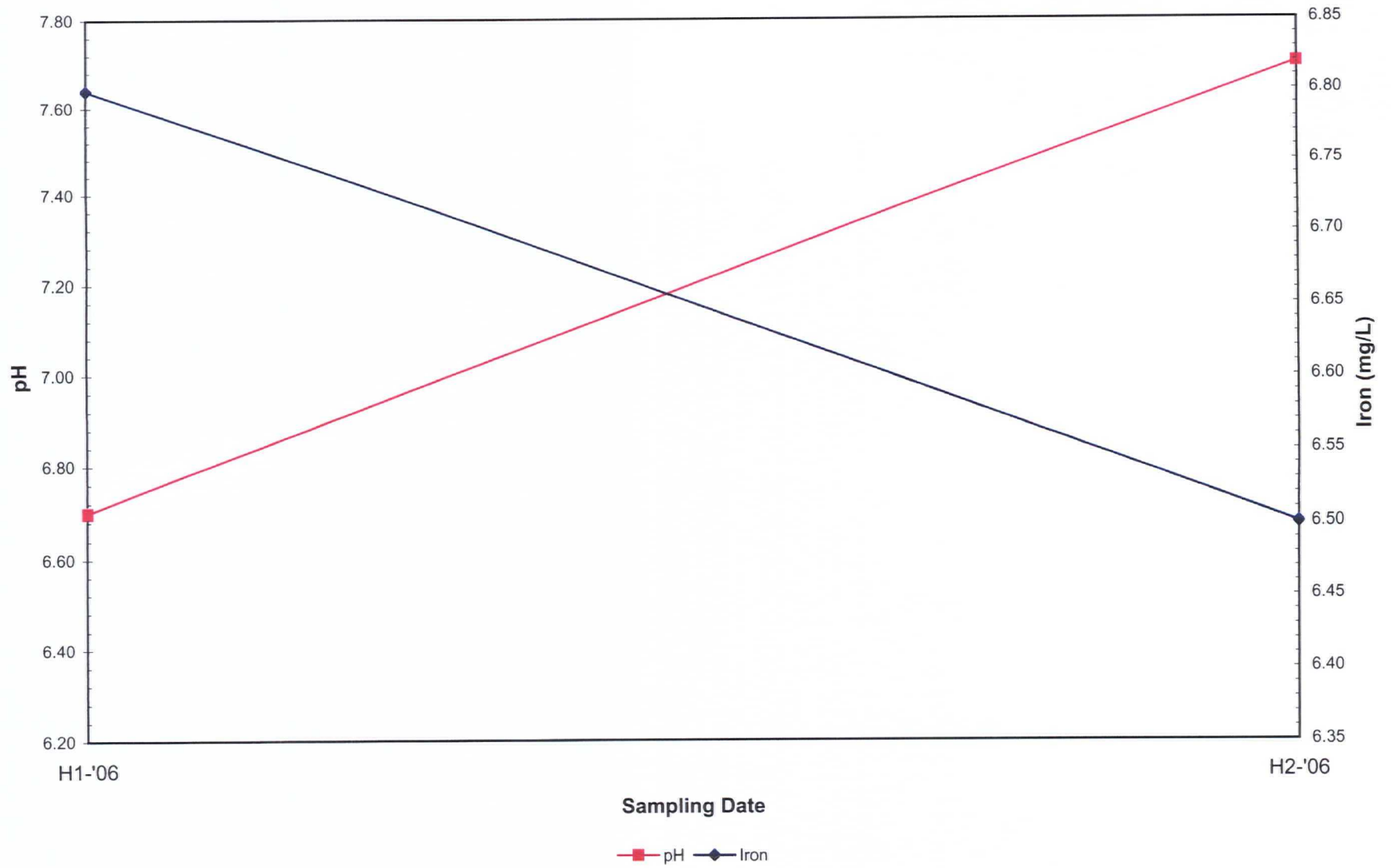
# Monitoring Well GW-7



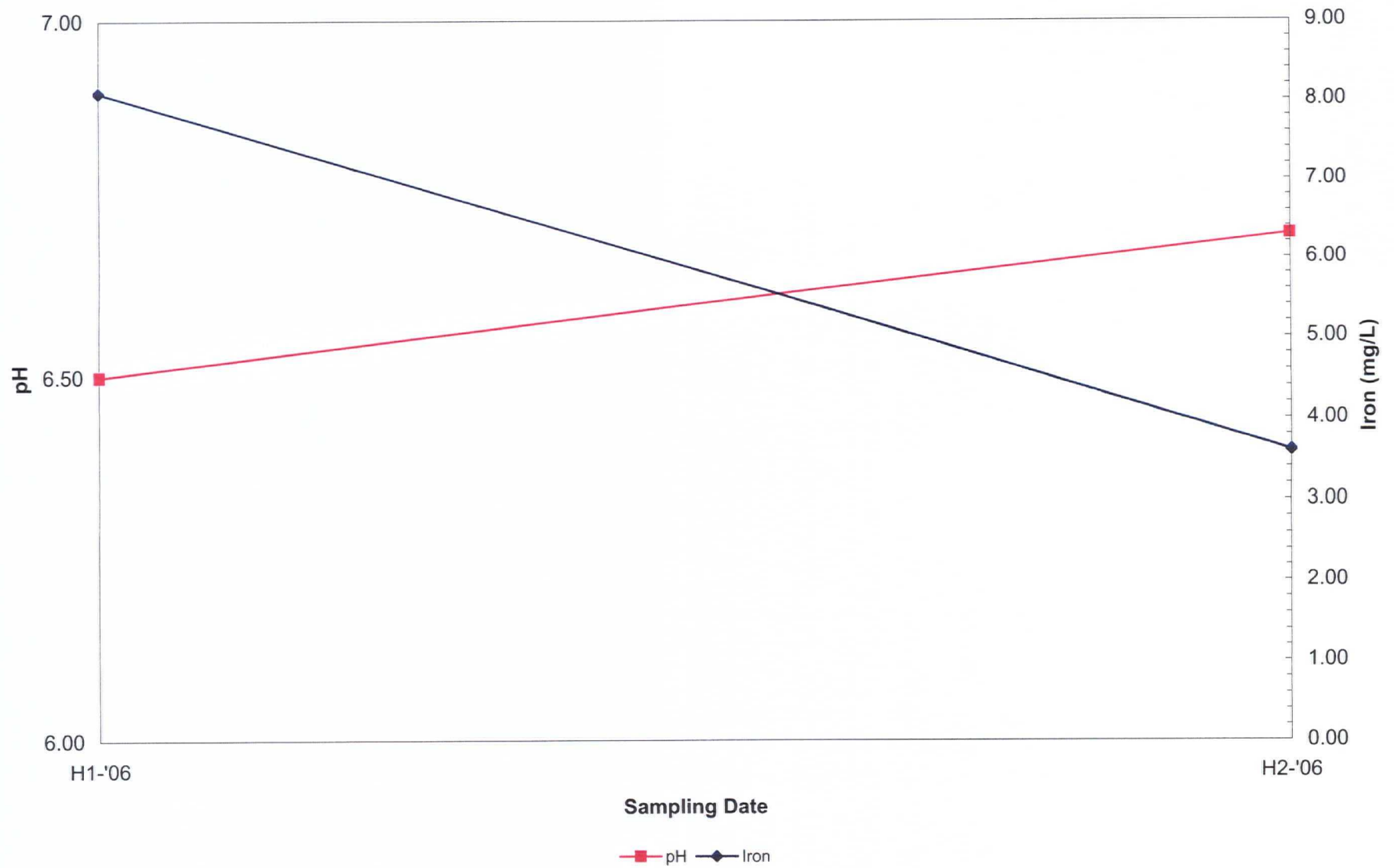
# Monitoring Well GW-8



# Monitoring Well GW-9

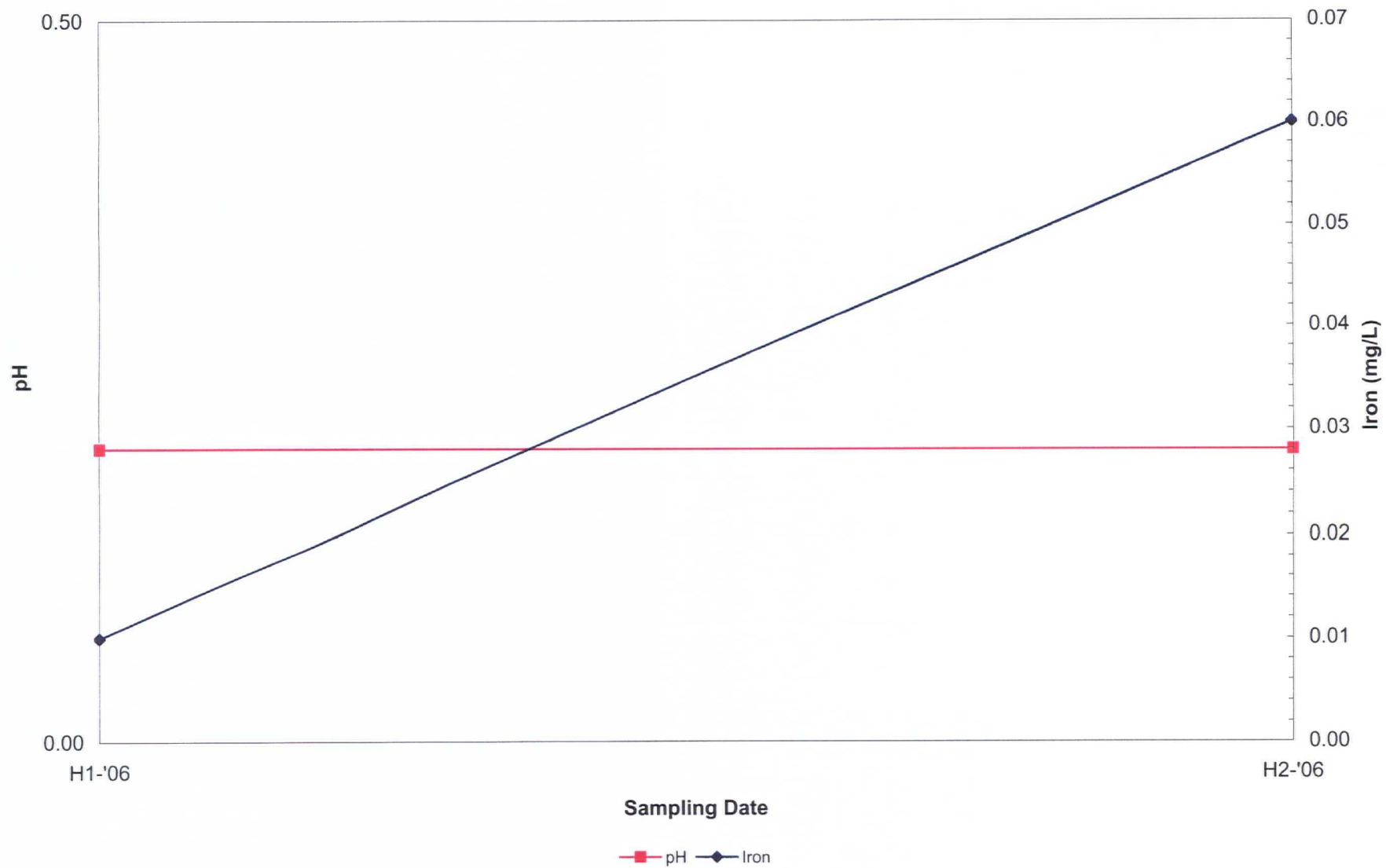


# Monitoring Well GW-10

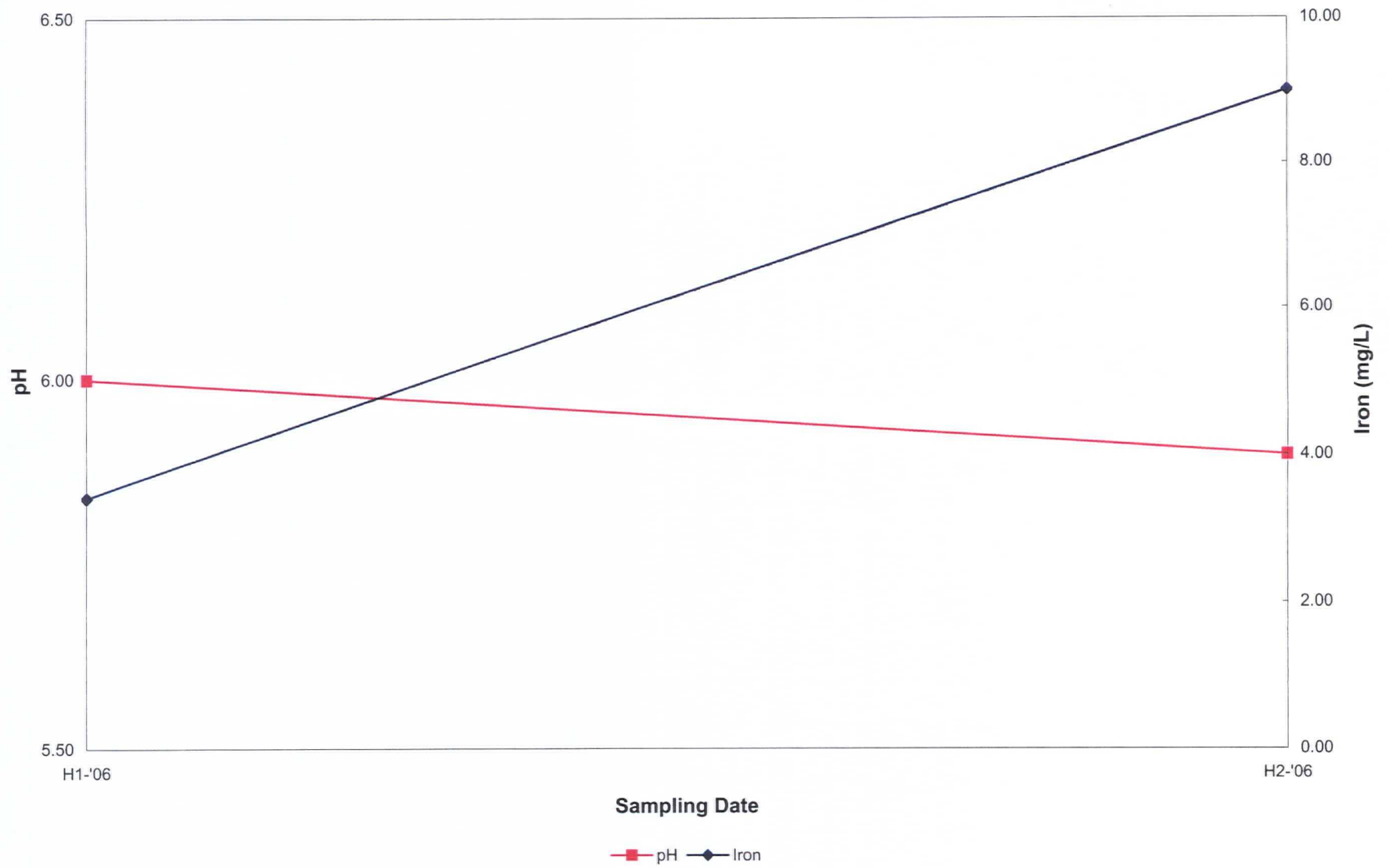




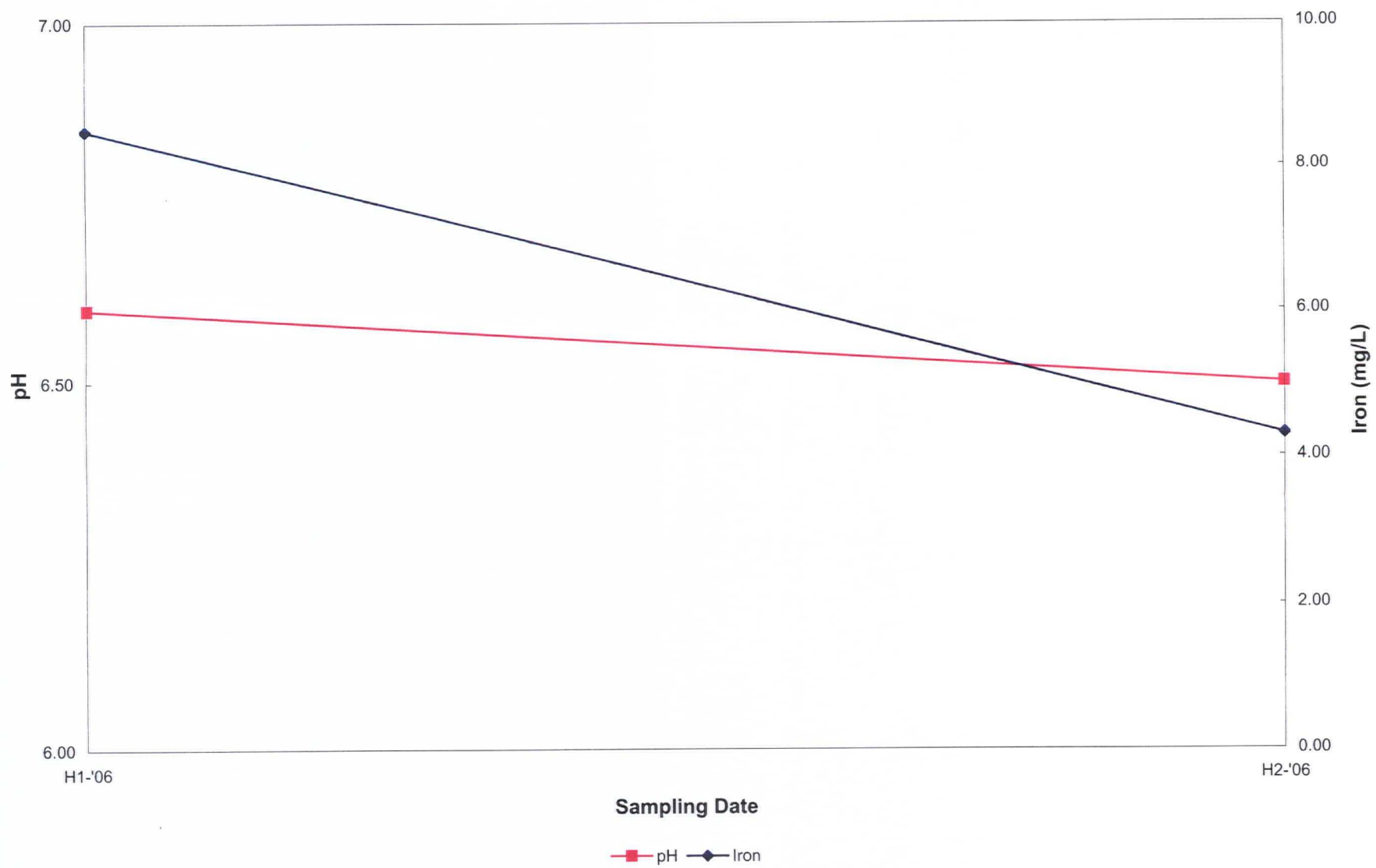
# Monitoring Well GW-11



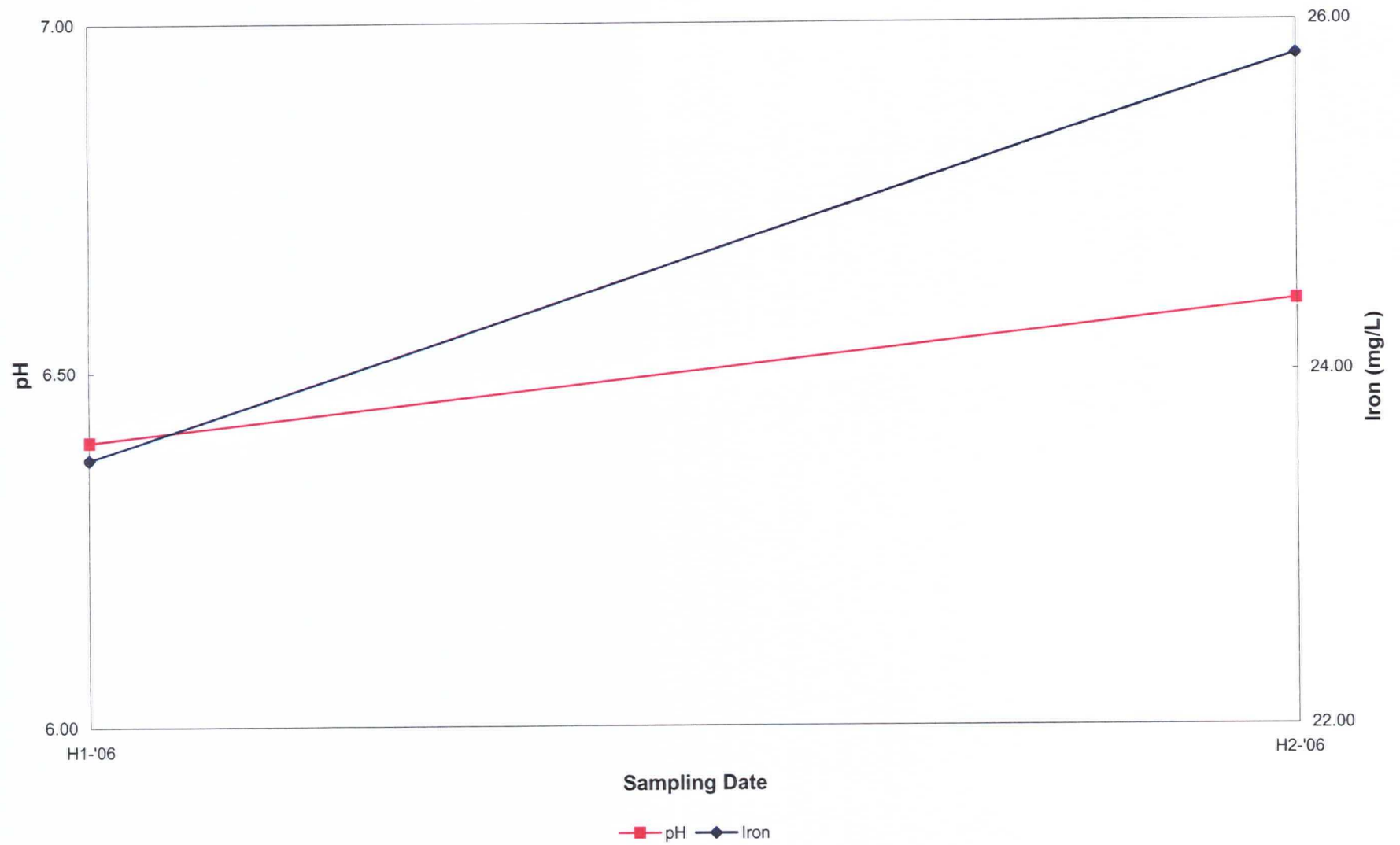
# Monitoring Well GW-12



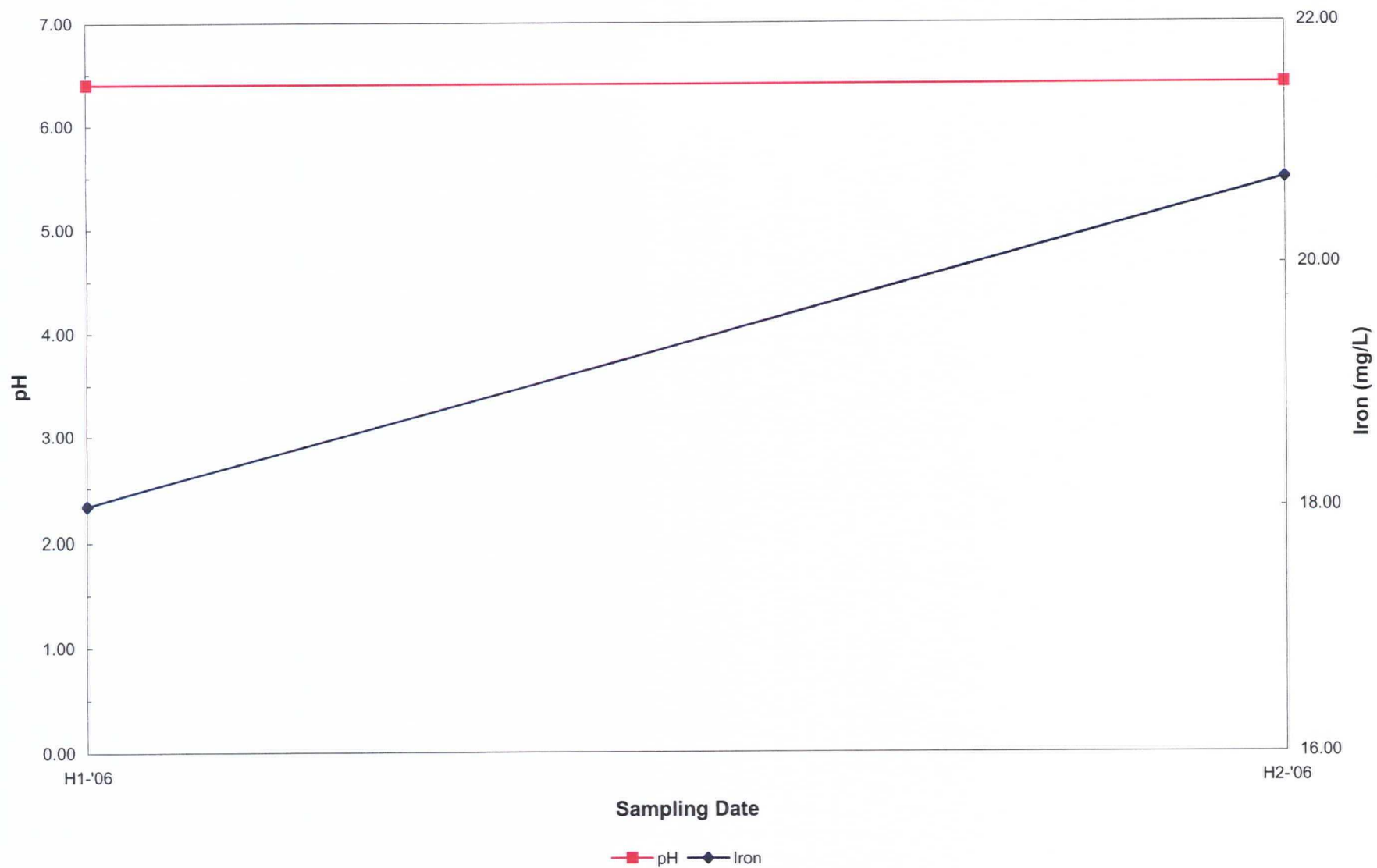
# Monitoring Well GW-13



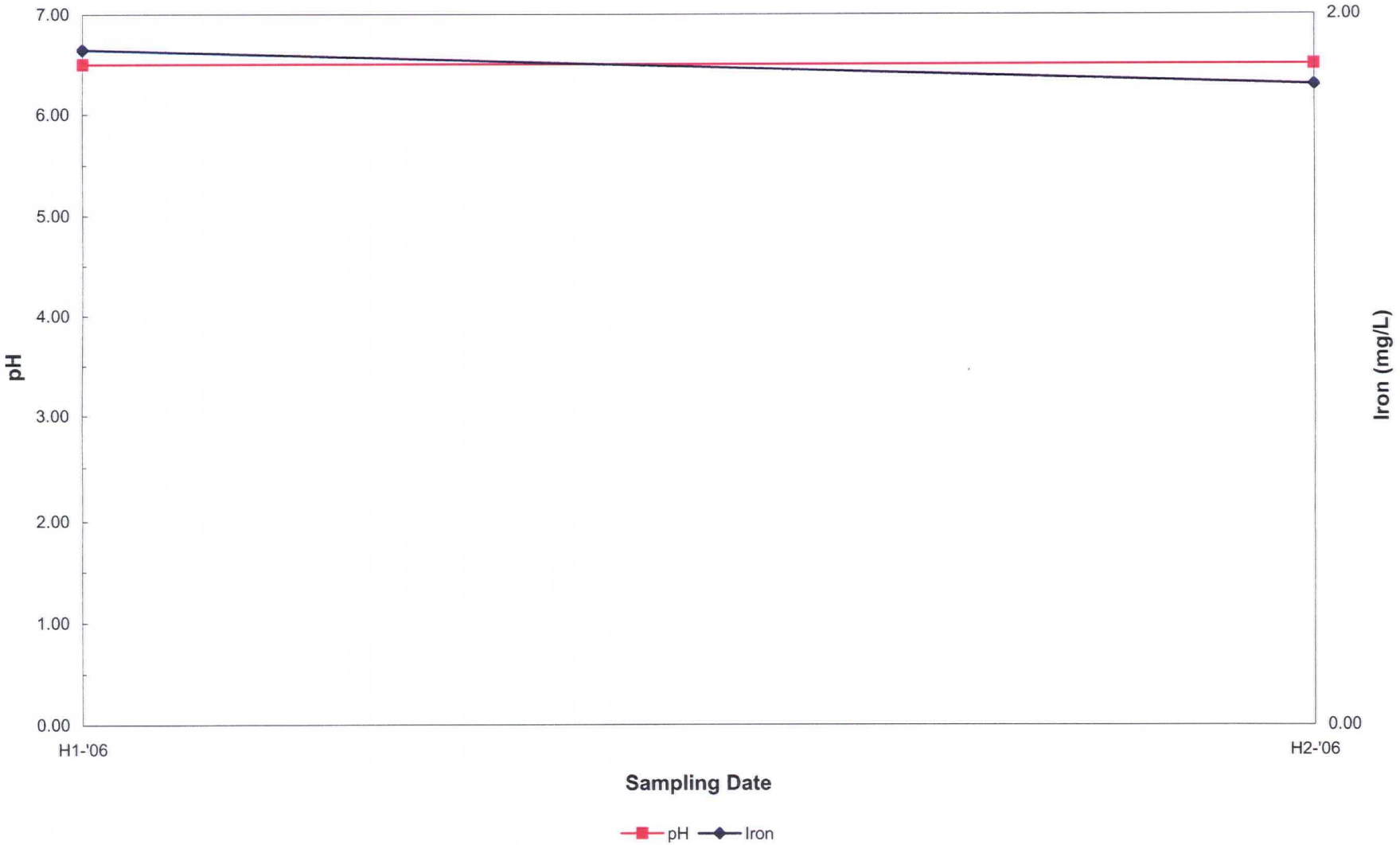
# Monitoring Well GW-14



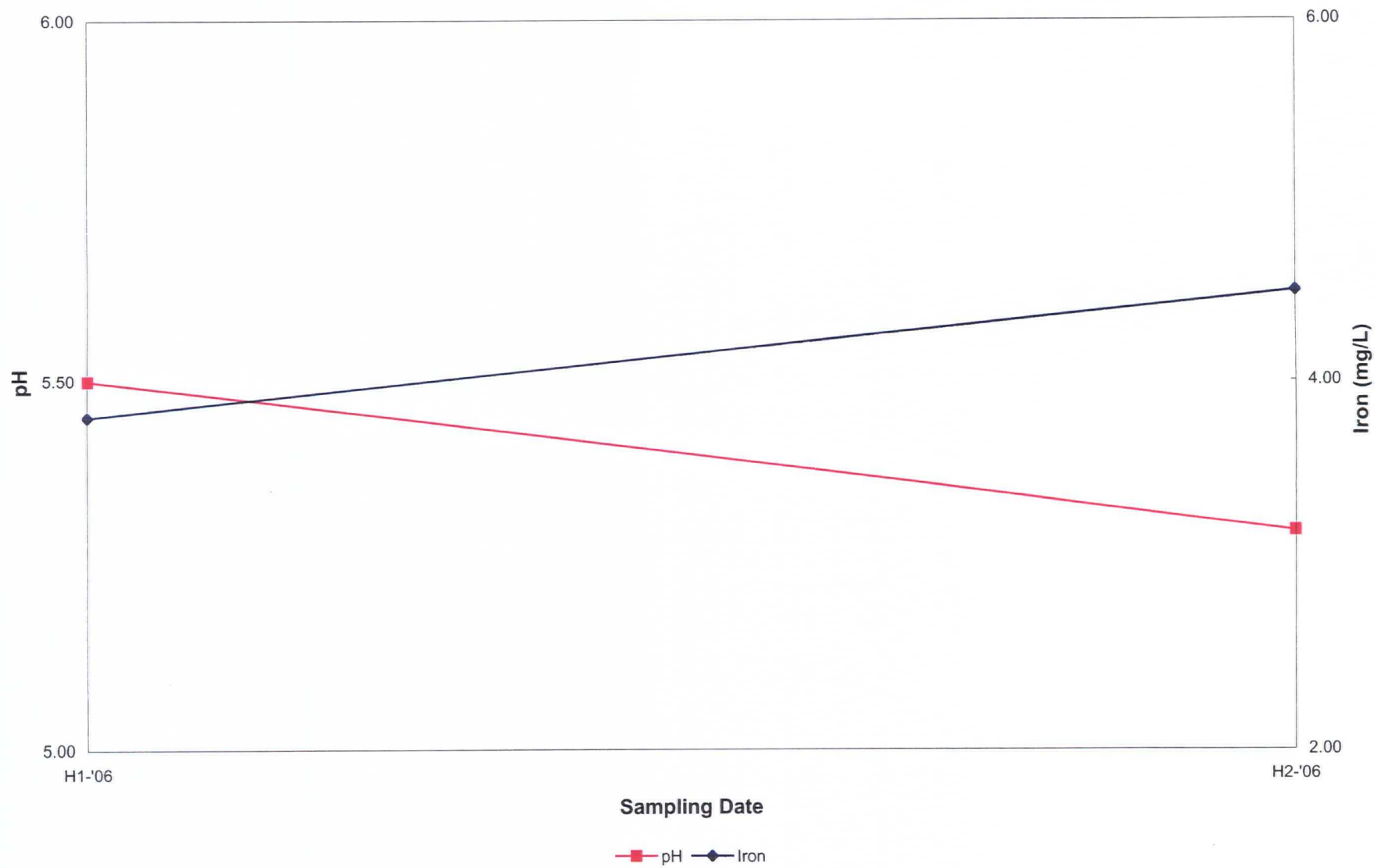
# Monitoring Well GW-15



Monitoring Well GW-16

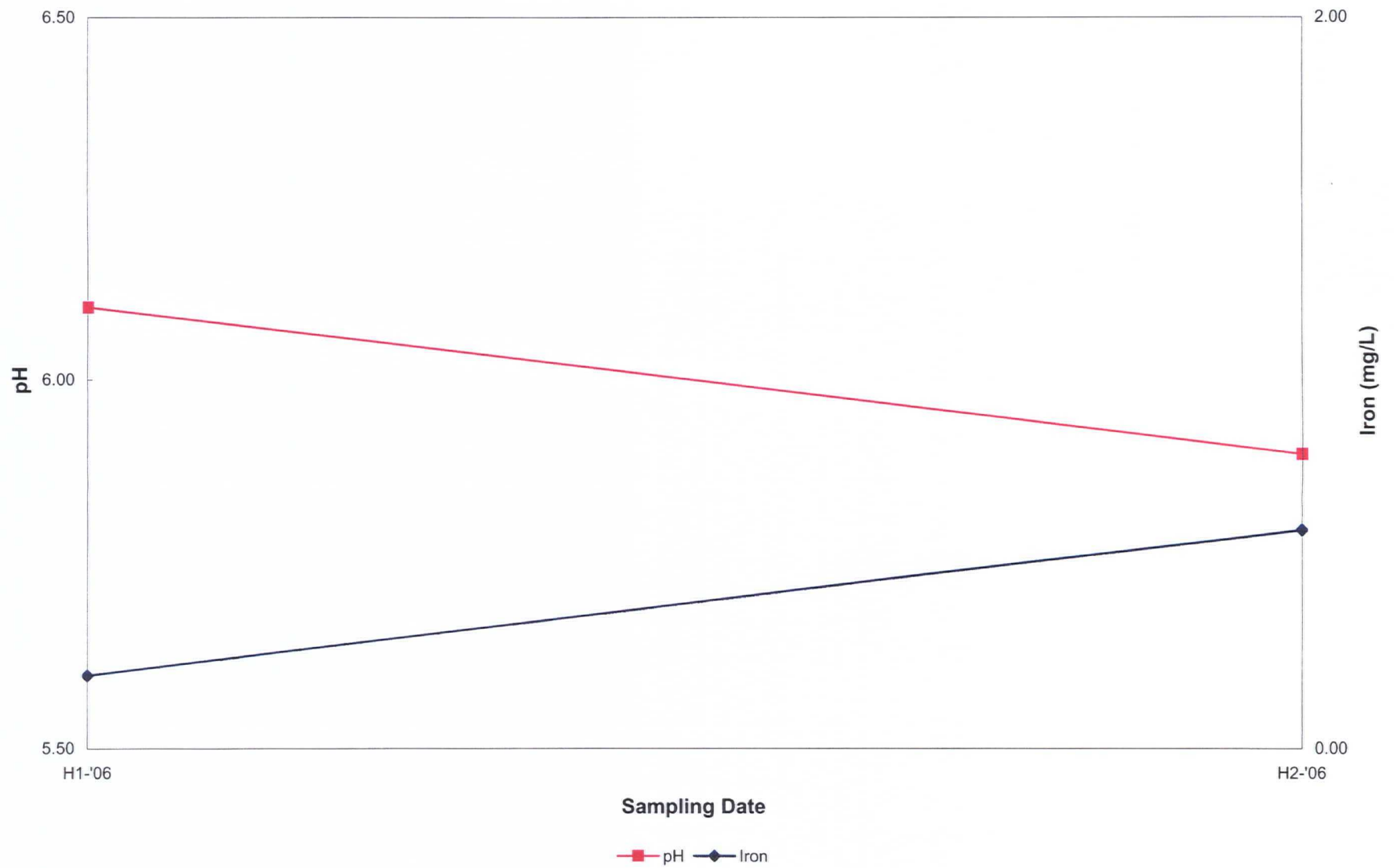


# Monitoring Well GW-17



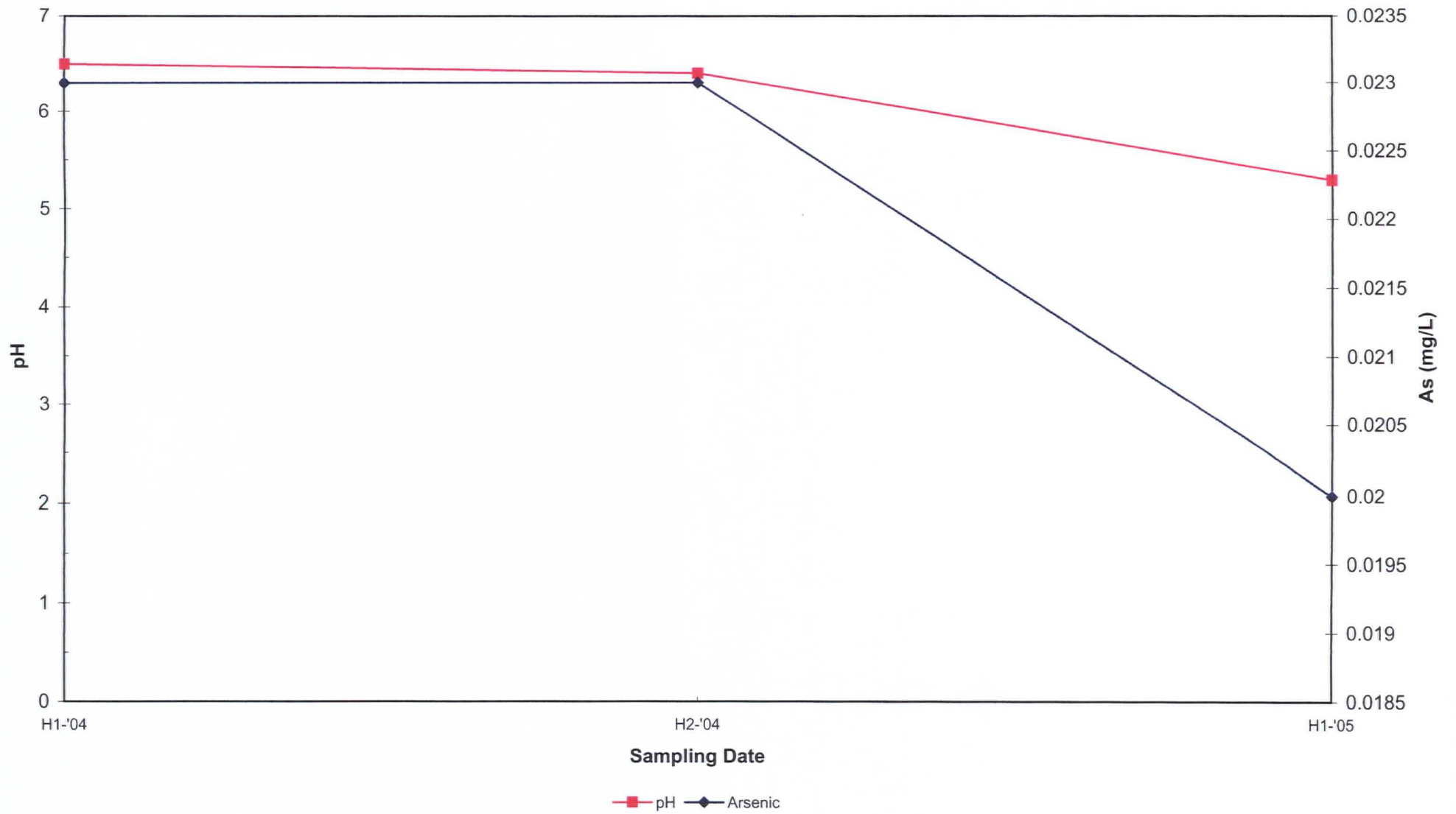


# Monitoring Well BGW-1

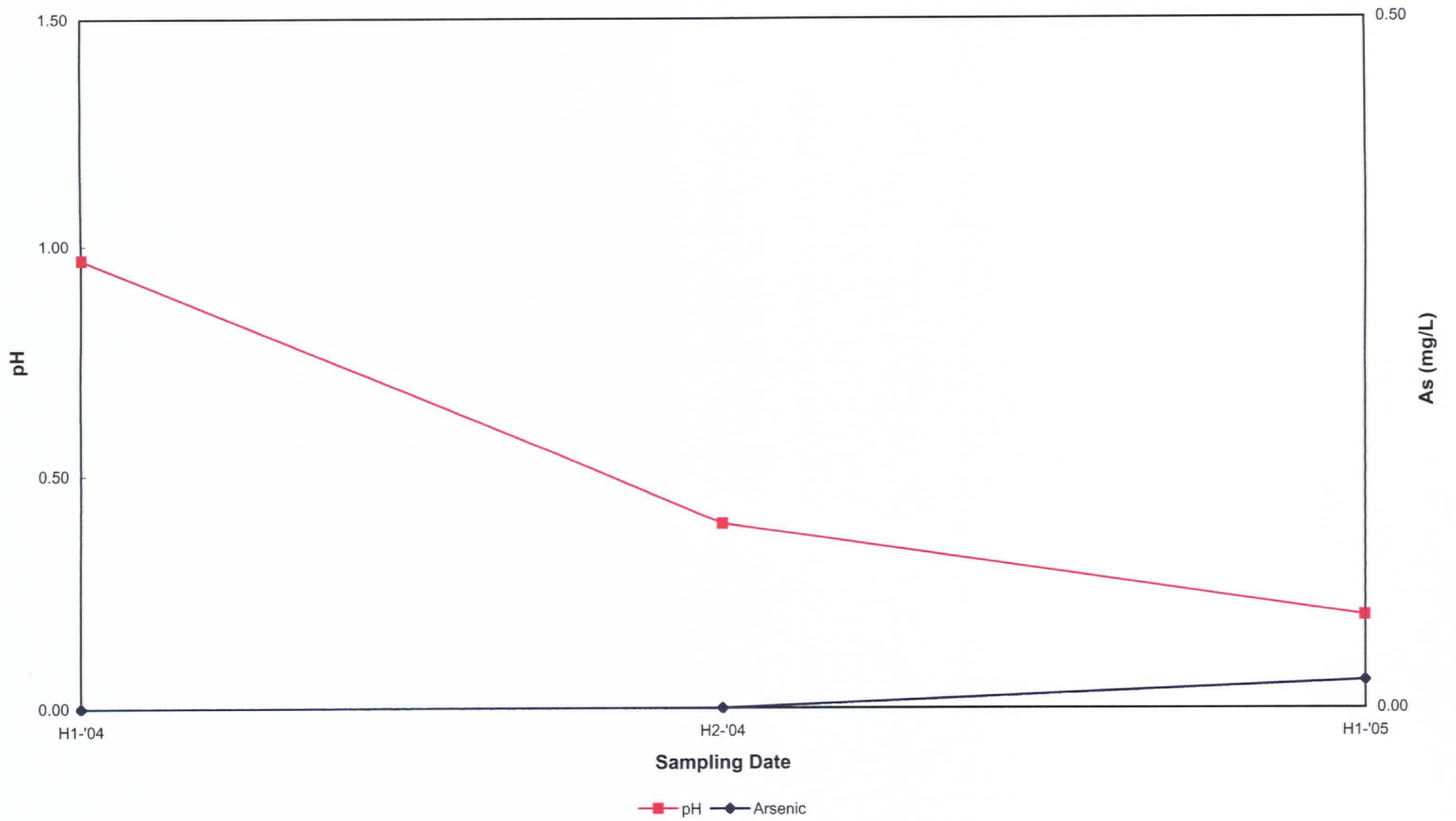


## **B-2 – pH versus Arsenic**

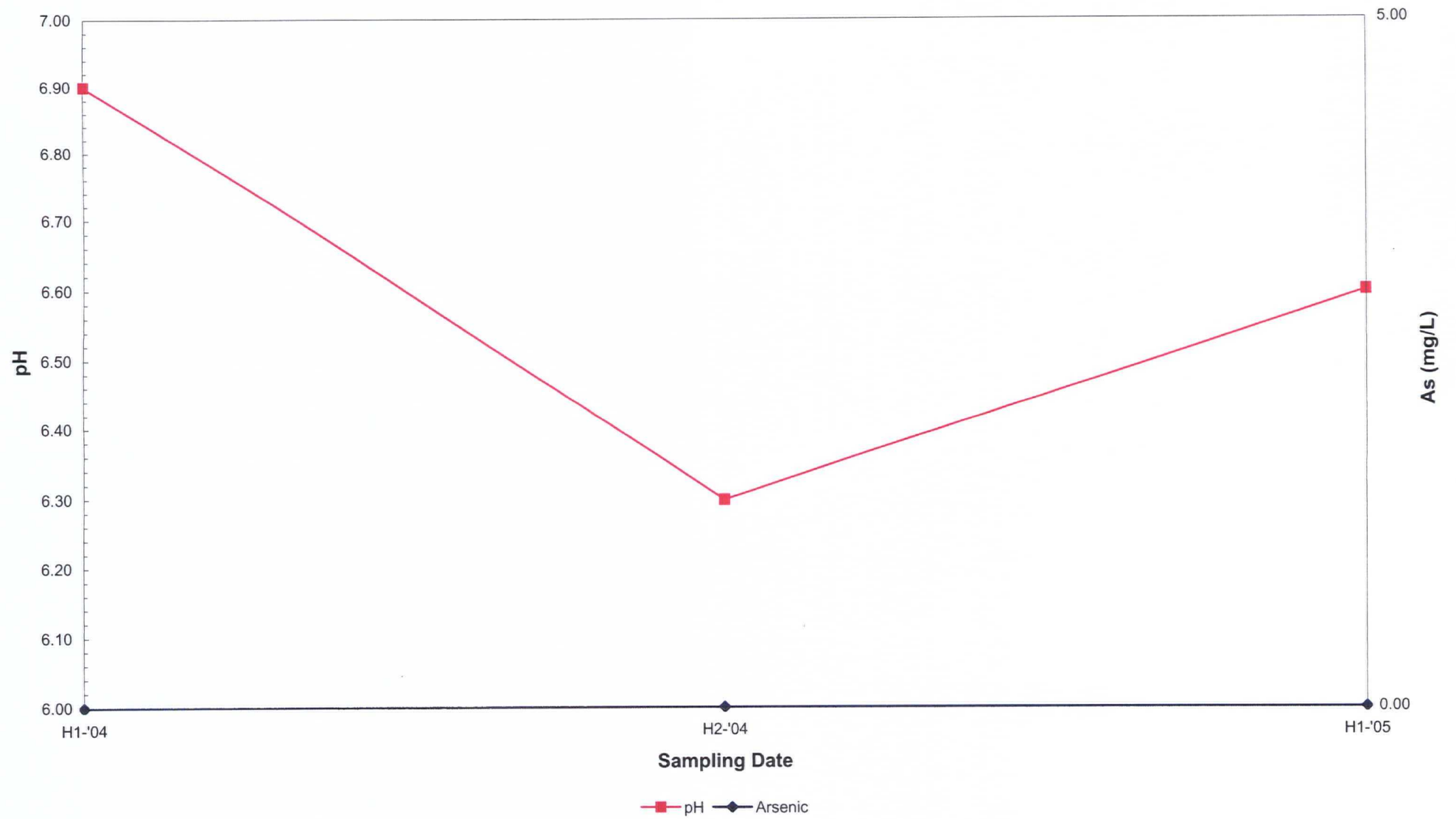
# Monitoring Well CW- 4



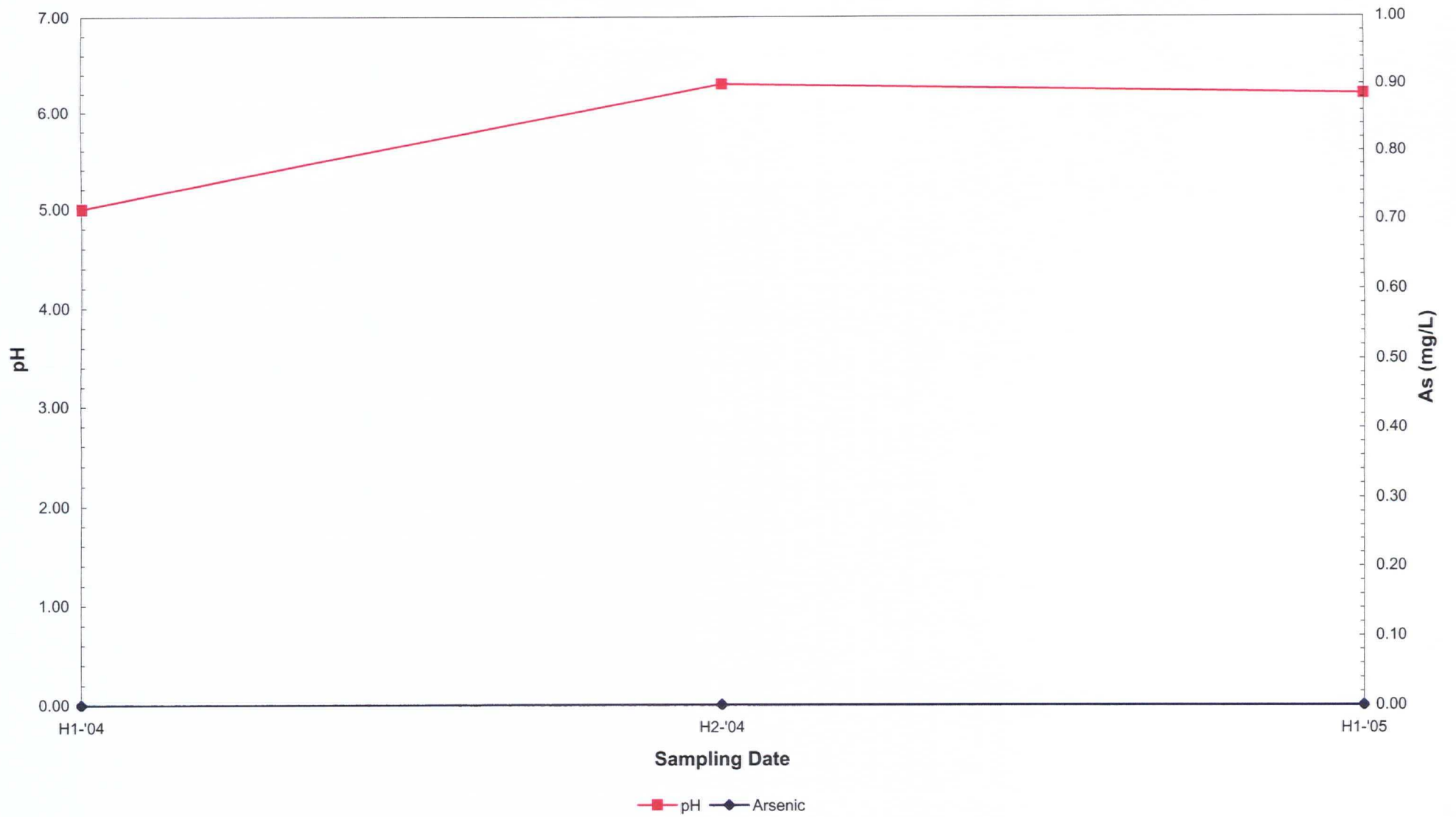
# Monitoring Well CW- 5A



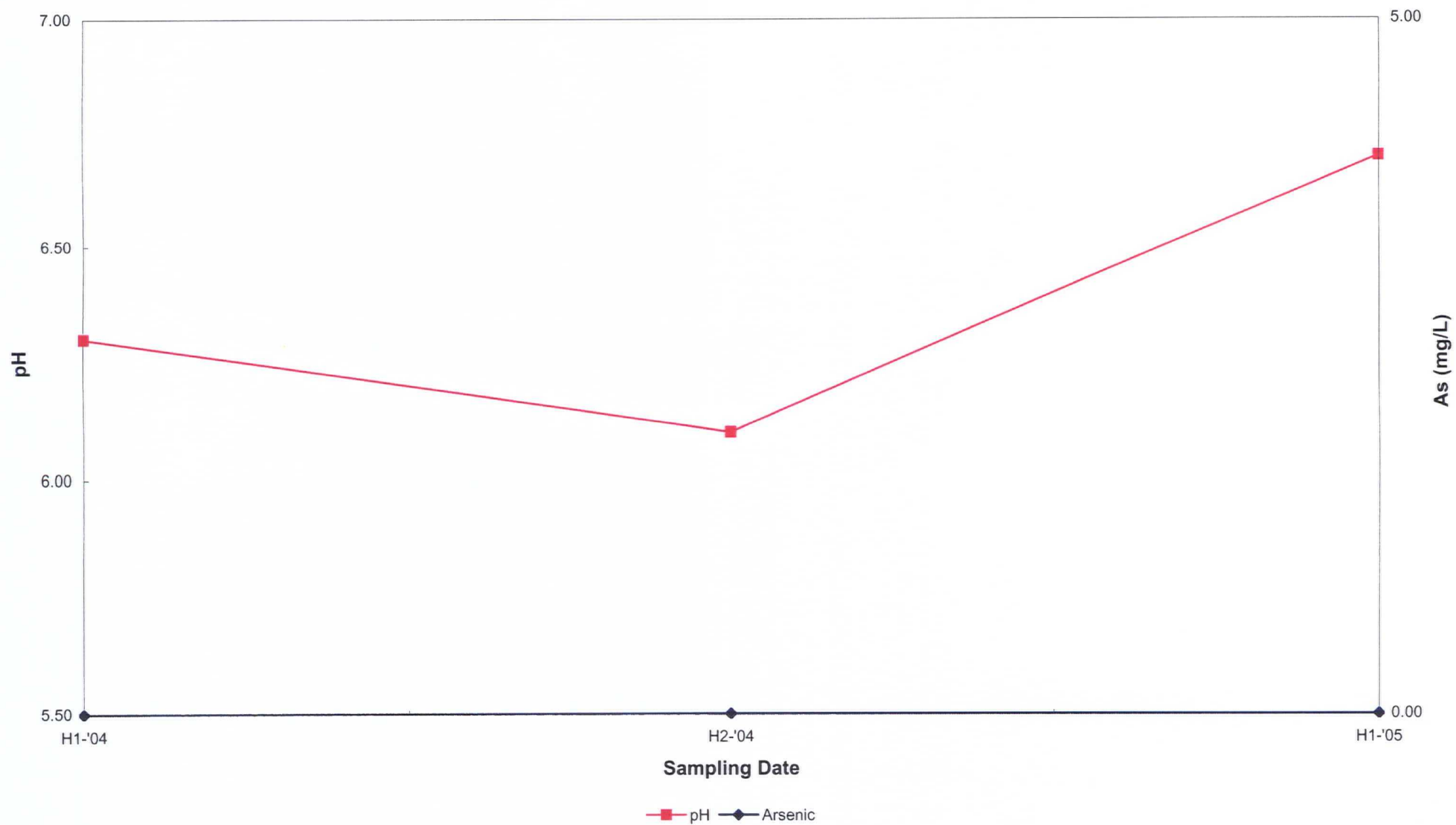
# Monitoring Well GC-1A



# Monitoring Well GC-2

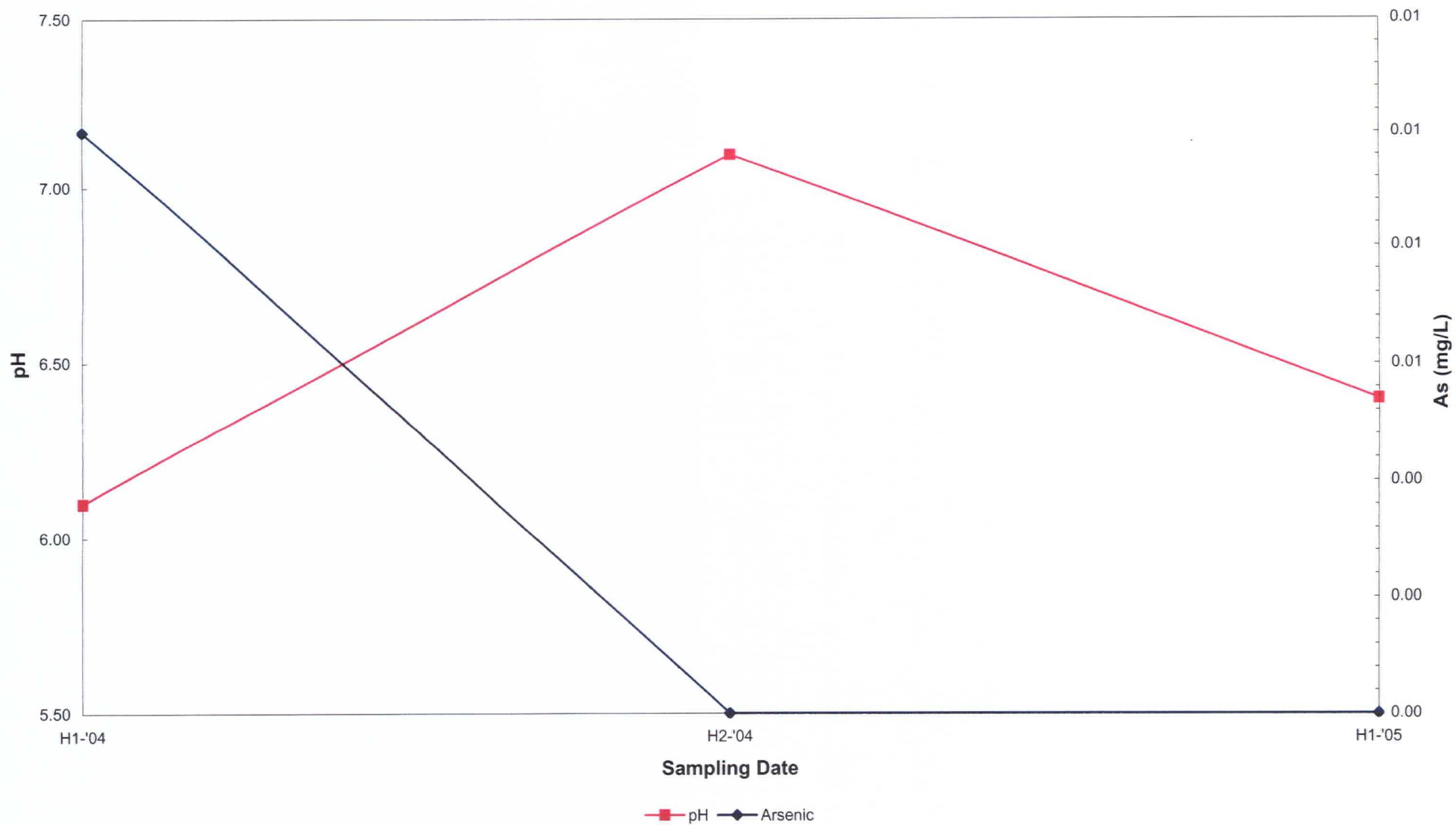


# Monitoring Well GC-3

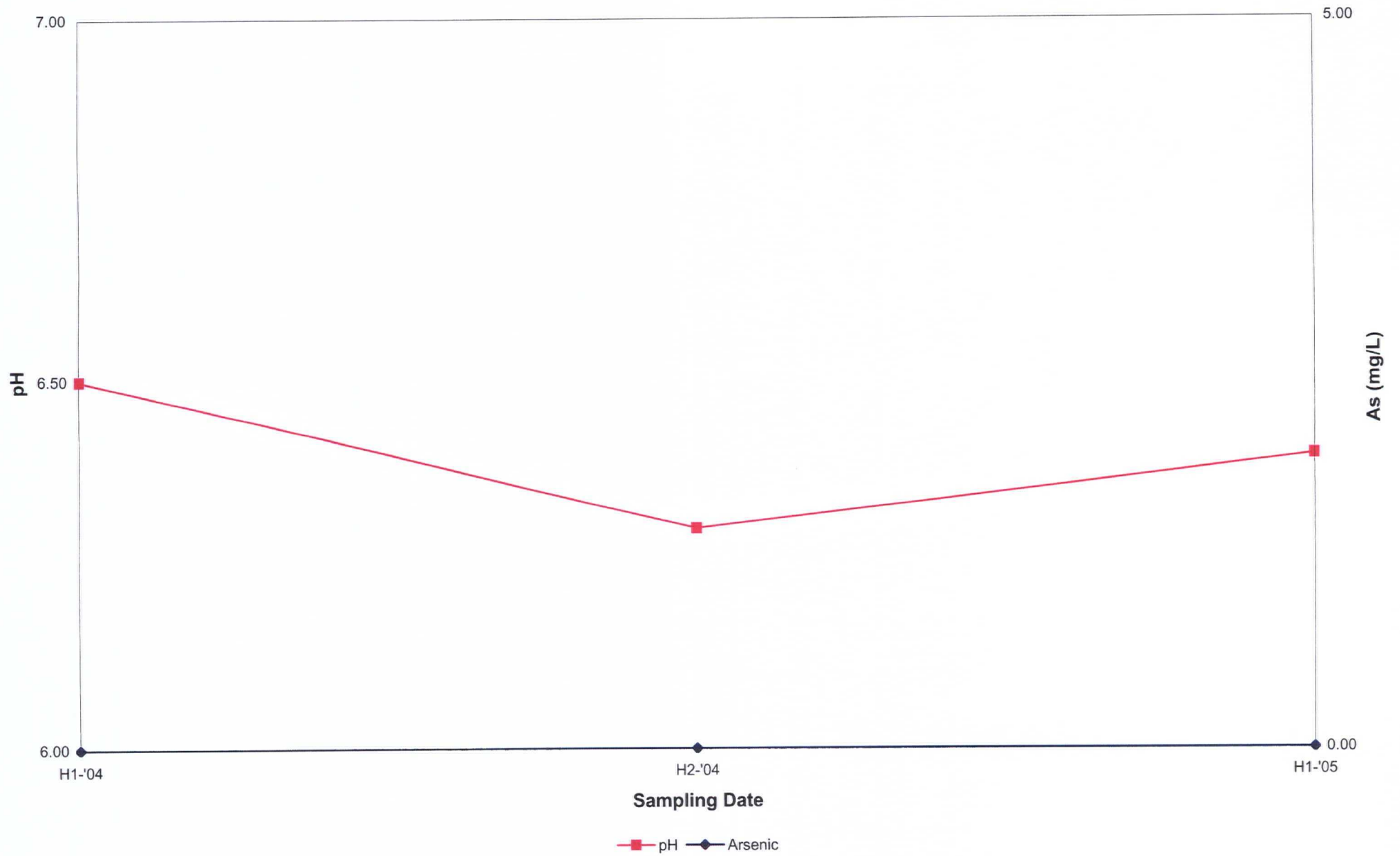




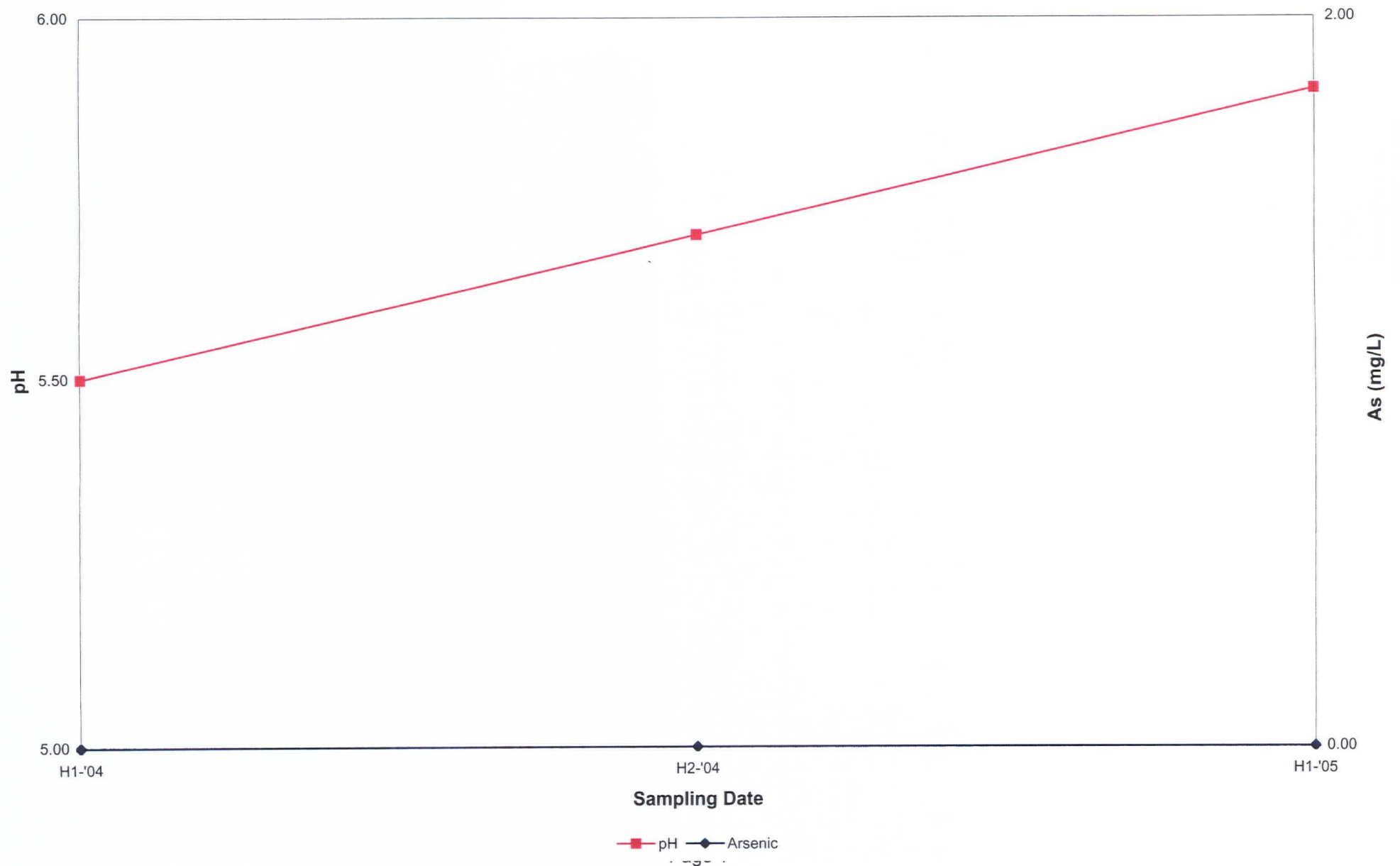
# Monitoring Well GC-4



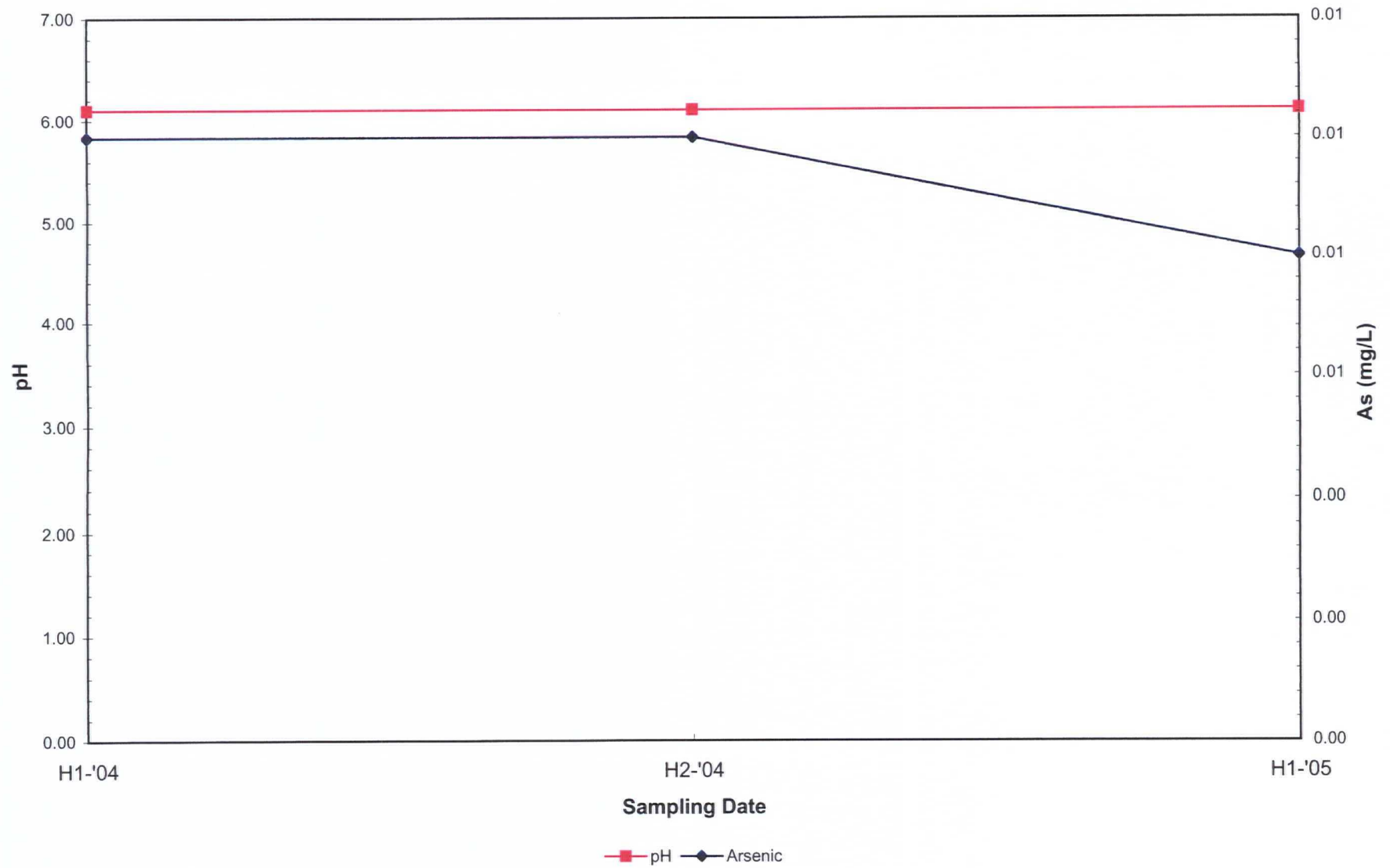
# Monitoring Well GC- 5



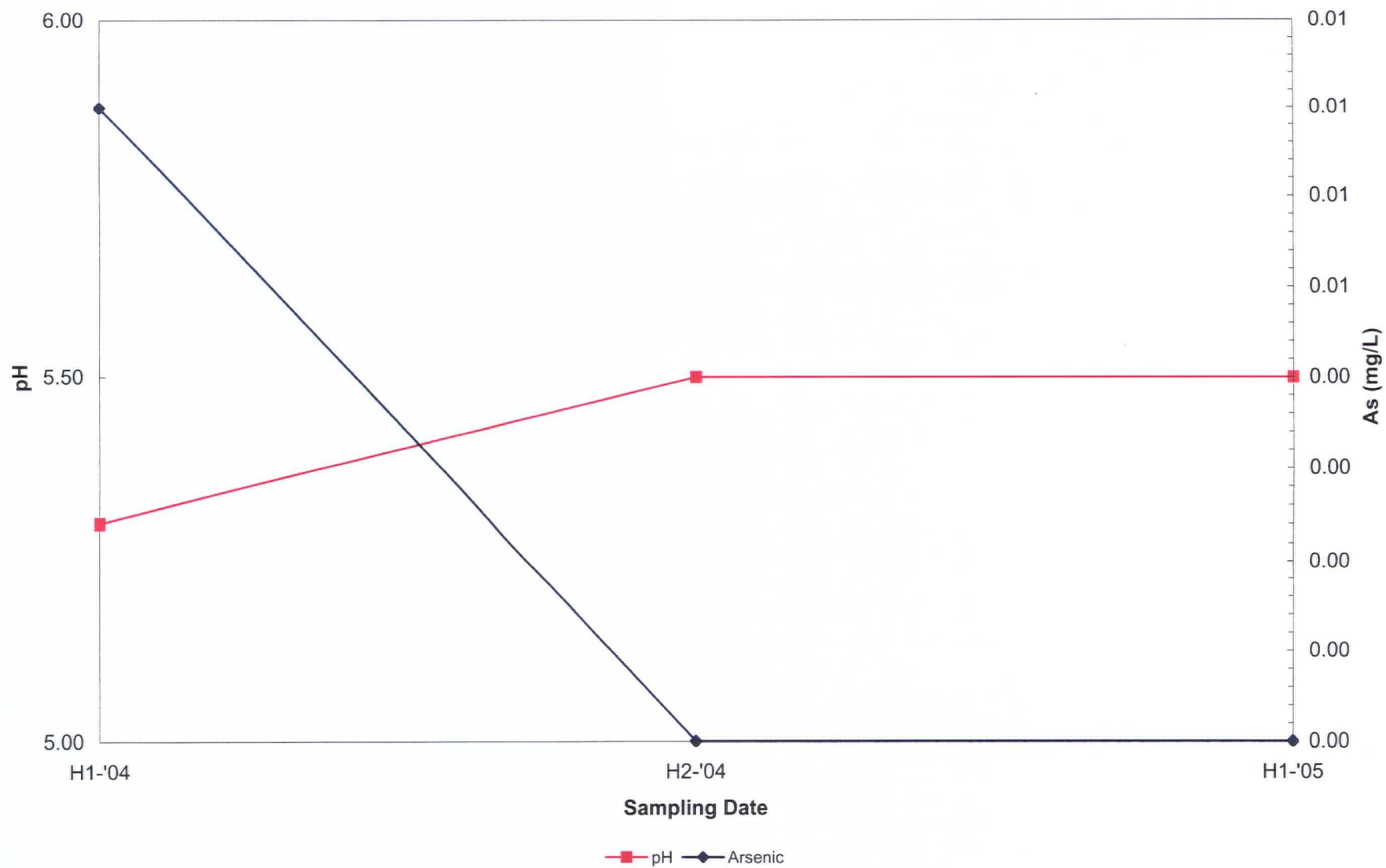
# Monitoring Well GC-6



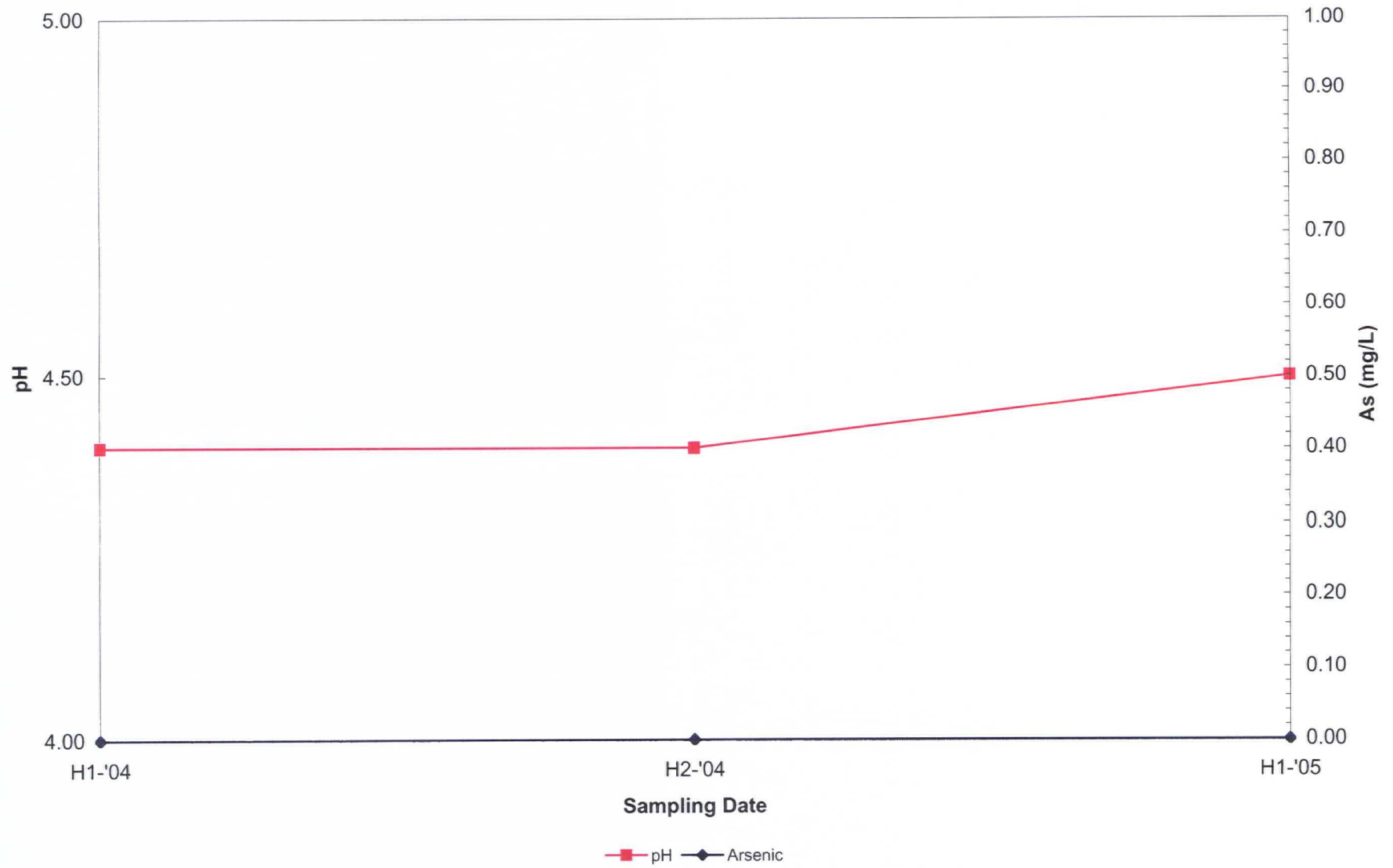
# Monitoring Well LR11-1



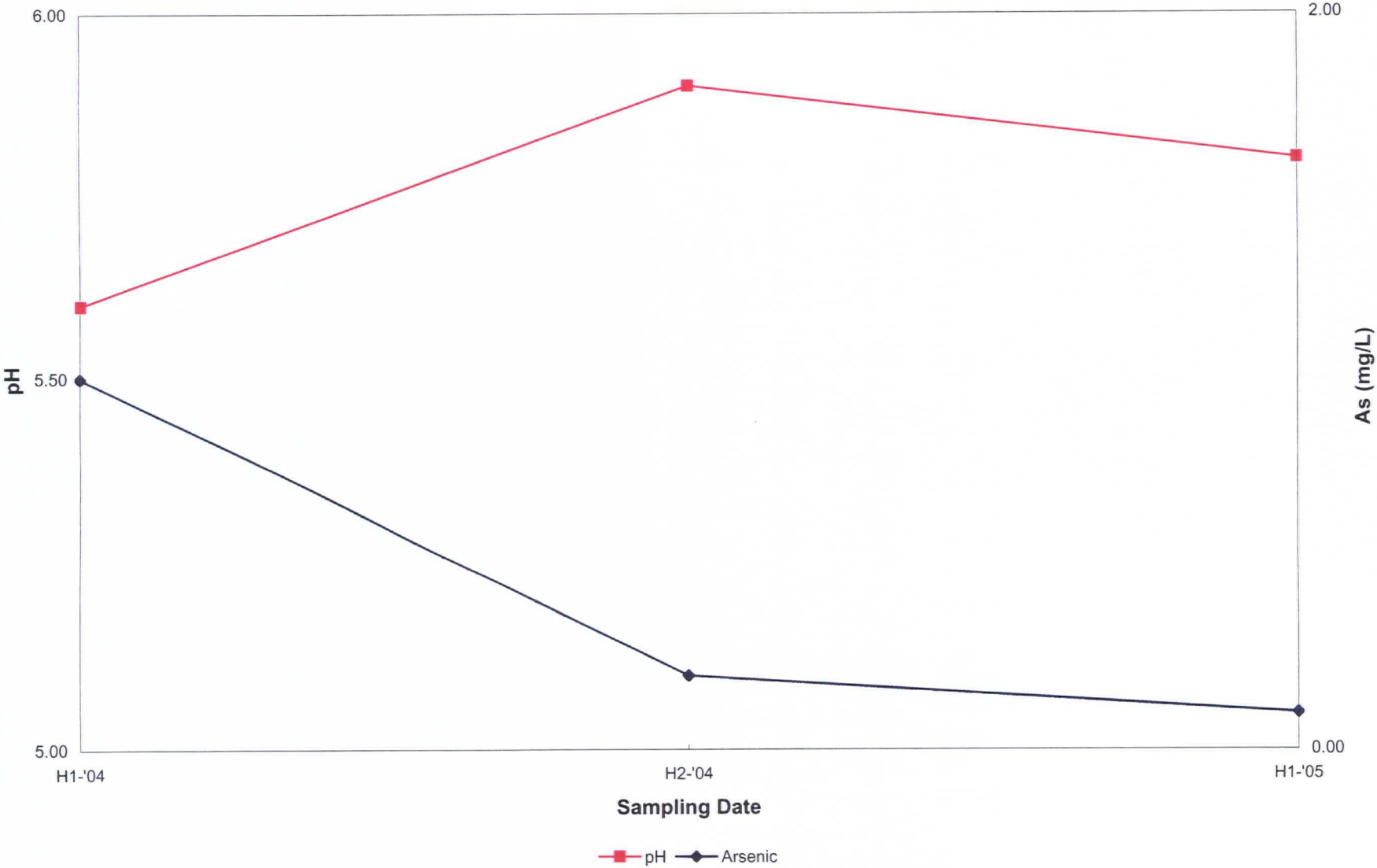
# Monitoring Well LR11-2



# Monitoring Well LR11-3

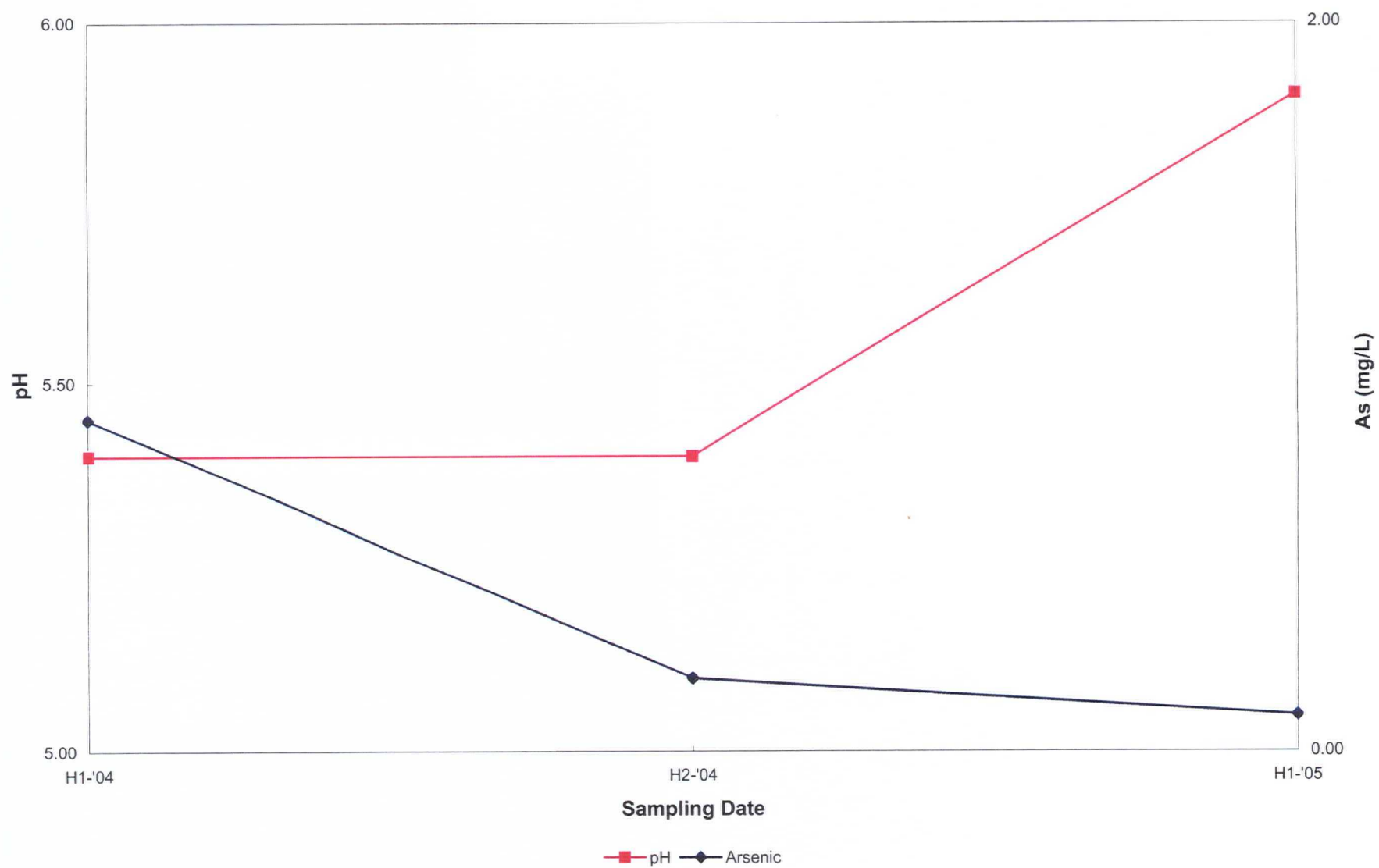


Monitoring Well LR11-4

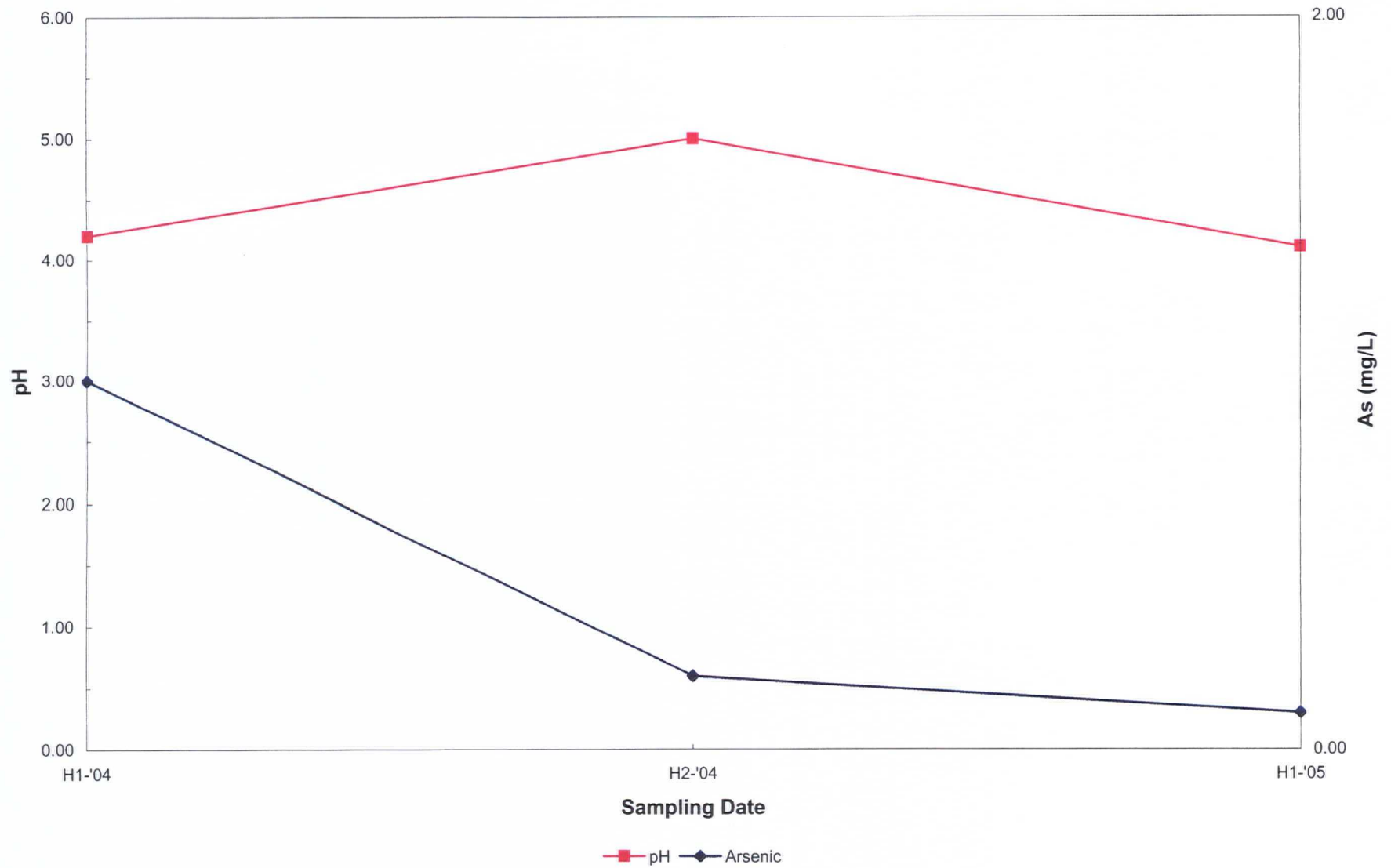




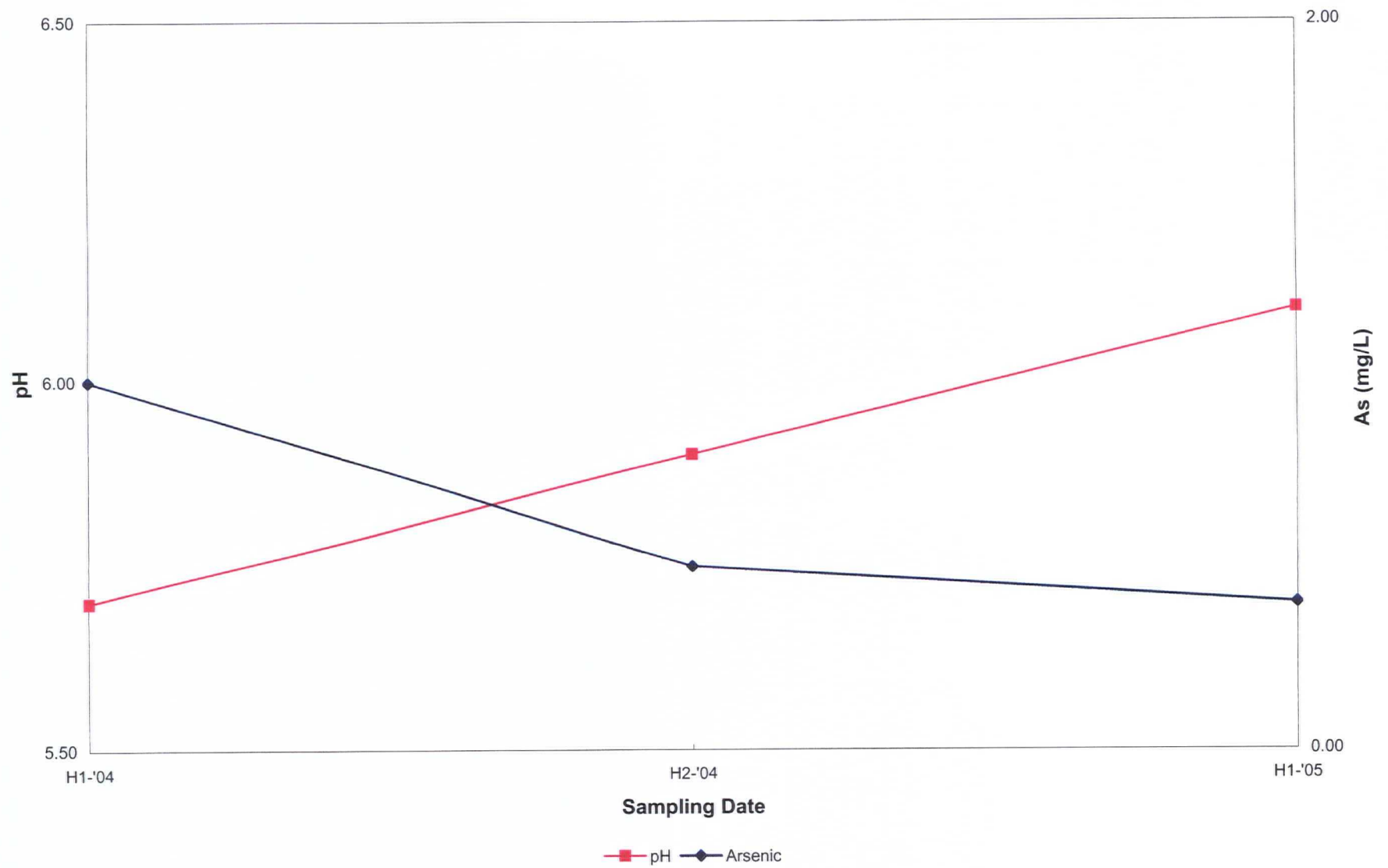
# Monitoring Well LR11-5



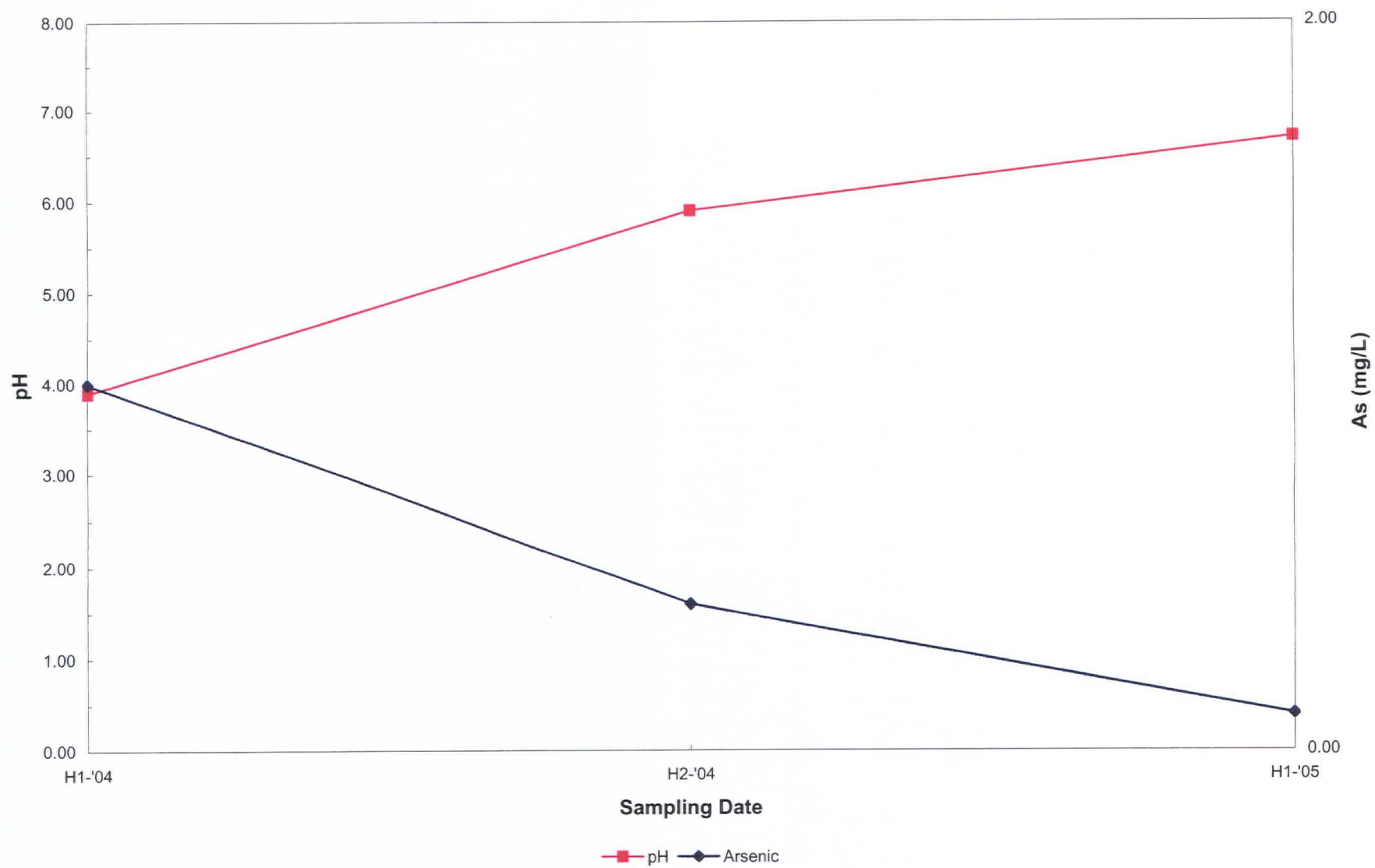
# Monitoring Well MW-1



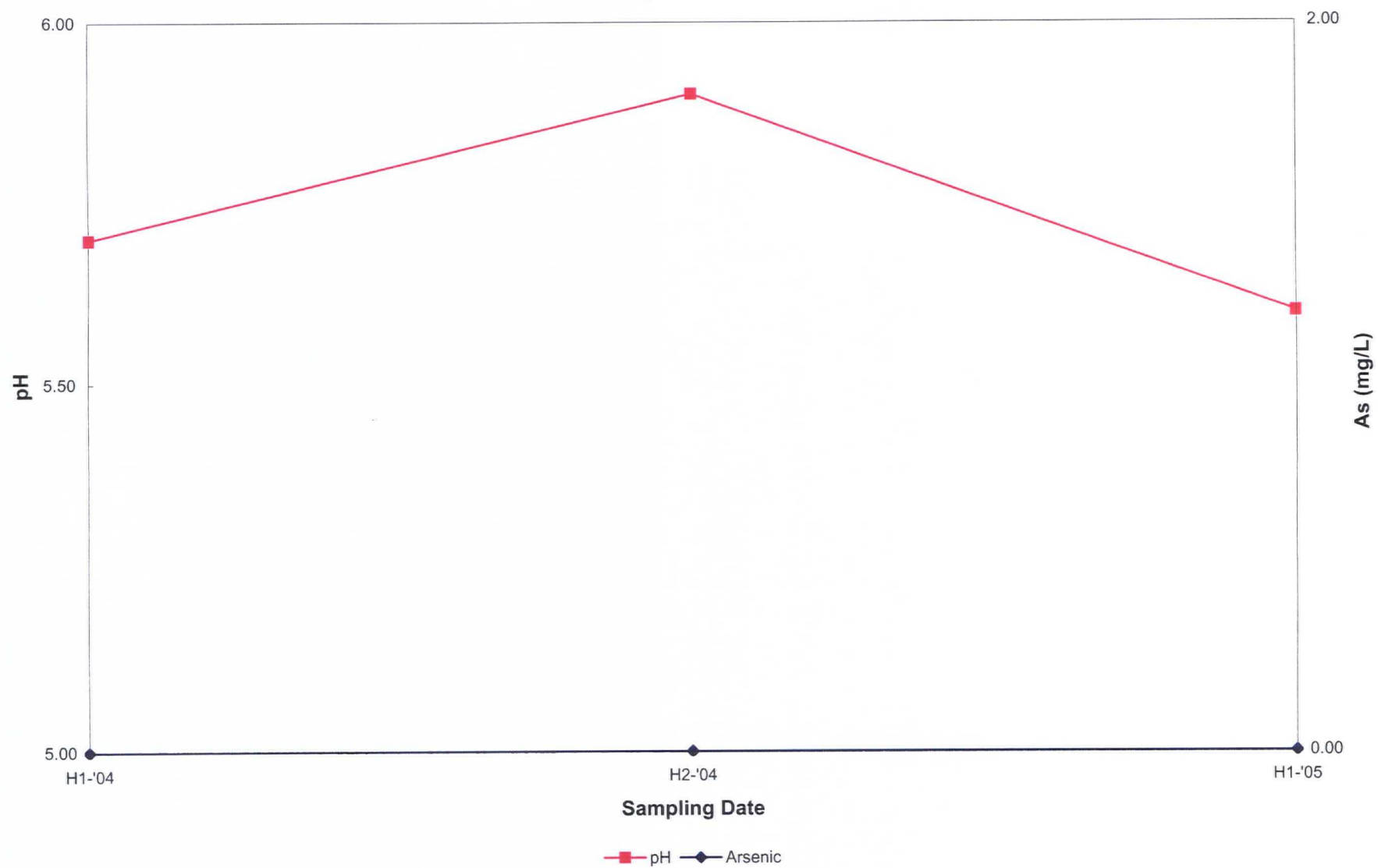
# Monitoring Well MW-2



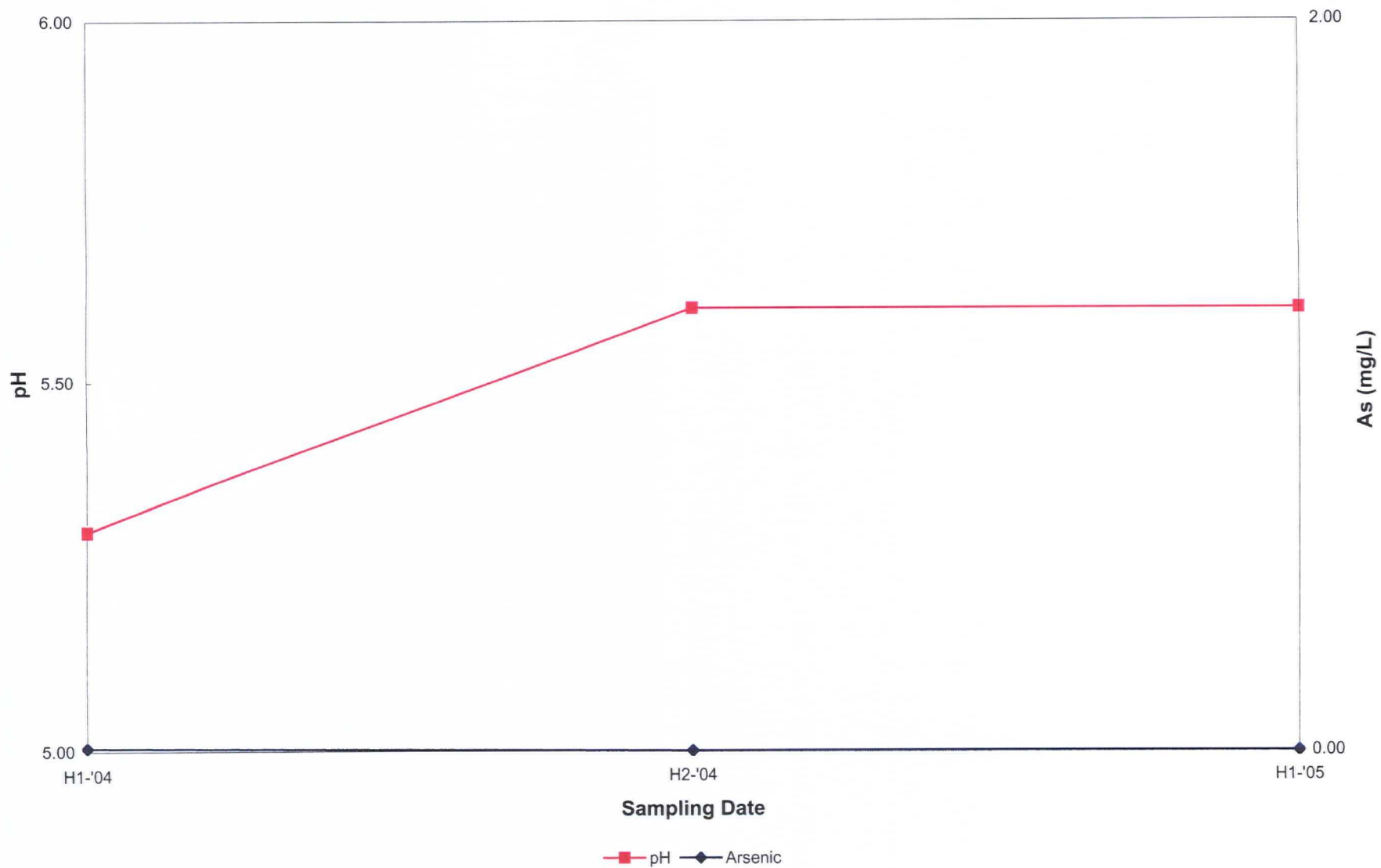
### Monitoring Well MW-3



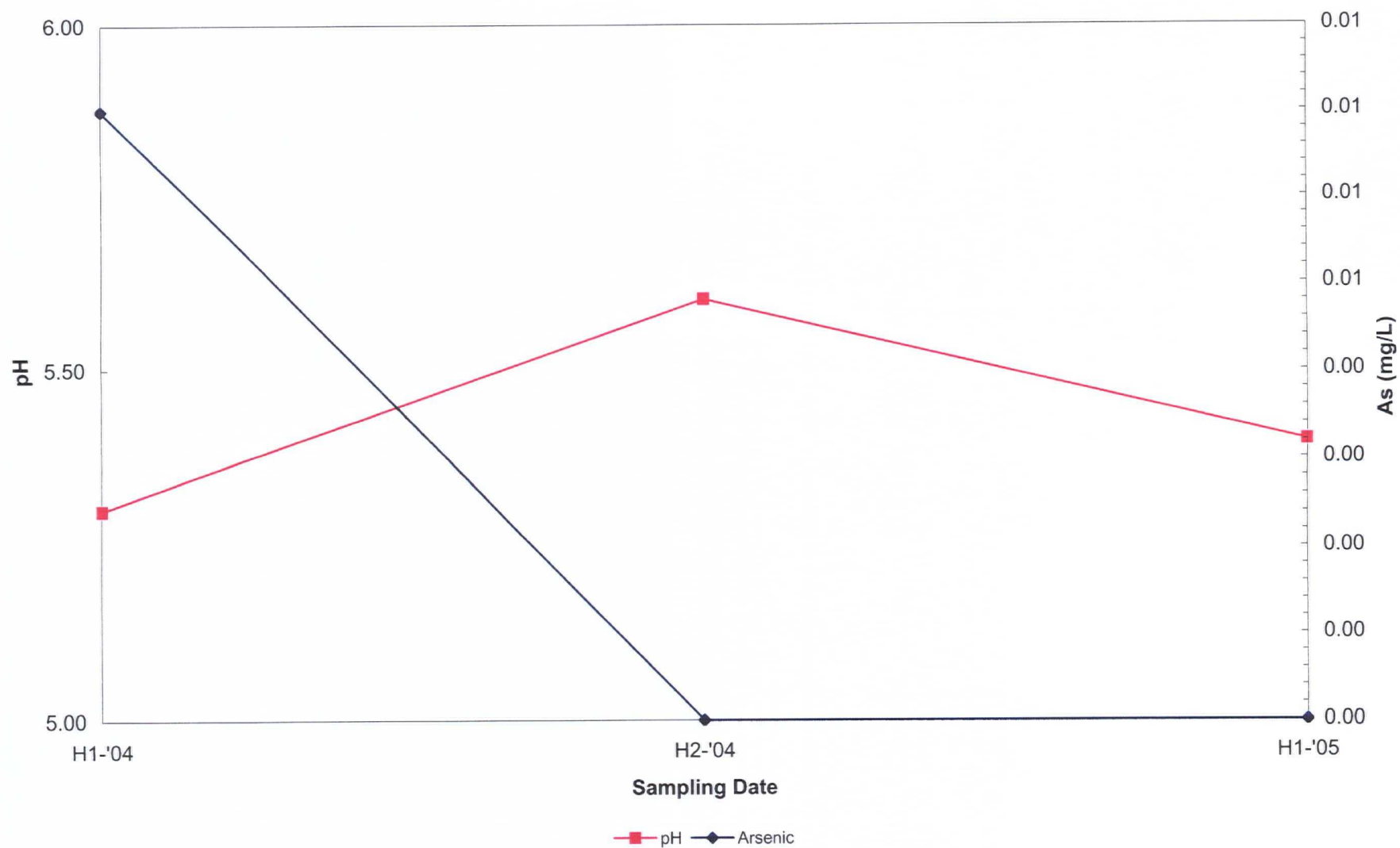
# Monitoring Well MW-5



# Monitoring Well MW-6

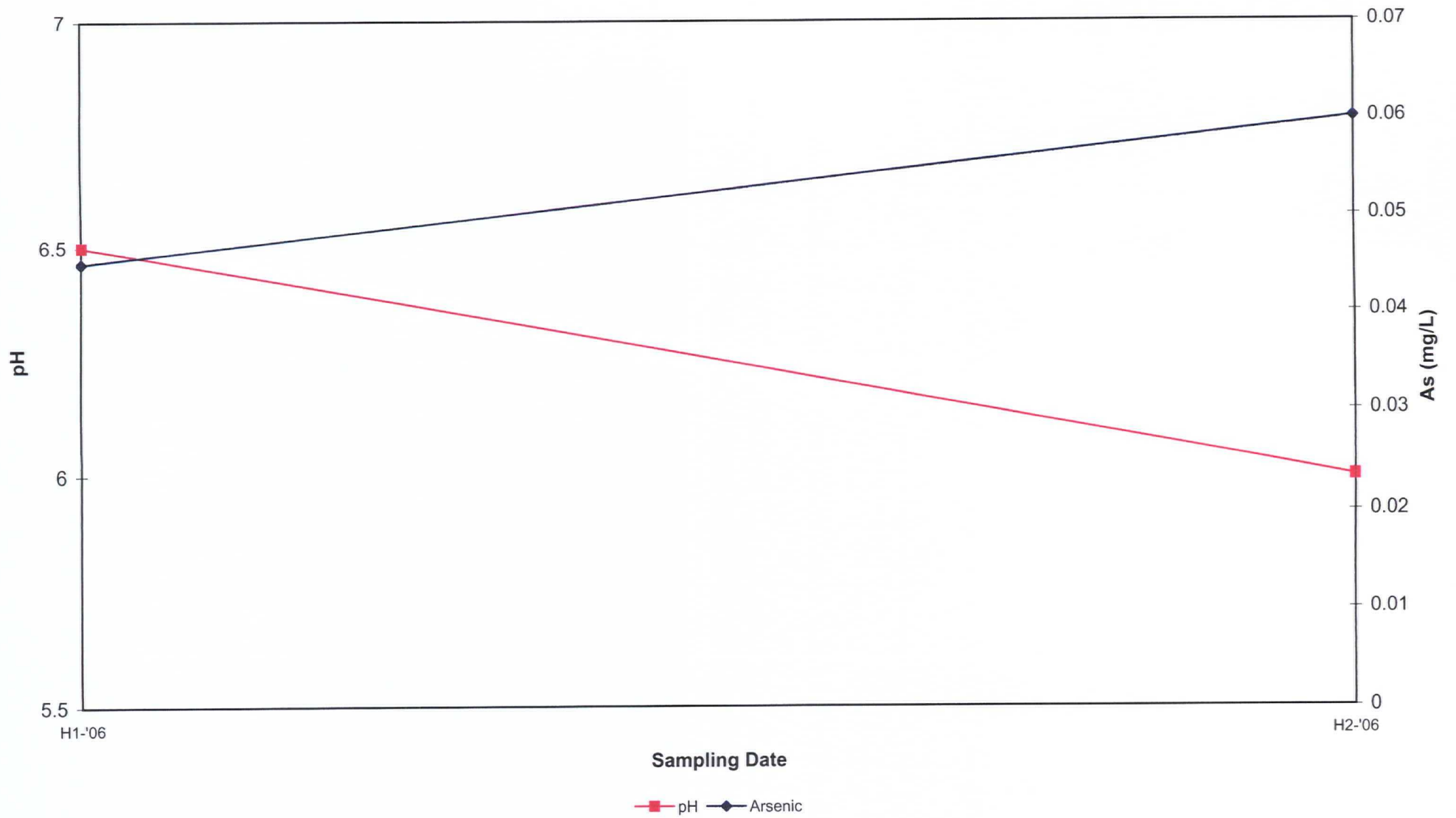


# Monitoring Well SMR-1

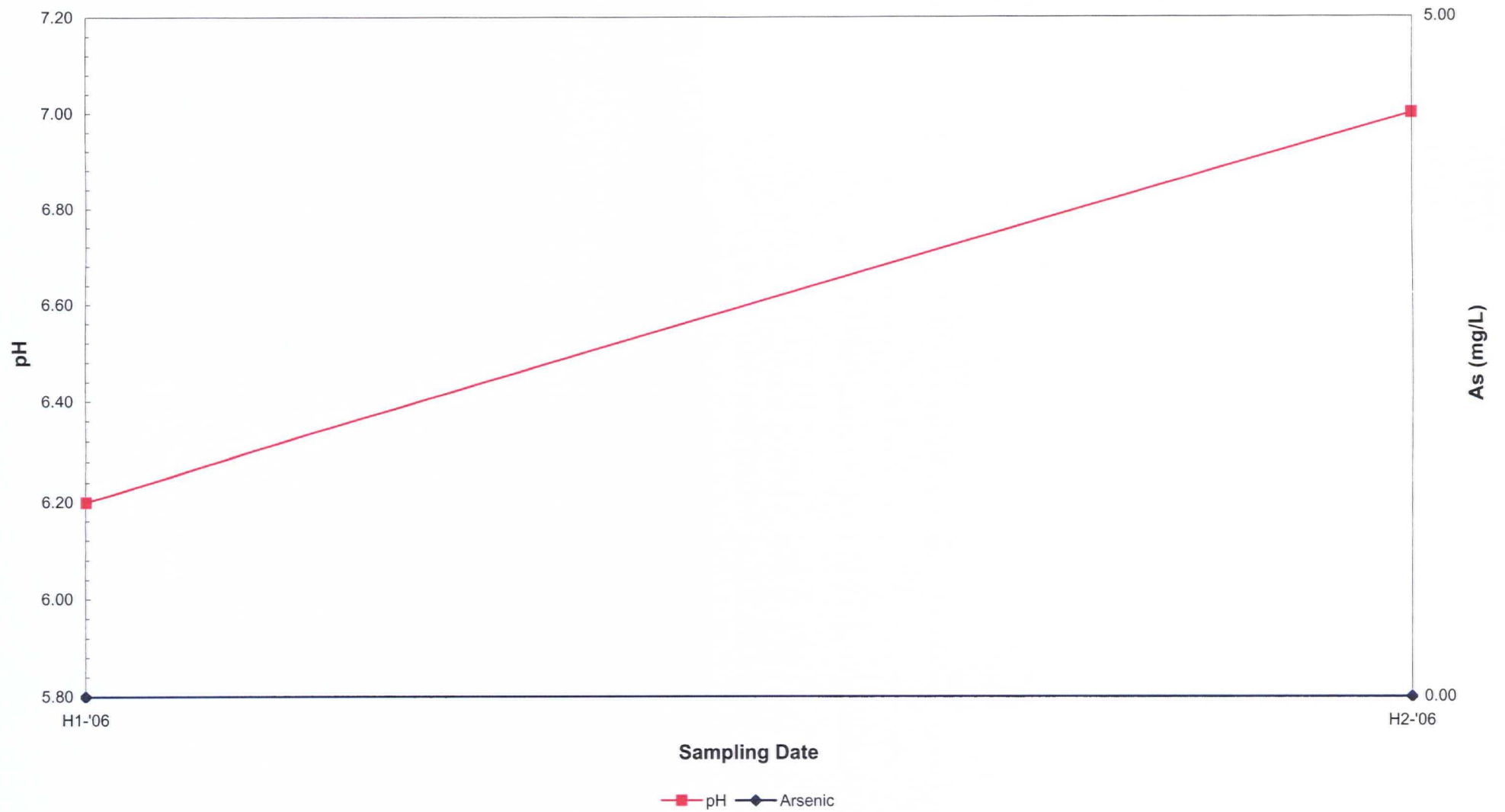




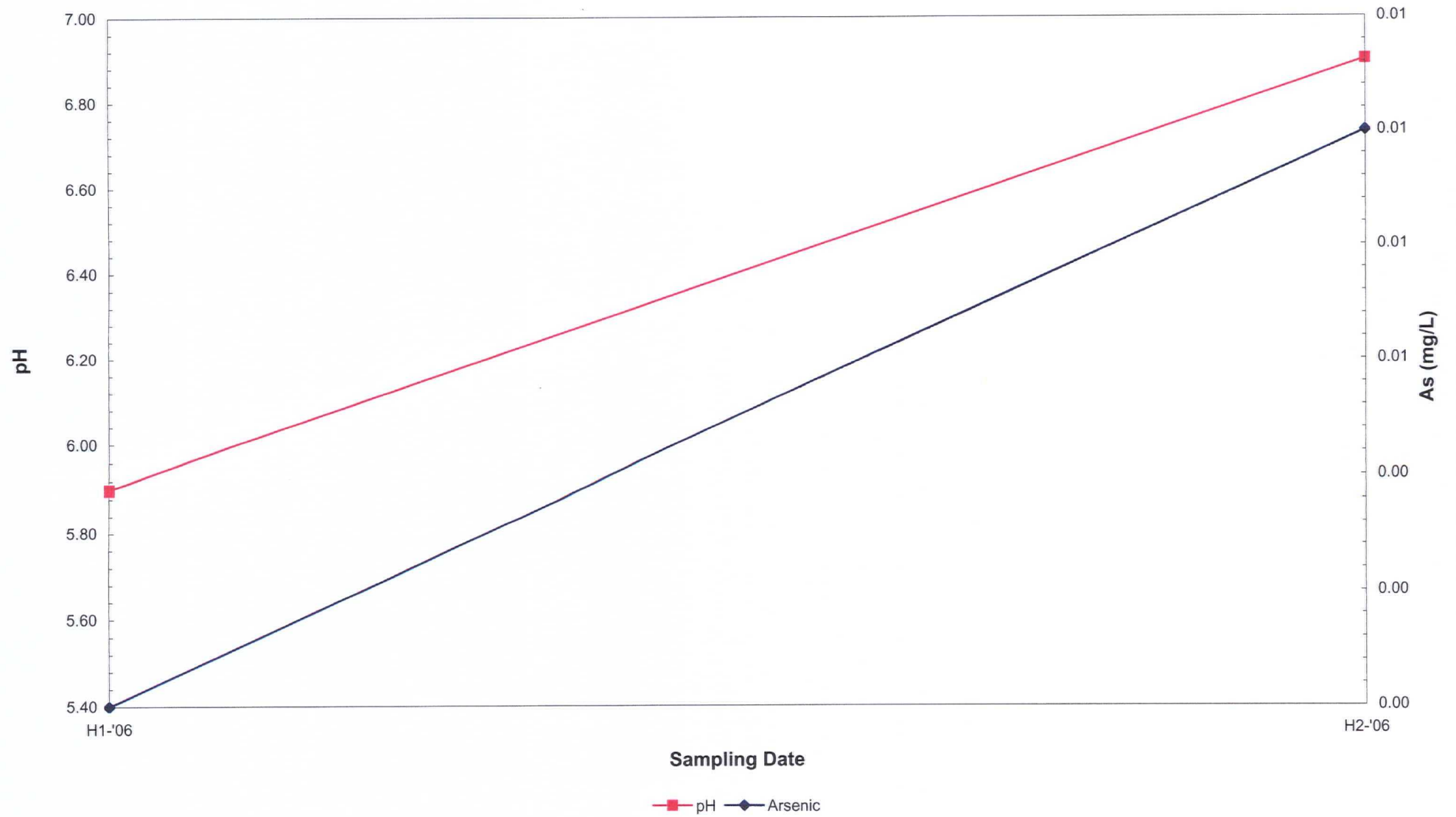
# Monitoring Well GW- 1



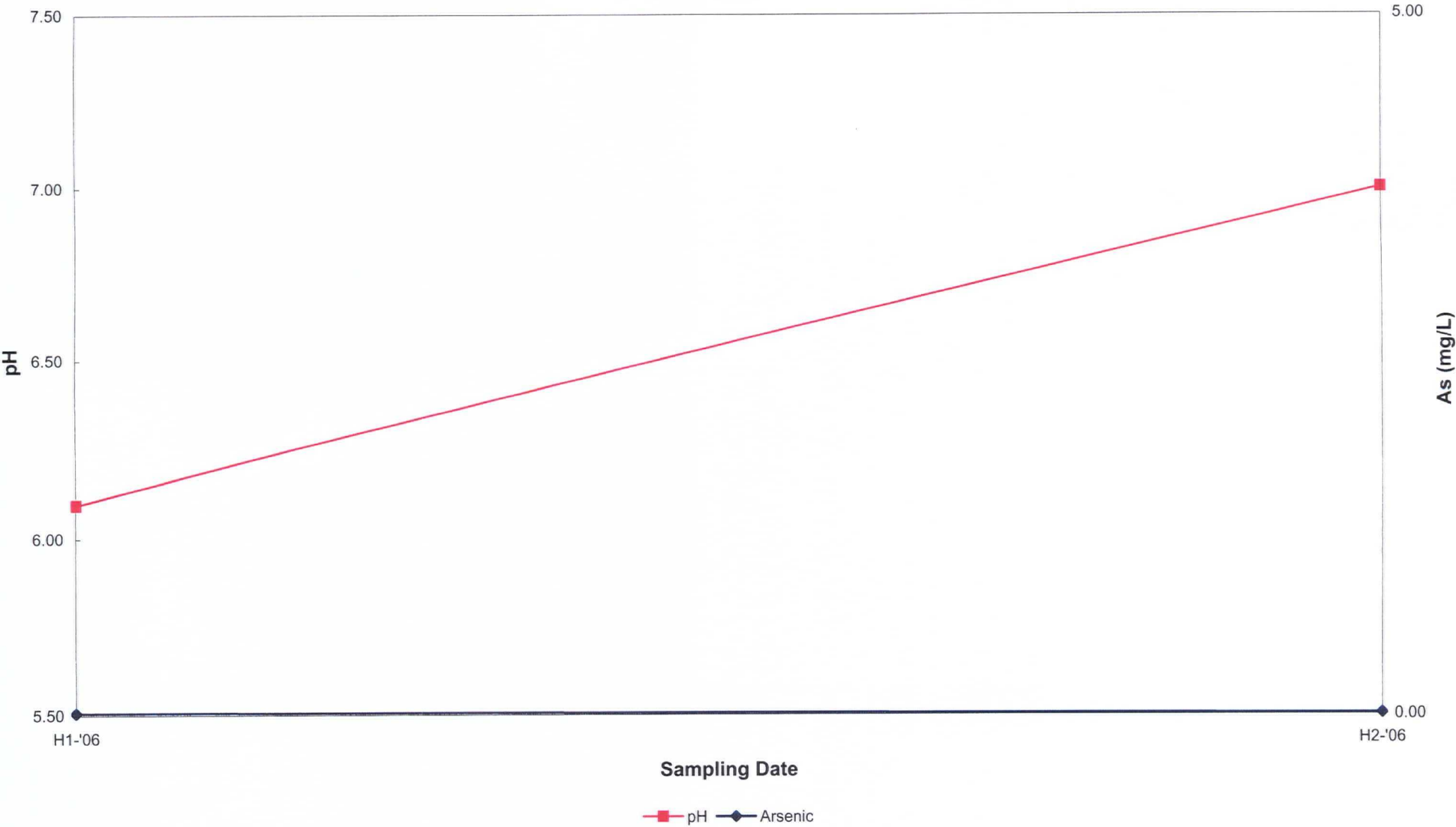
# Monitoring Well GW-3



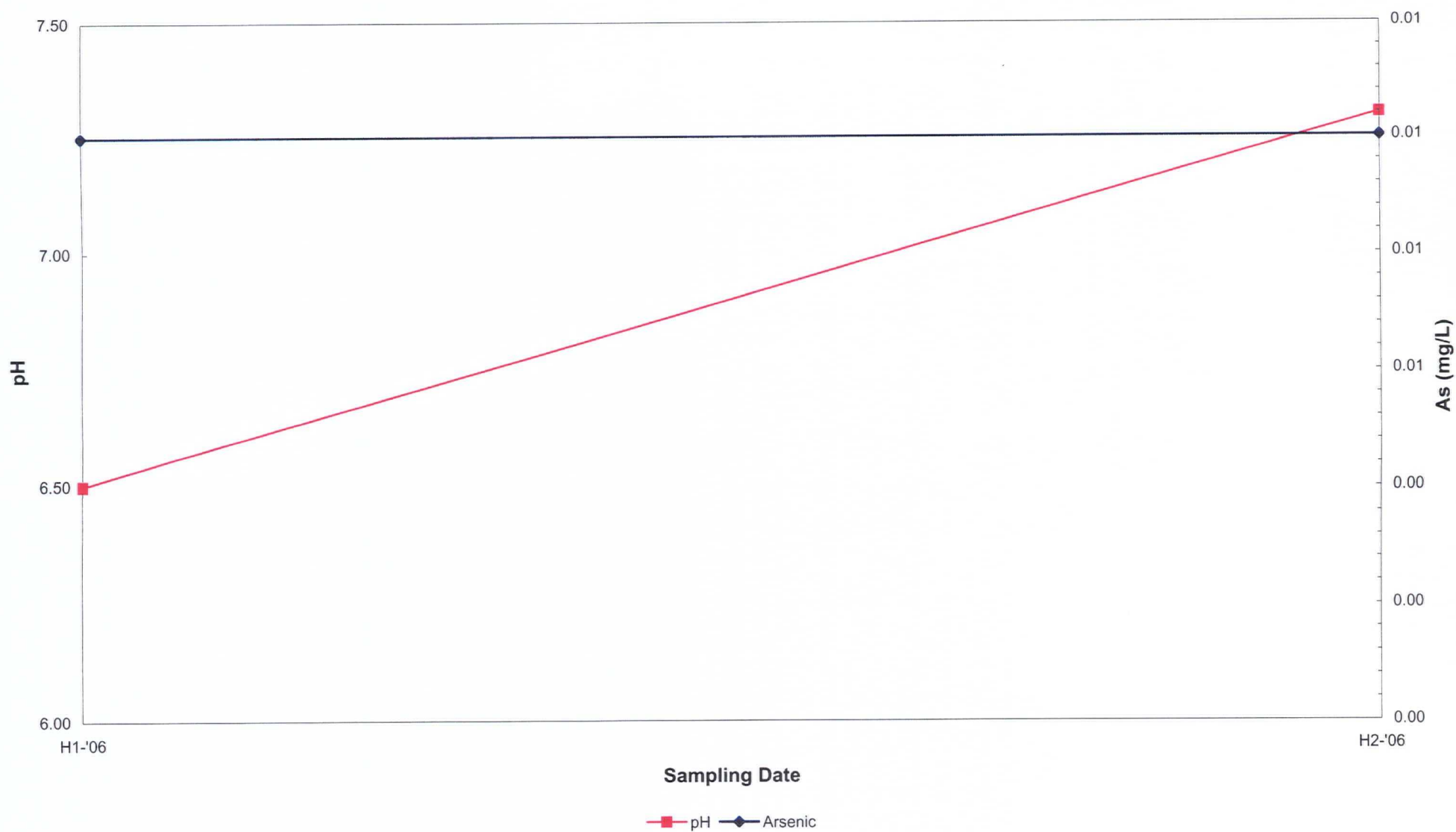
# Monitoring Well GW-4



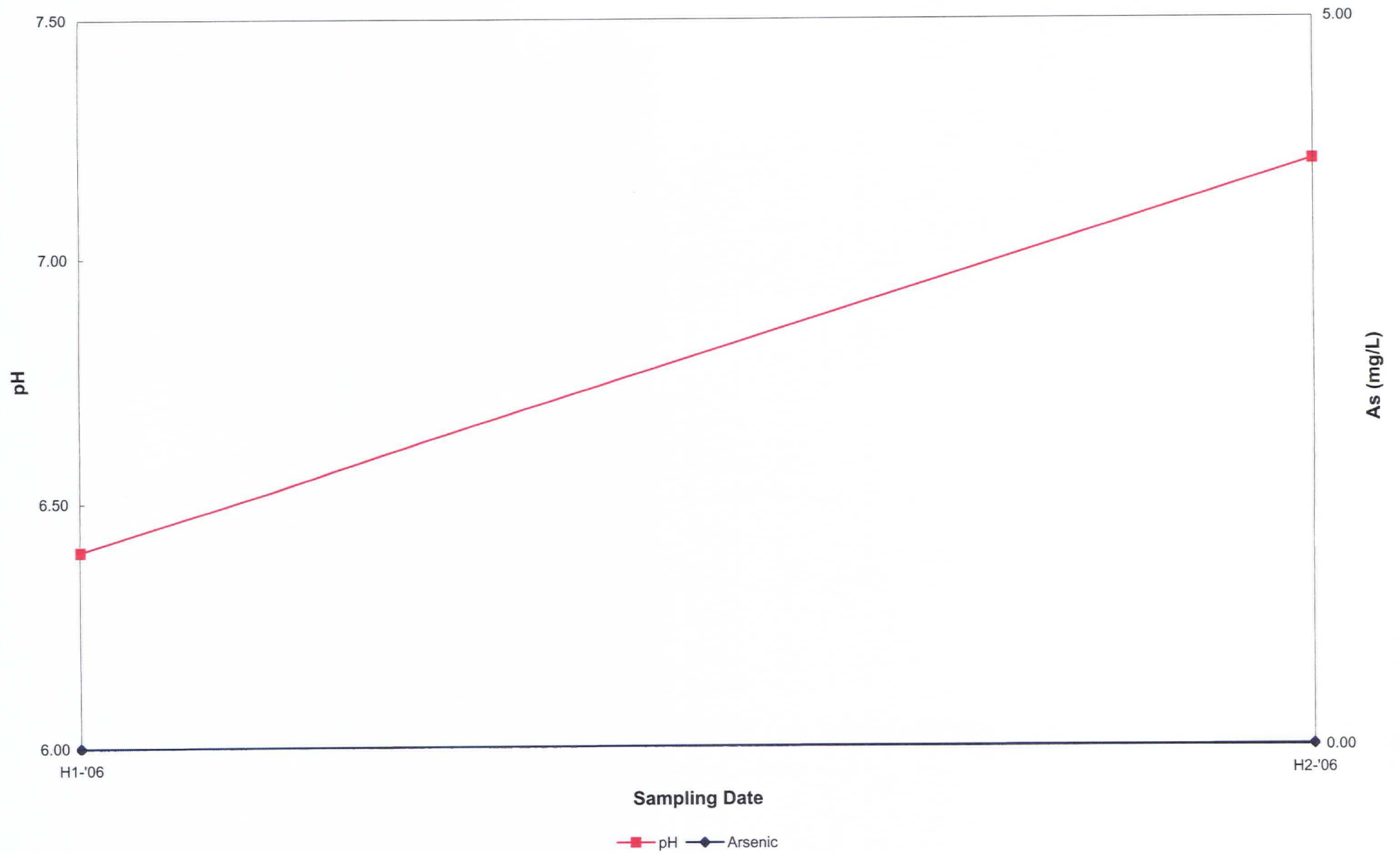
Monitoring Well GW-5



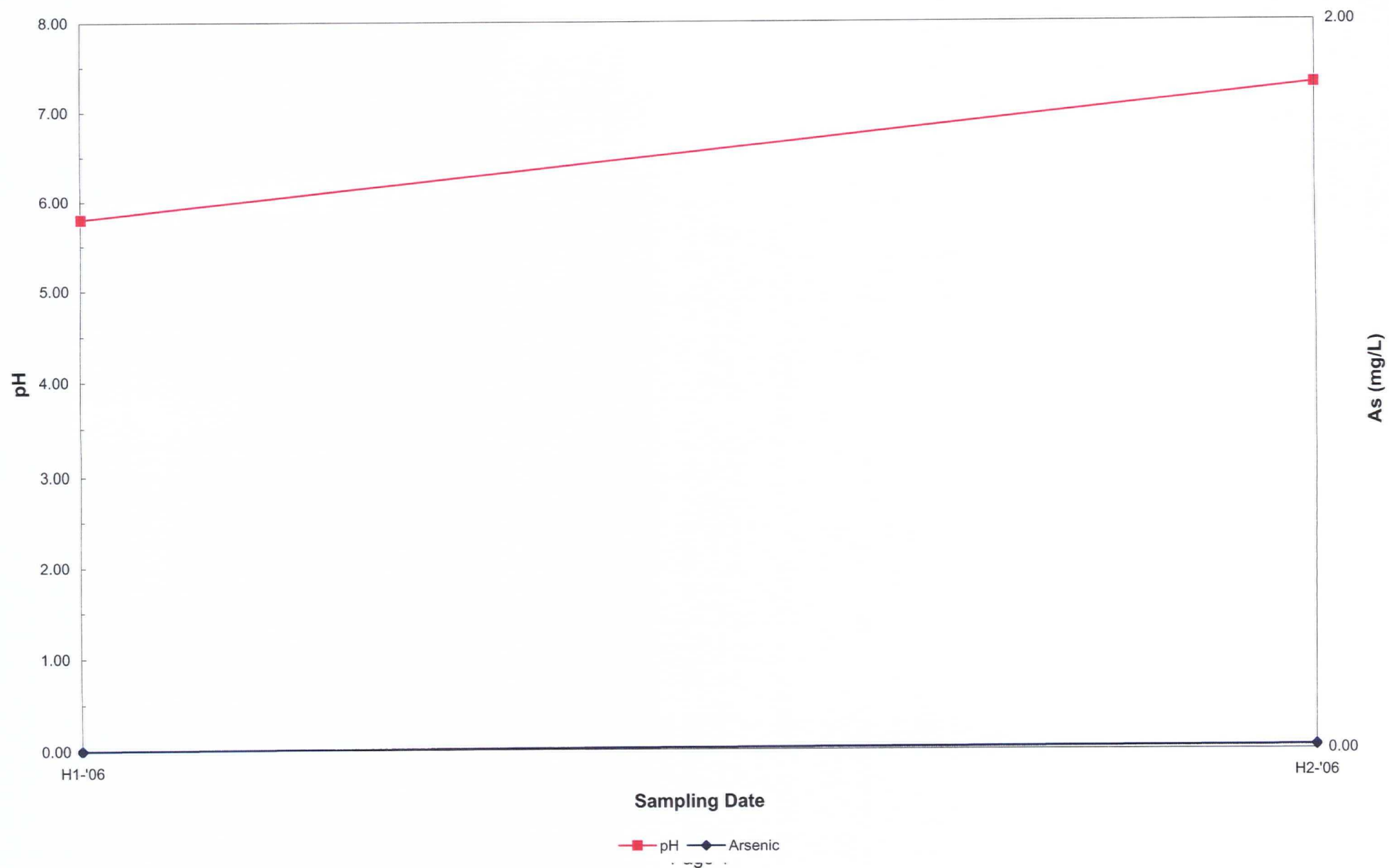
# Monitoring Well GW-6



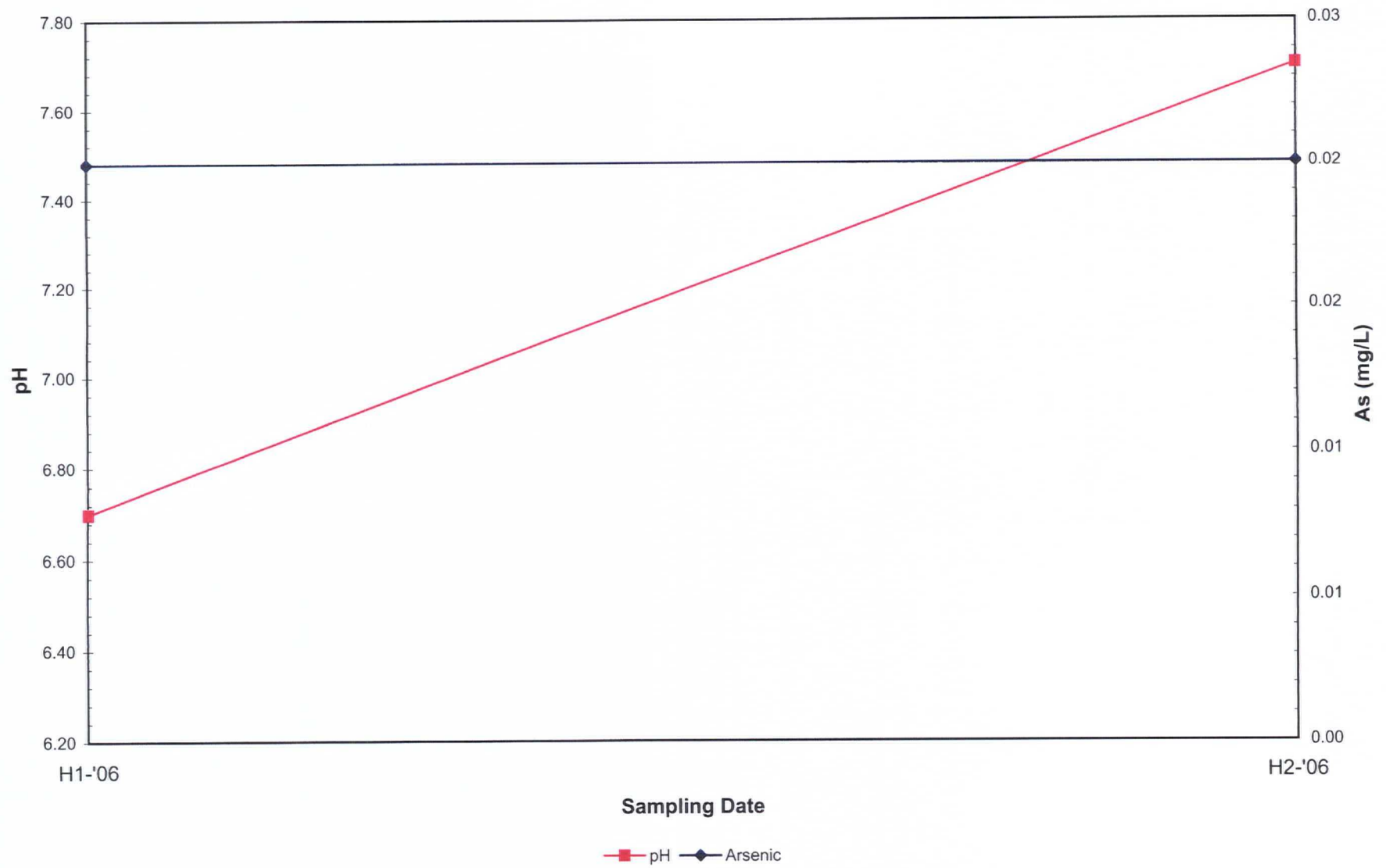
# Monitoring Well GW-7



# Monitoring Well GW-8

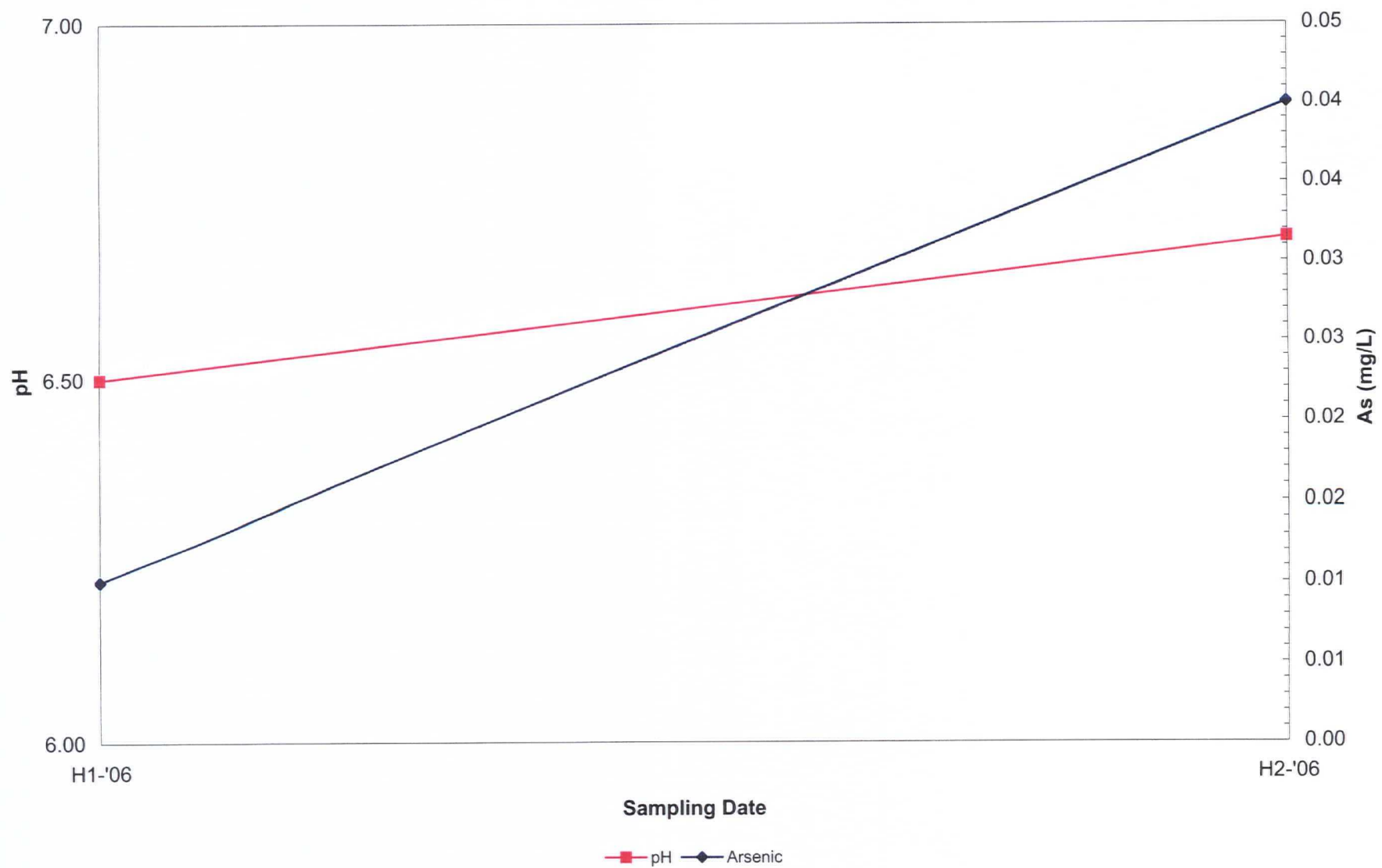


# Monitoring Well GW-9

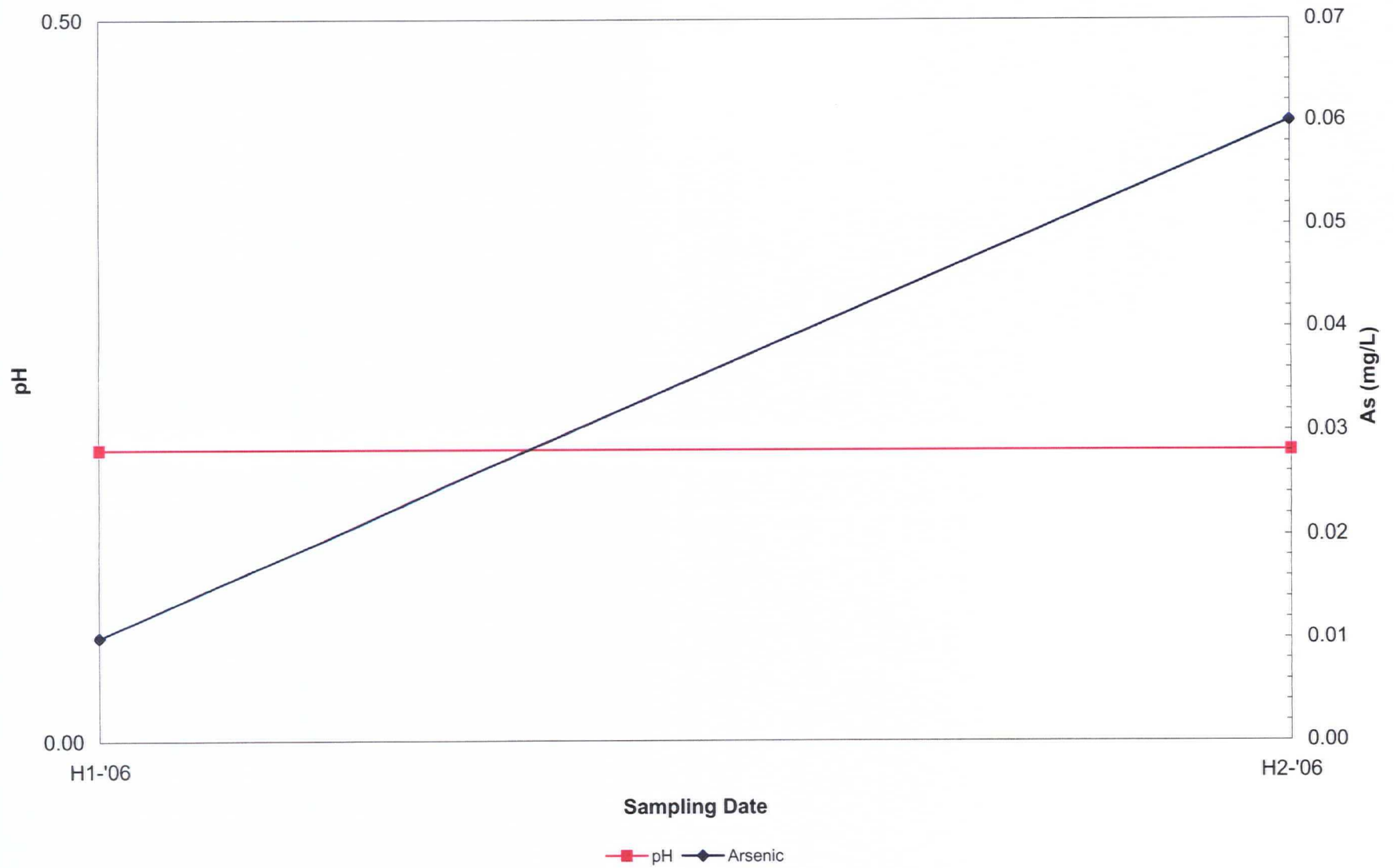




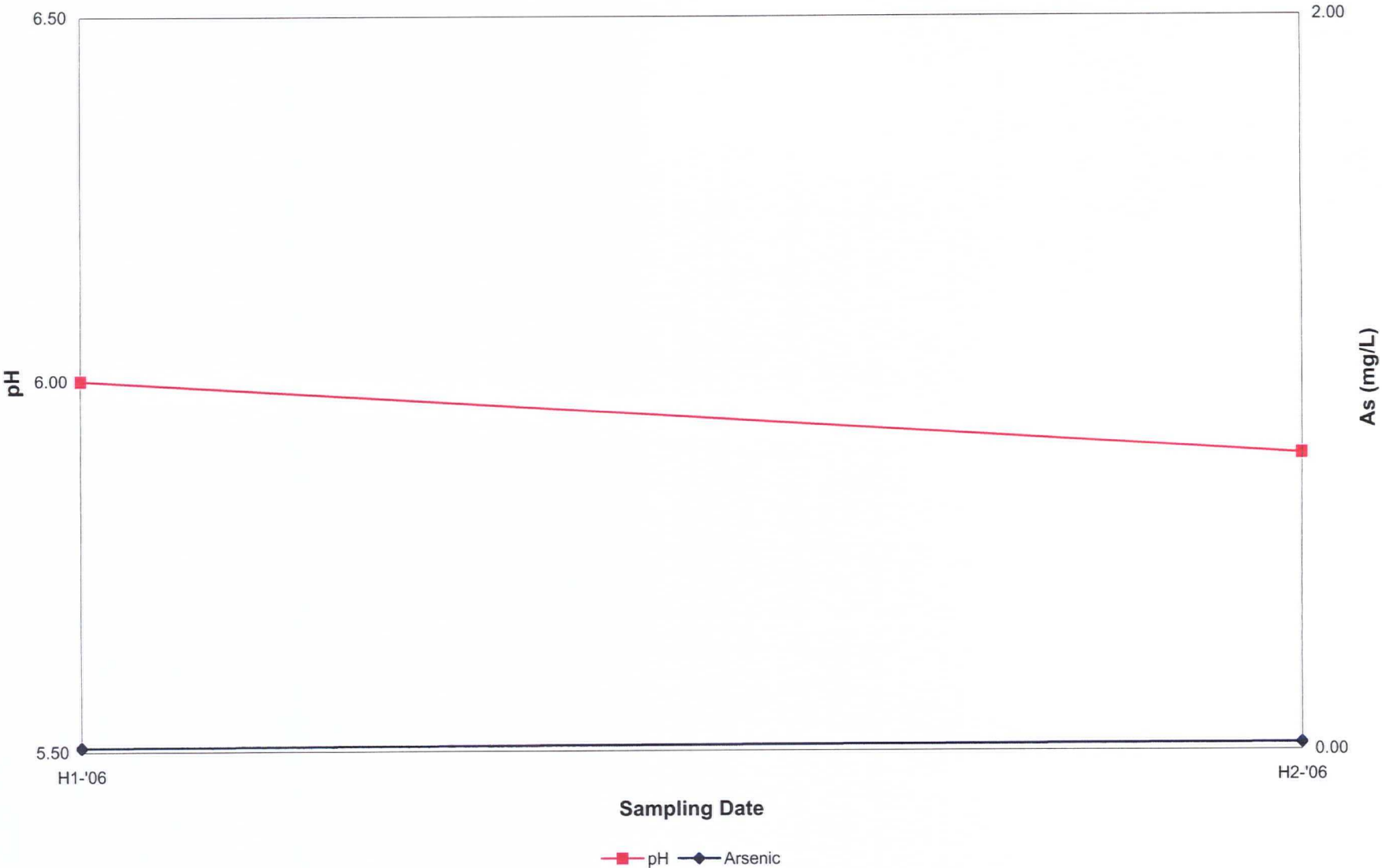
# Monitoring Well GW-10



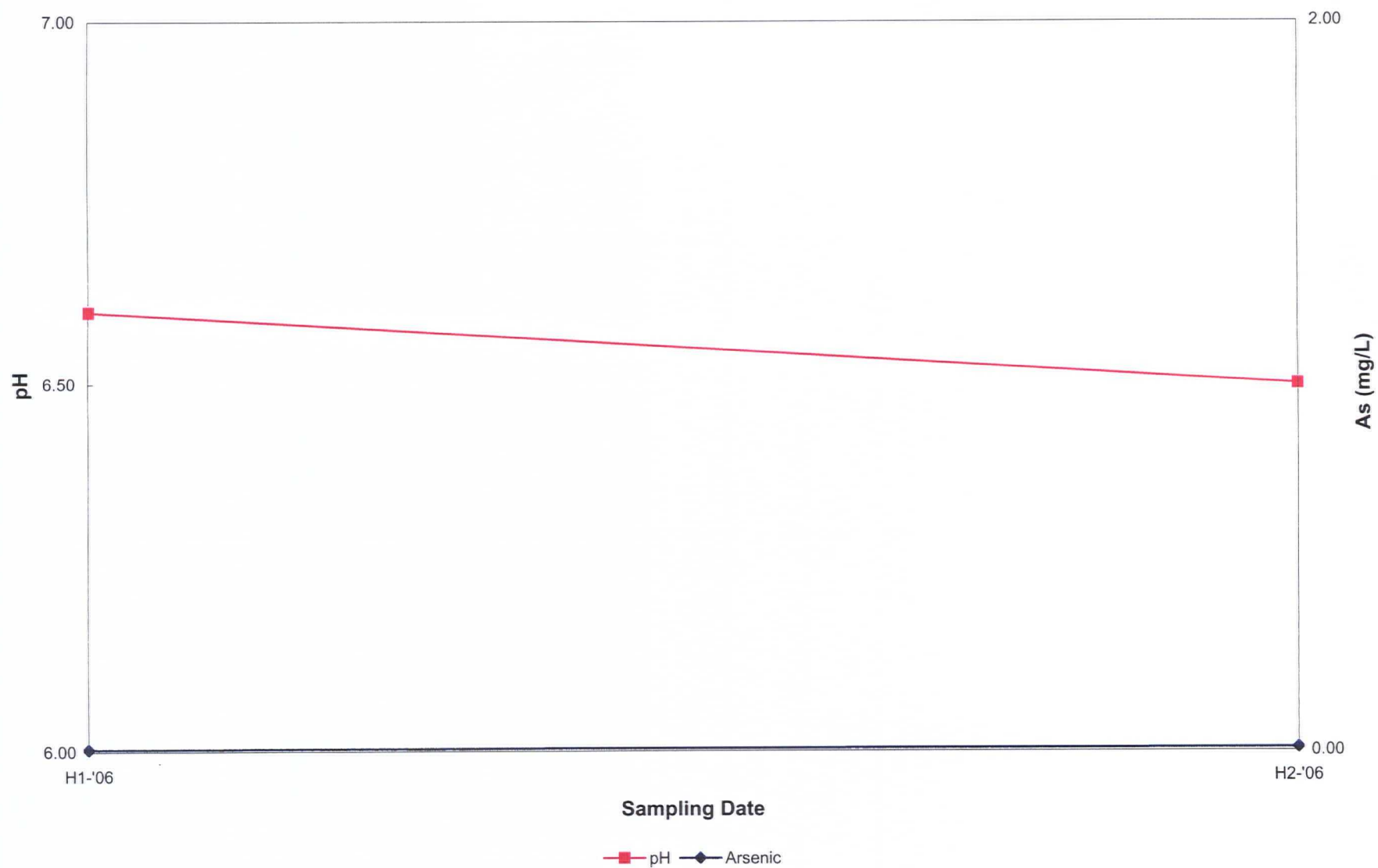
# Monitoring Well GW-11



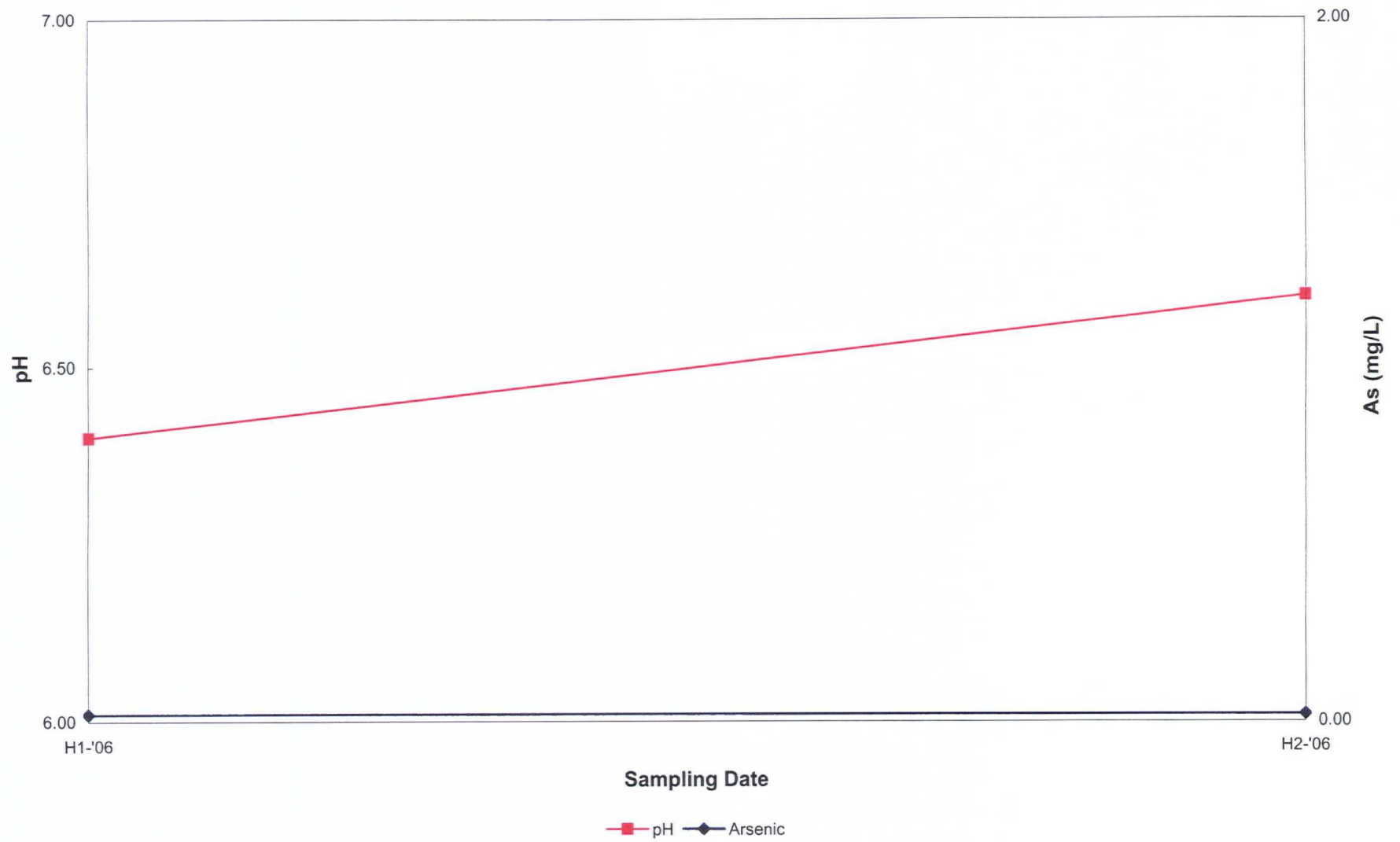
Monitoring Well GW-12



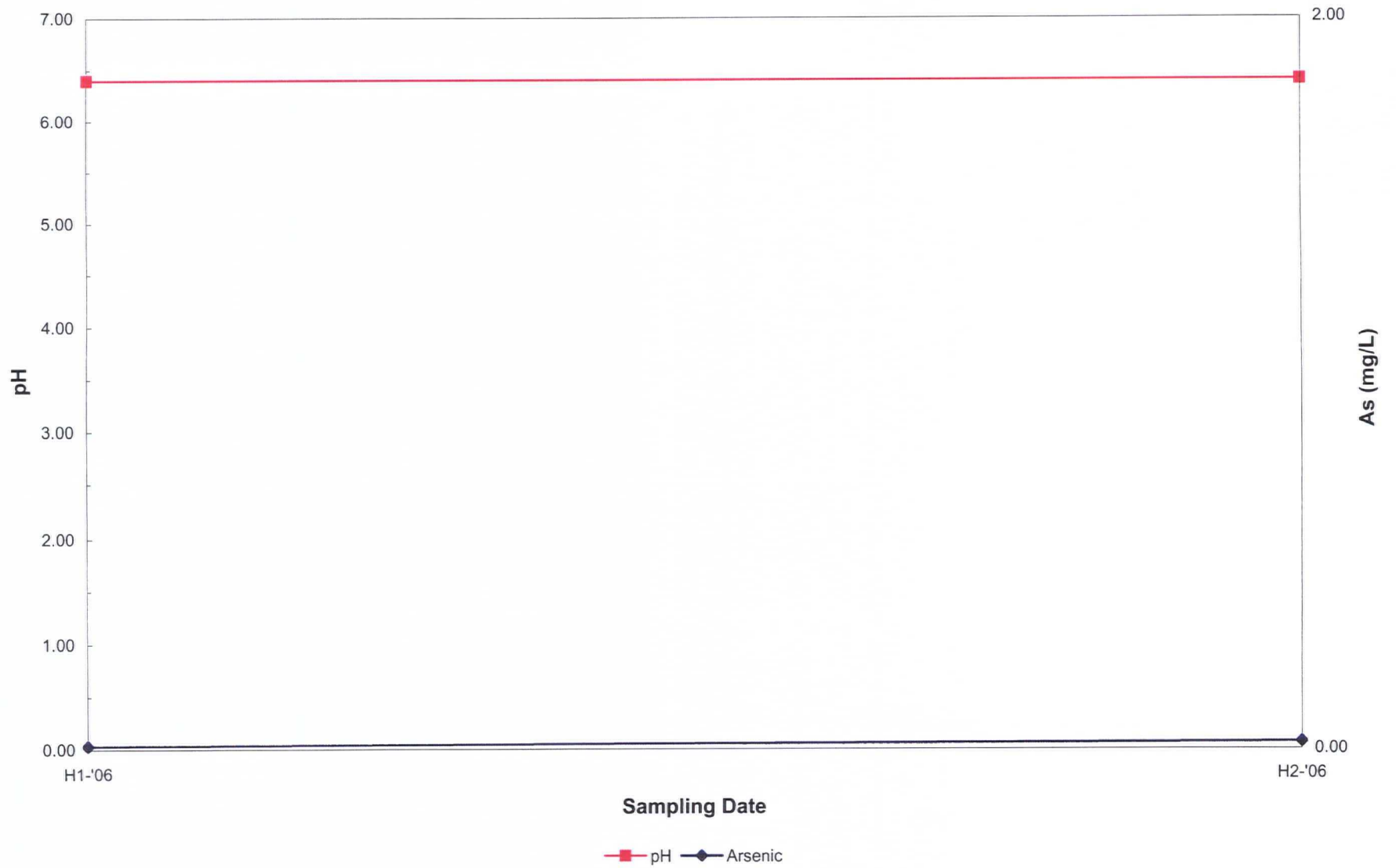
Monitoring Well GW-13



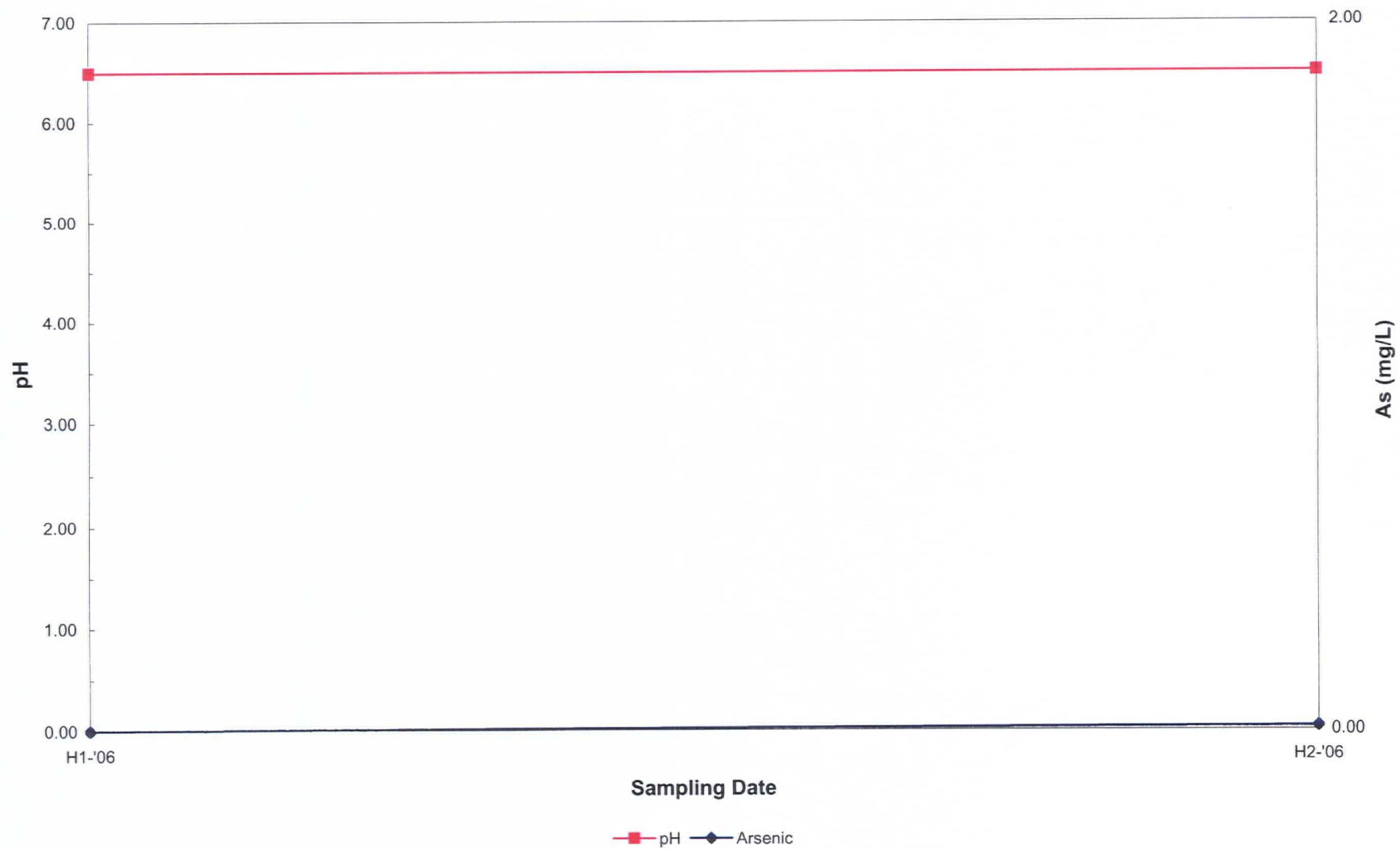
# Monitoring Well GW-14



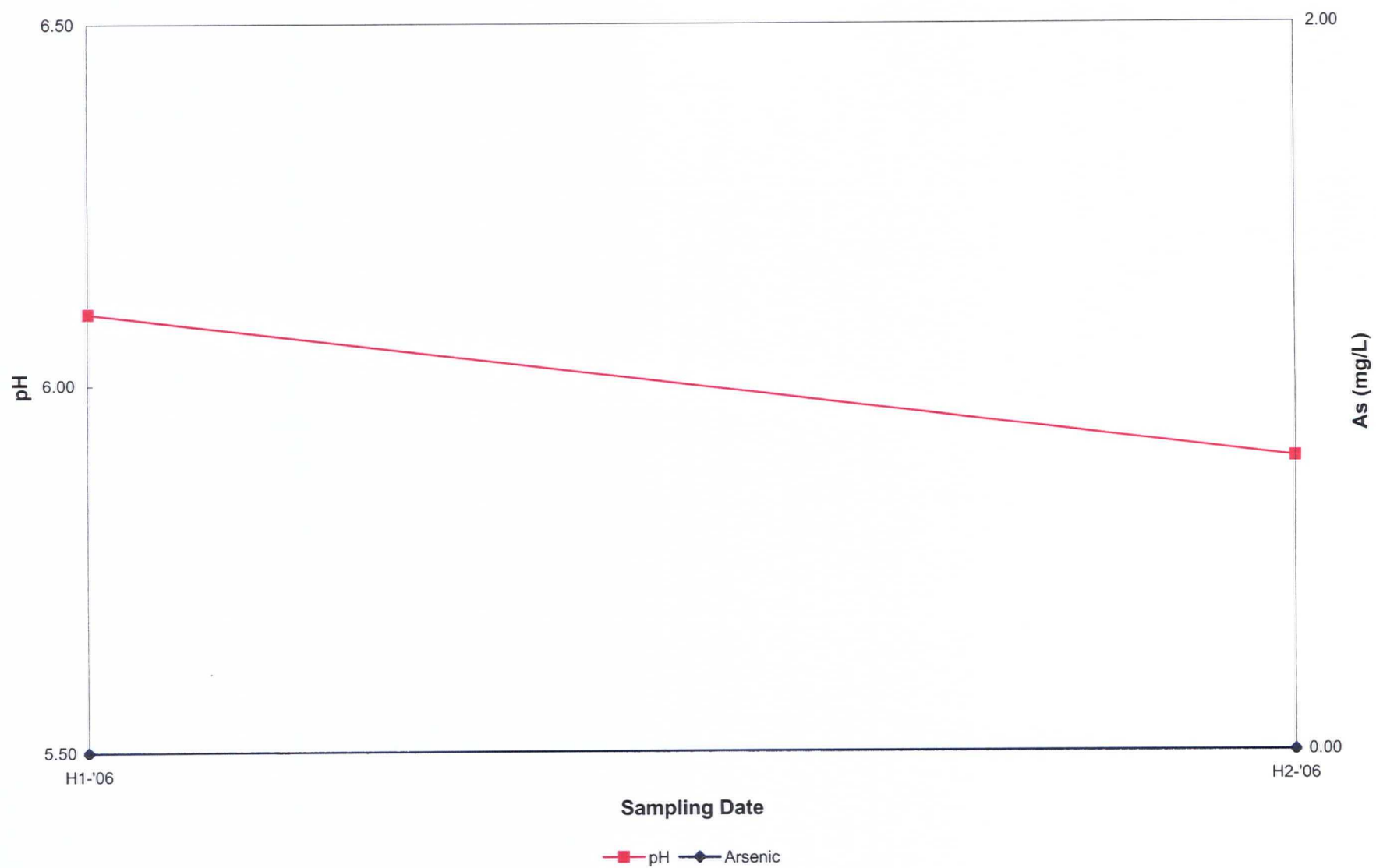
# Monitoring Well GW-15



# Monitoring Well GW-16



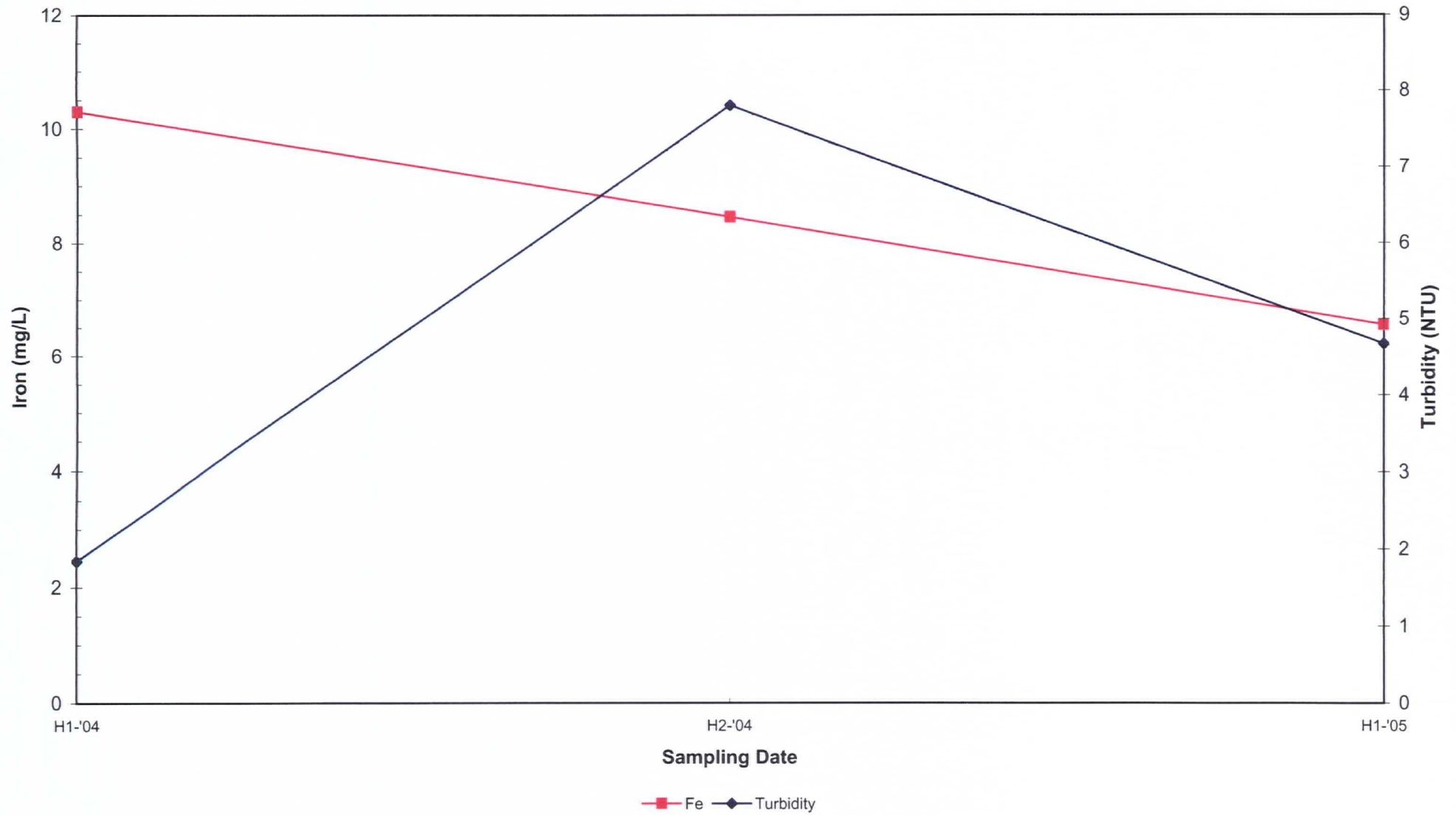
# Monitoring Well BGW-1



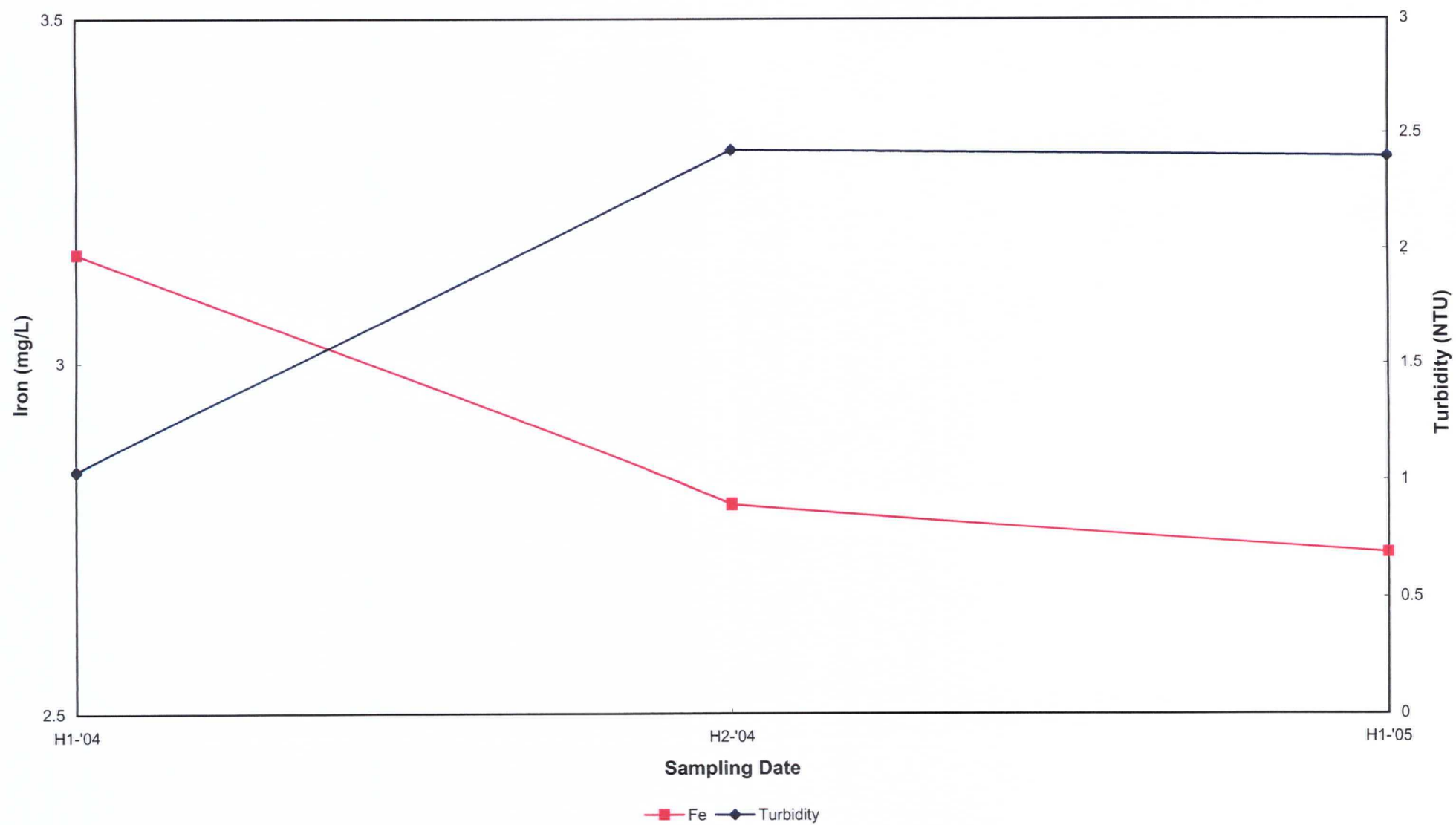


### **B-3 – Turbidity versus Iron**

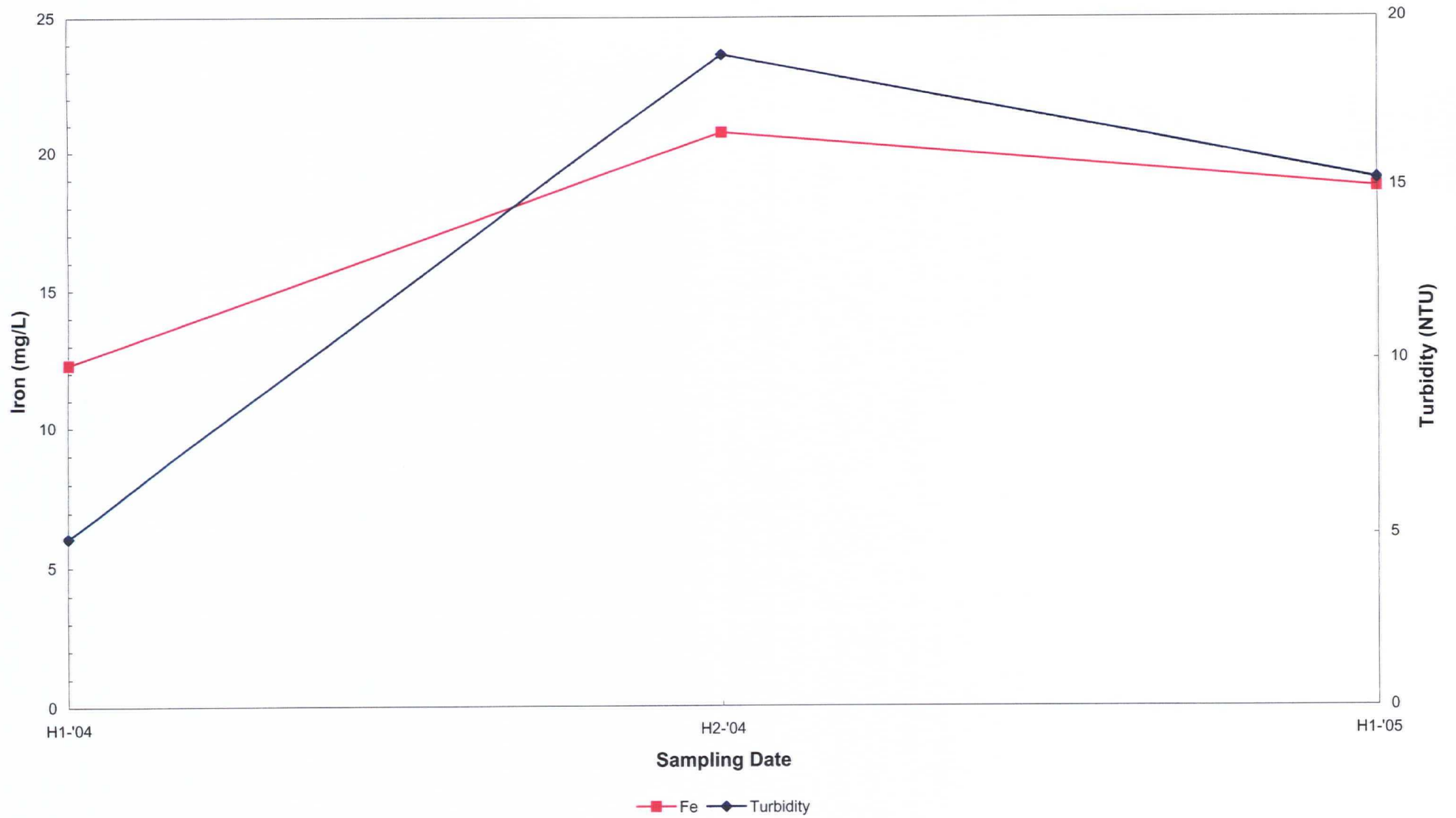
# Monitoring Well CW- 4



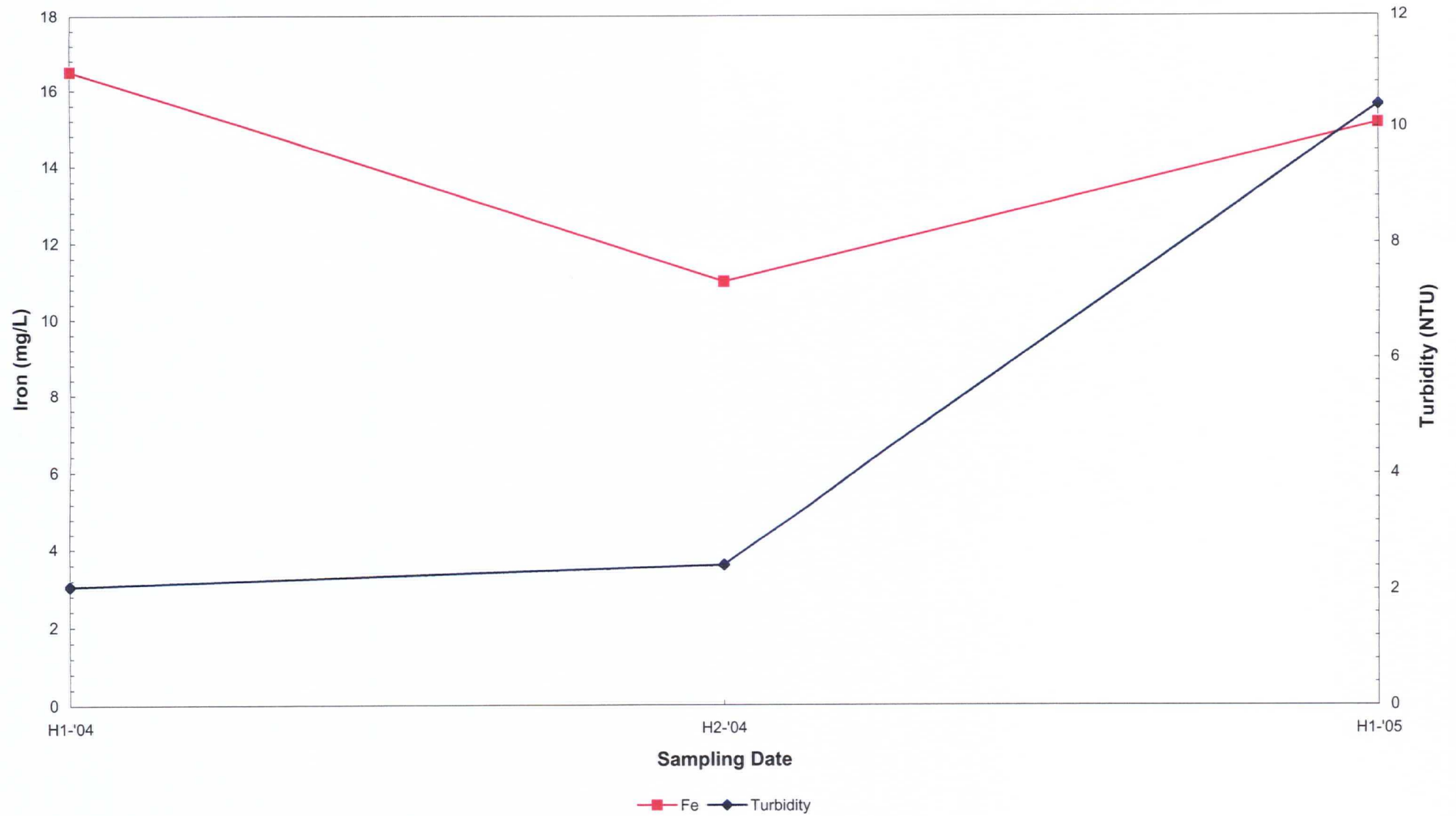
# Monitoring Well CW- 5A



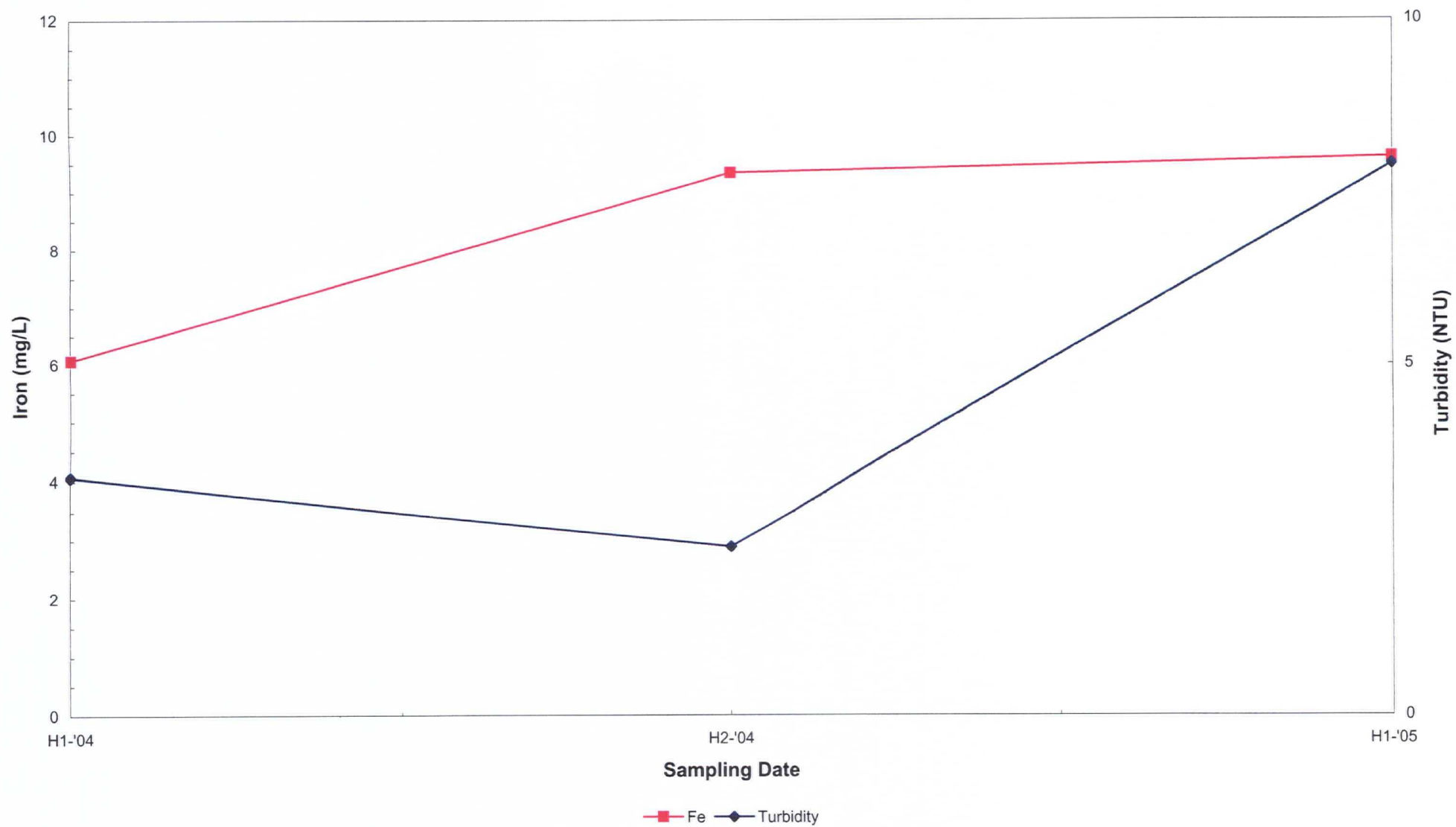
# Monitoring Well GC-1A



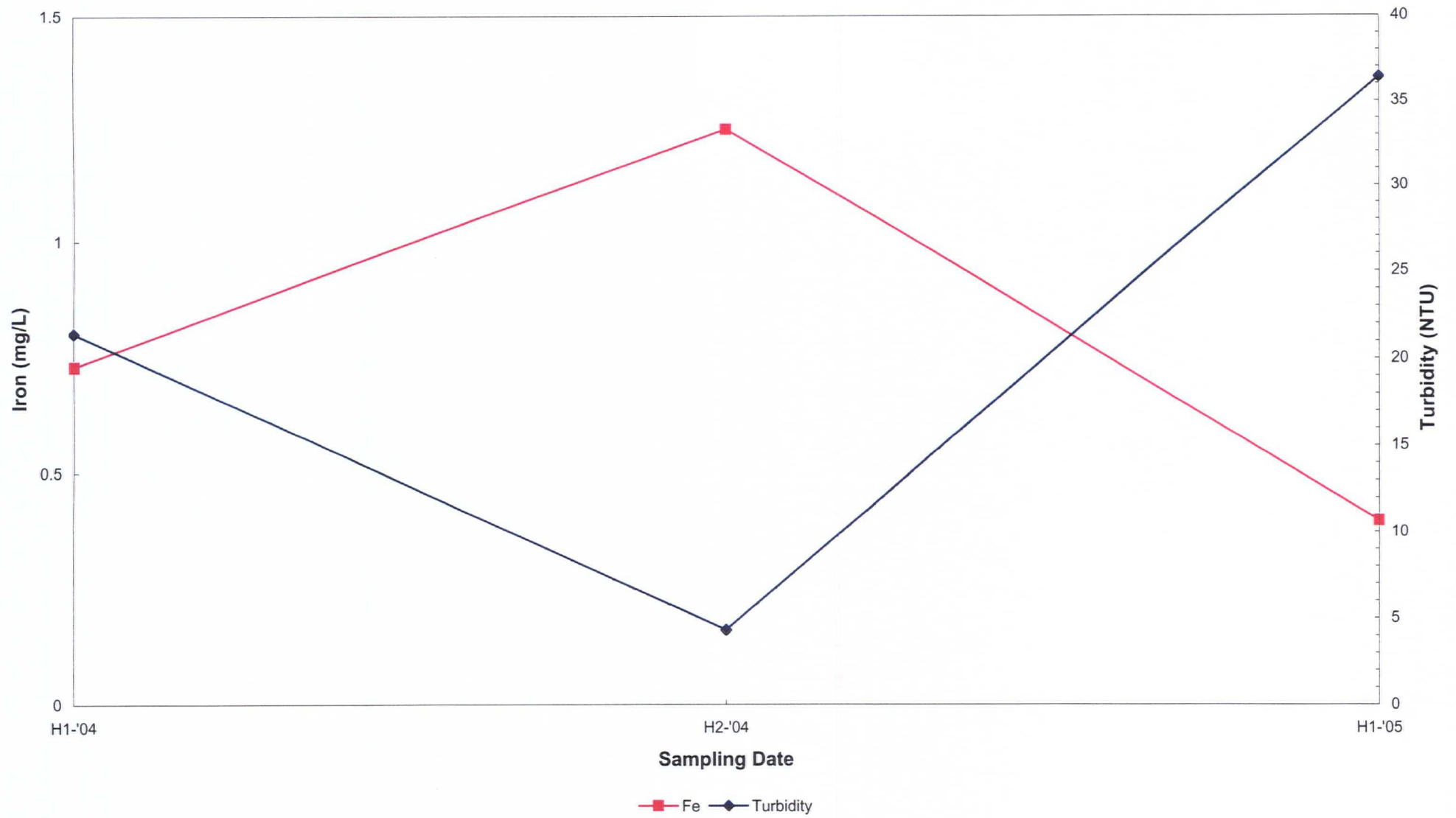
## Monitoring Well GC-2



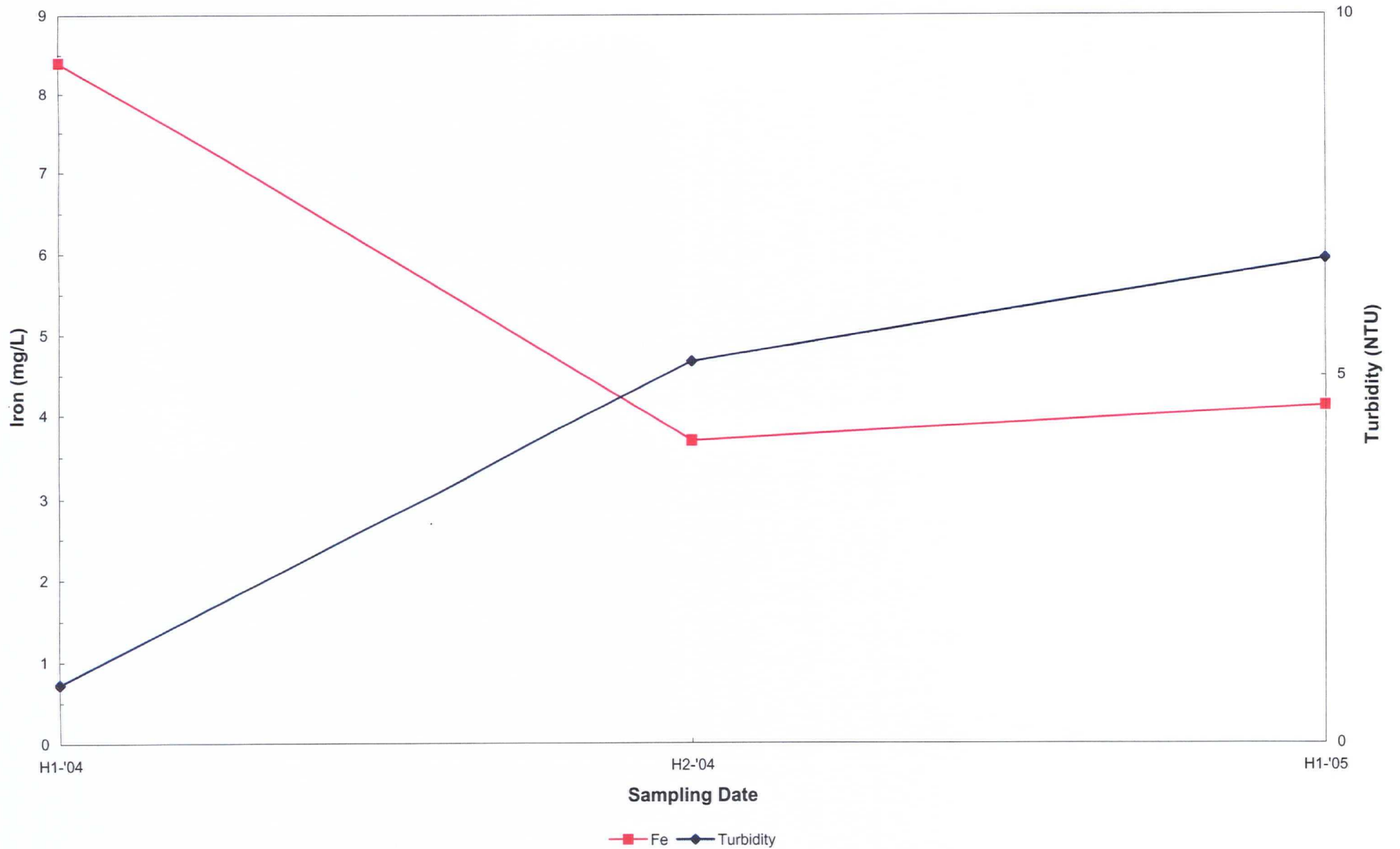
### Monitoring Well GC-3



# Monitoring Well GC-4

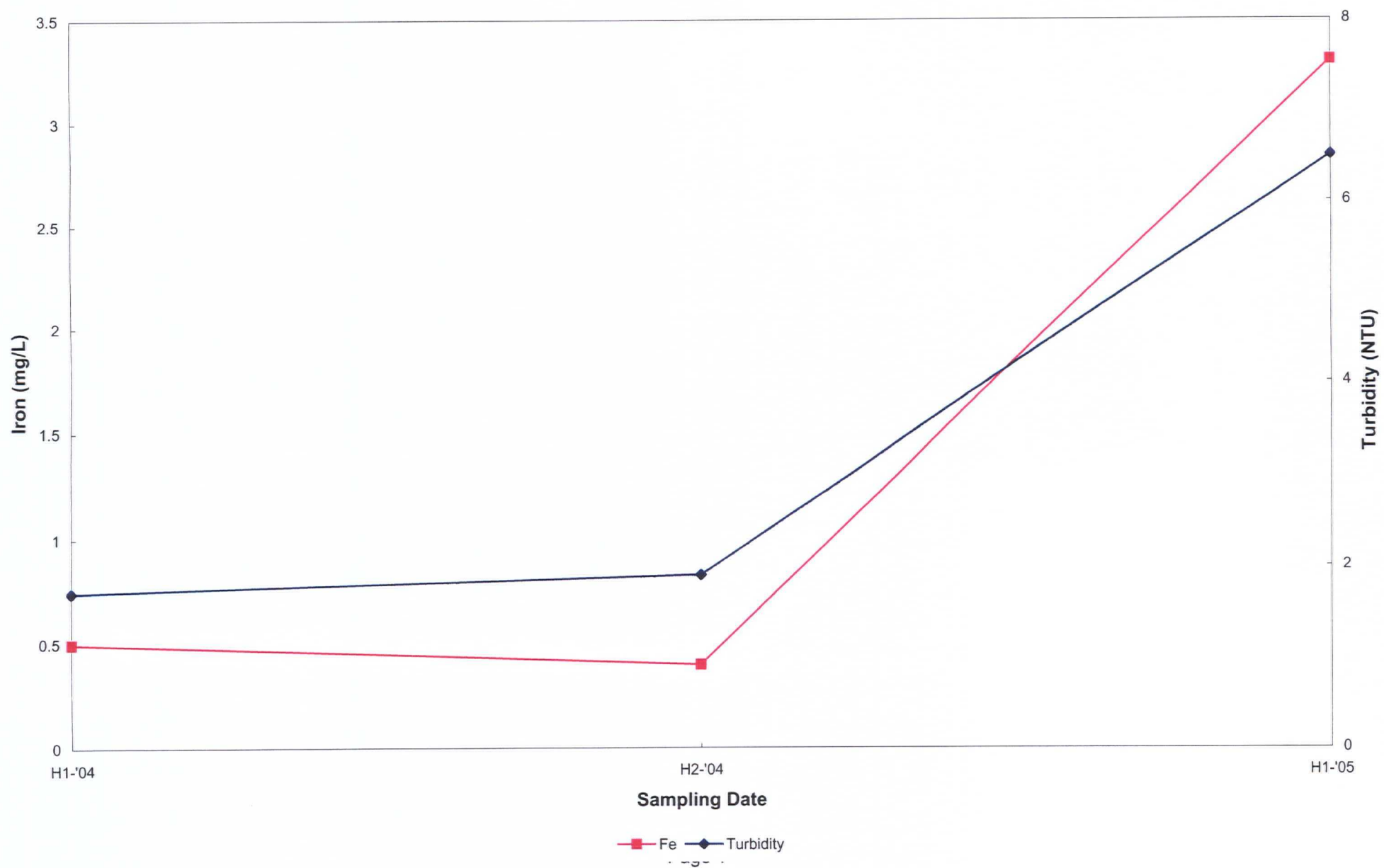


# Monitoring Well GC- 5

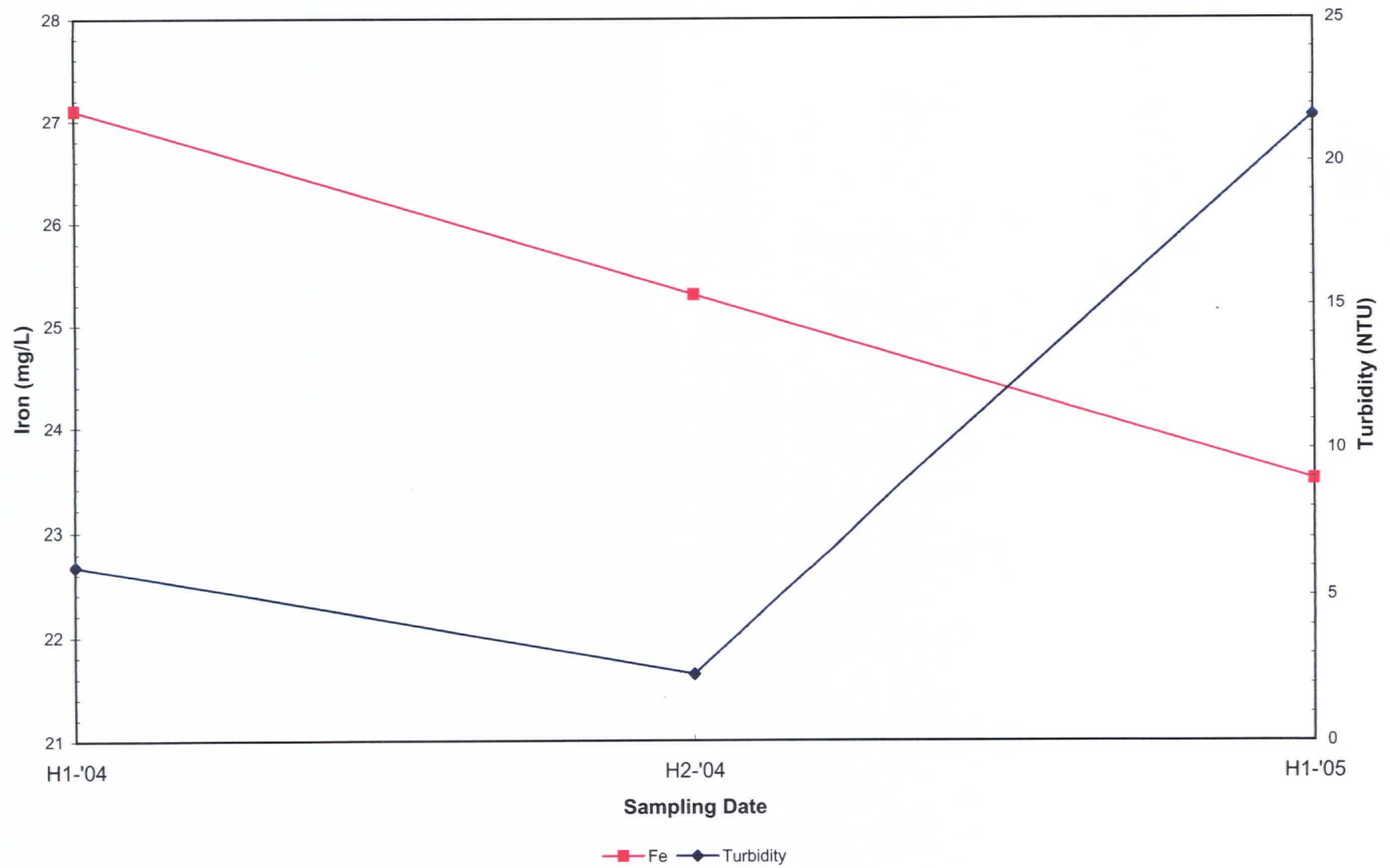




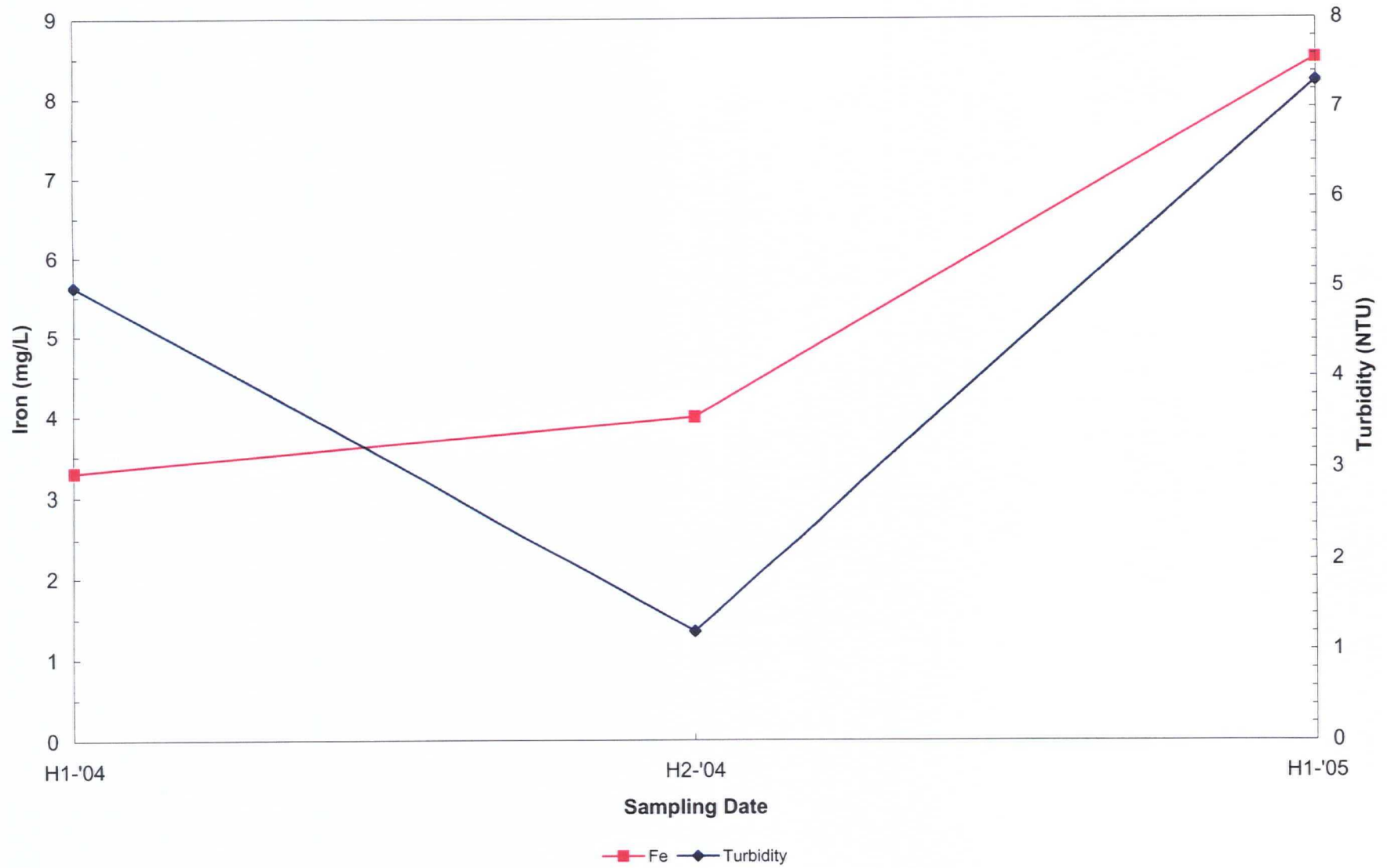
## Monitoring Well GC-6



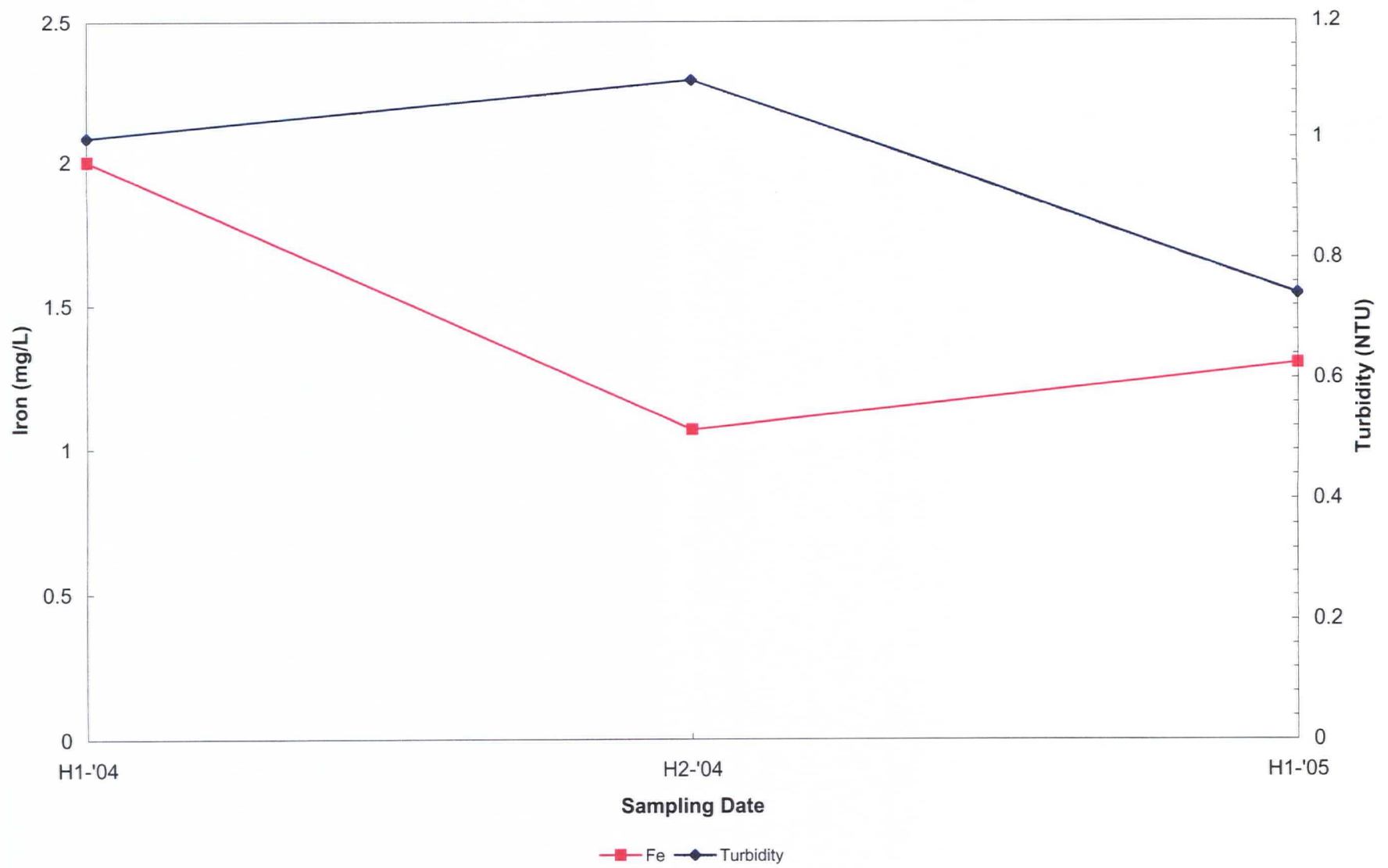
# Monitoring Well LR11-1



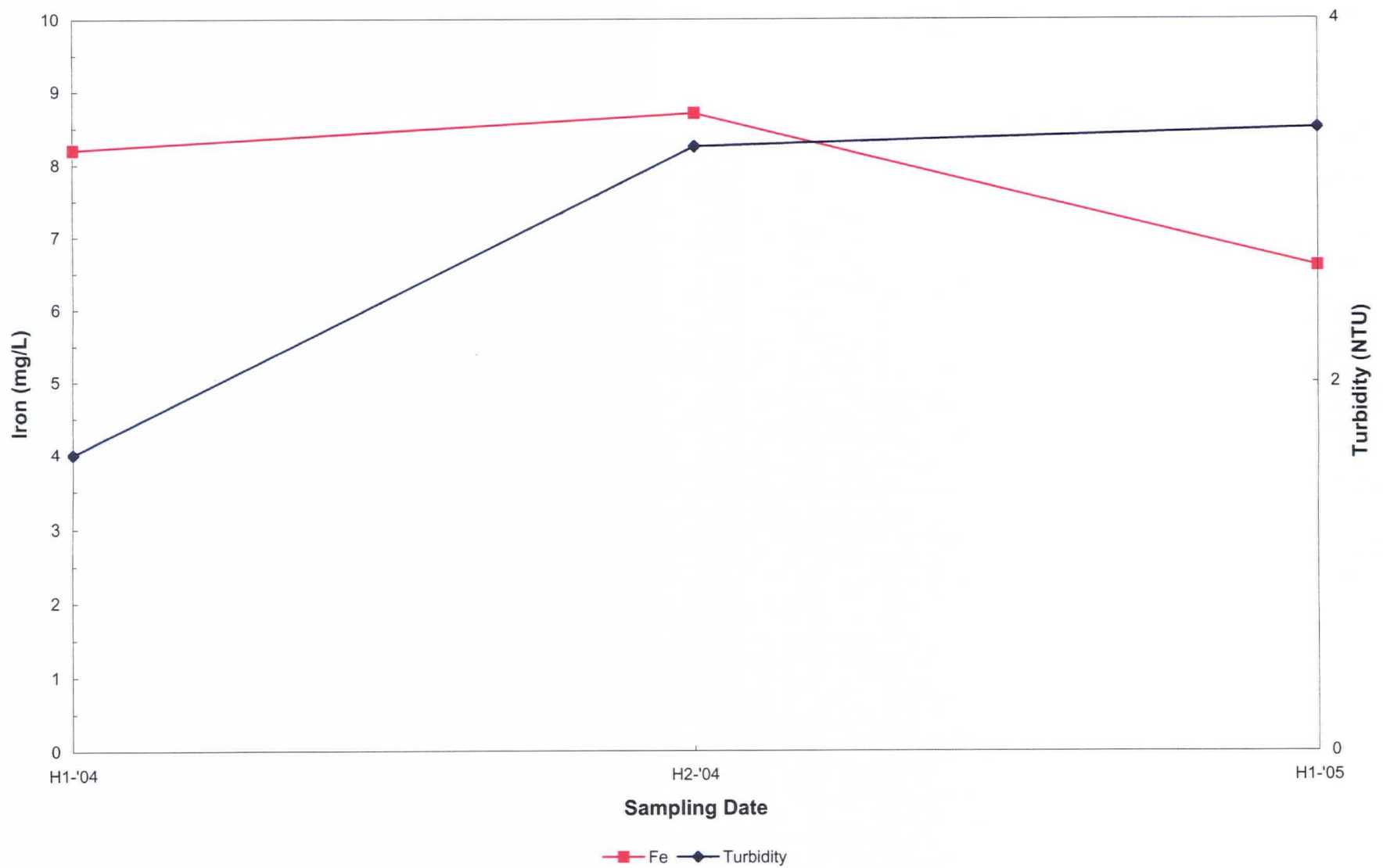
# Monitoring Well LR11-2



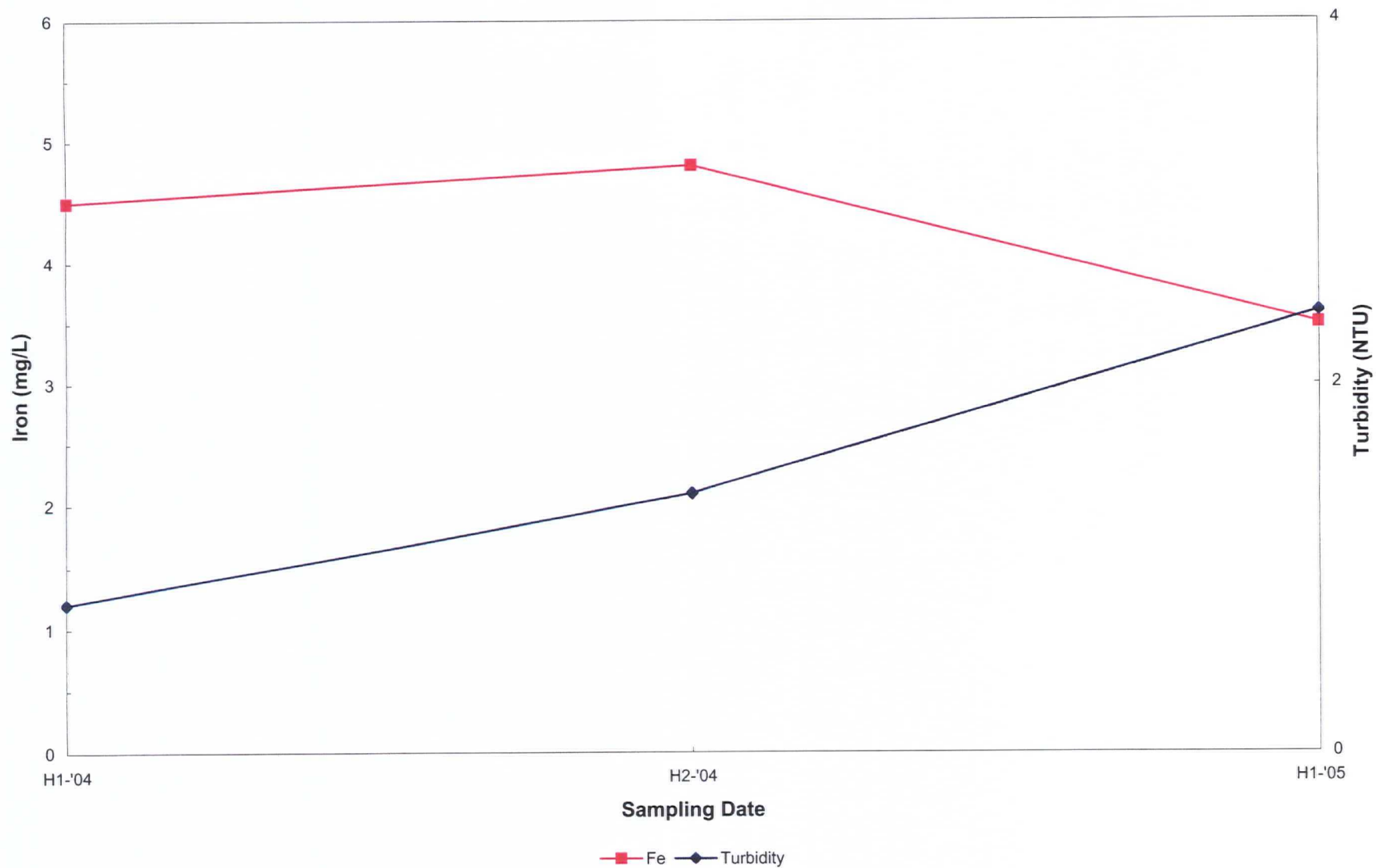
### Monitoring Well LR11-3



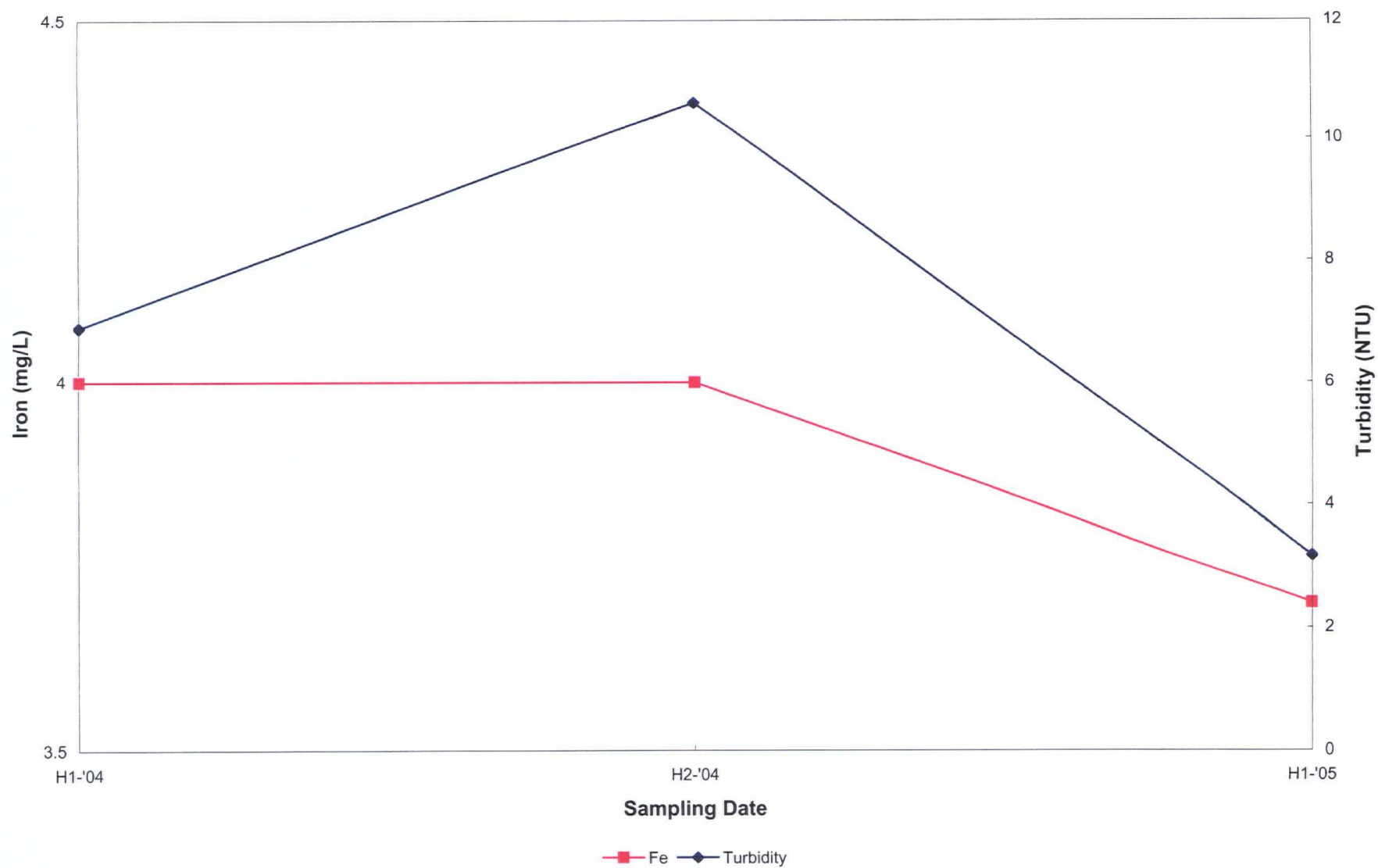
### Monitoring Well LR11-4



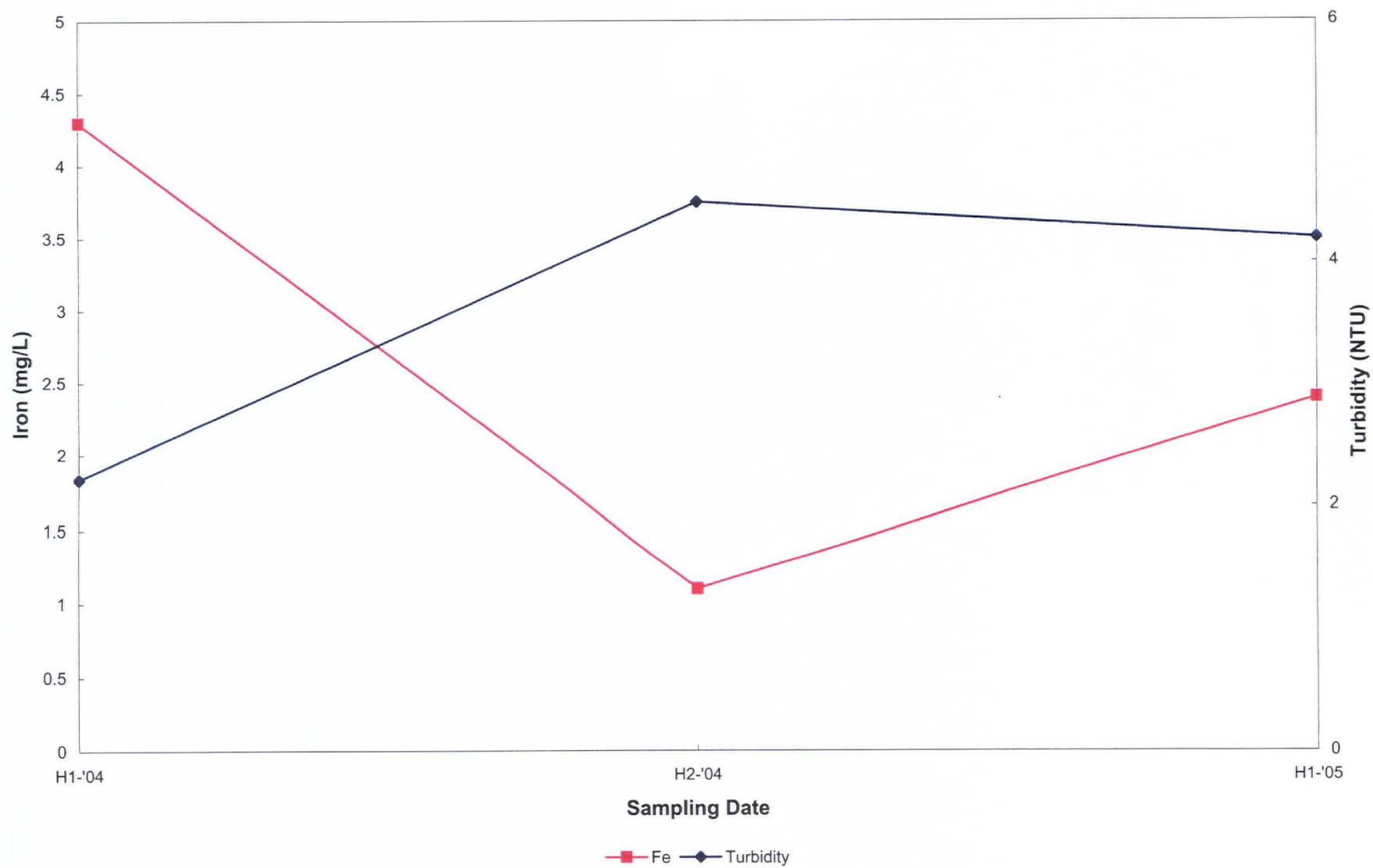
# Monitoring Well LR11-5



# Monitoring Well MW-1

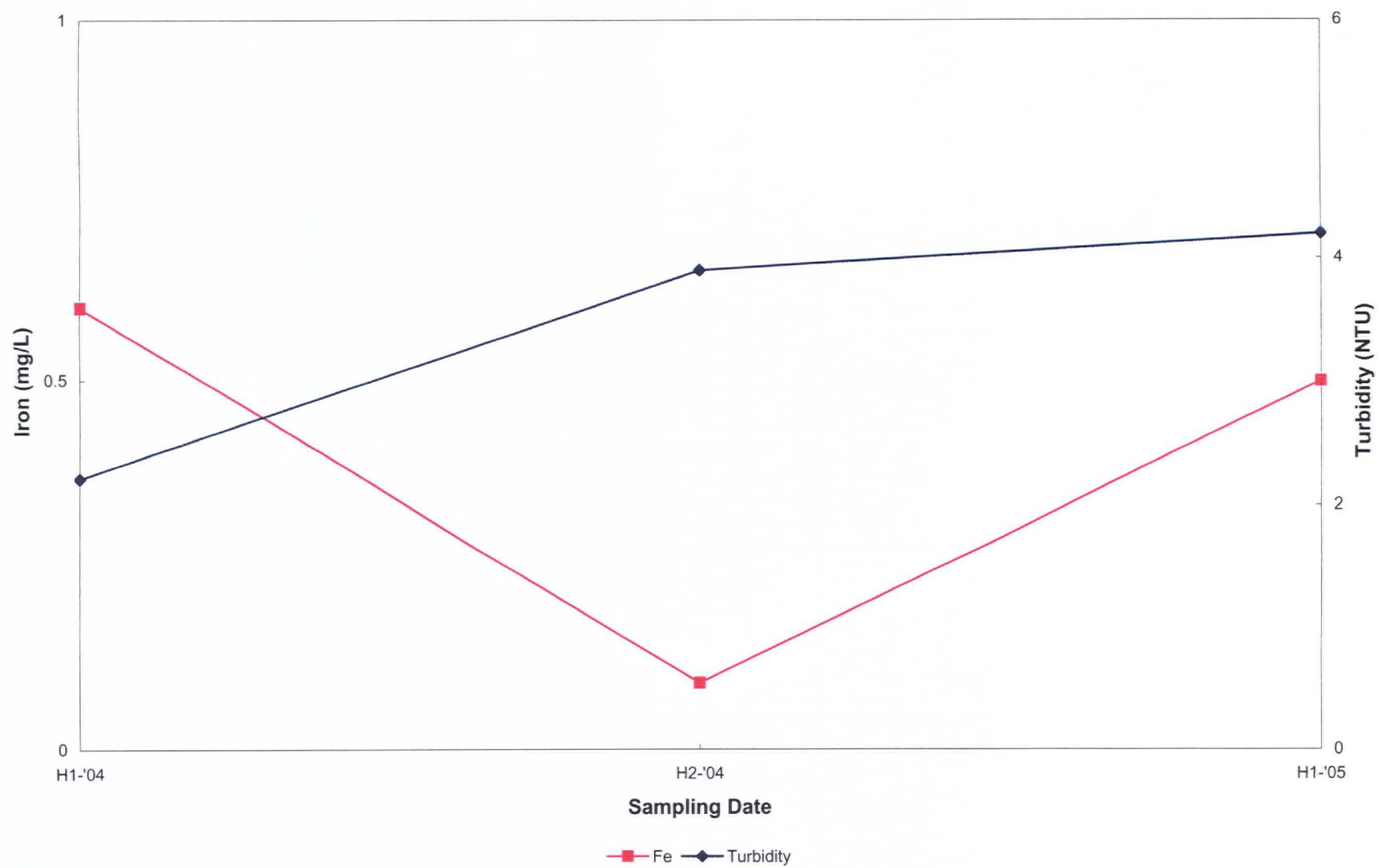


## Monitoring Well MW-2

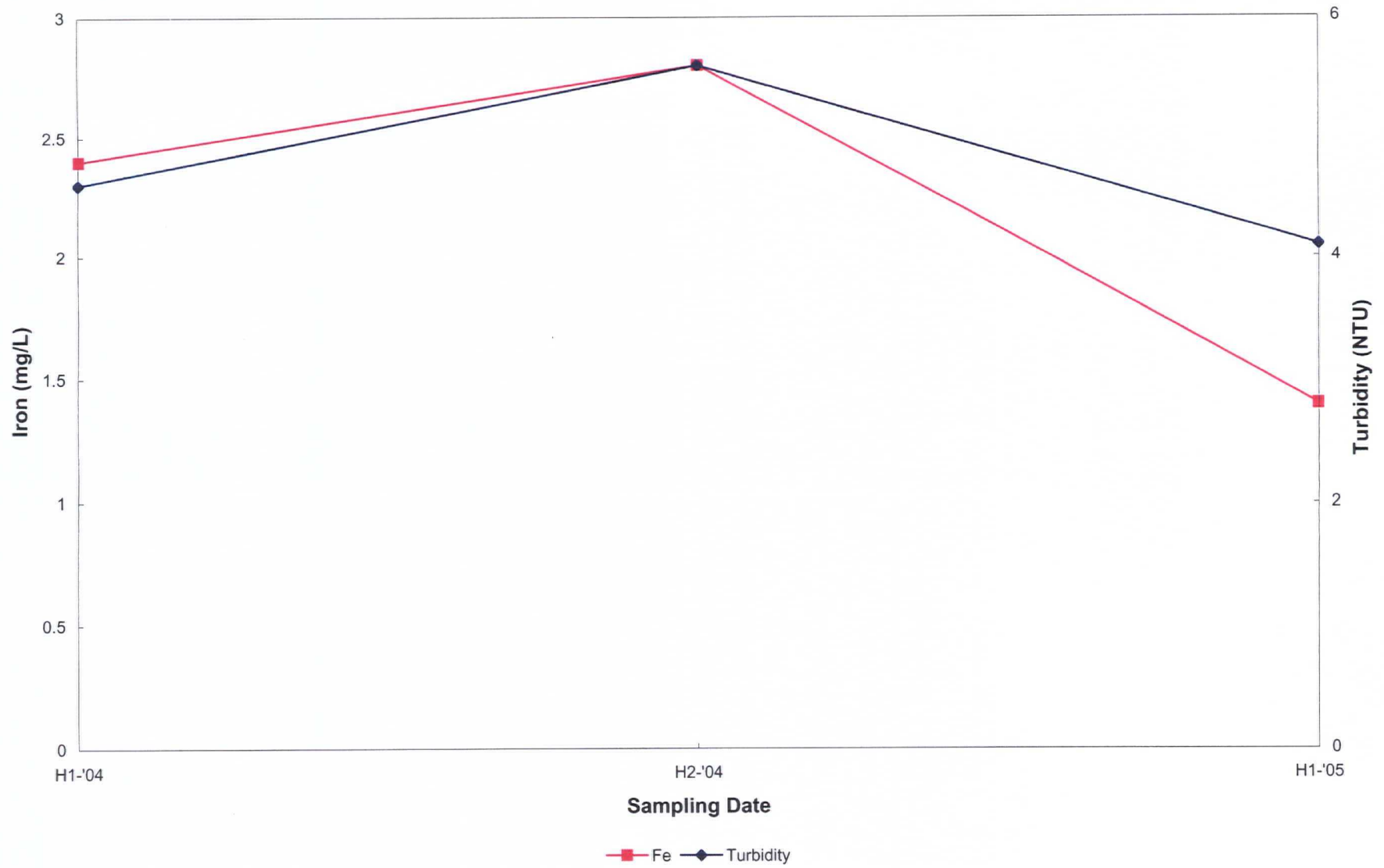




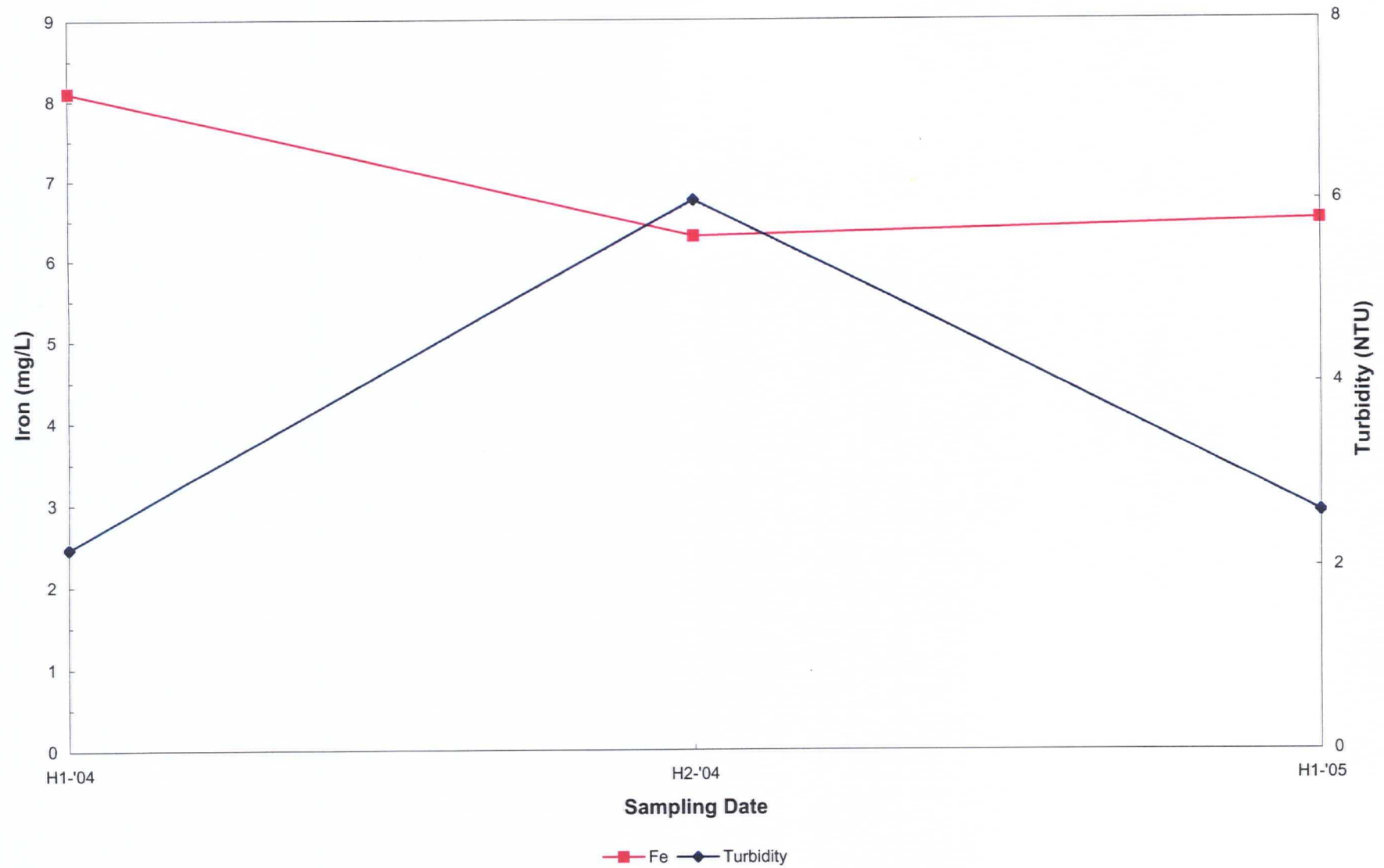
### Monitoring Well MW-3



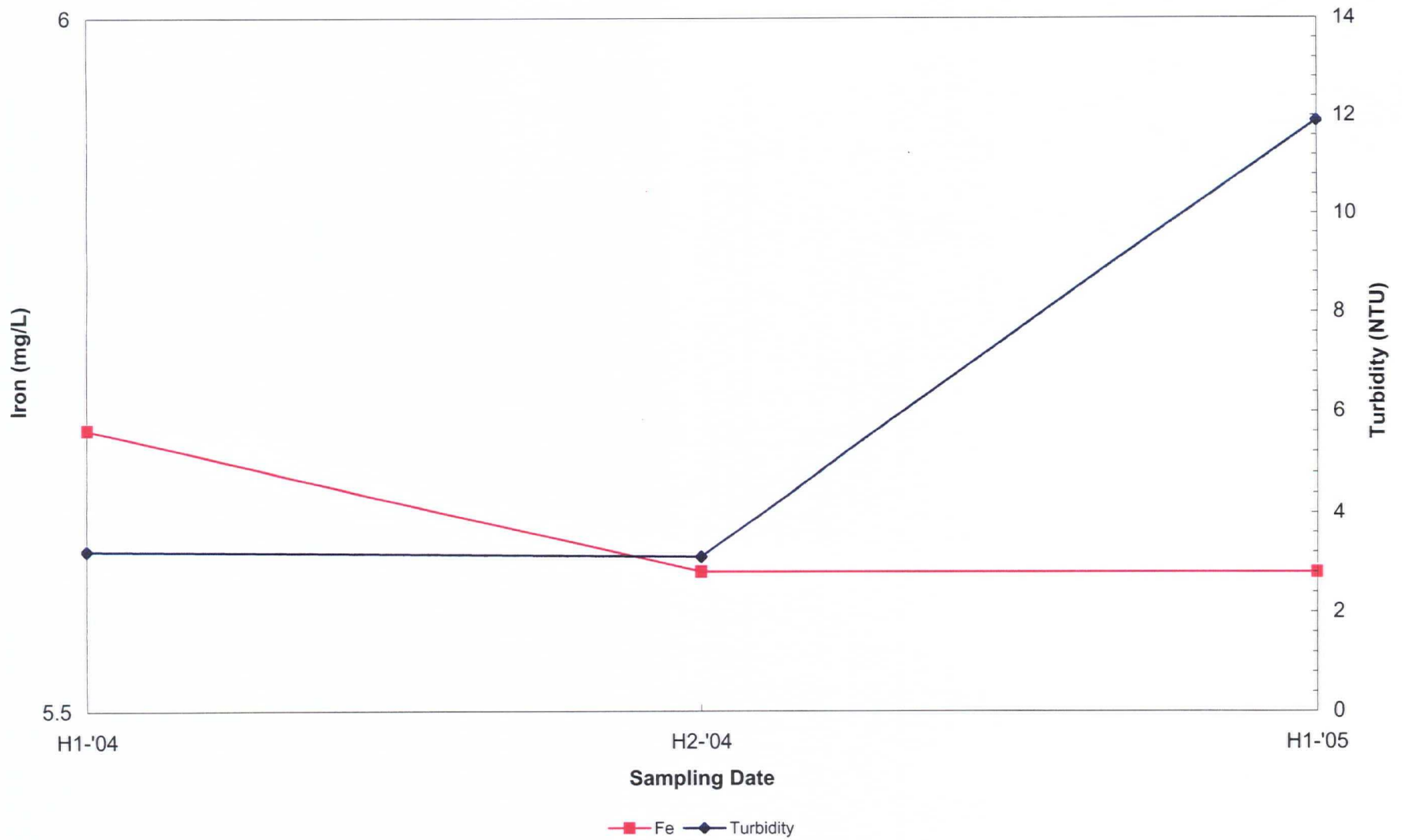
### Monitoring Well MW-5



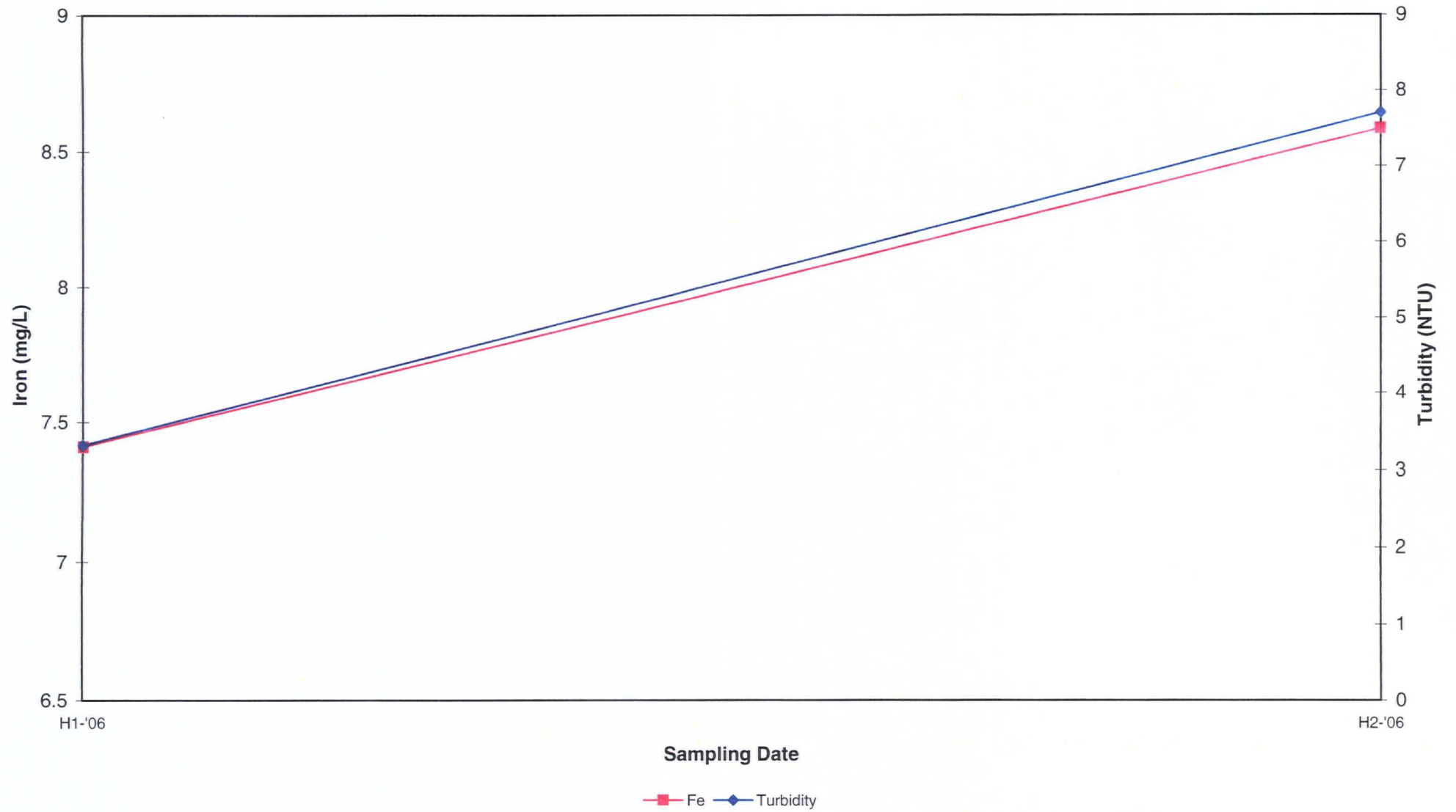
# Monitoring Well MW-6



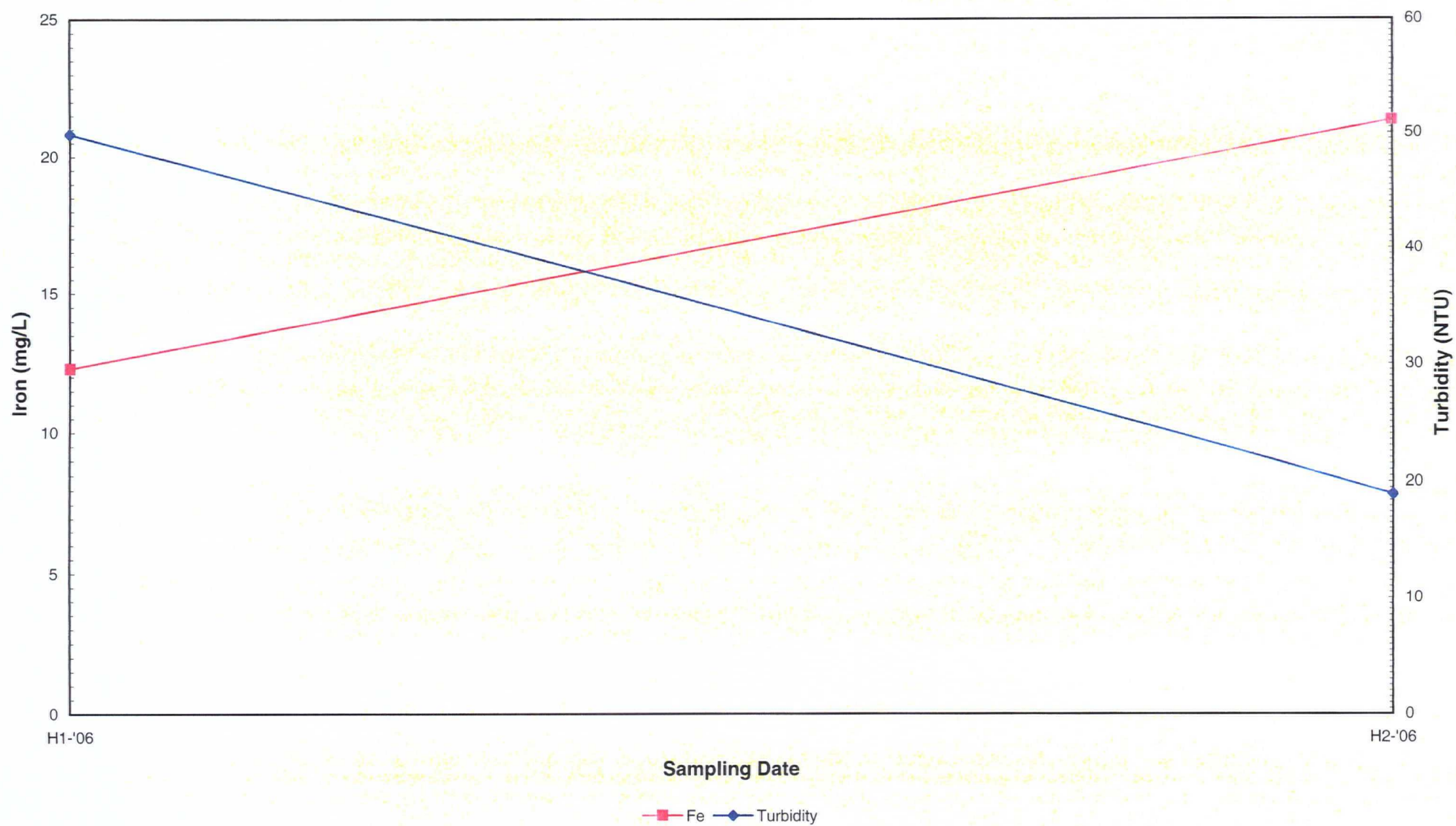
# Monitoring Well SMR-1



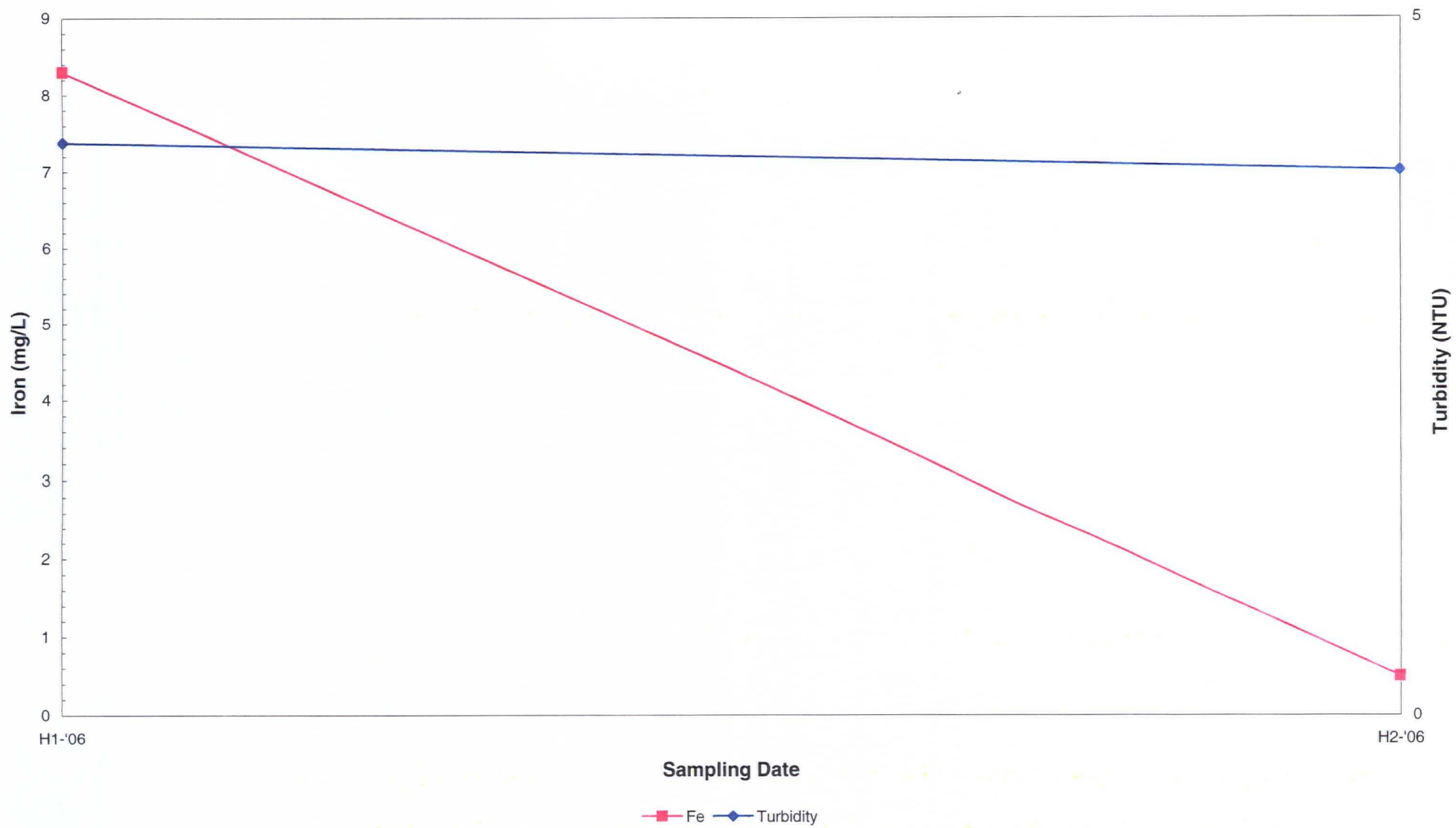
# Monitoring Well GW-1



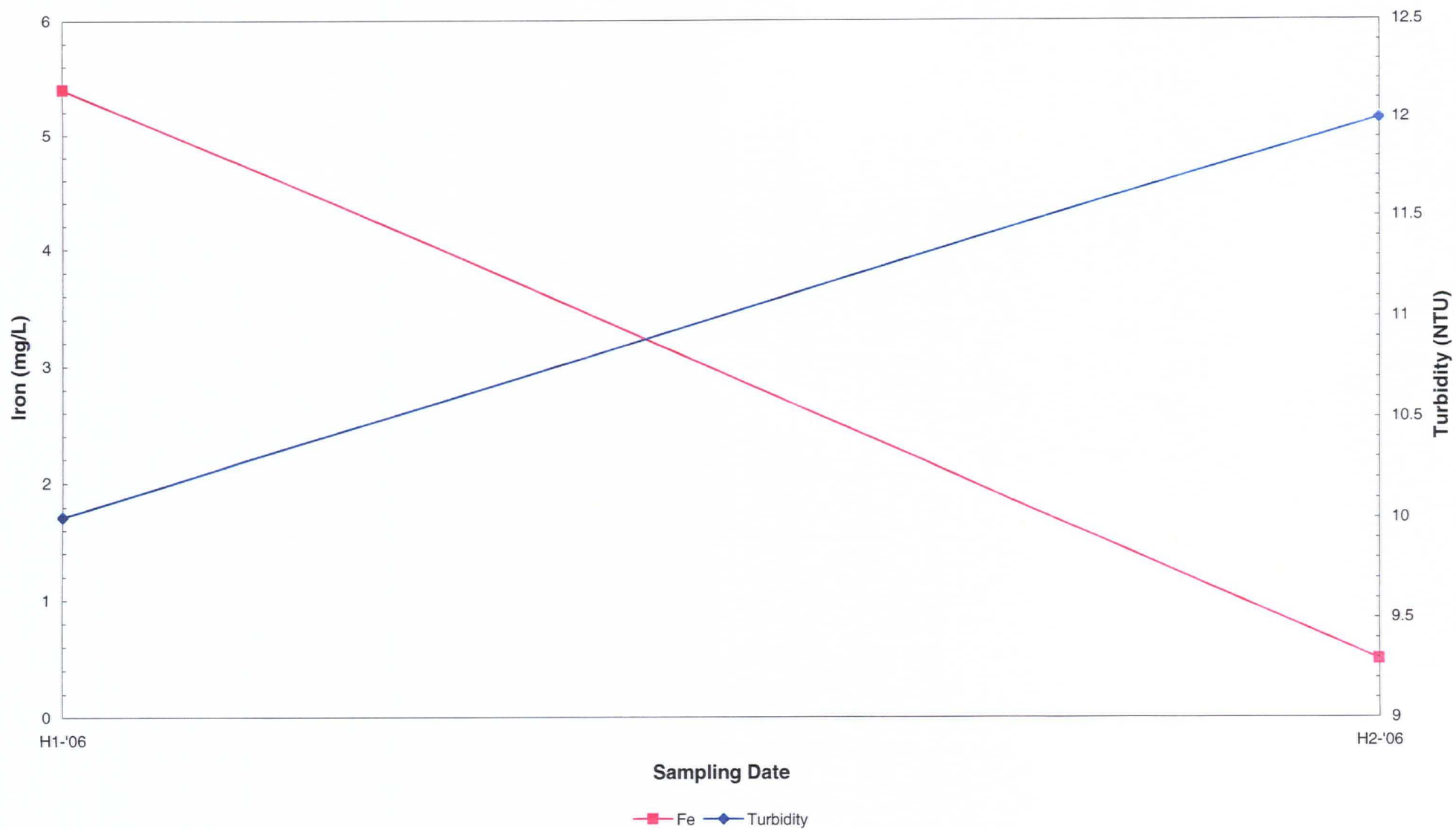
## Monitoring Well GW-2



### Monitoring Well GW-3

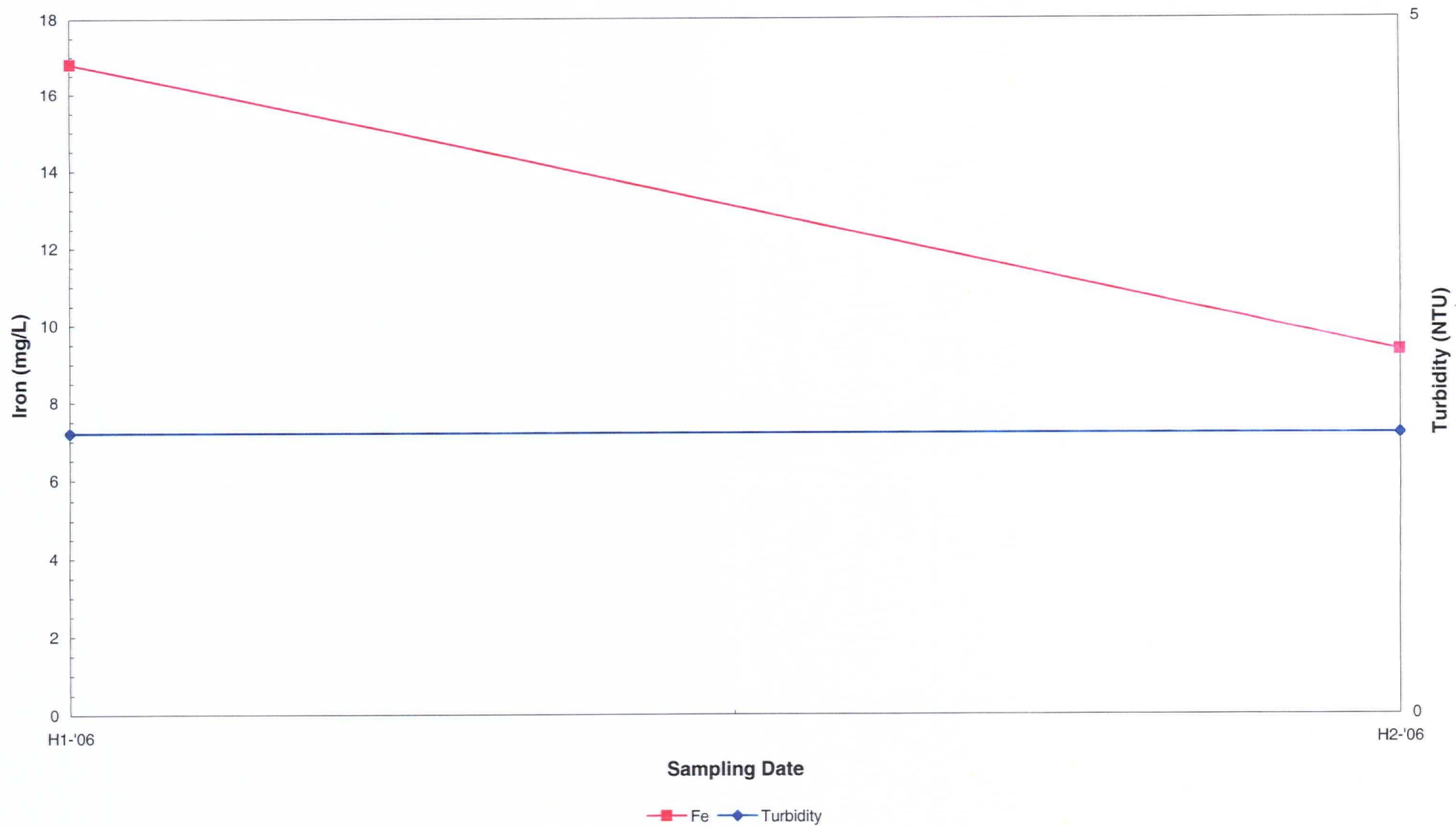


# Monitoring Well GW-4

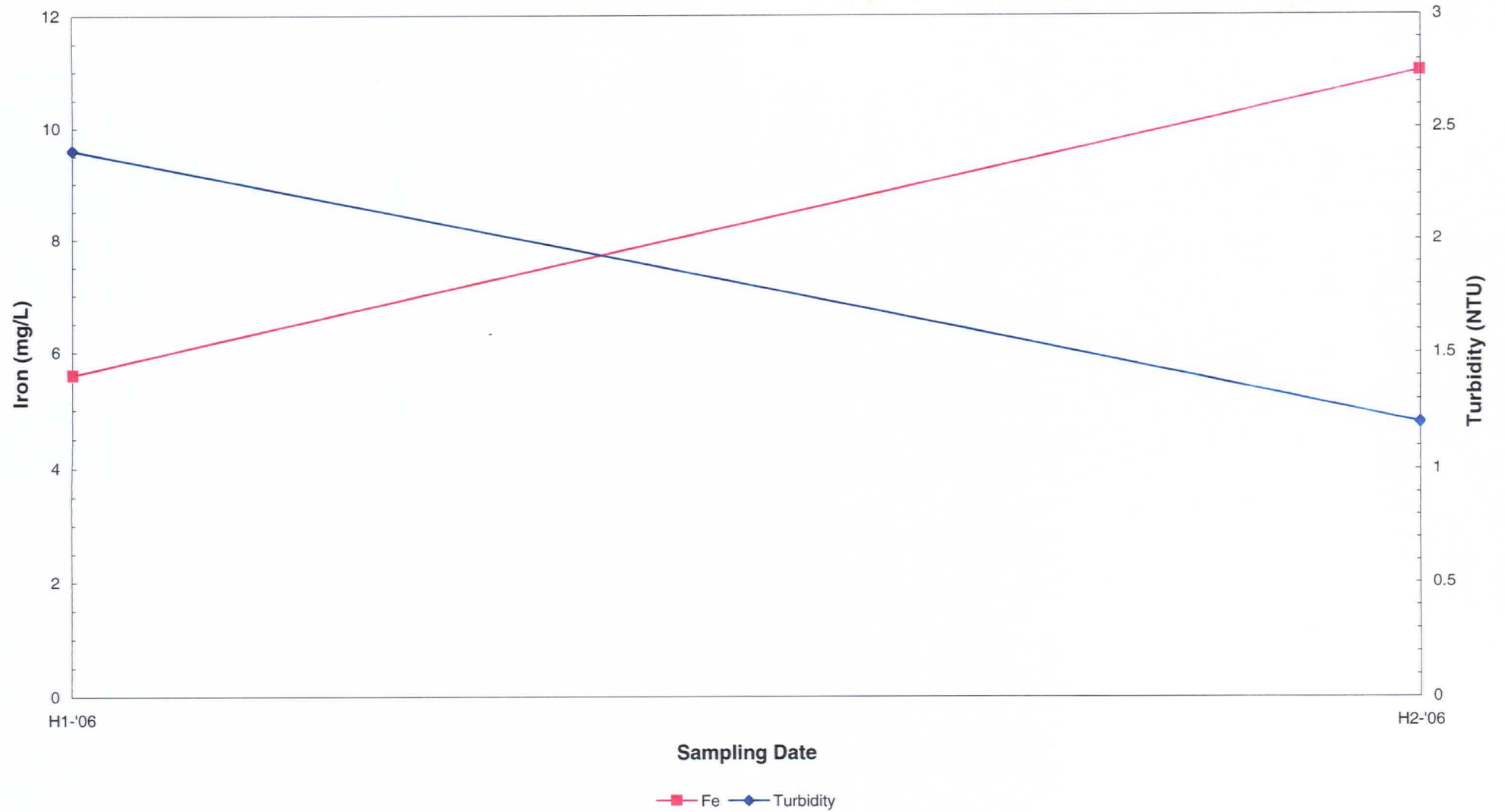




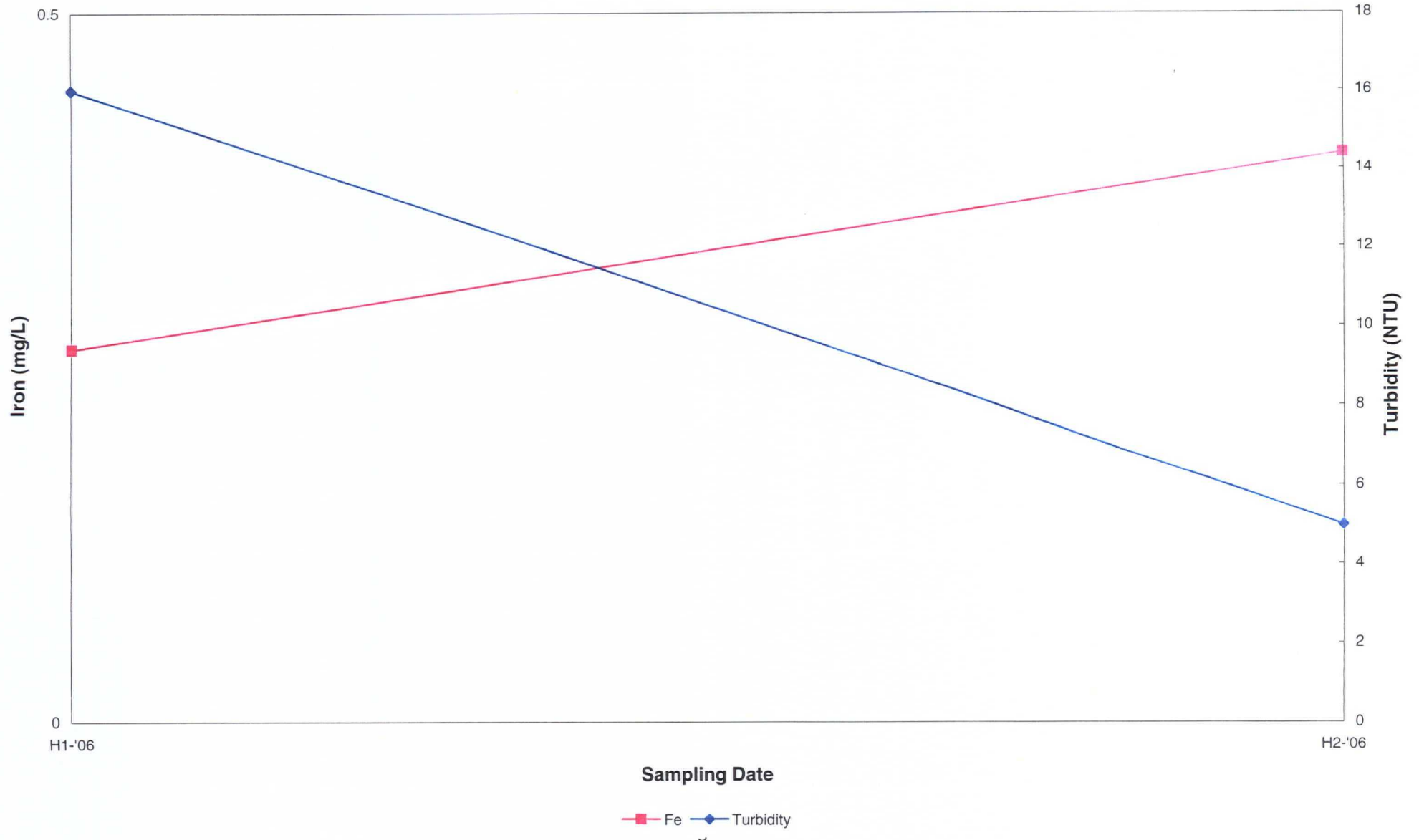
### Monitoring Well GW-5



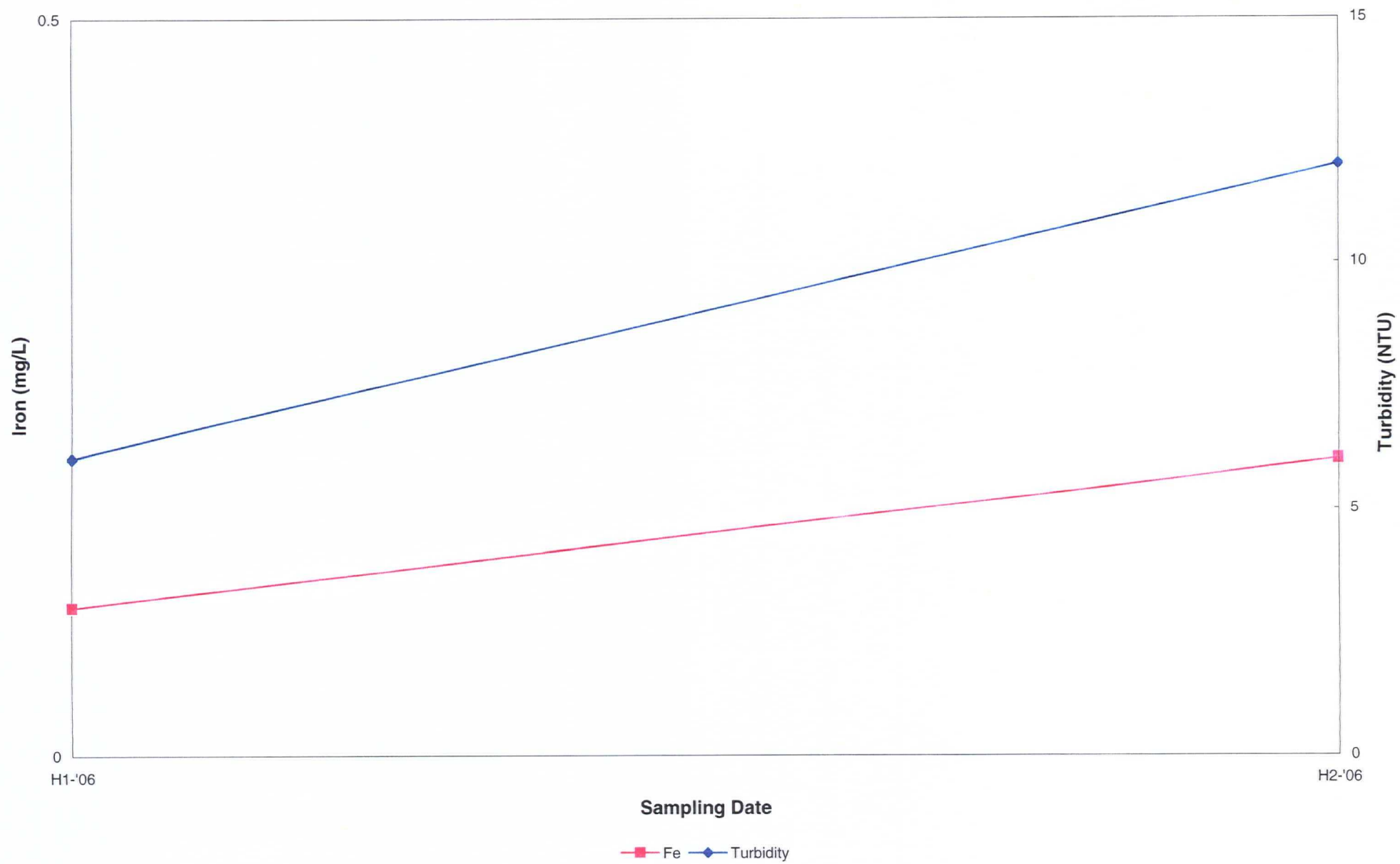
# Monitoring Well GW-6



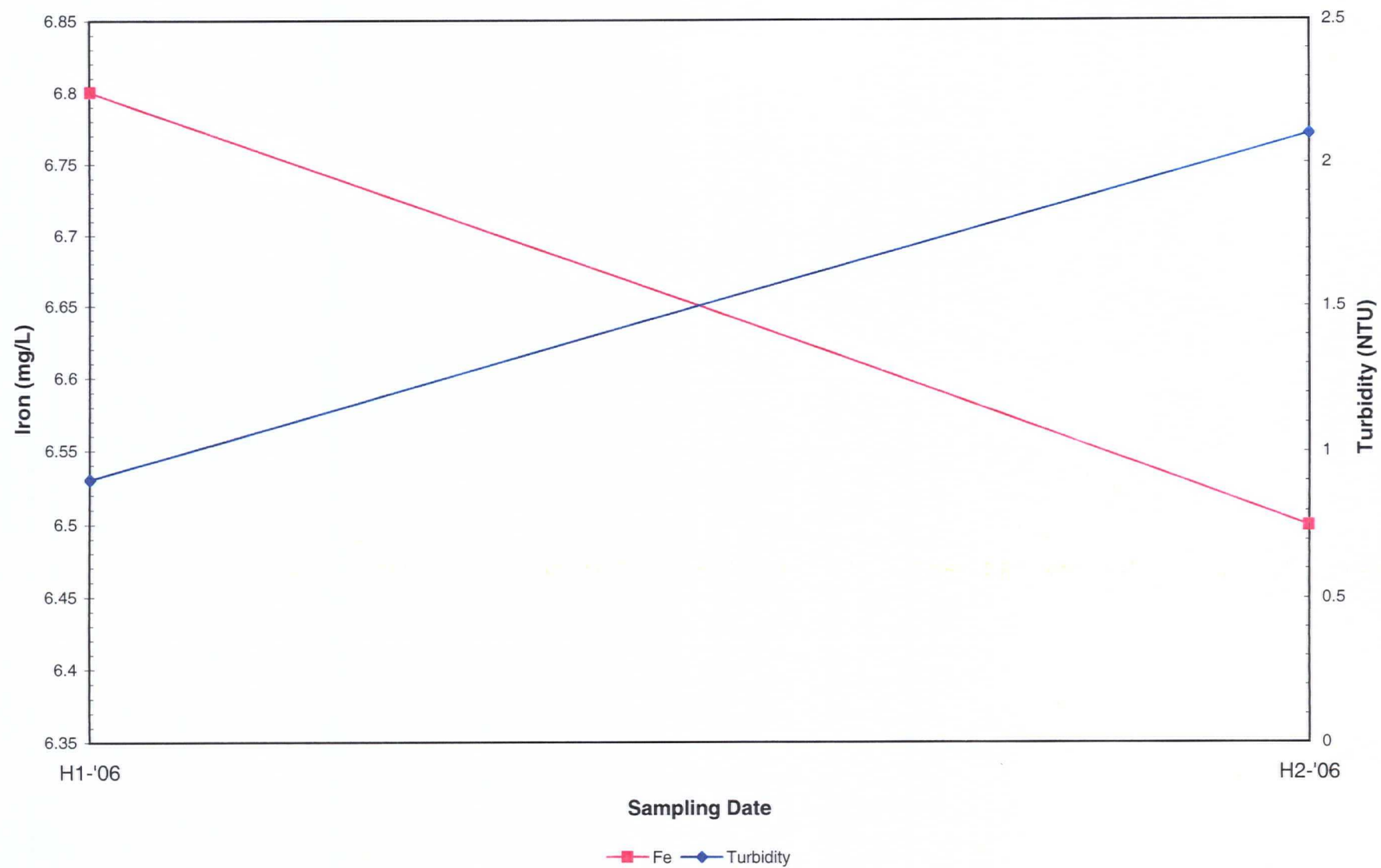
# Monitoring Well GW-8



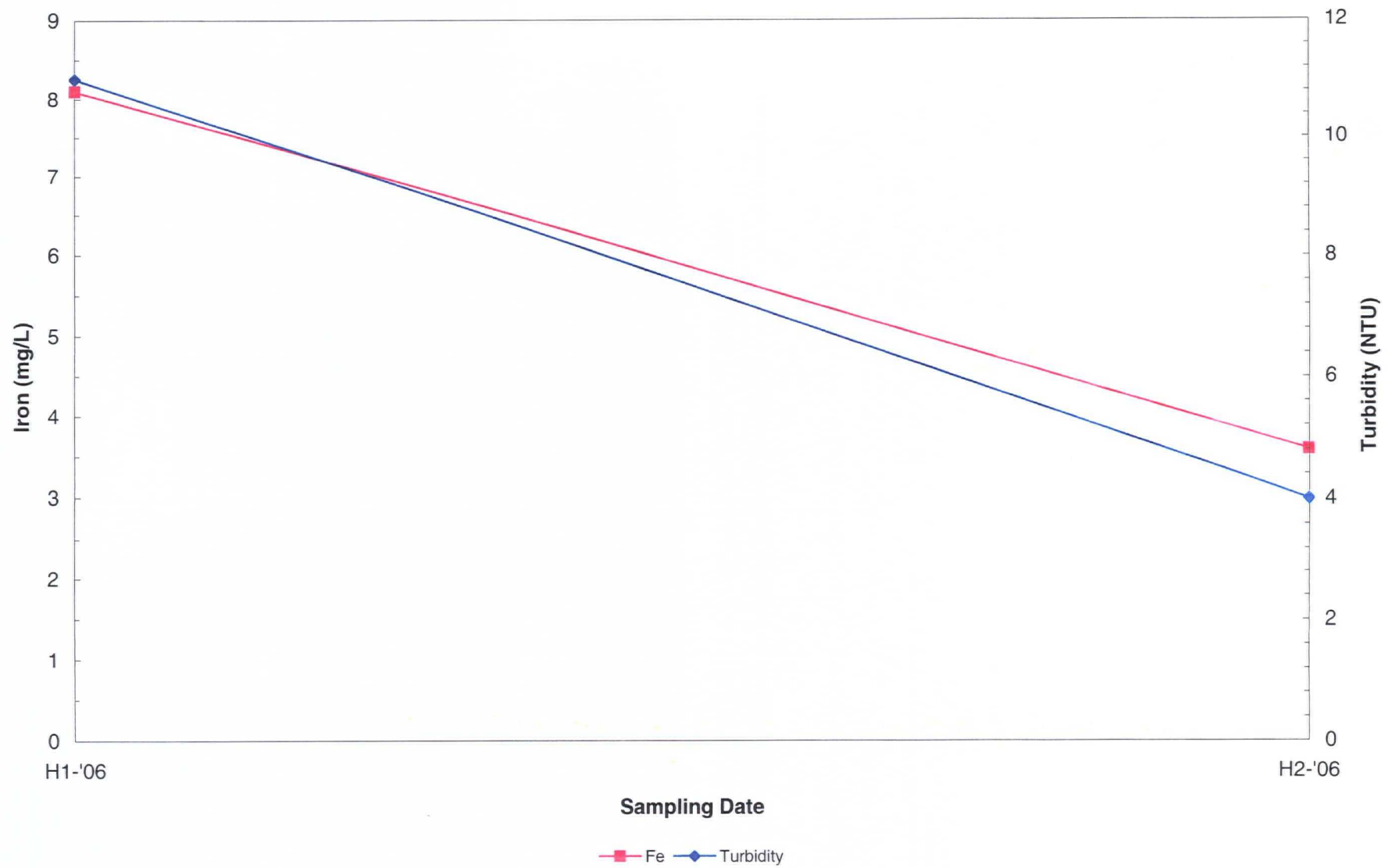
# Monitoring Well GW-7



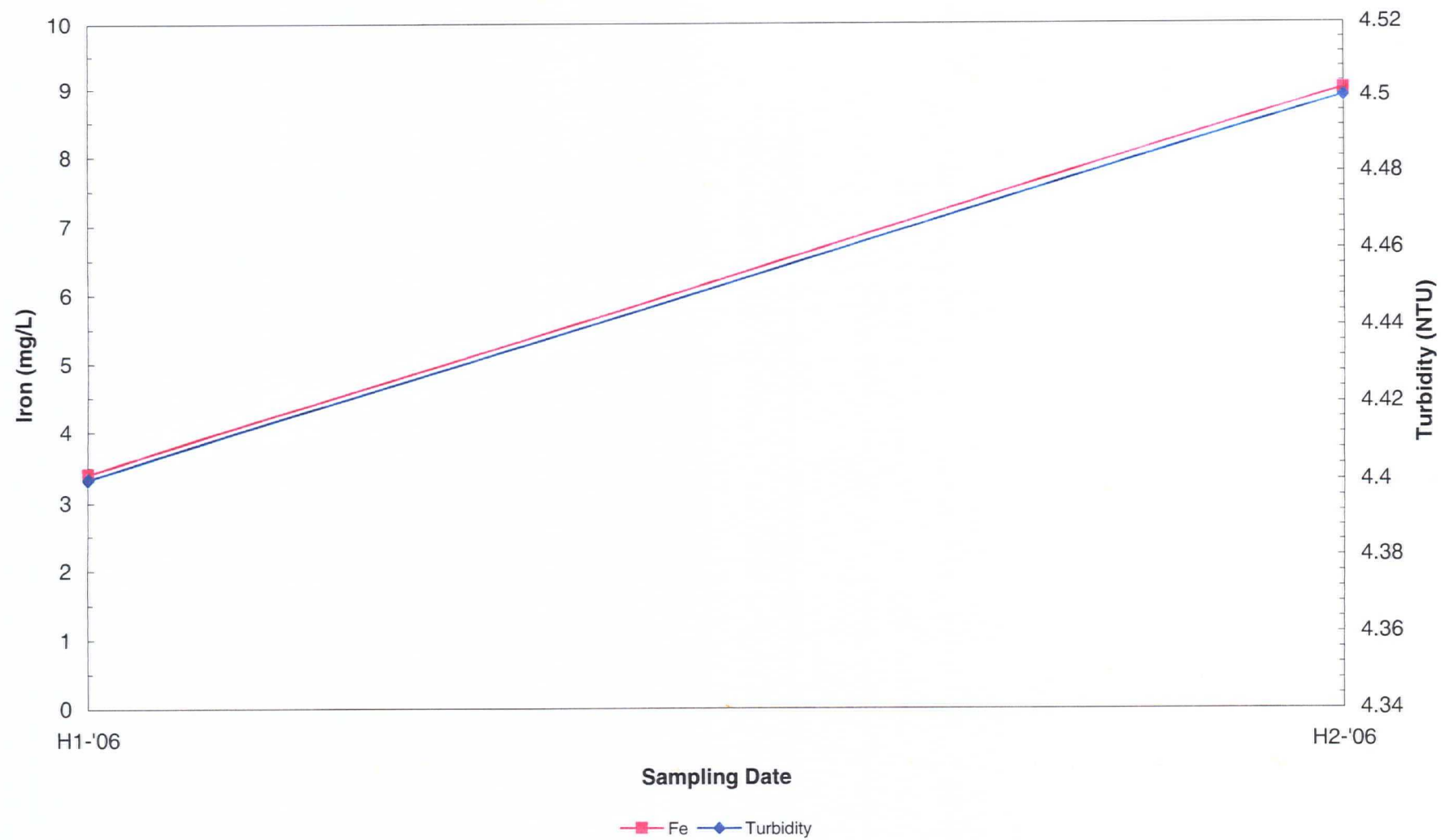
### Monitoring Well GW-9



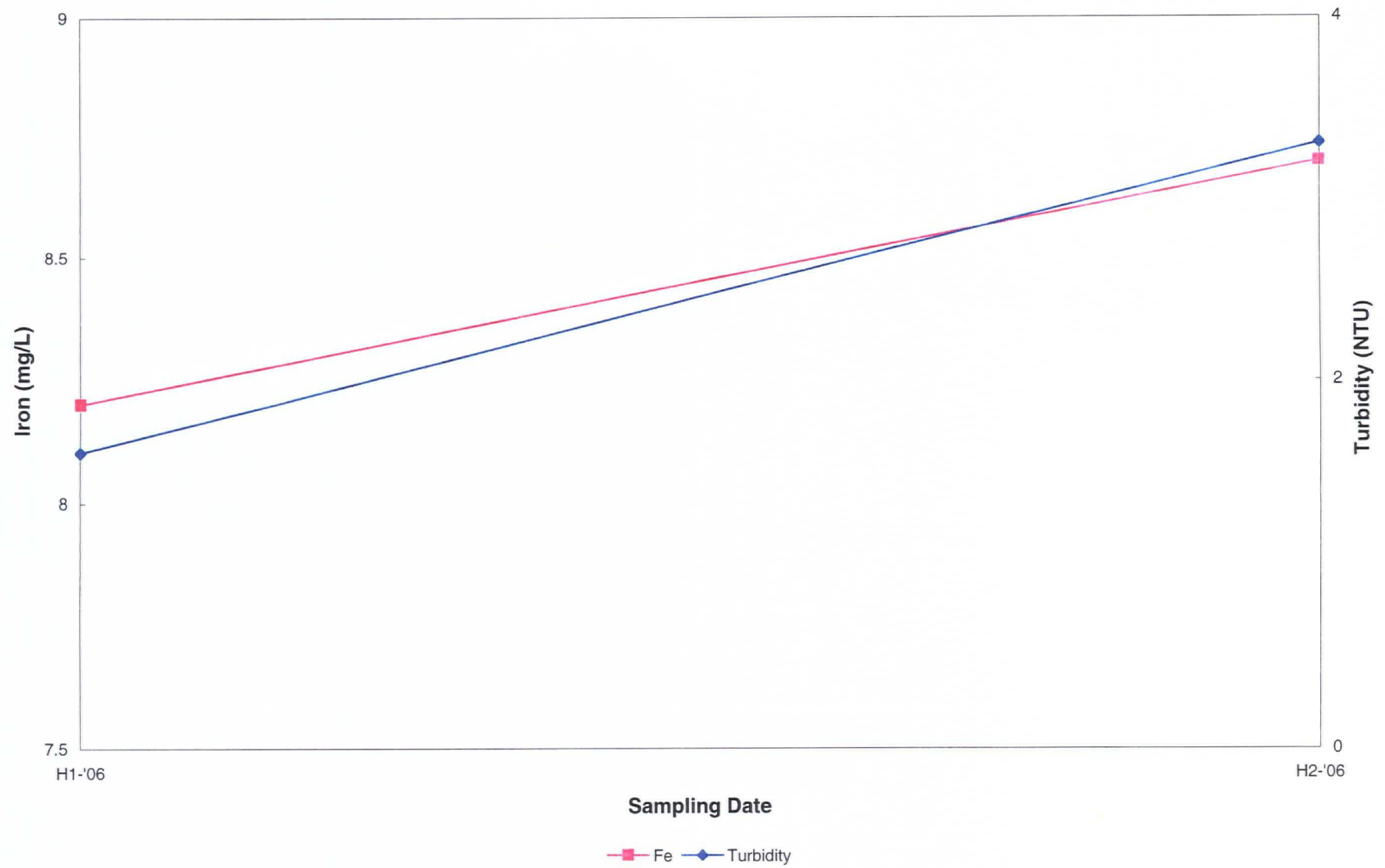
# Monitoring Well GW-10



## Monitoring Well GW-12

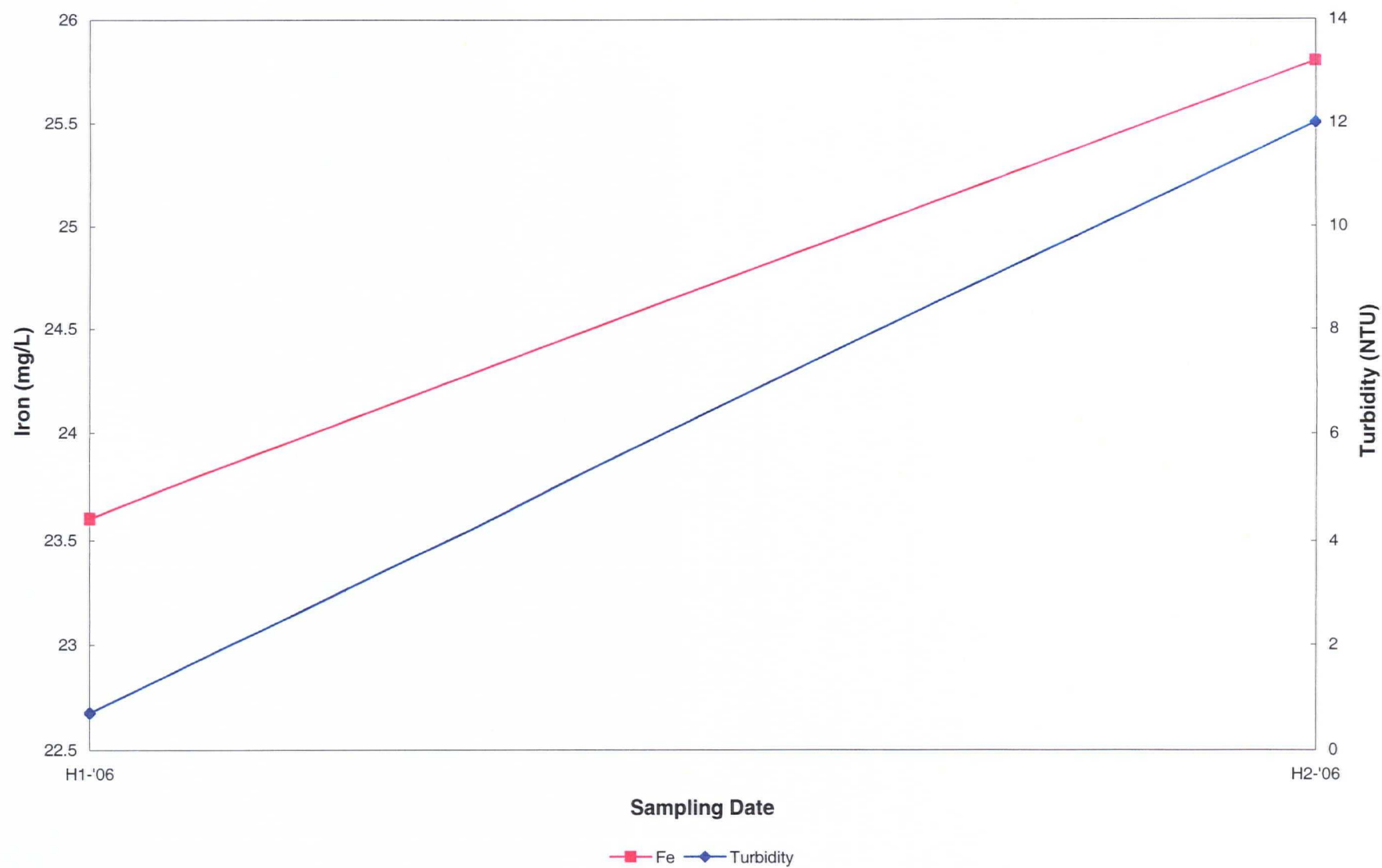


# Monitoring Well GW-13

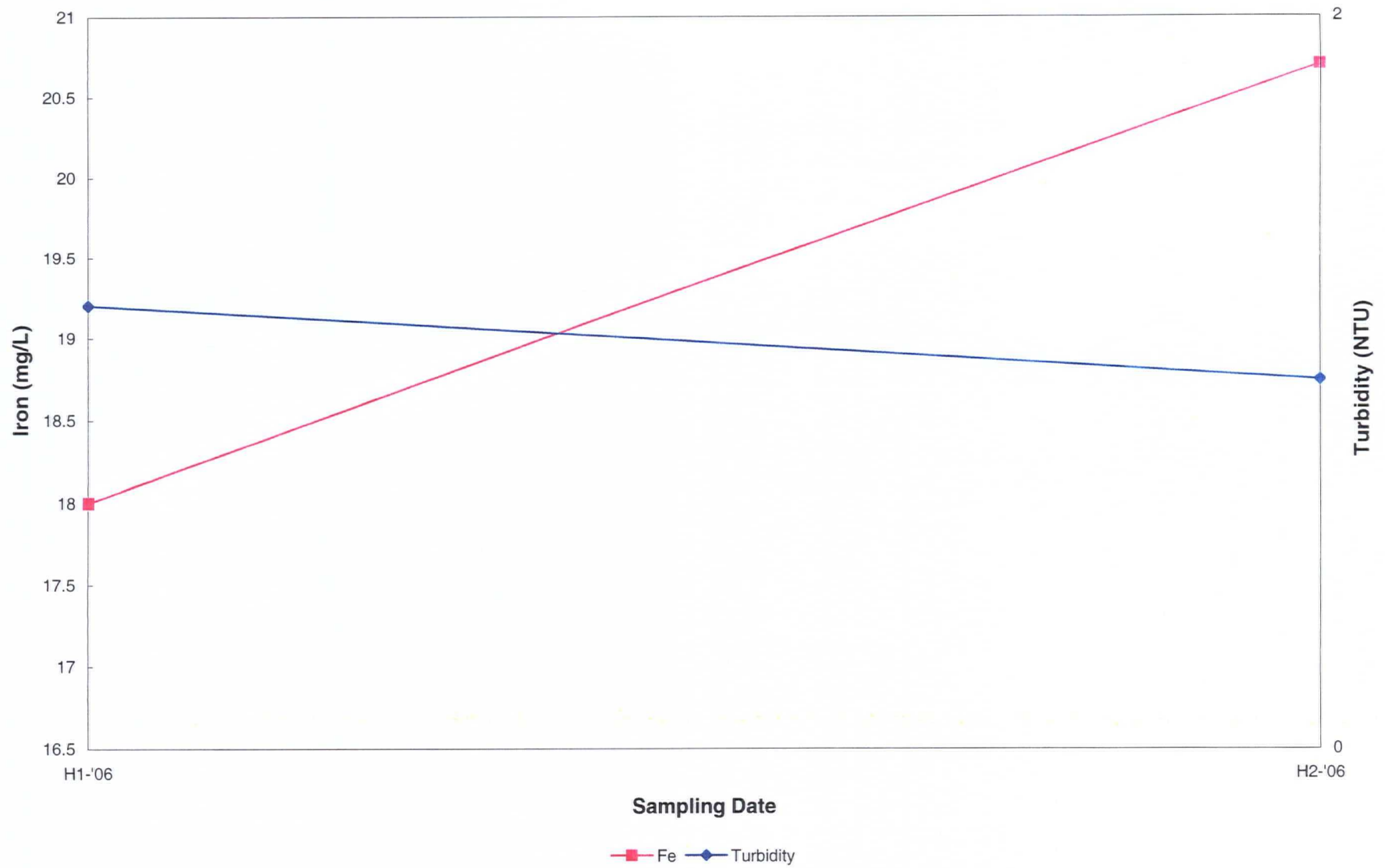




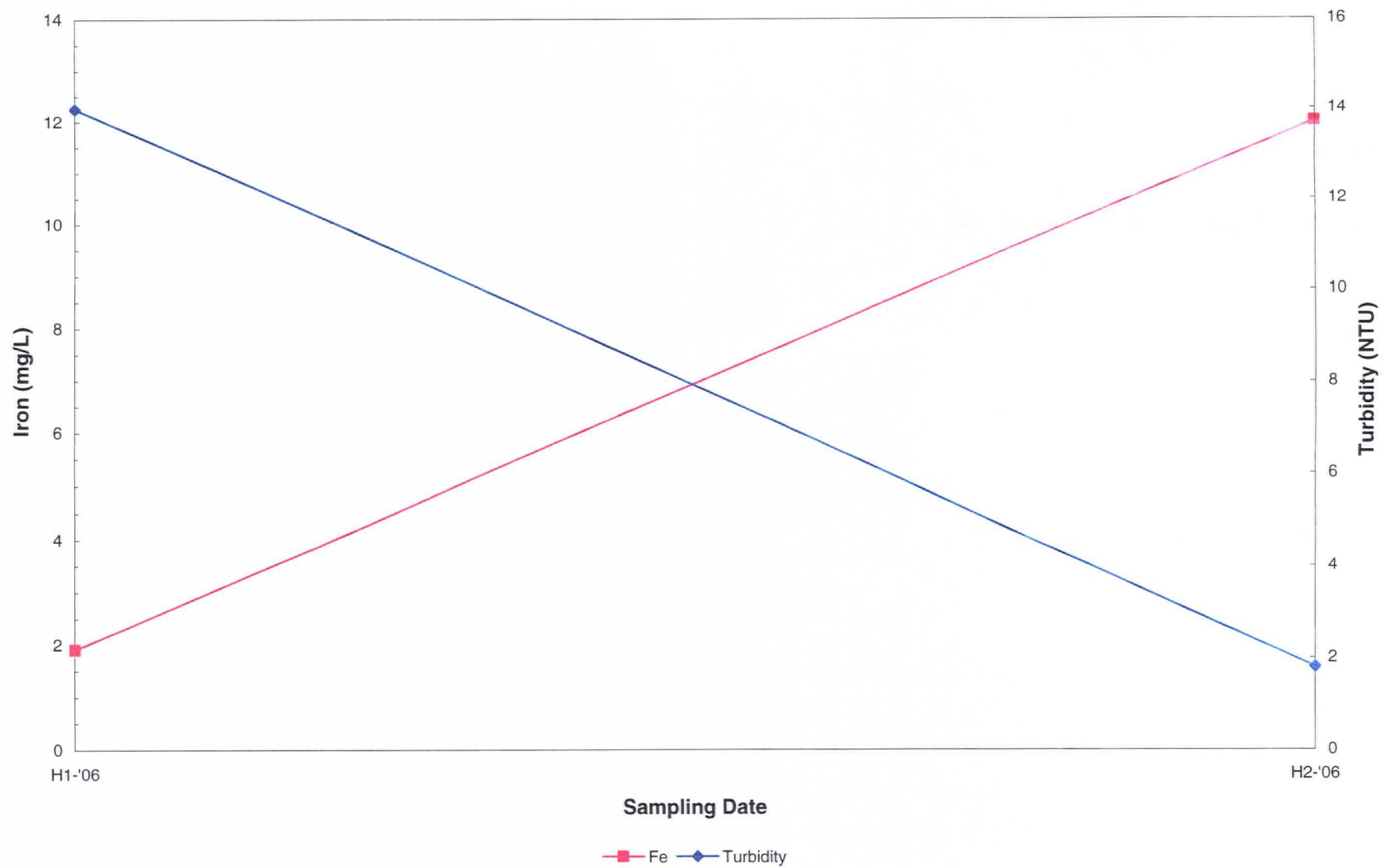
### Monitoring Well GW-14



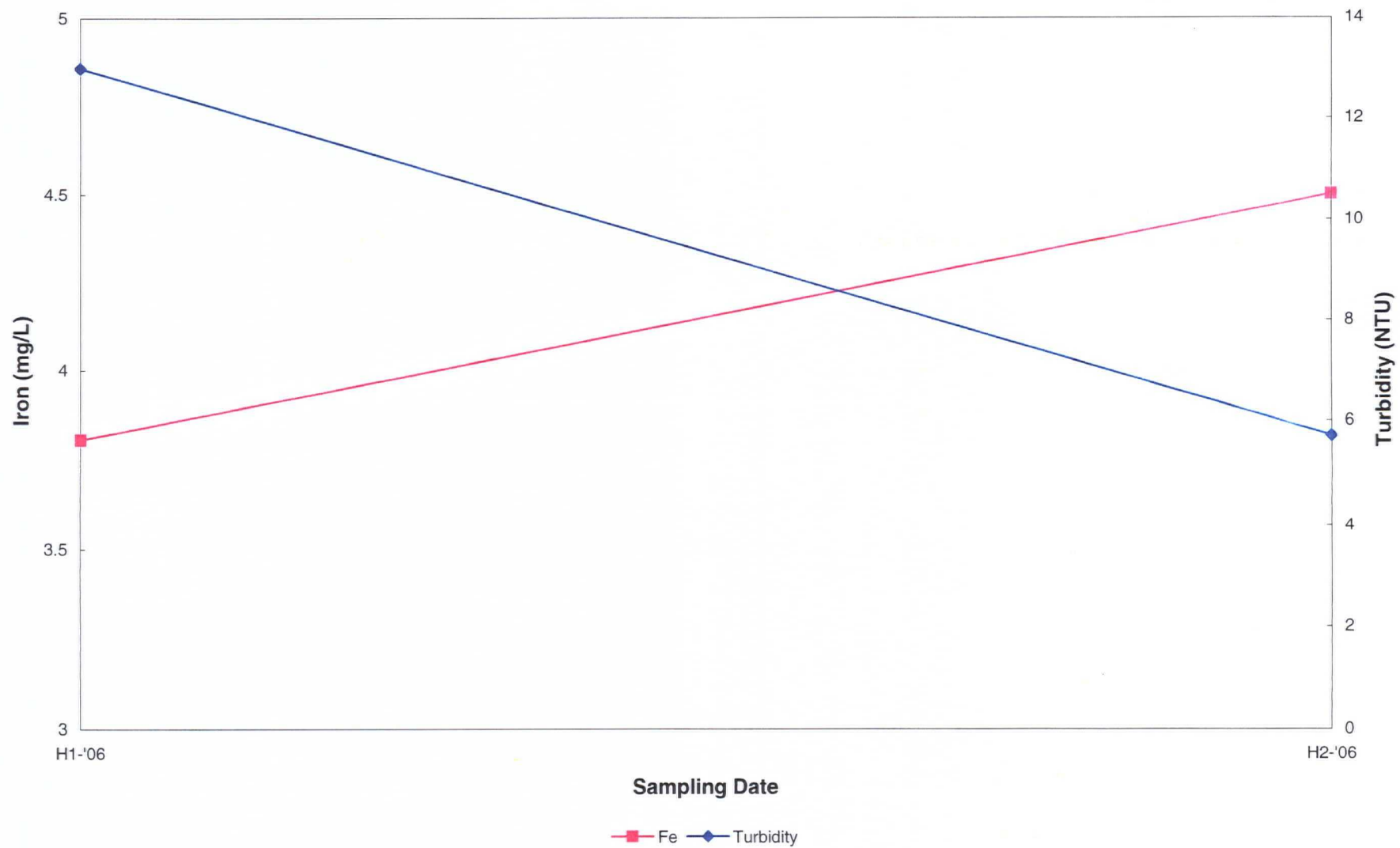
### Monitoring Well GW-15



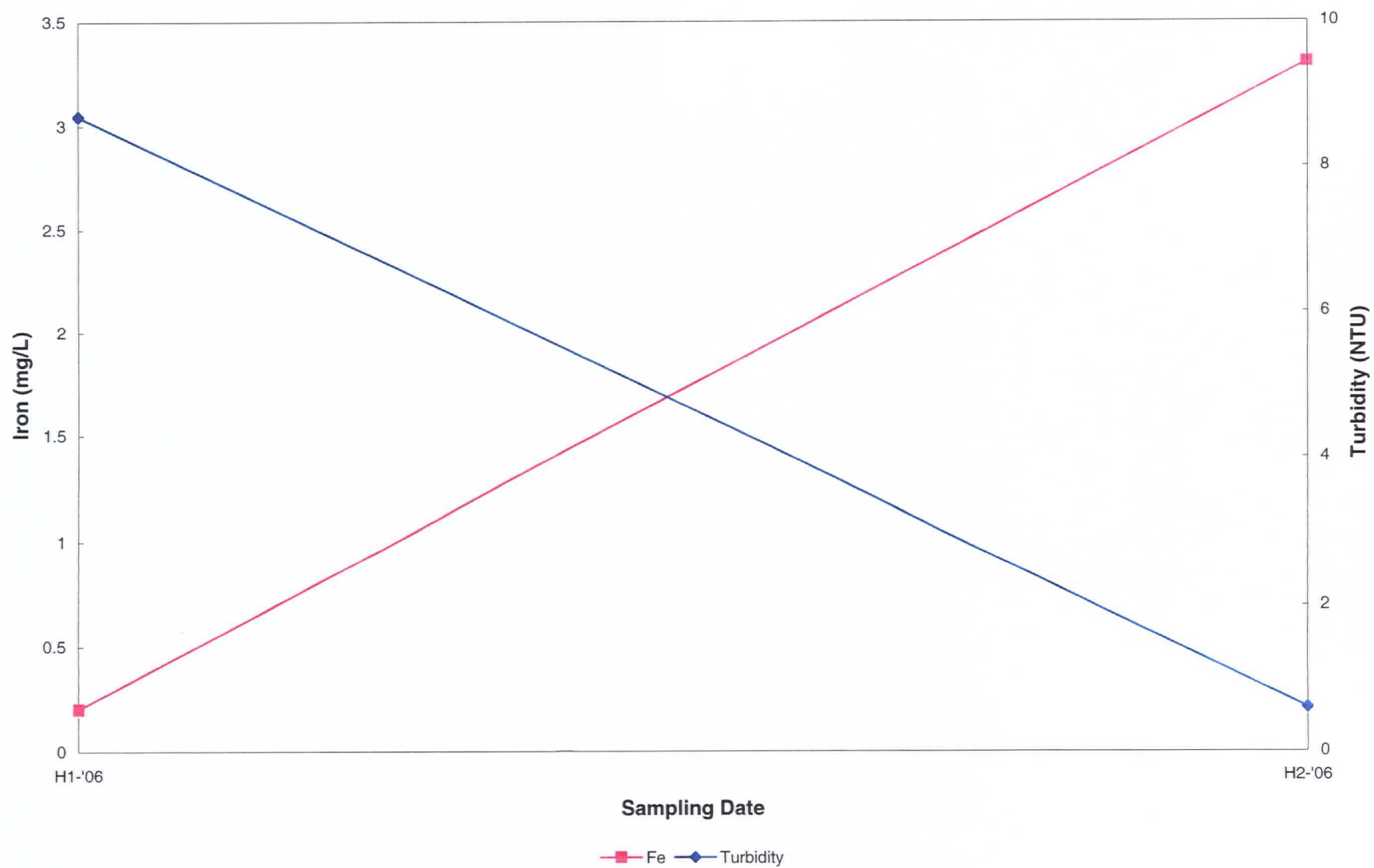
# Monitoring Well GW-16



### Monitoring Well GW-17

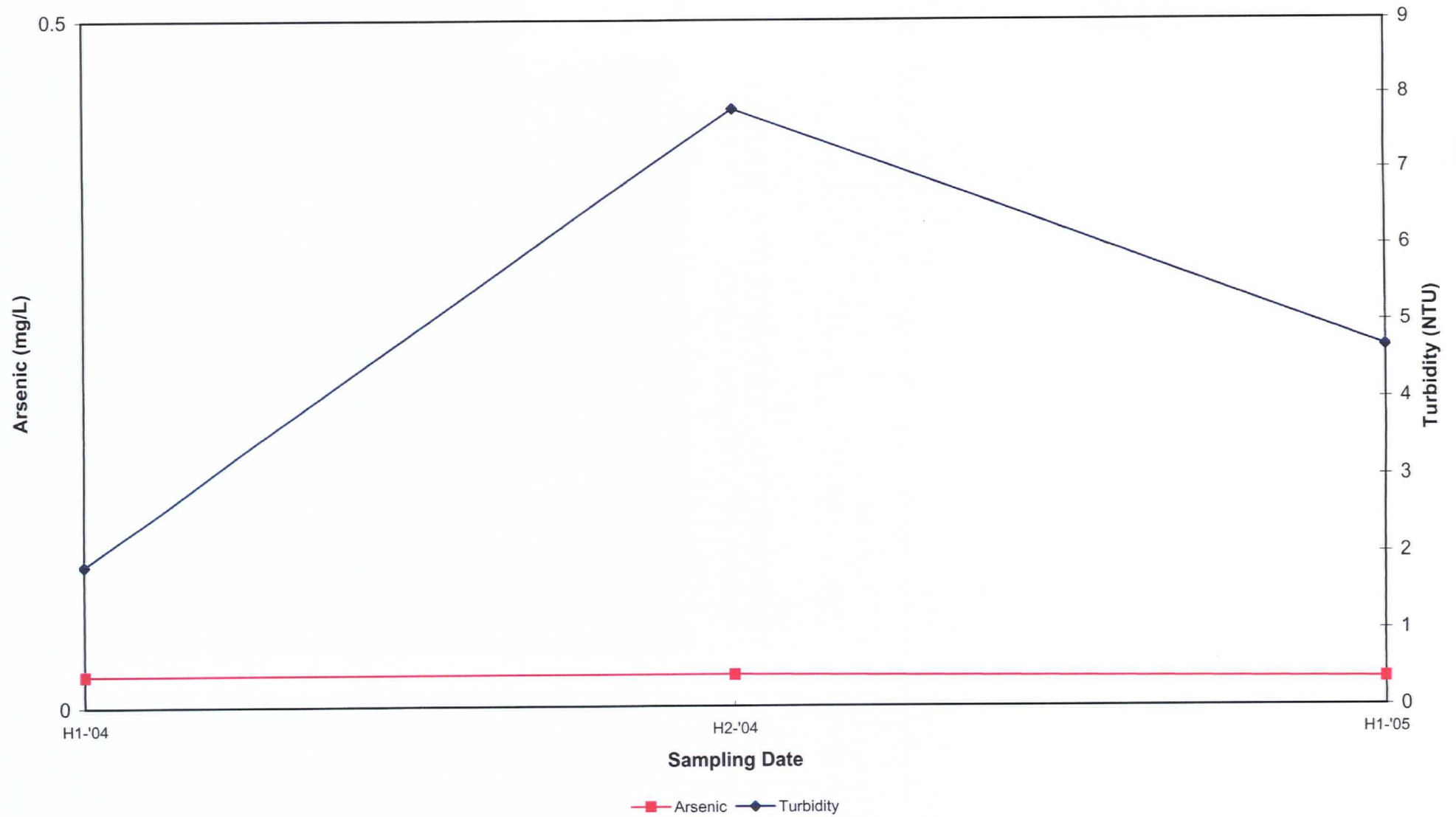


### Monitoring Well BGW-1

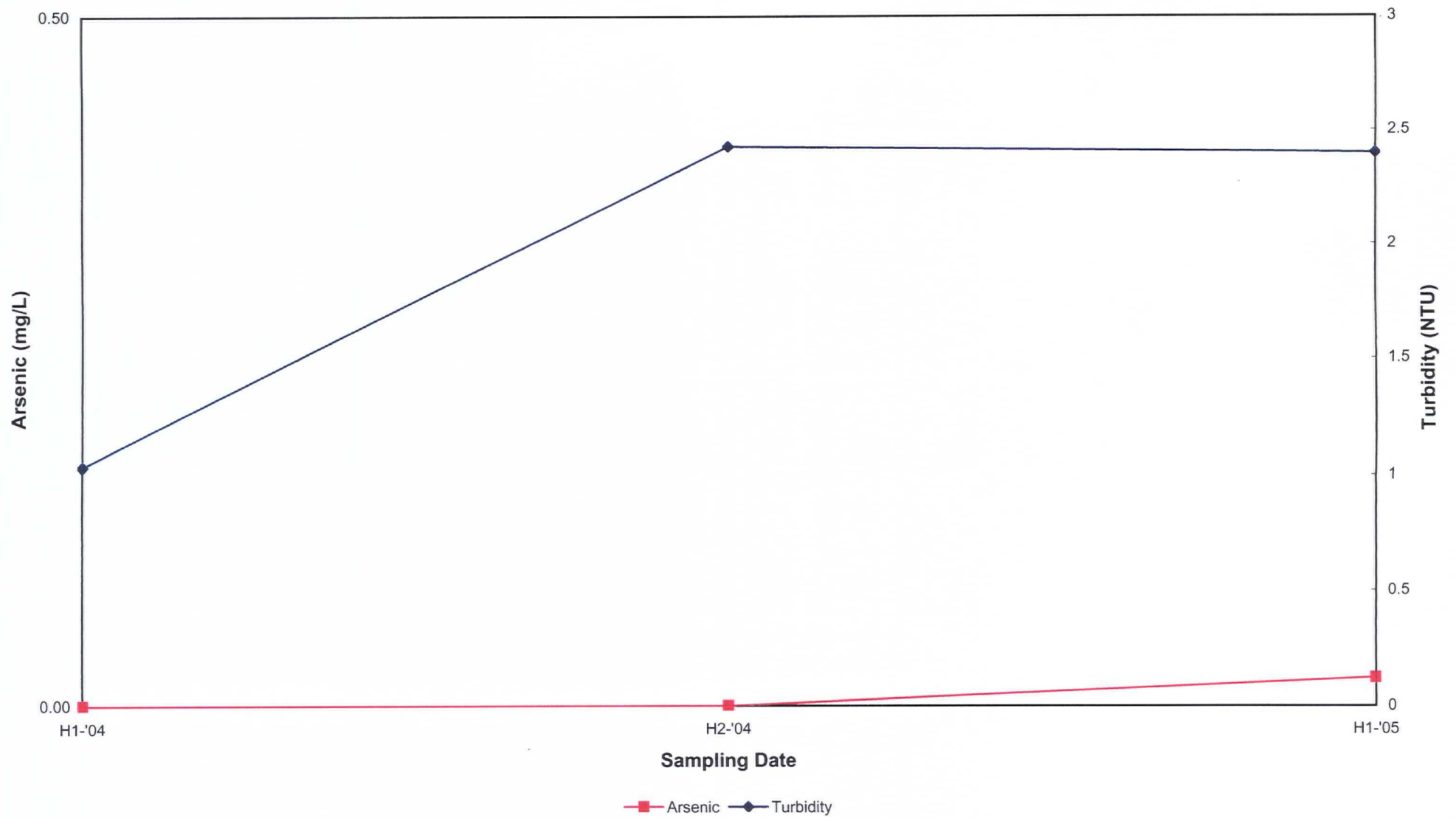


#### **B-4 – Turbidity versus Arsenic**

### Monitoring Well CW- 4

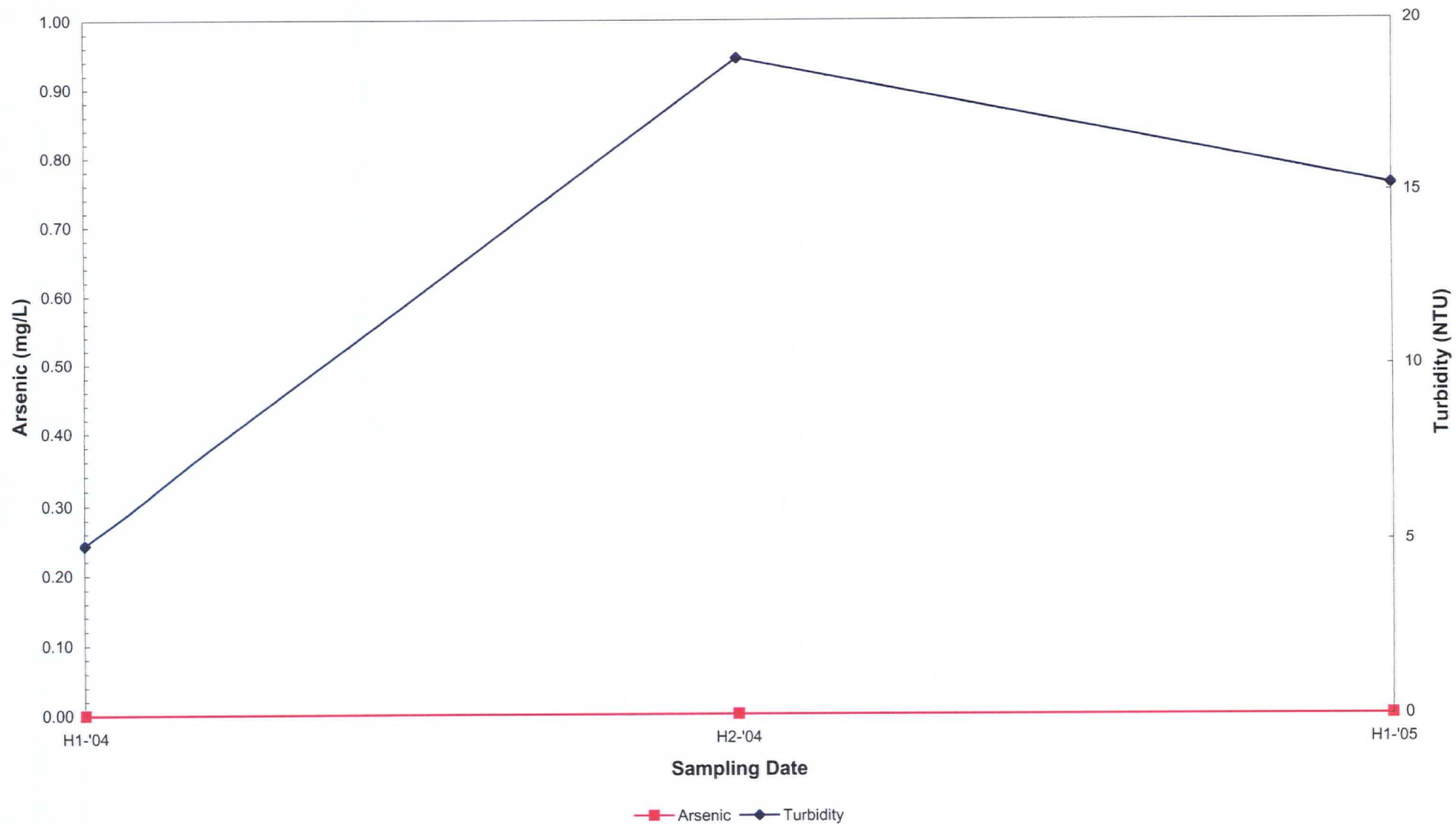


# Monitoring Well CW- 5A

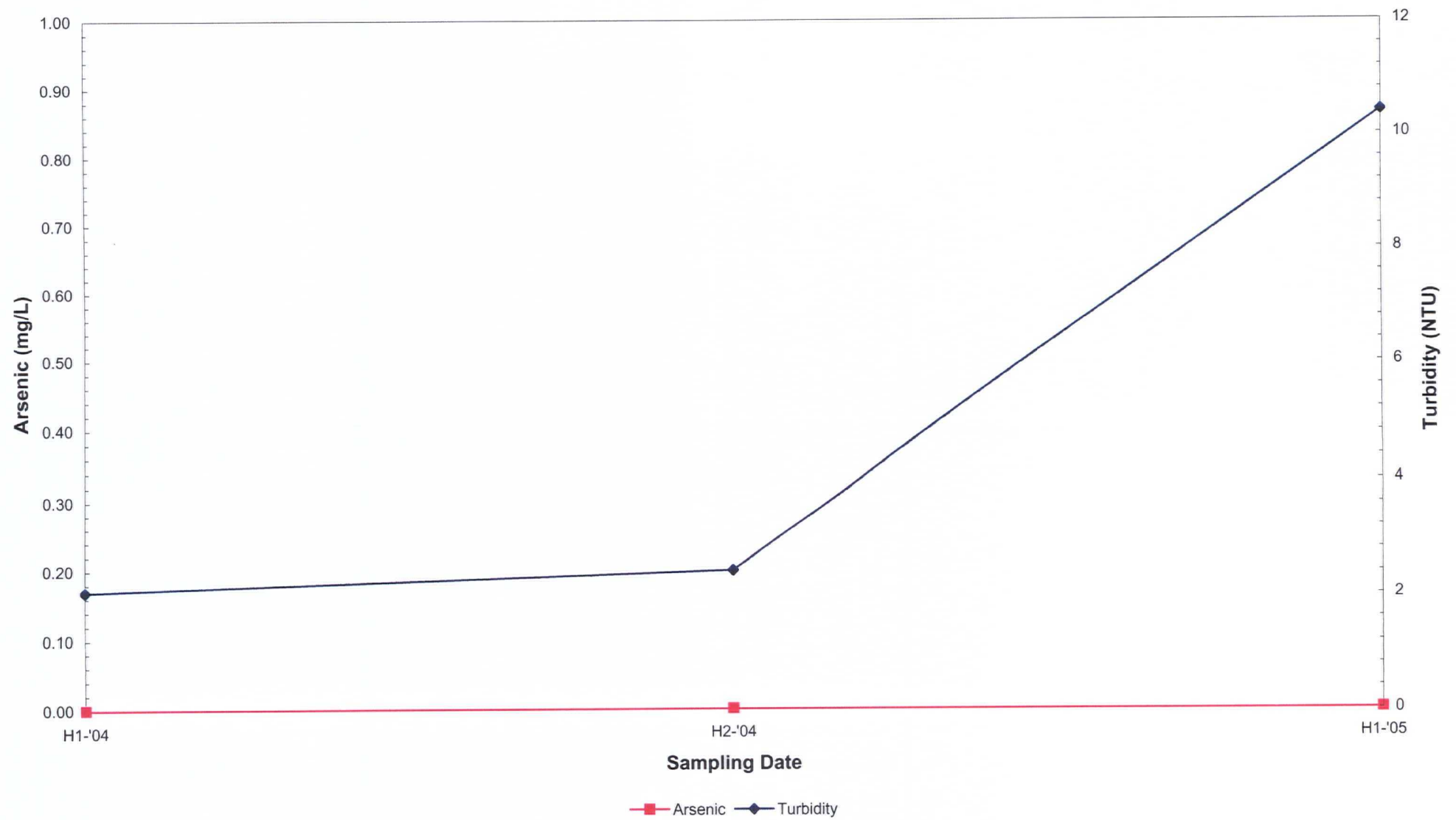




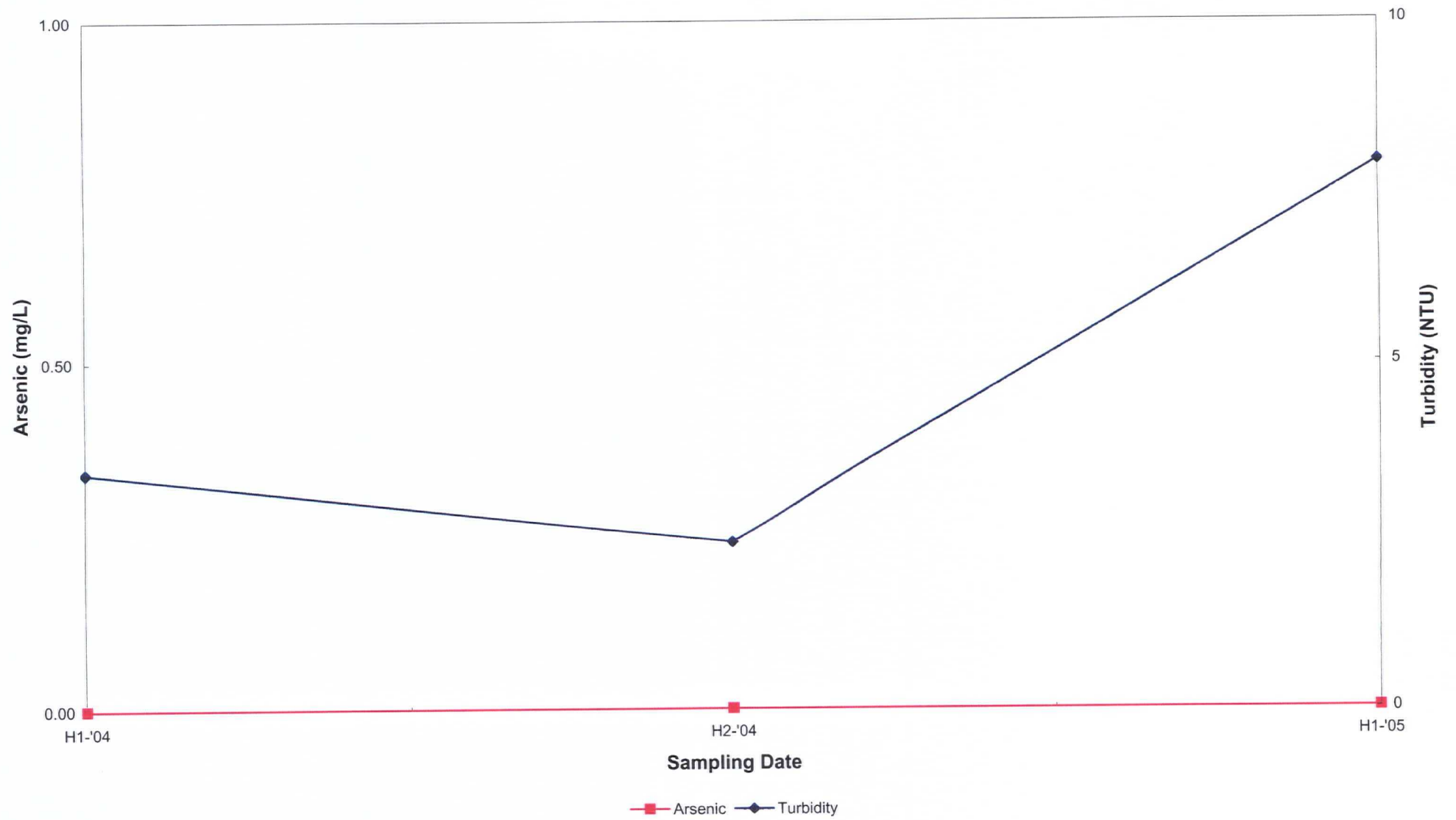
### Monitoring Well GC-1A



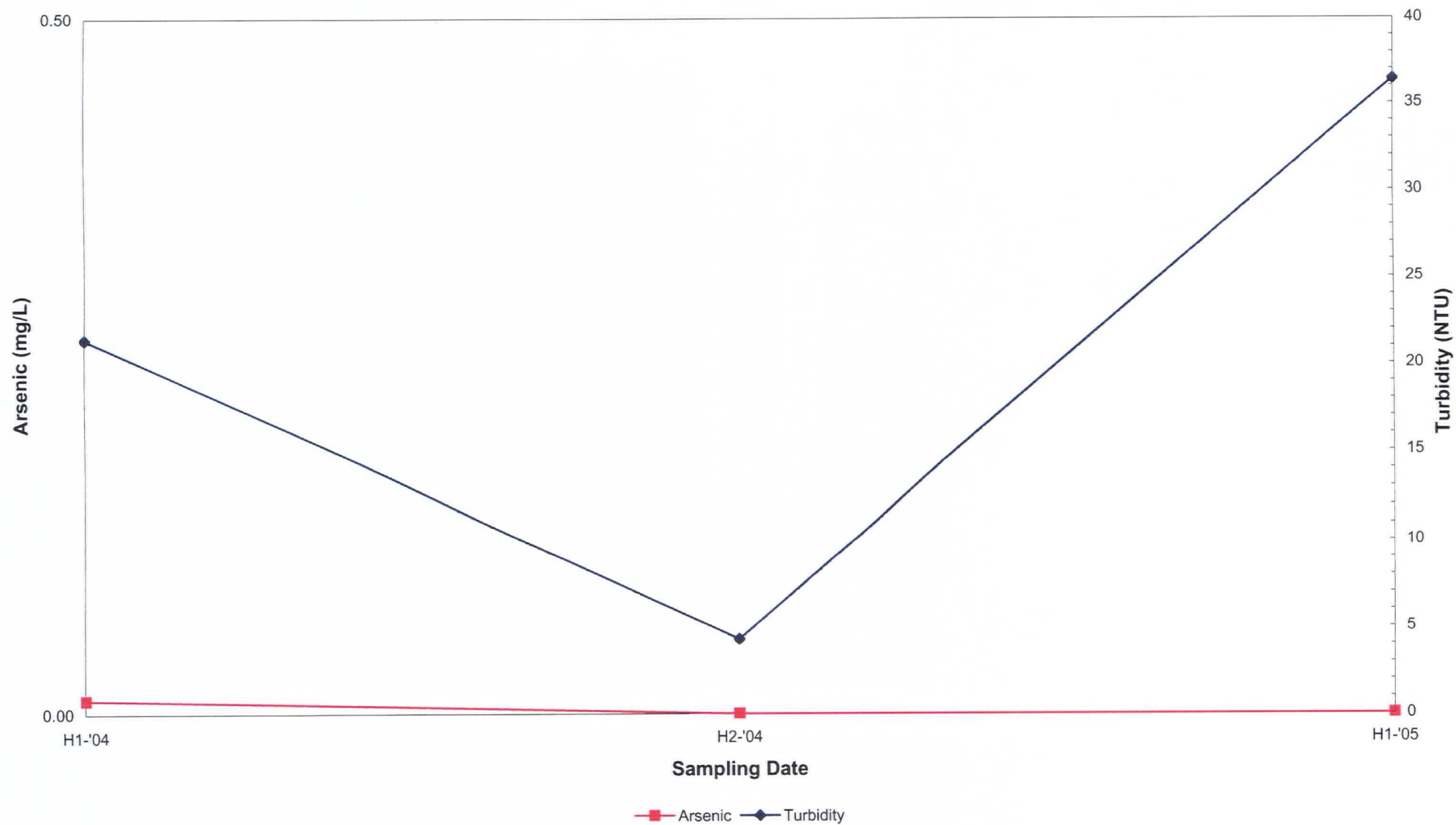
## Monitoring Well GC-2



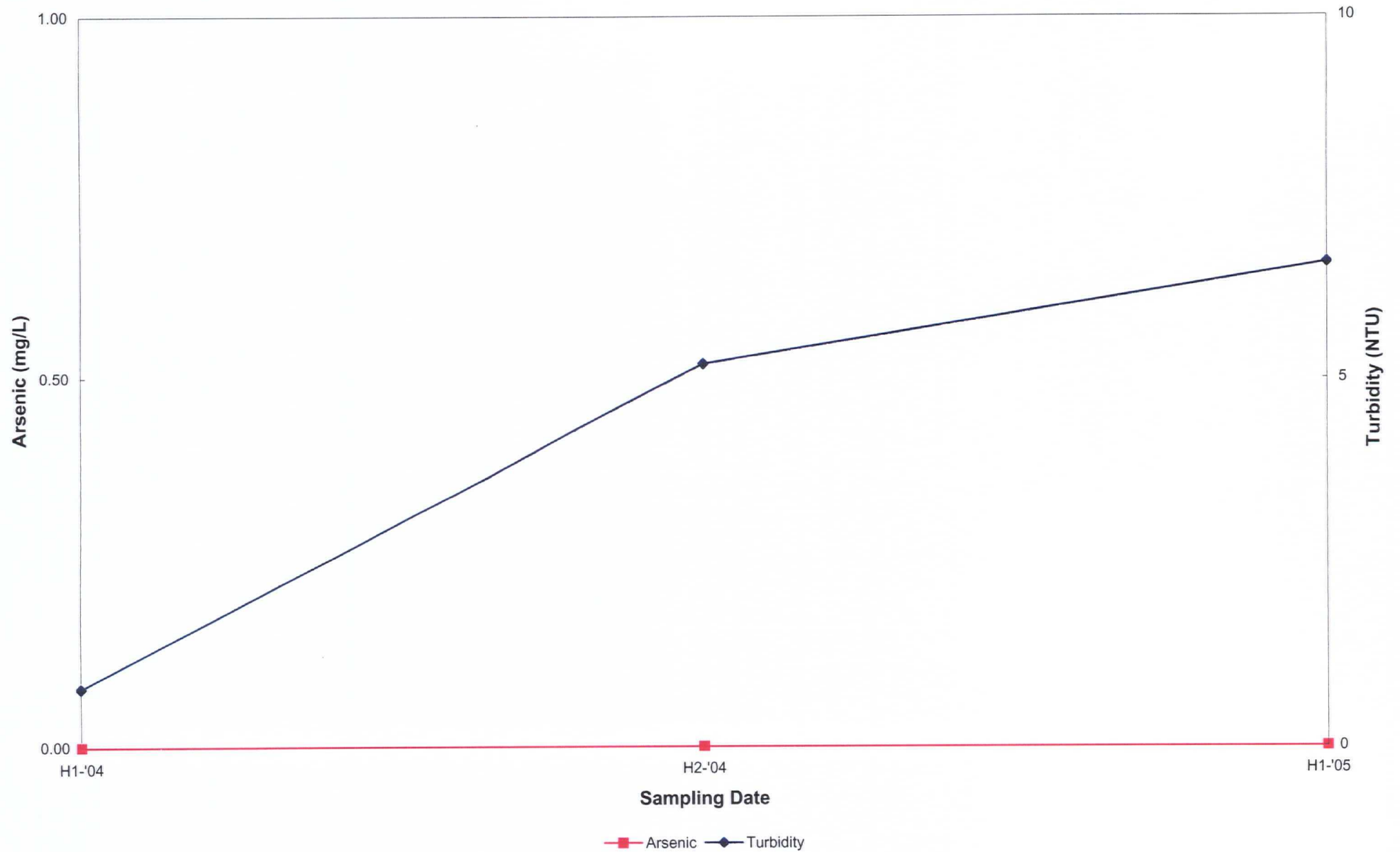
### Monitoring Well GC-3



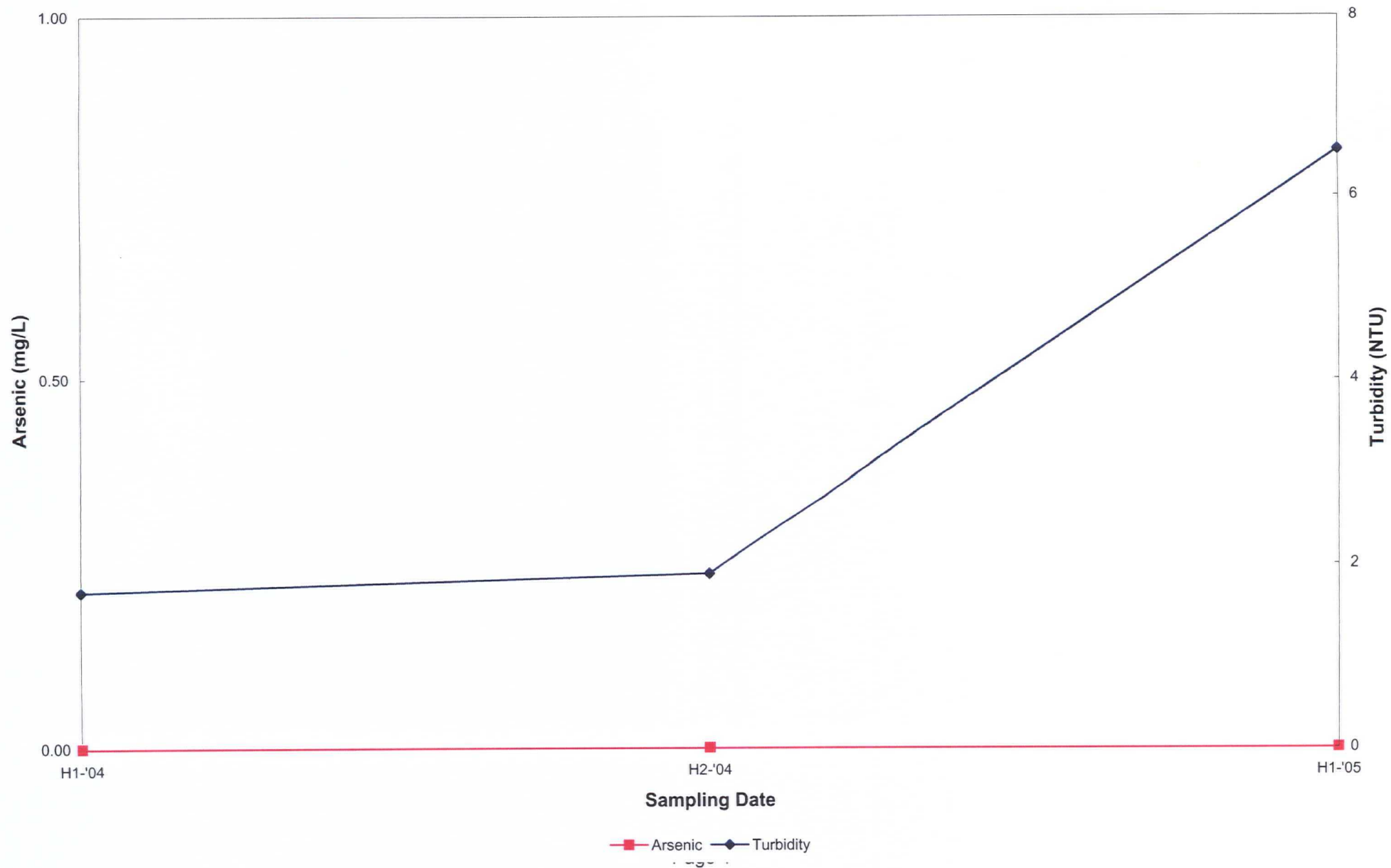
# Monitoring Well GC-4



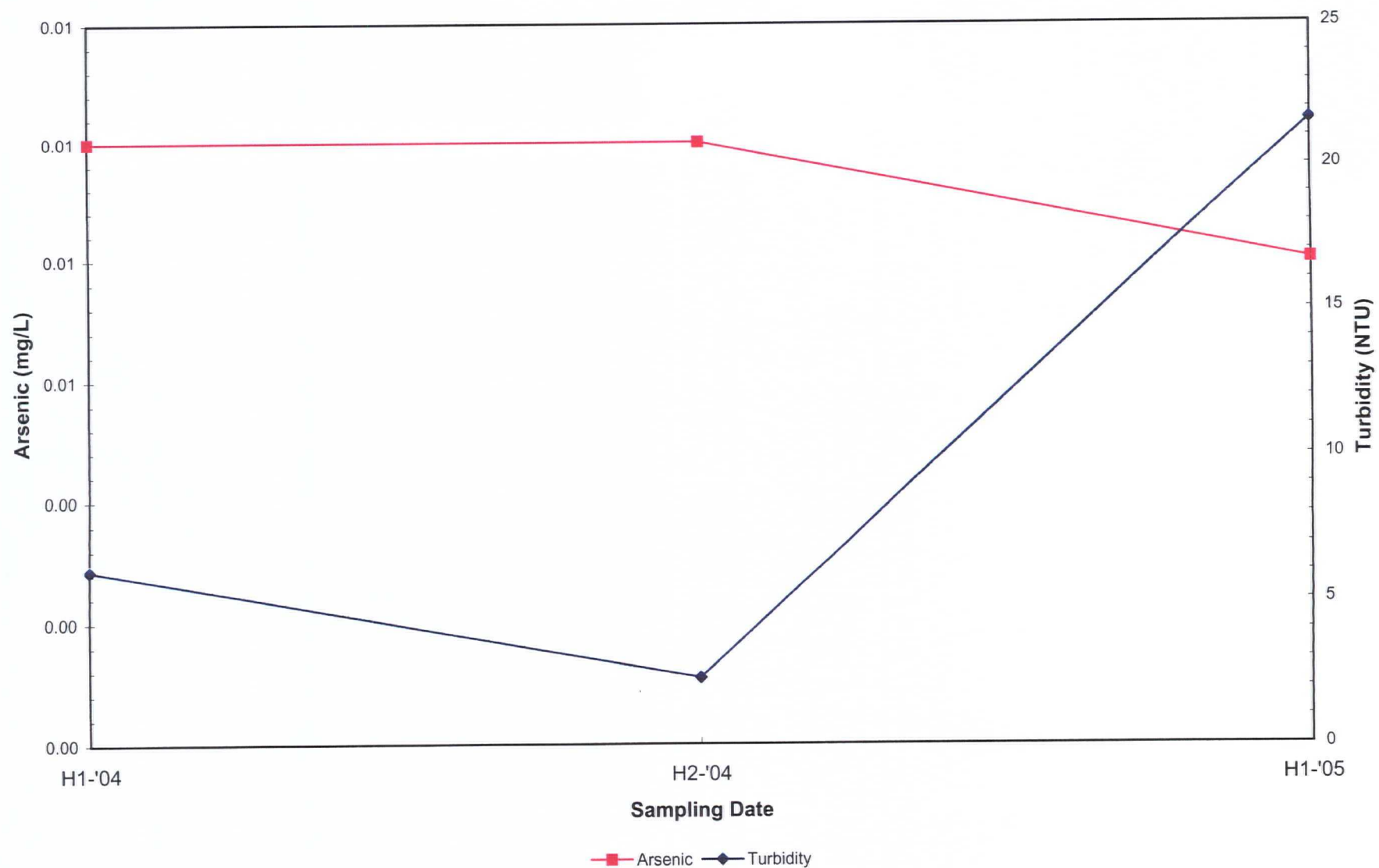
# Monitoring Well GC- 5



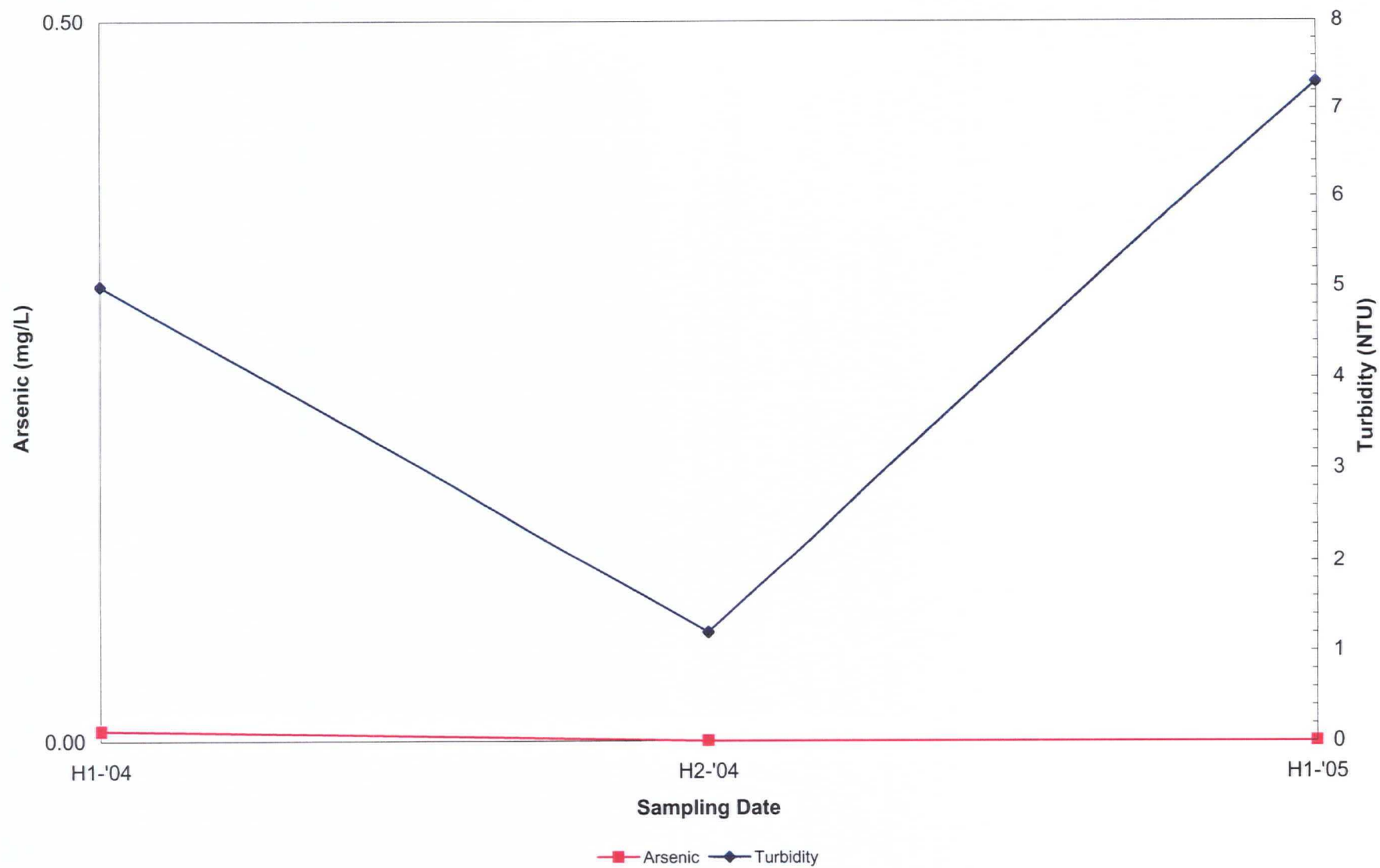
# Monitoring Well GC-6



# Monitoring Well LR11-1

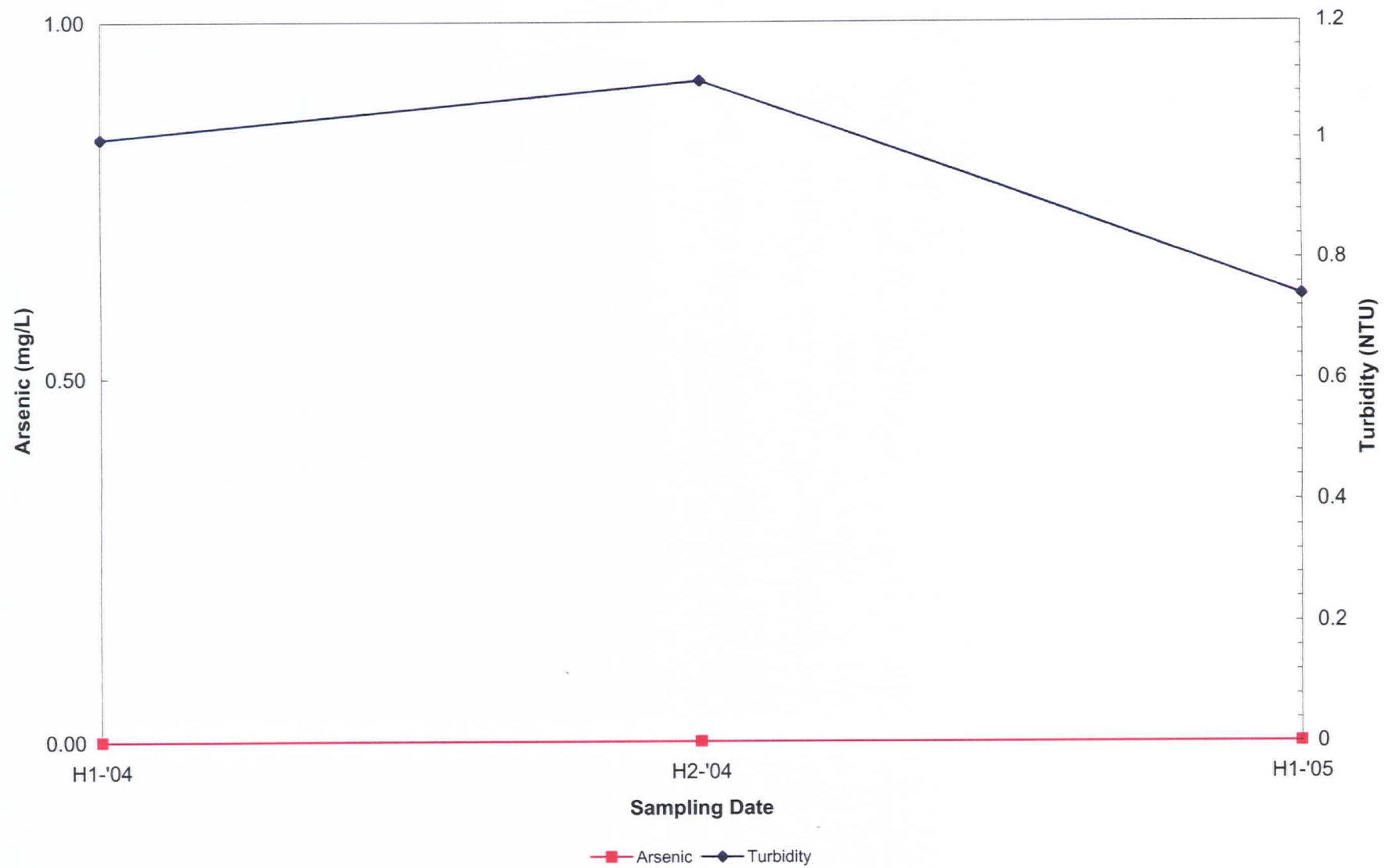


# Monitoring Well LR11-2

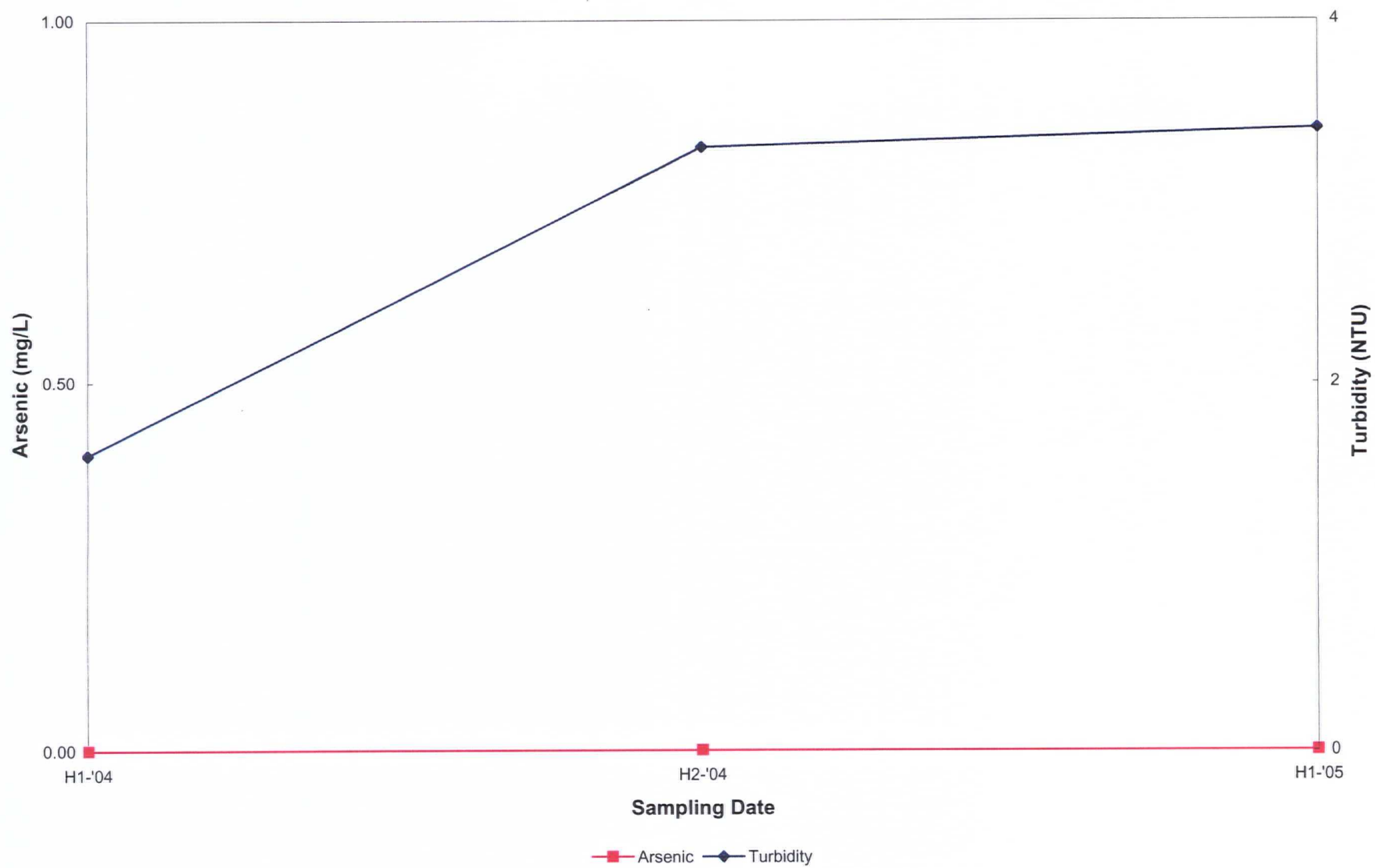




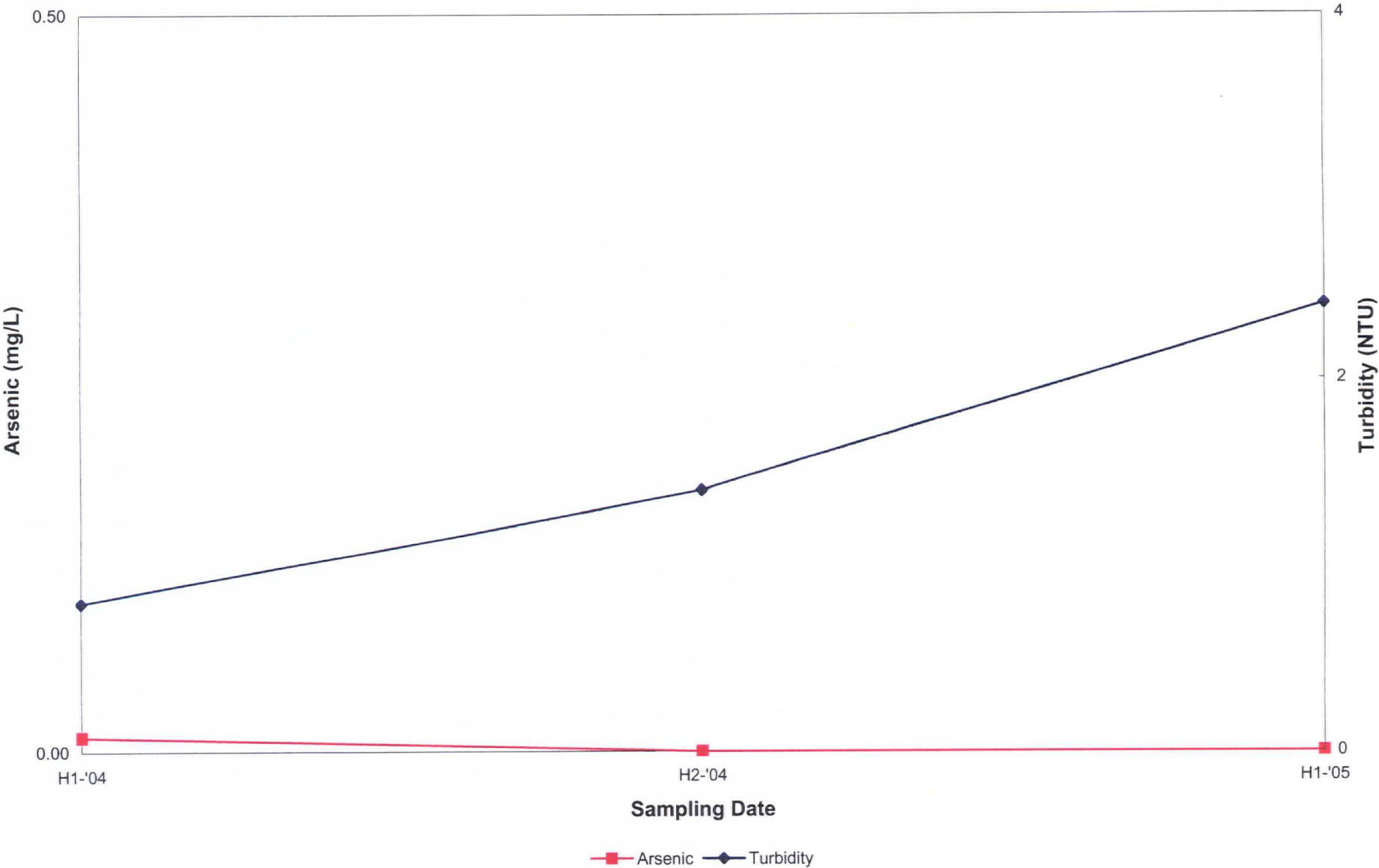
### Monitoring Well LR11-3



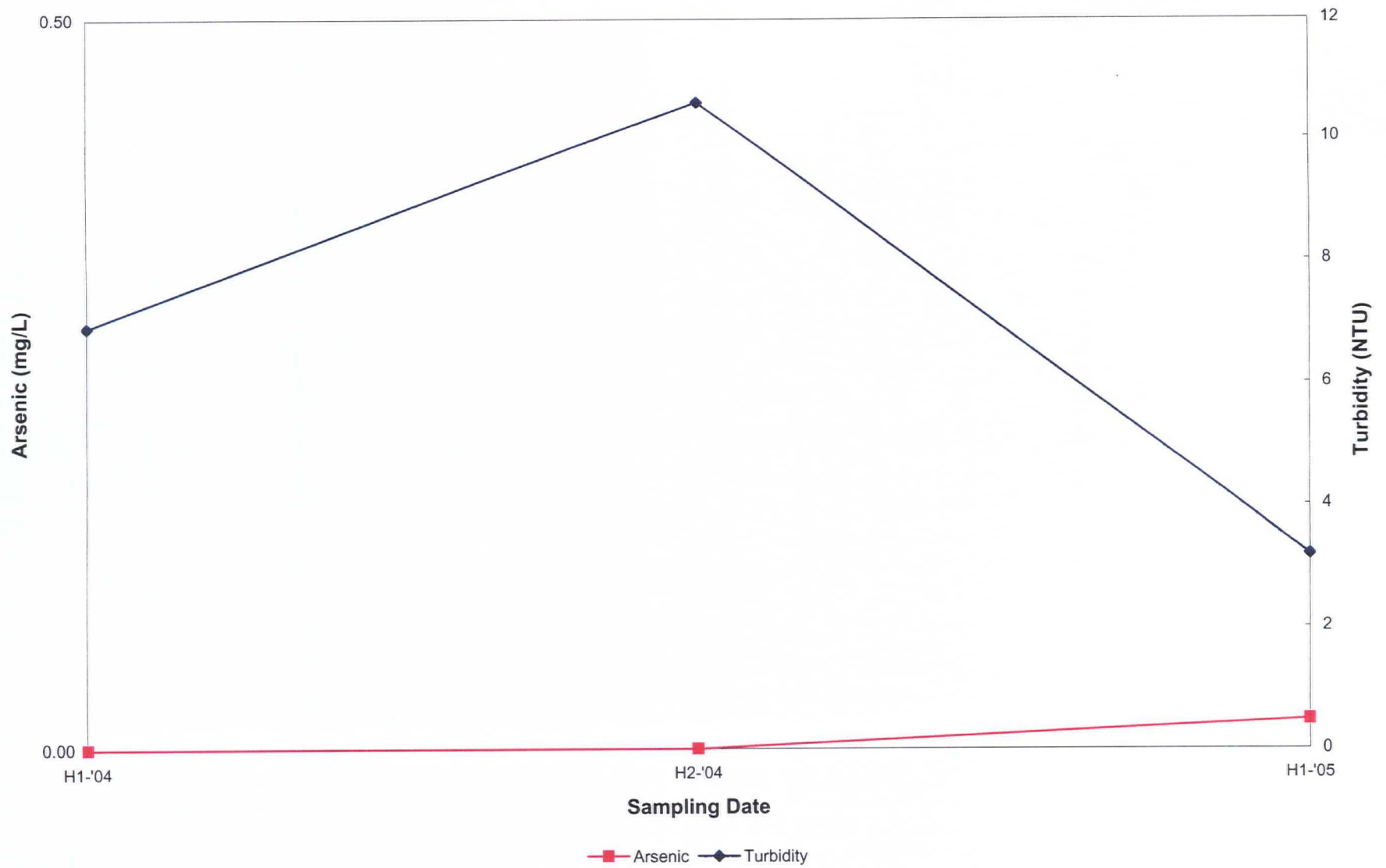
# Monitoring Well LR11-4



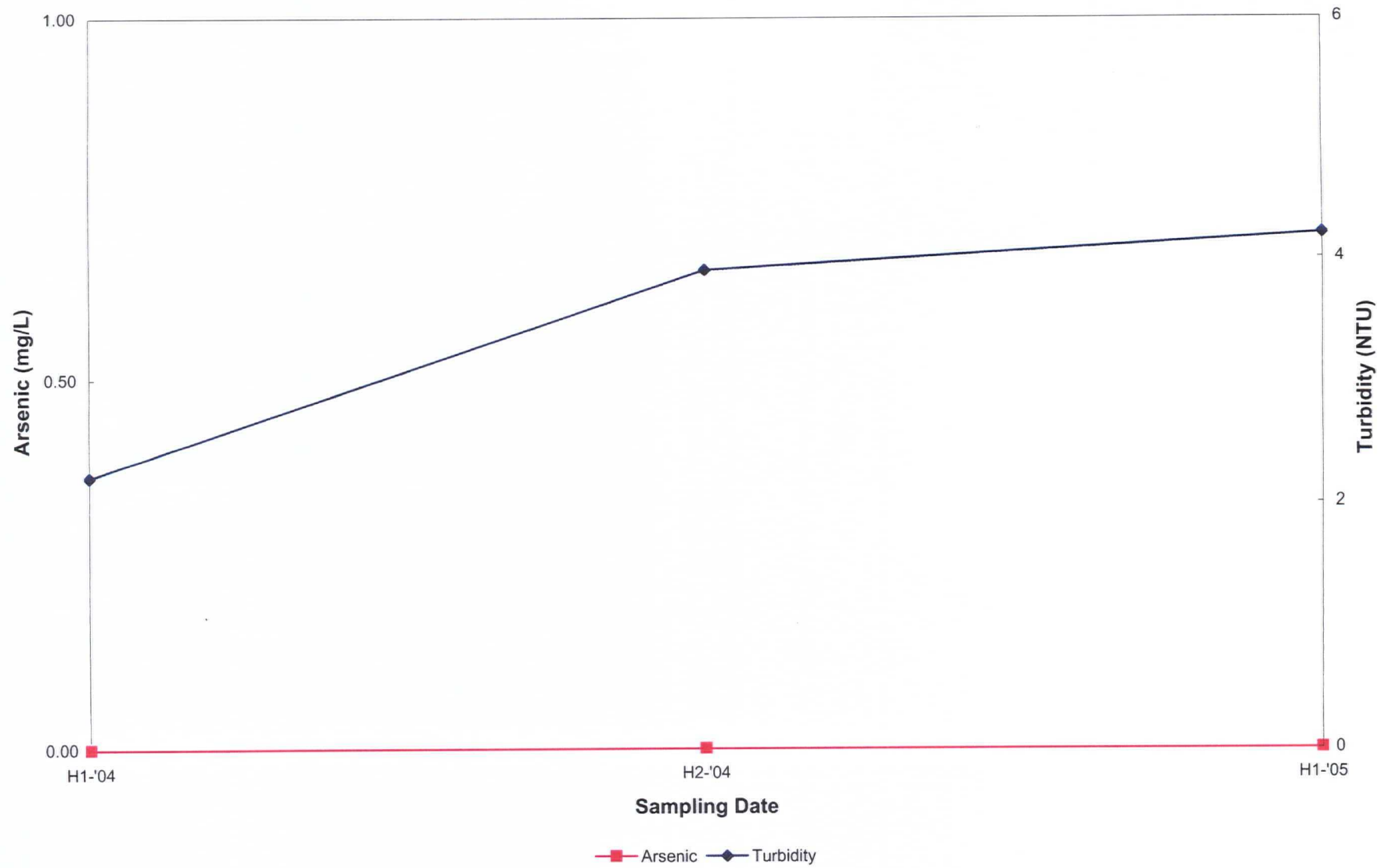
Monitoring Well LR11-5



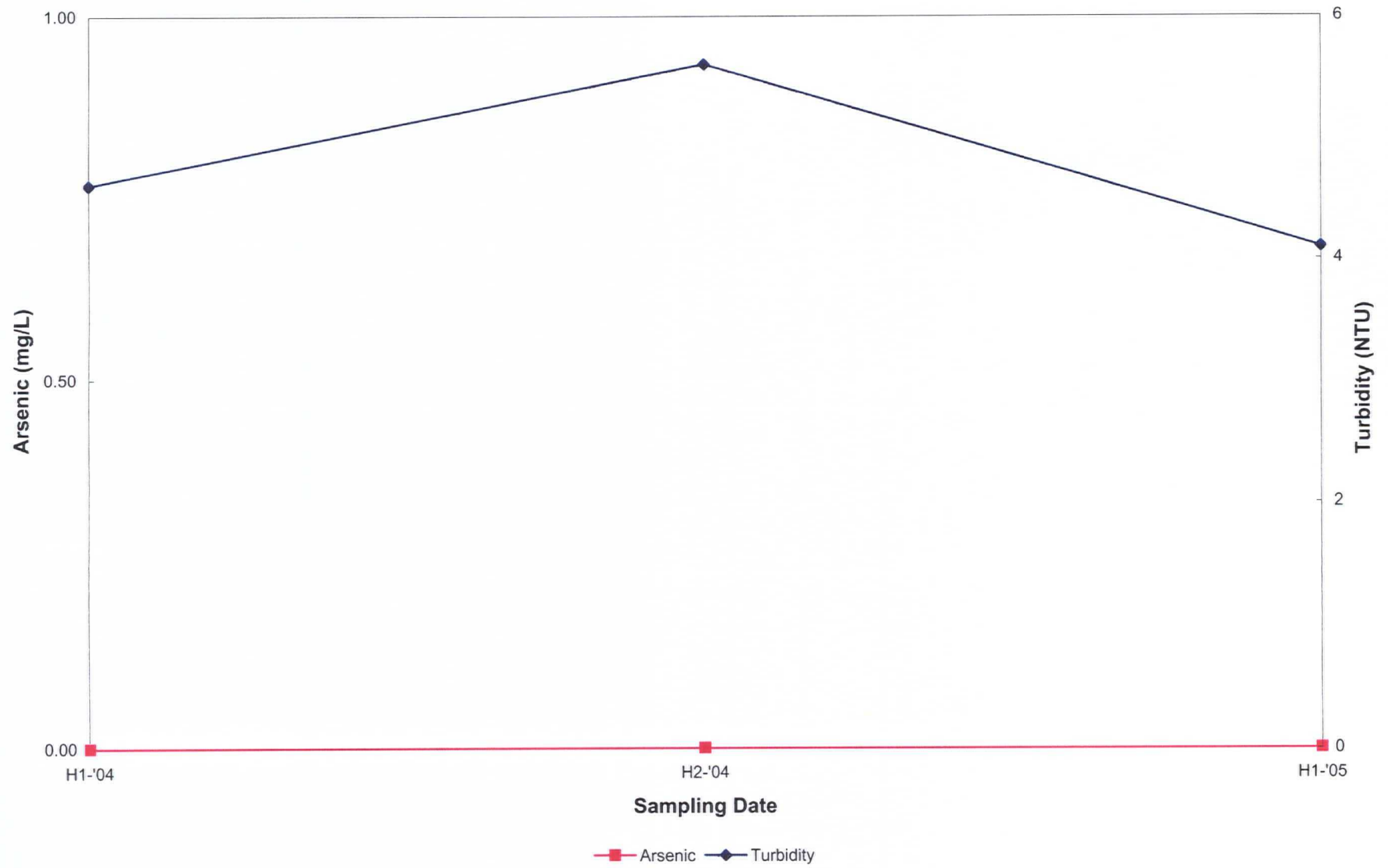
# Monitoring Well MW-1



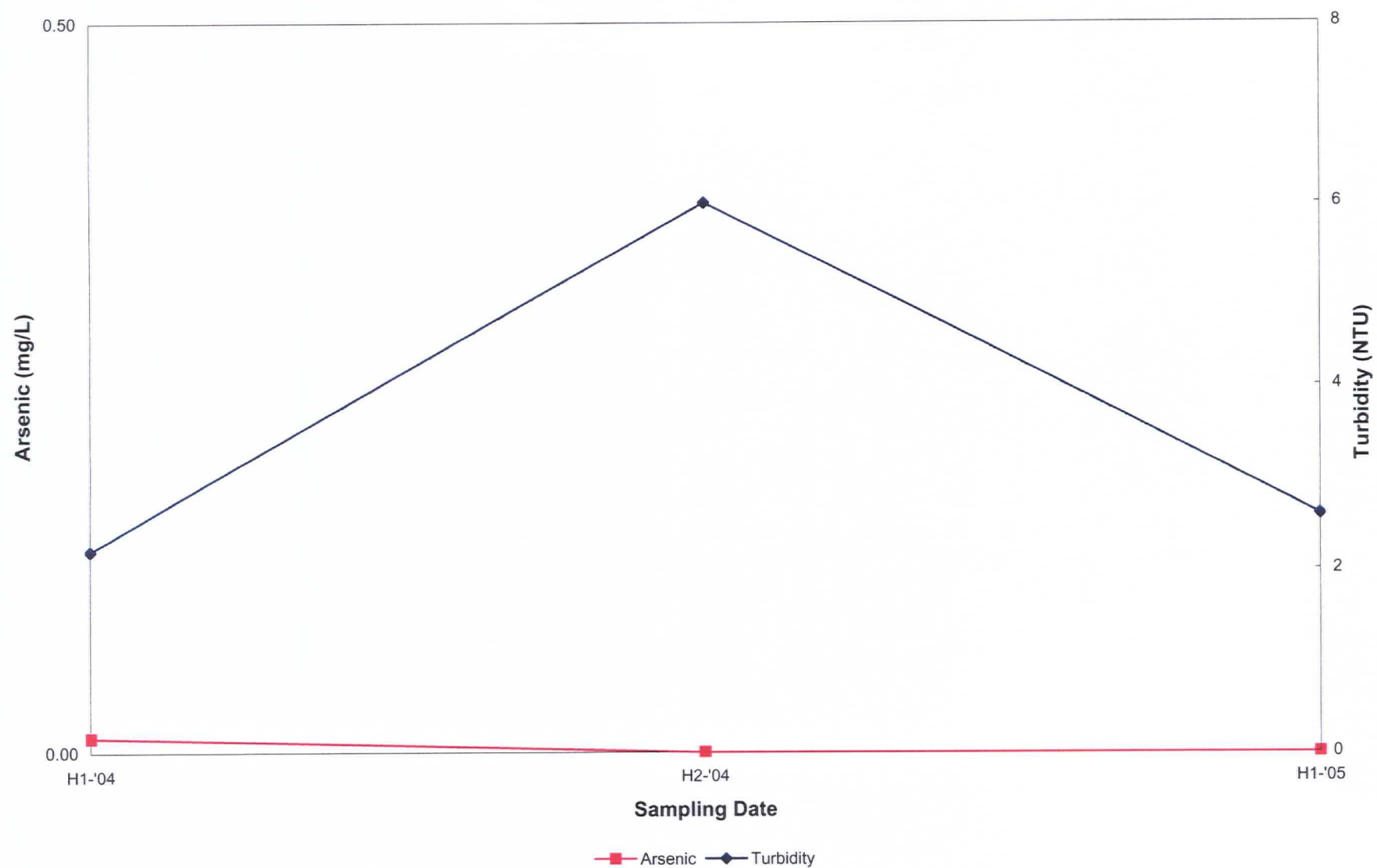
# Monitoring Well MW-3



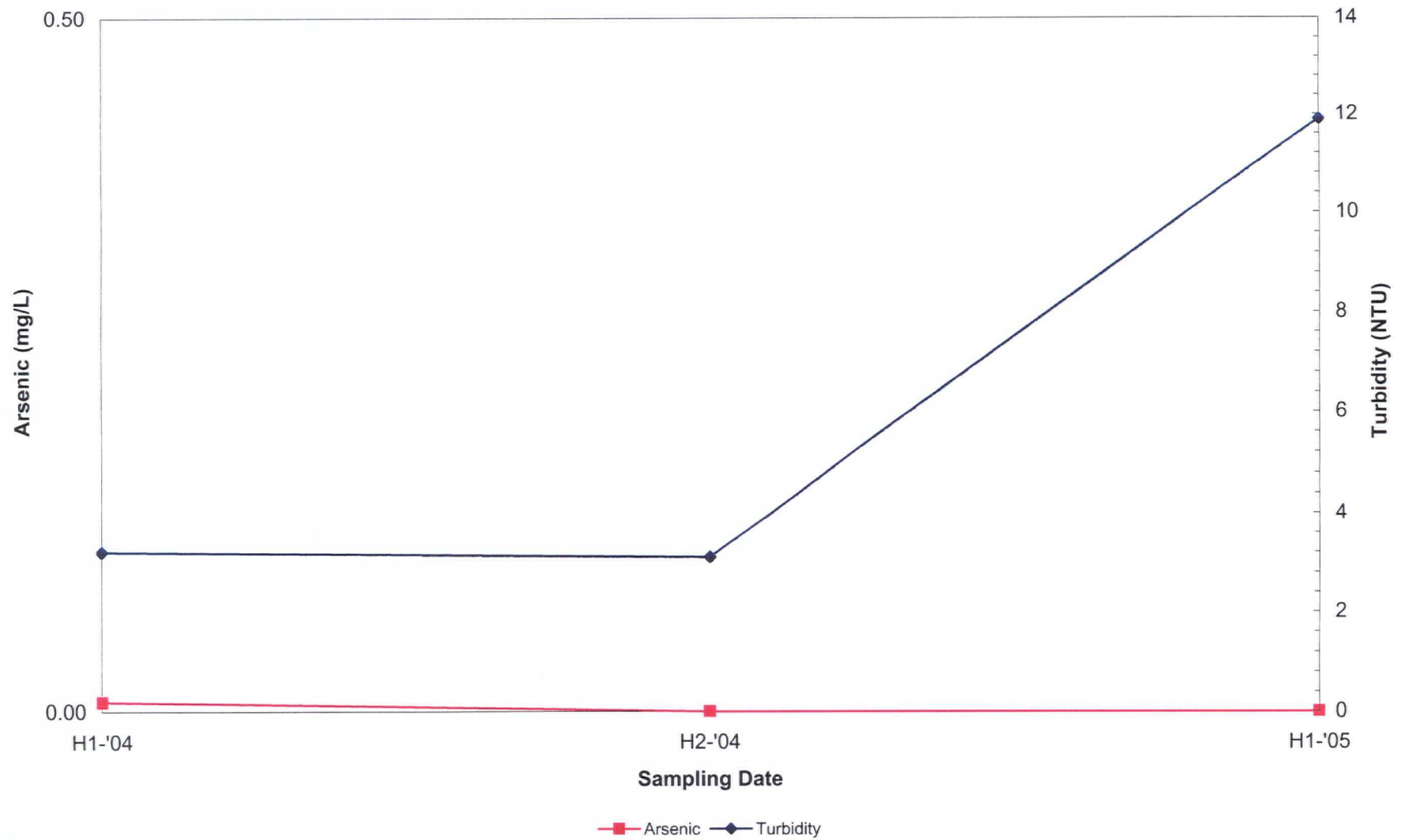
# Monitoring Well MW-5



# Monitoring Well MW-6

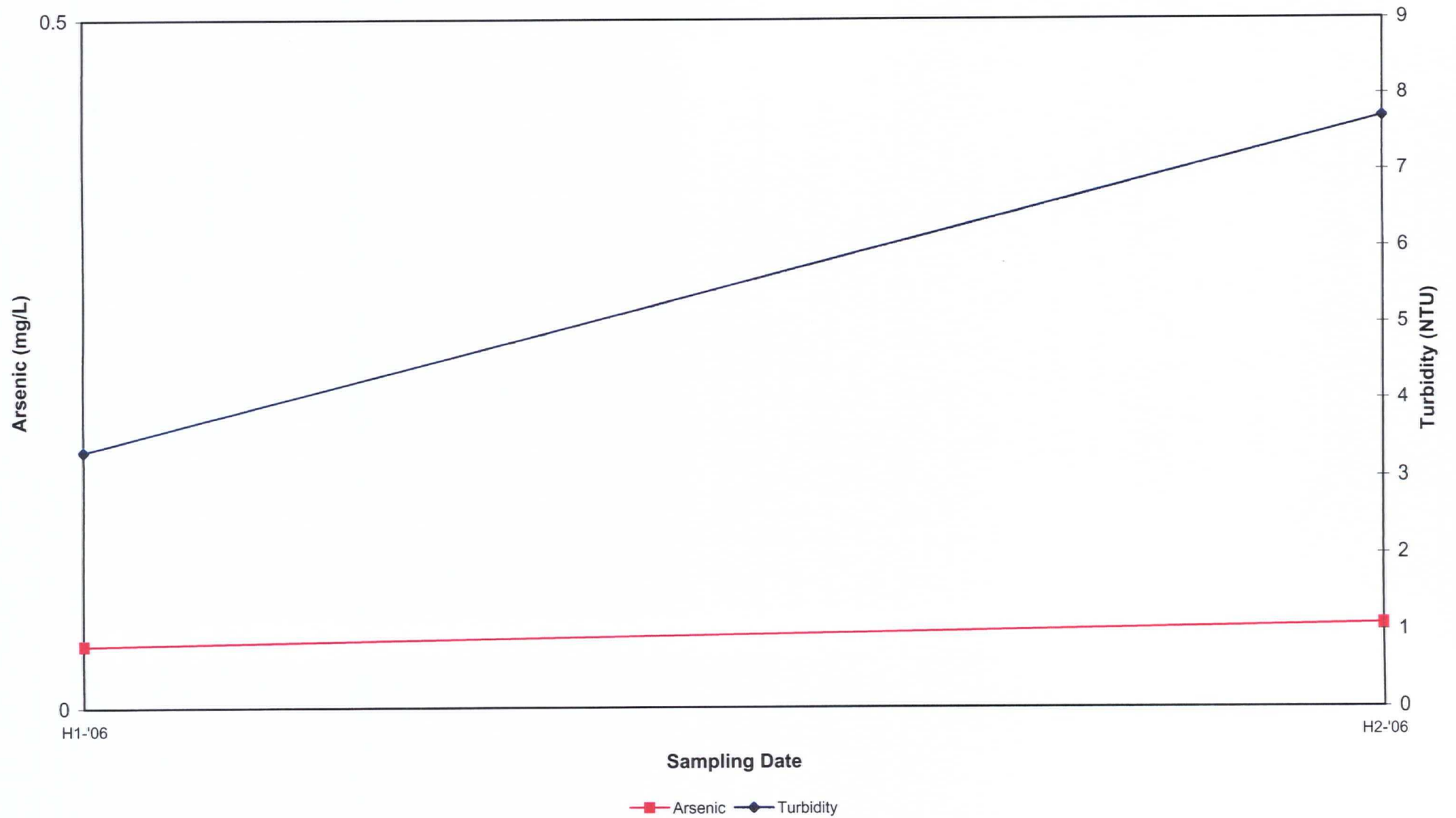


# Monitoring Well SMR-1

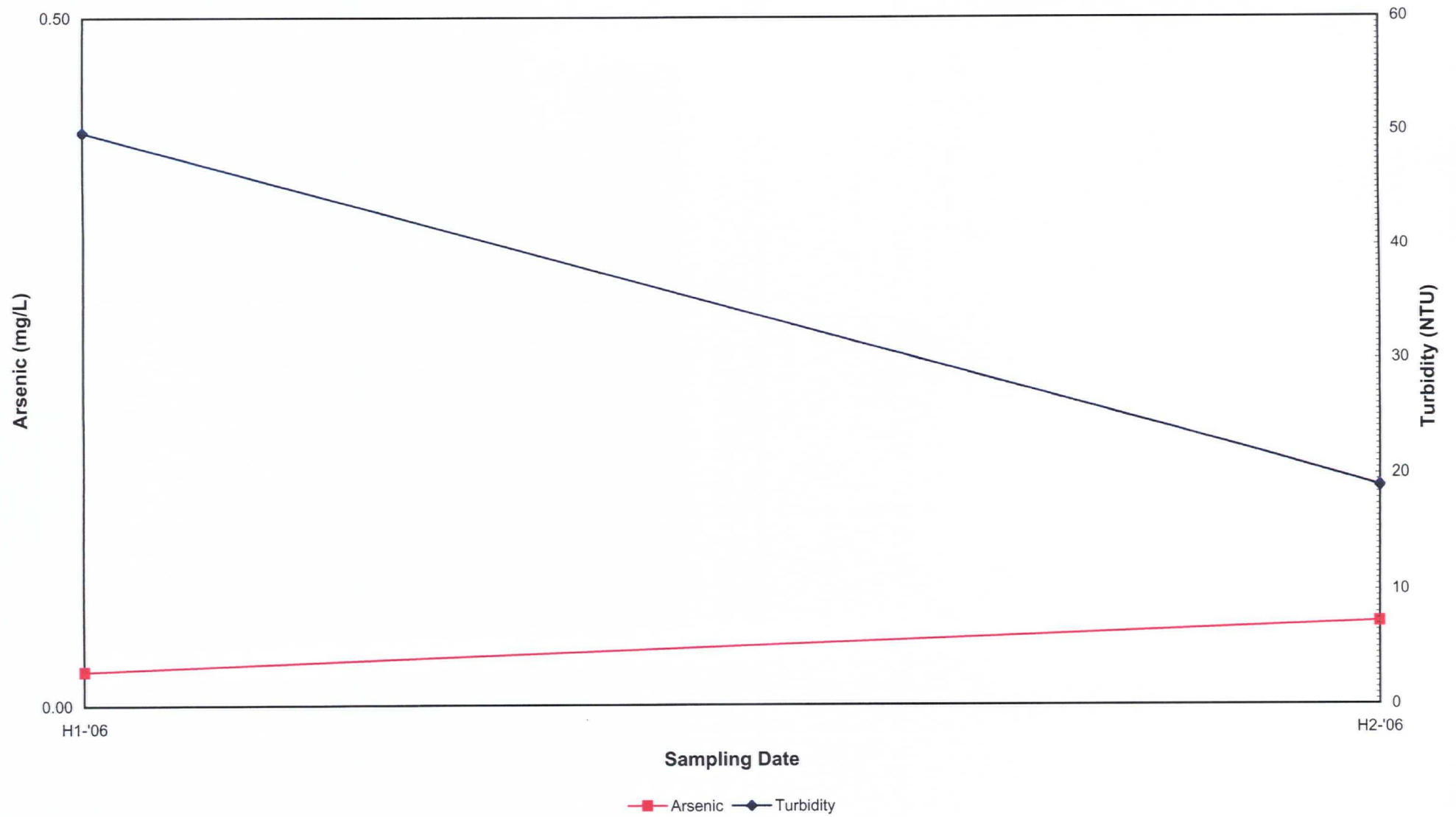




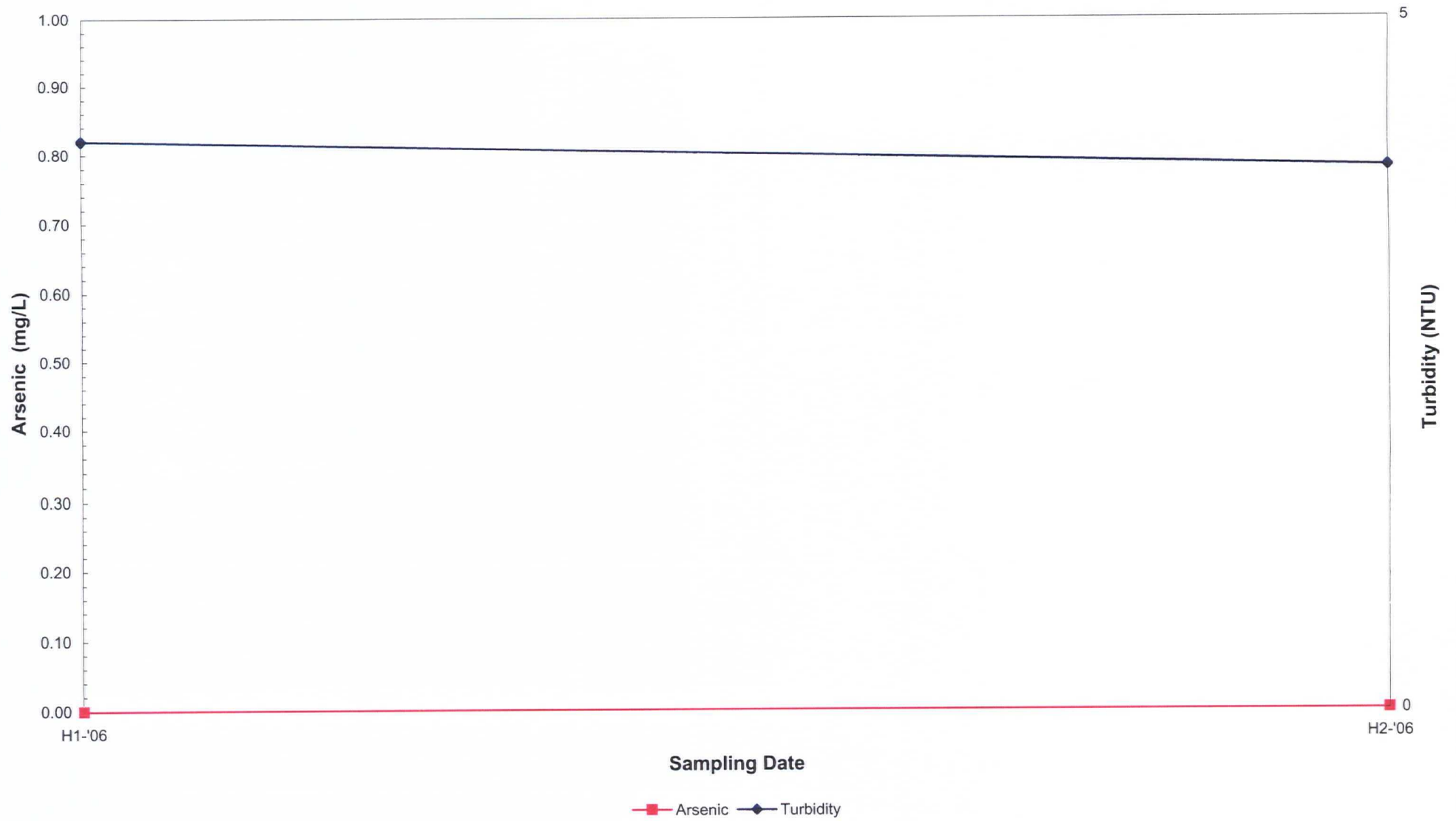
# Monitoring Well GW-1



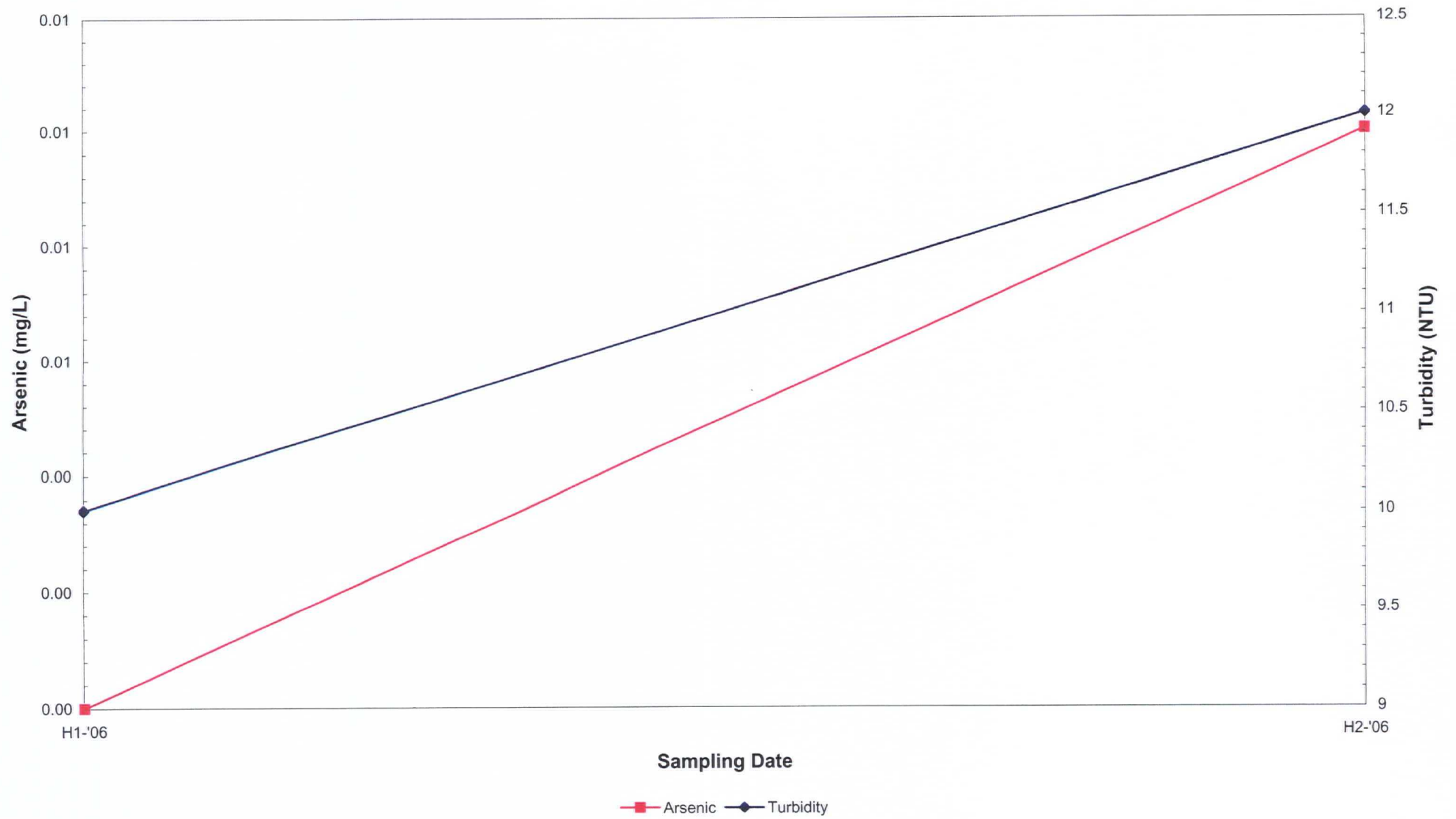
# Monitoring Well GW-2



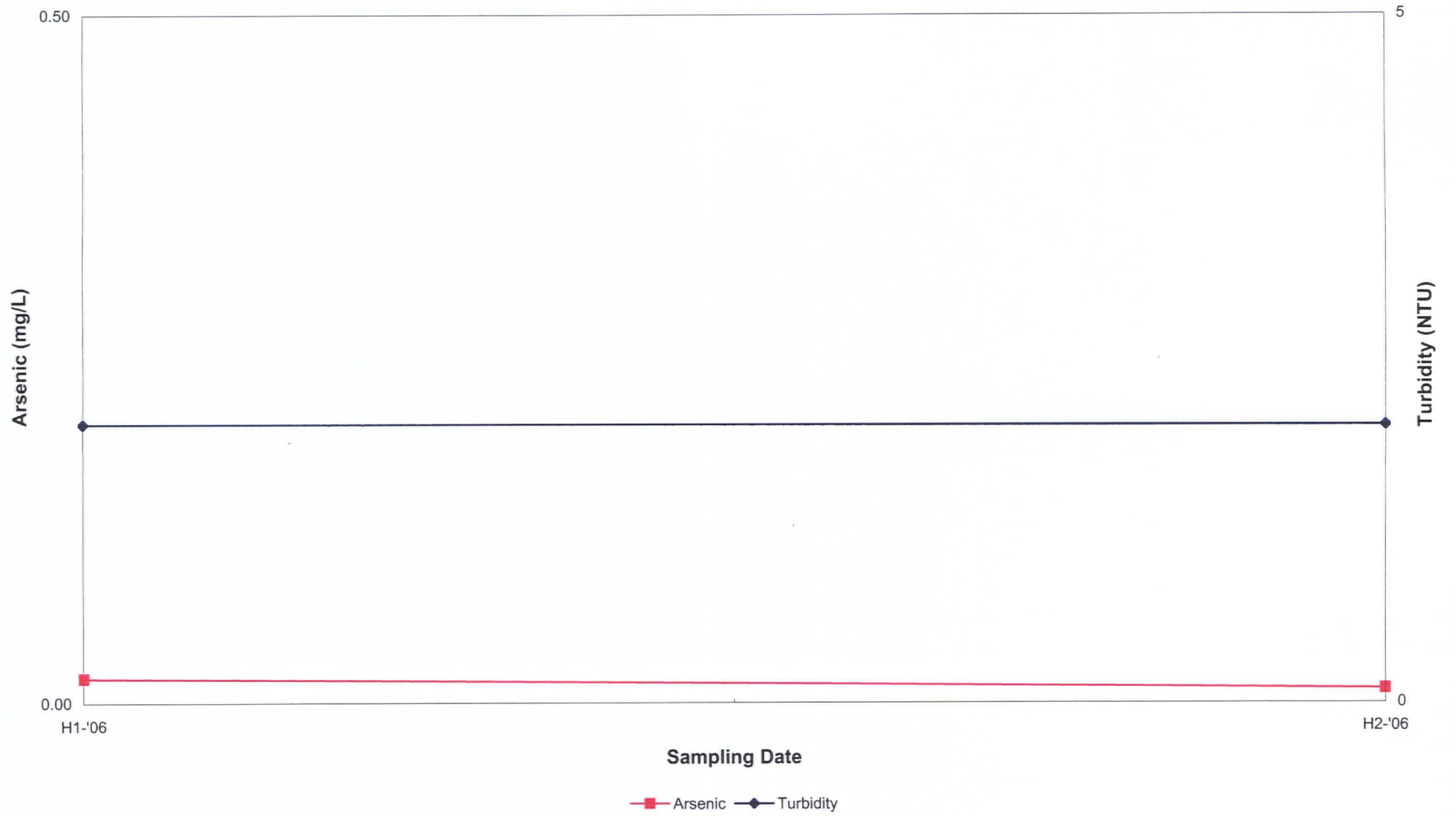
# Monitoring Well GW-3



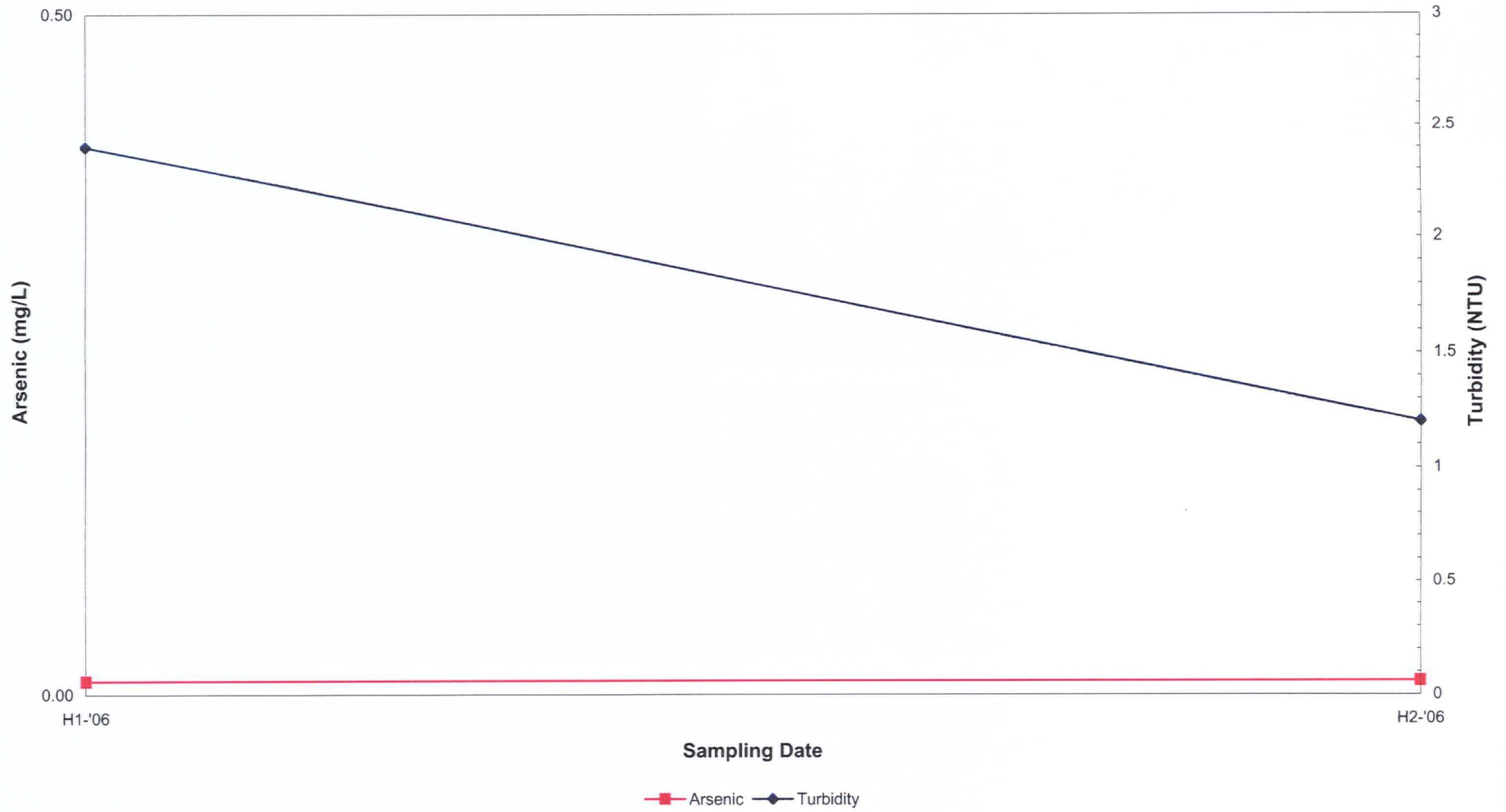
# Monitoring Well GW-4



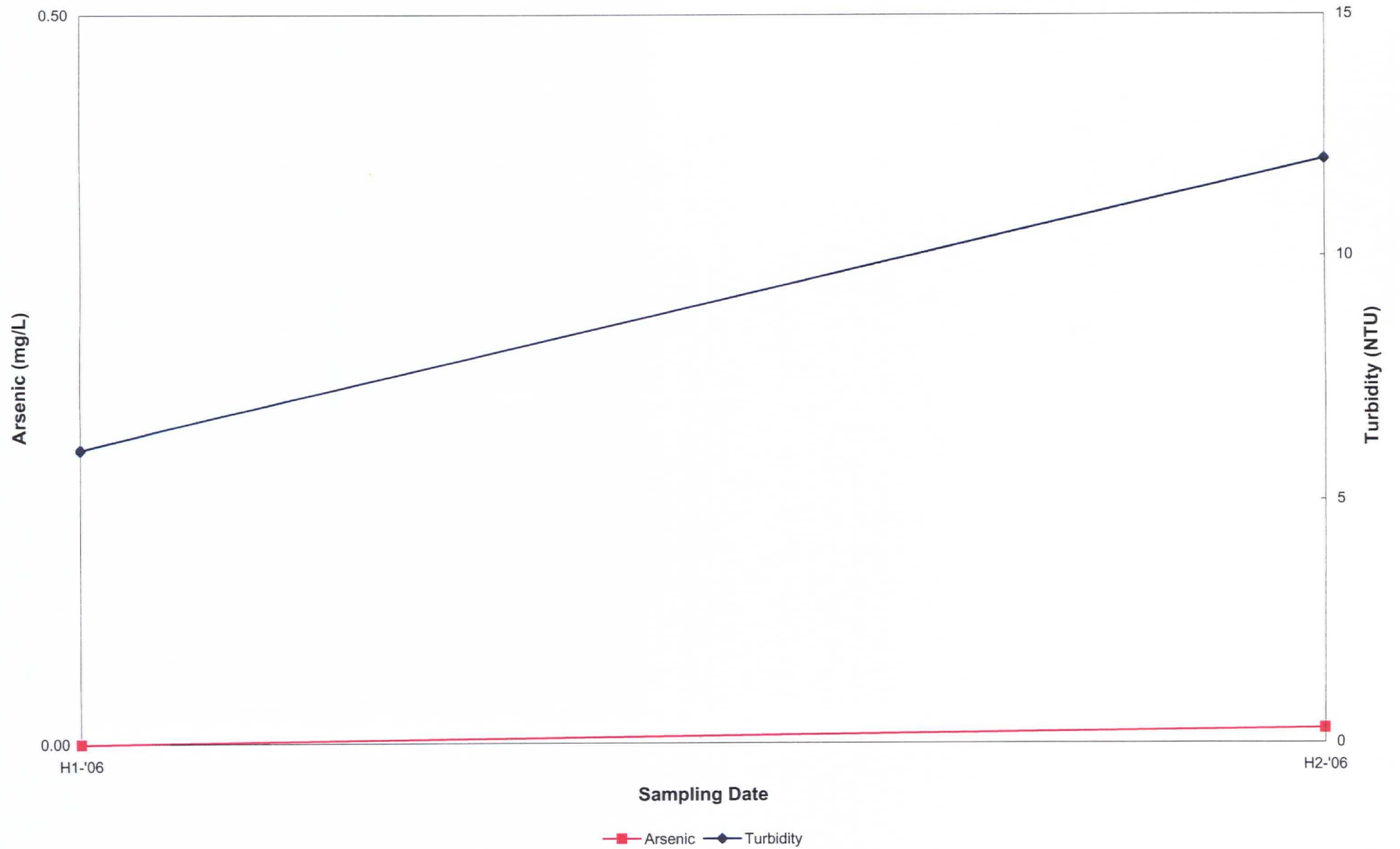
# Monitoring Well GW-5



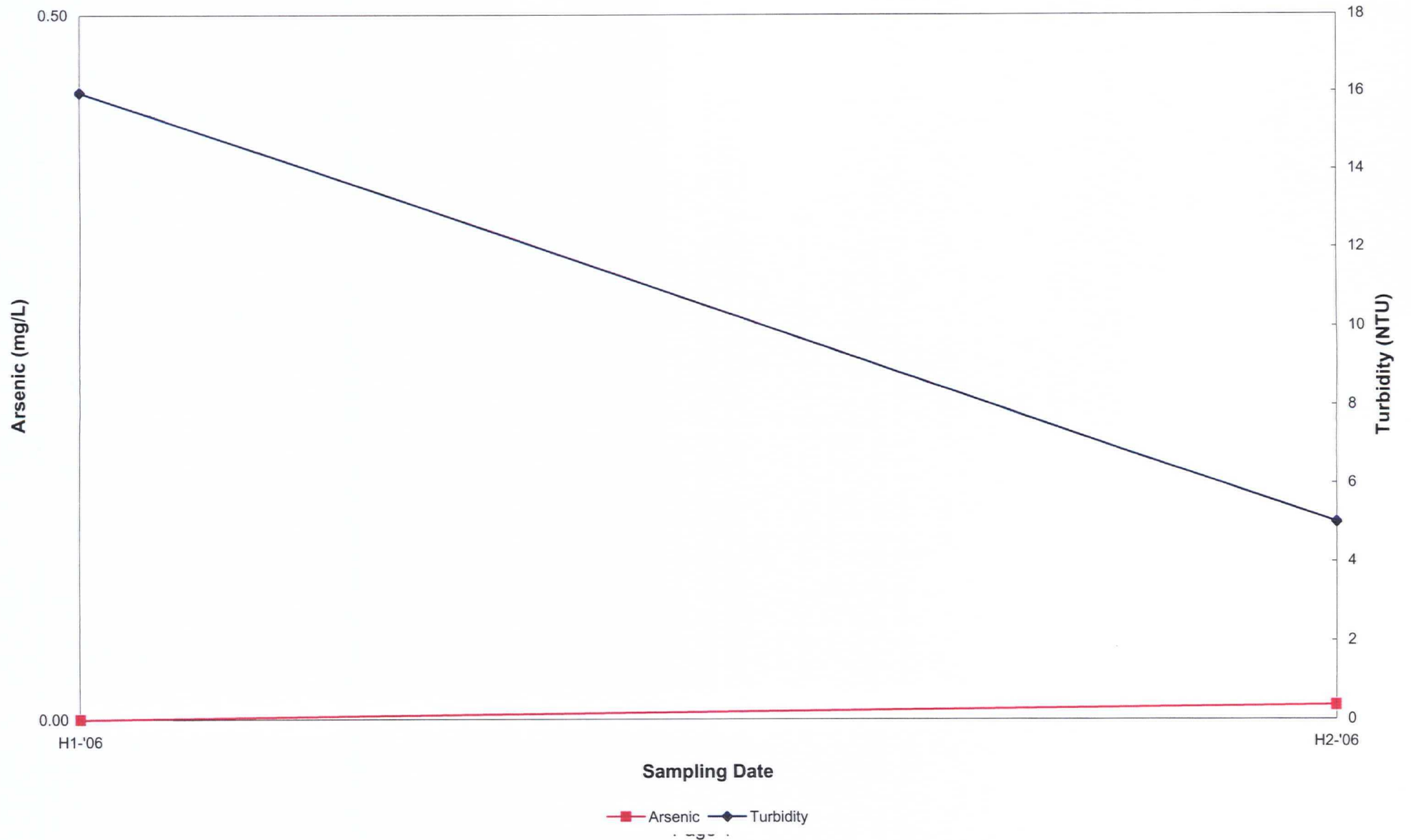
# Monitoring Well GW-6



# Monitoring Well GW-7

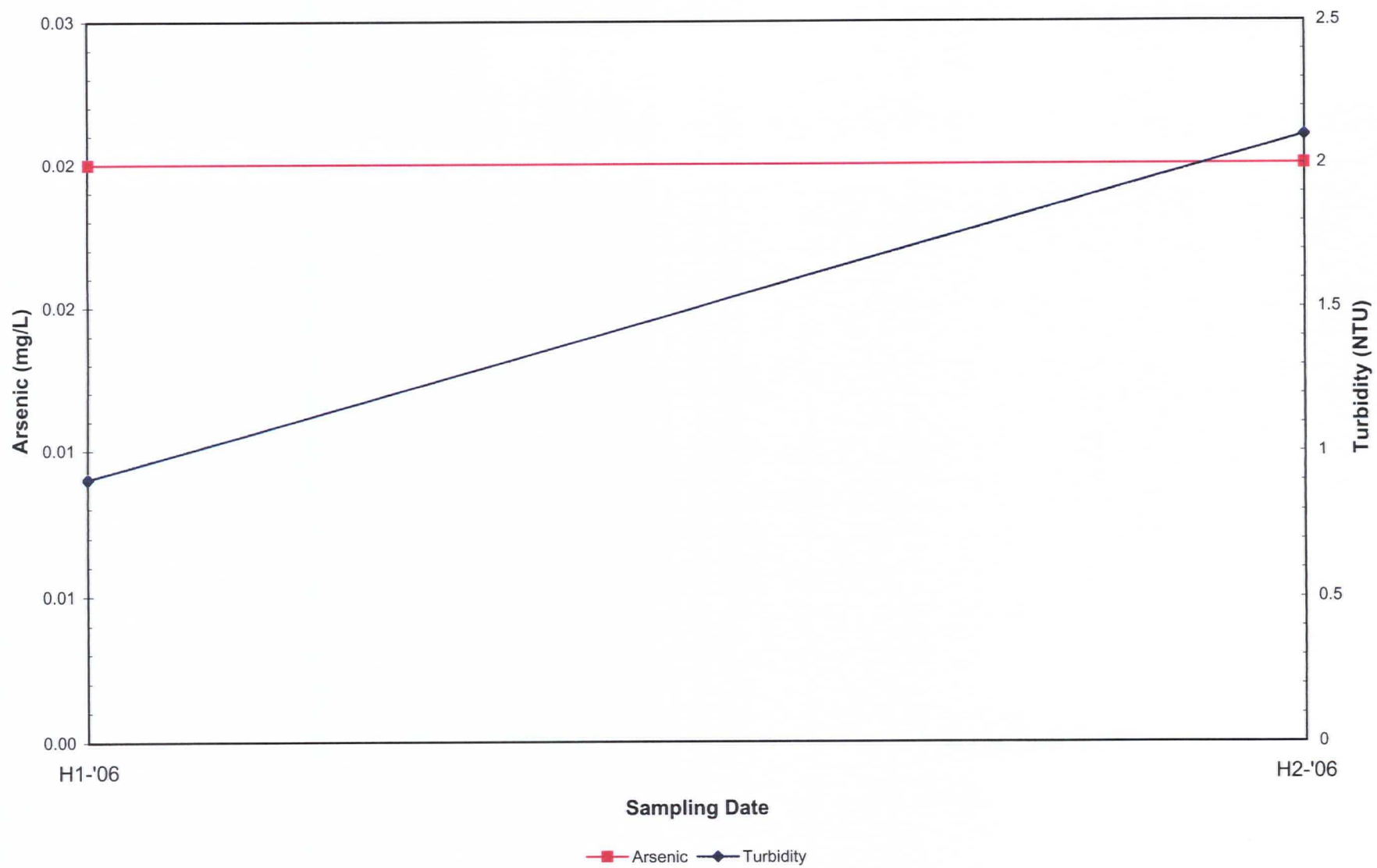


# Monitoring Well GW-8

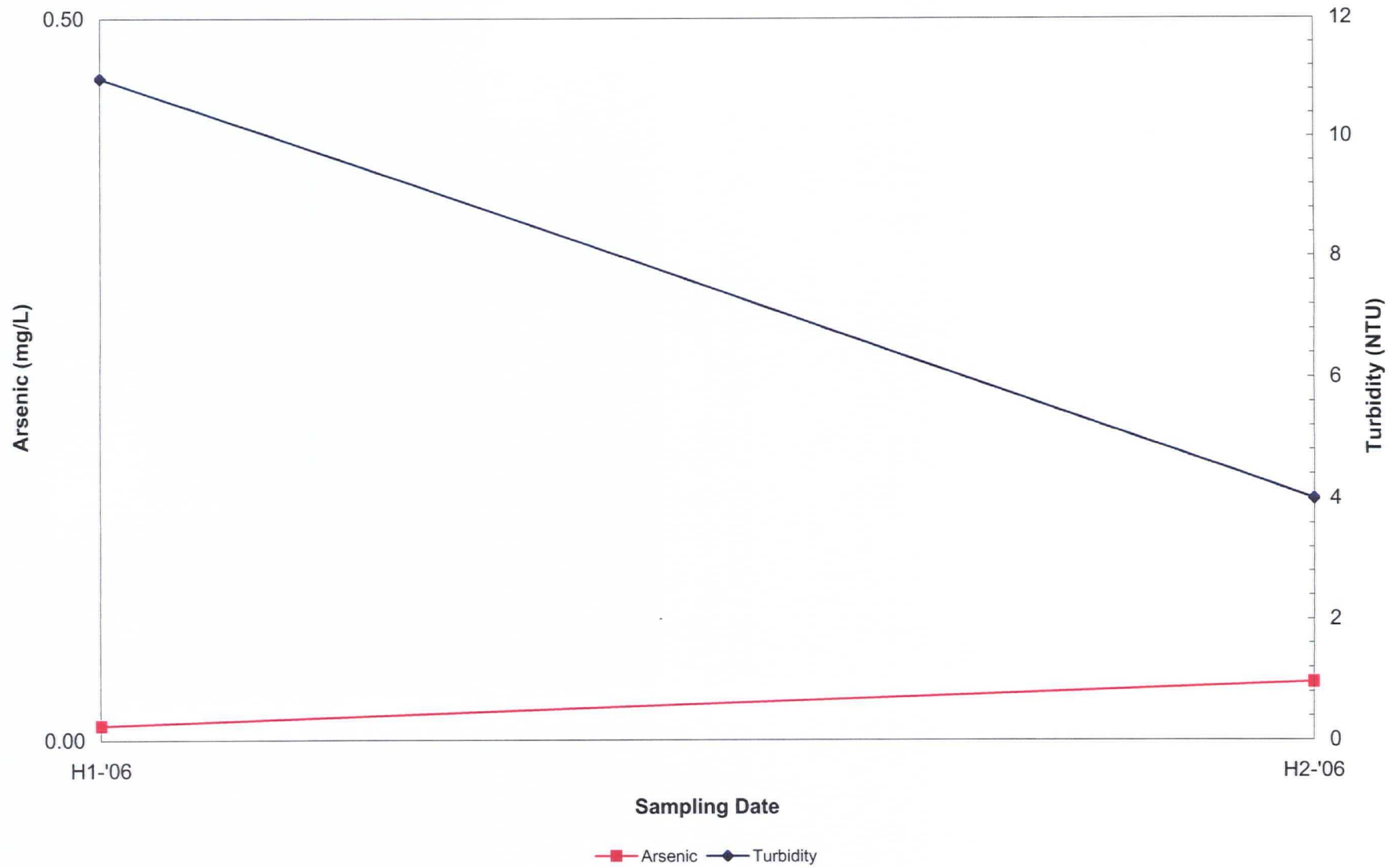




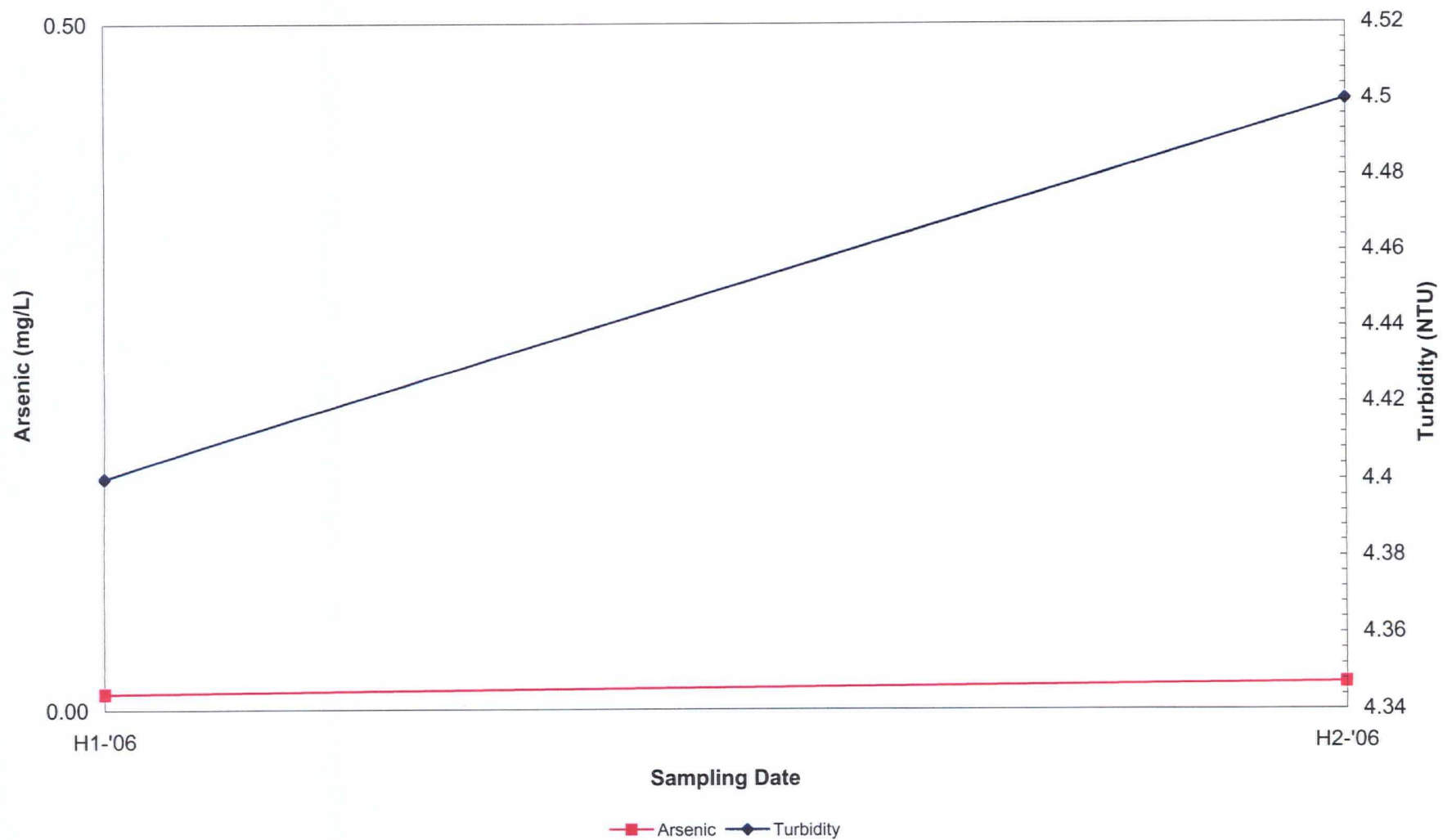
### Monitoring Well GW-9



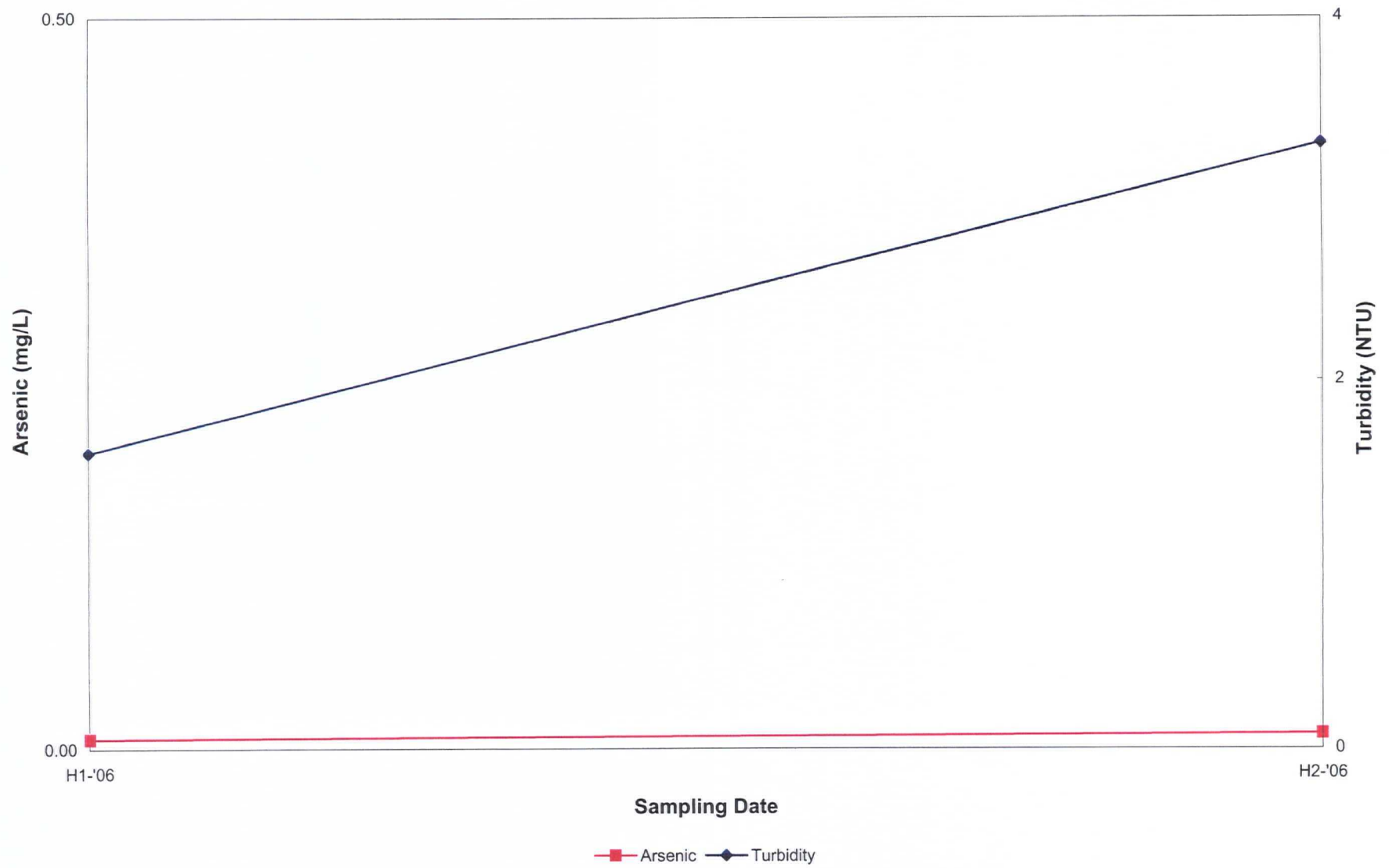
# Monitoring Well GW-10



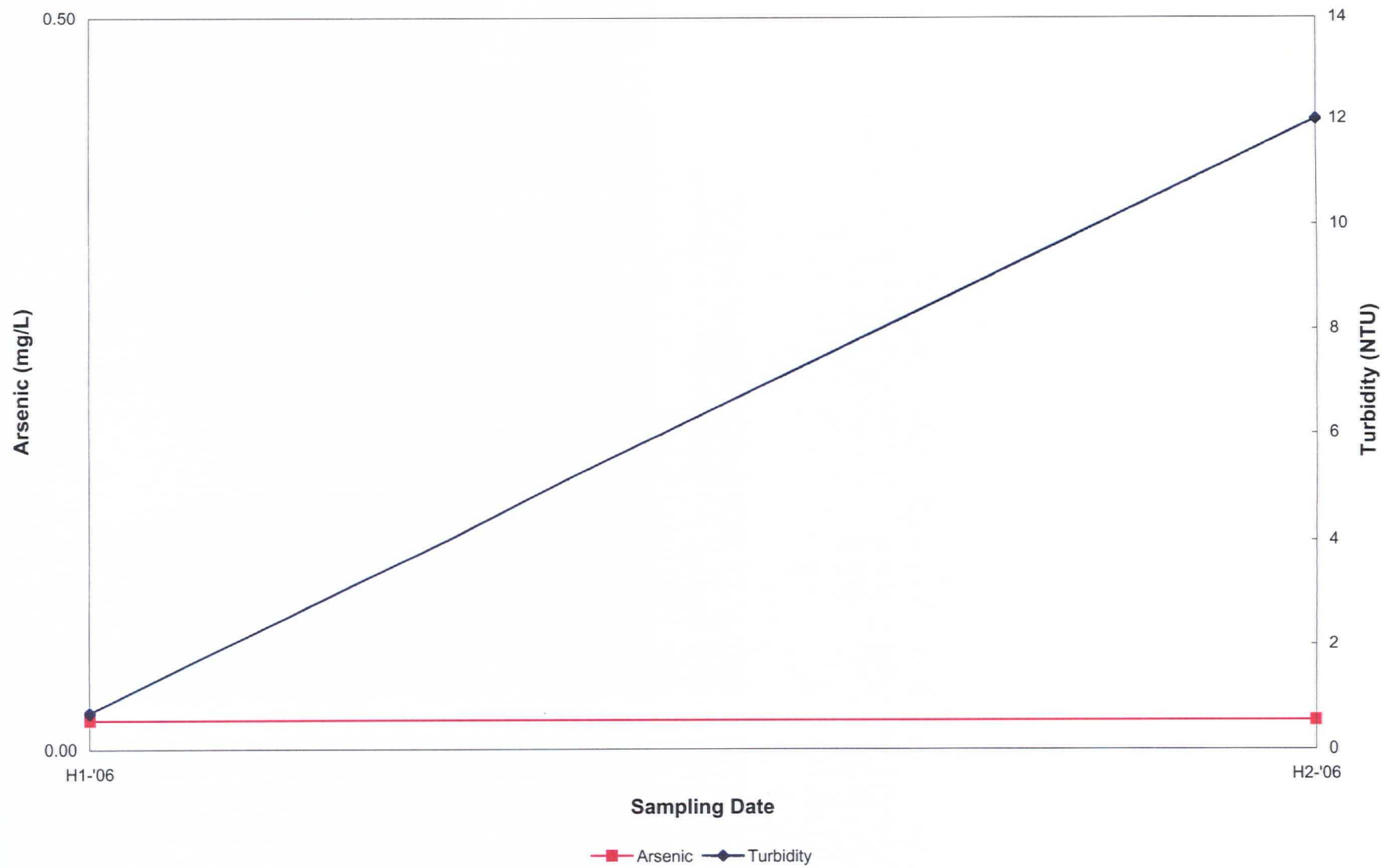
# Monitoring Well GW-12



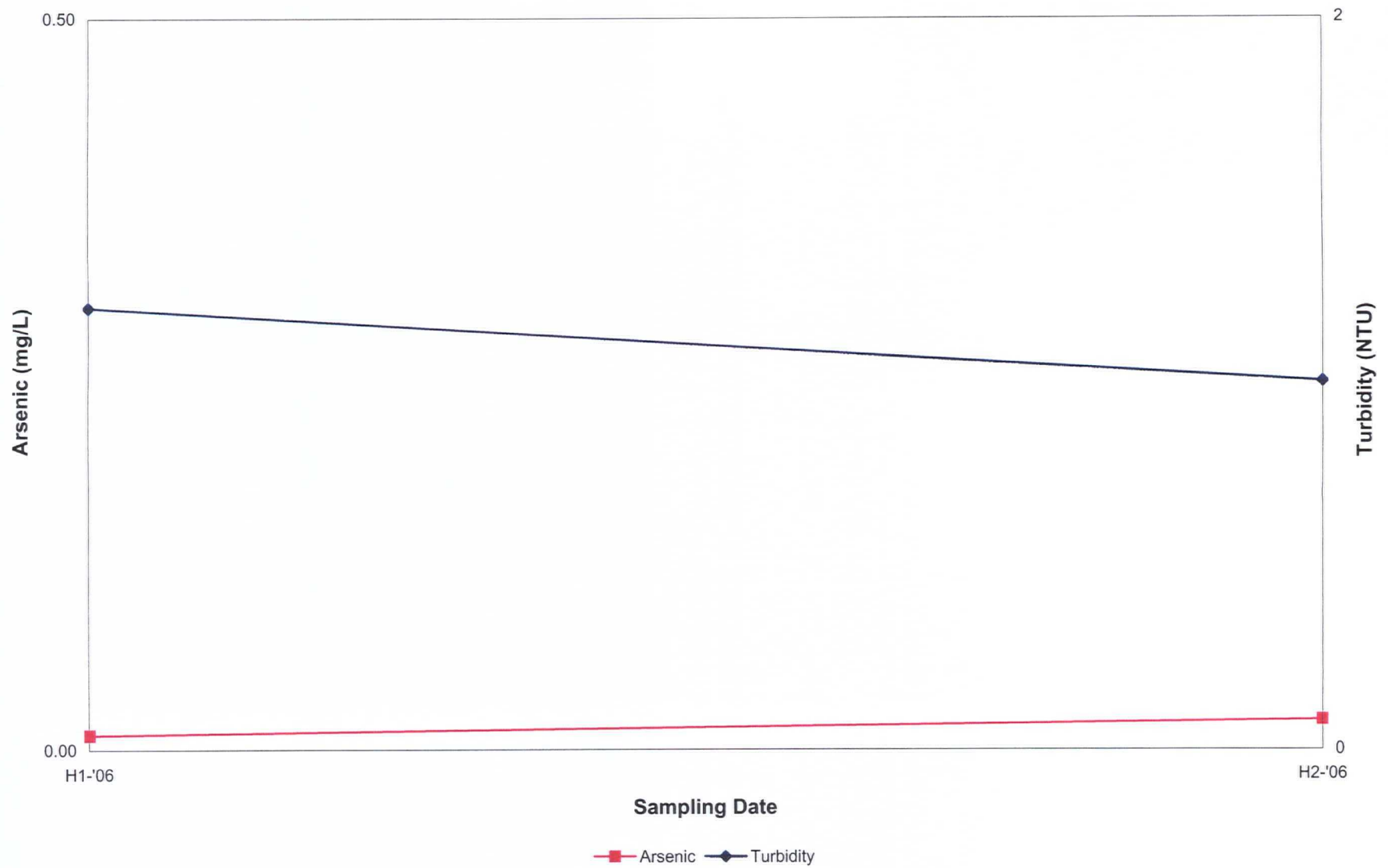
# Monitoring Well GW-13



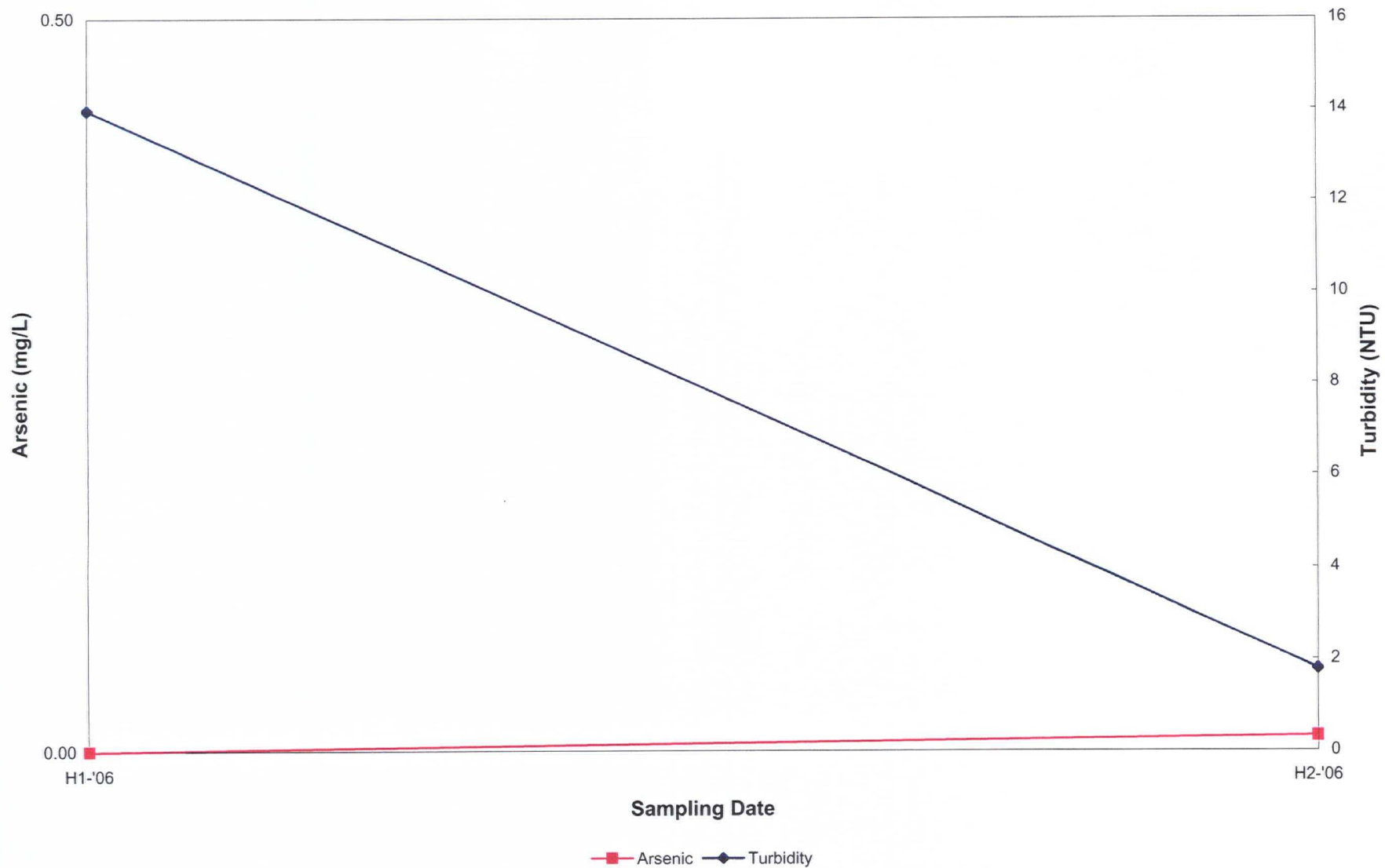
# Monitoring Well GW-14



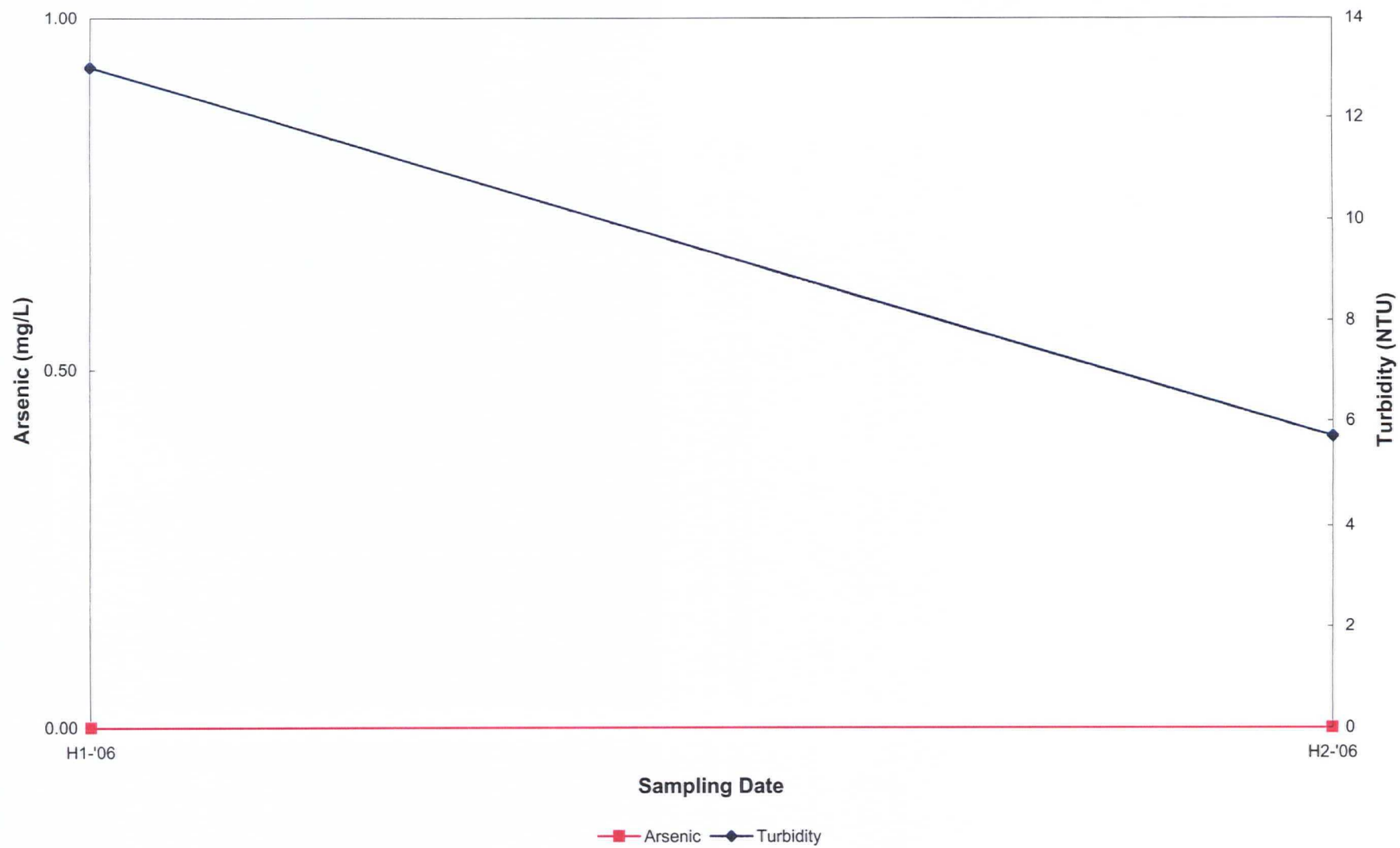
# Monitoring Well GW-15



# Monitoring Well GW-16

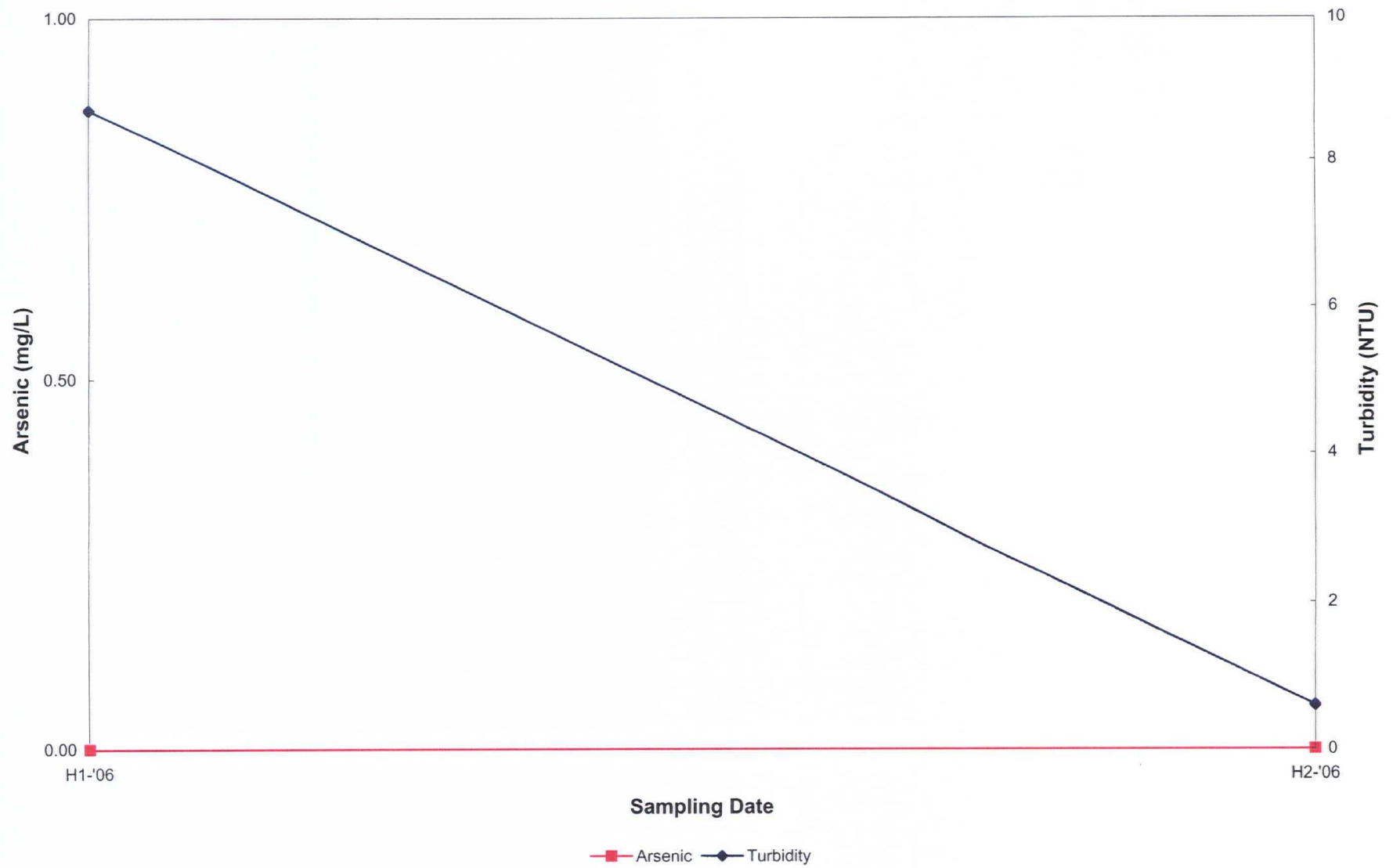


# Monitoring Well GW-17



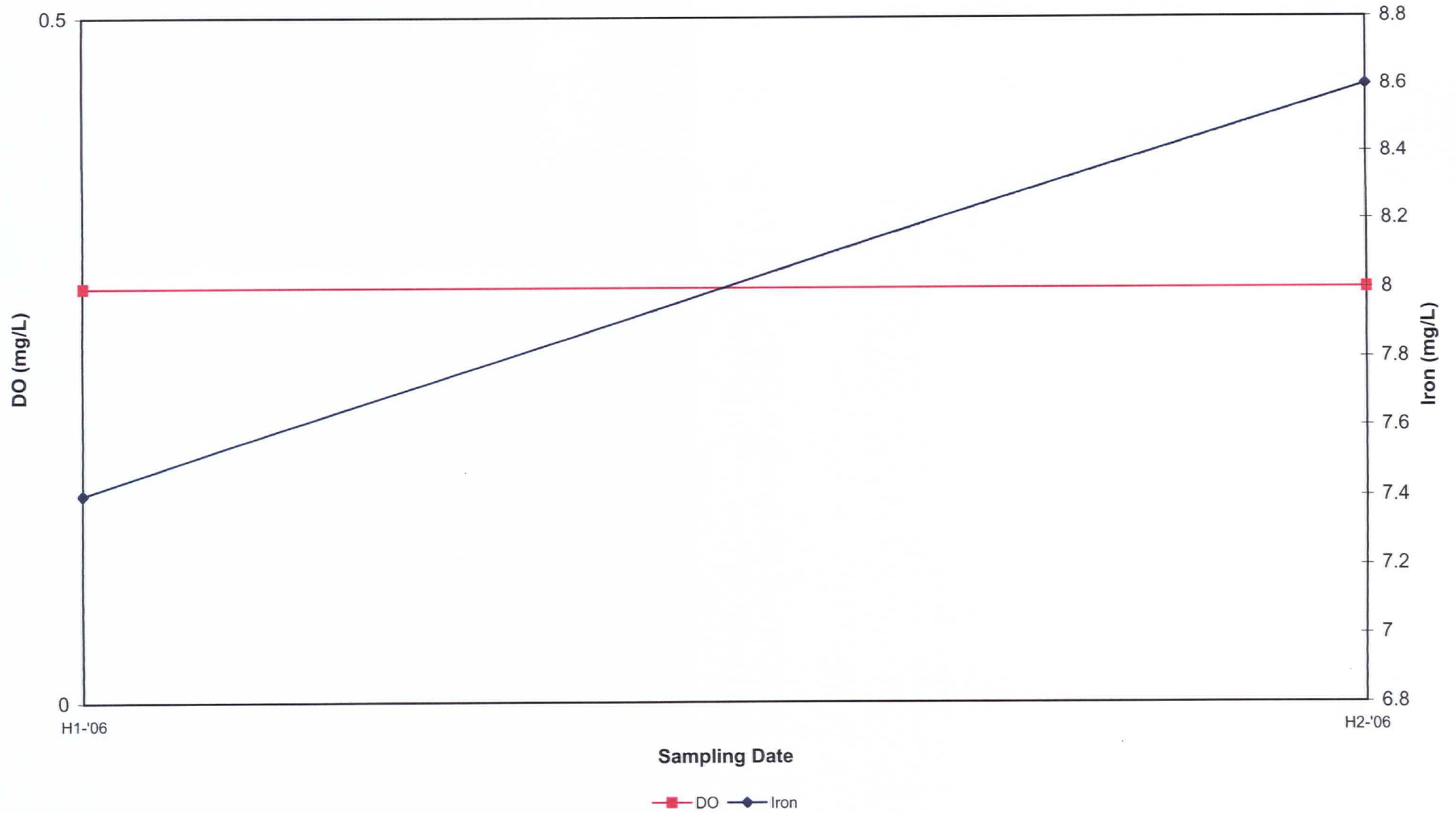


# Monitoring Well BGW-1

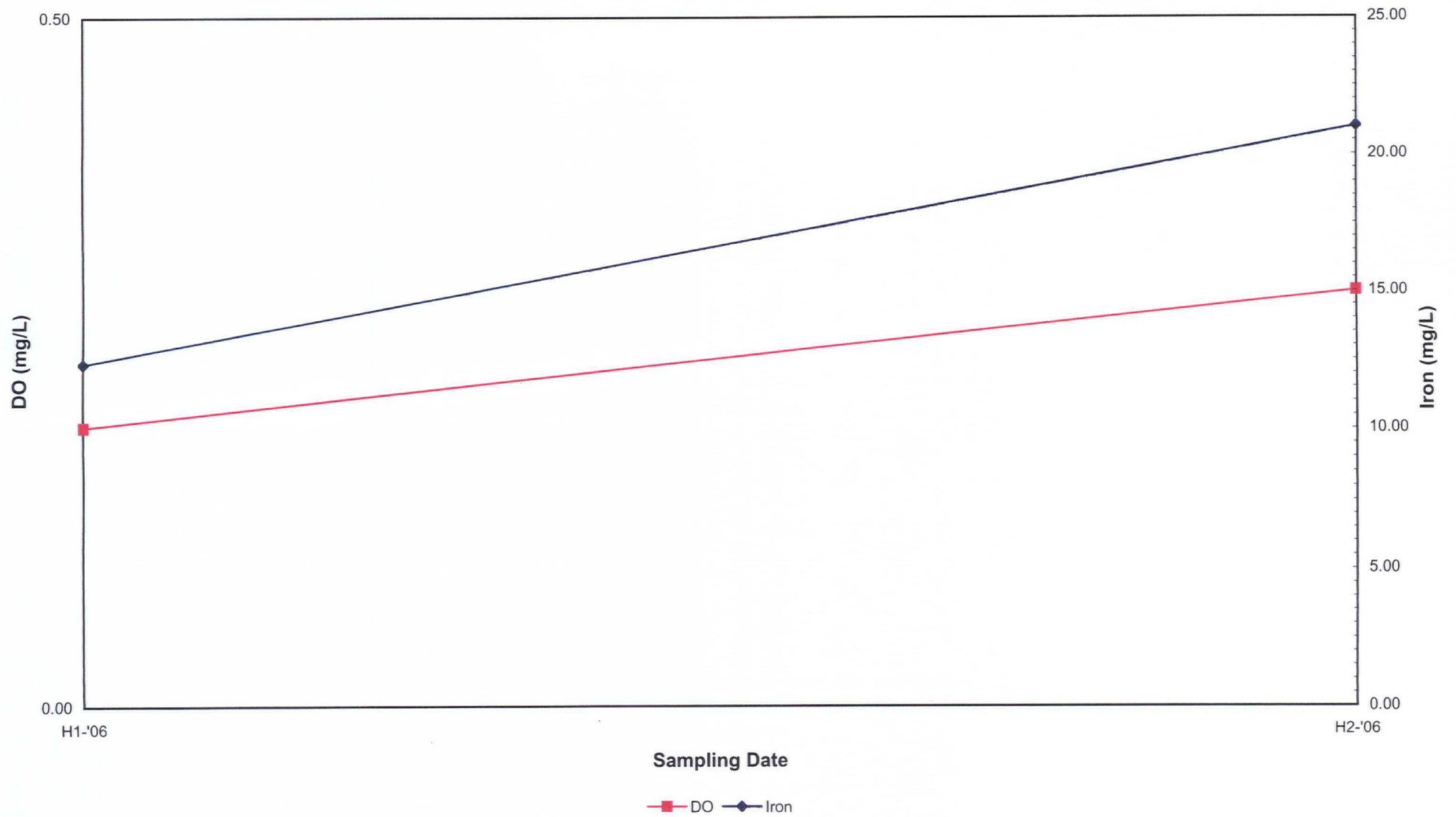


## **B-5 – DO versus Iron**

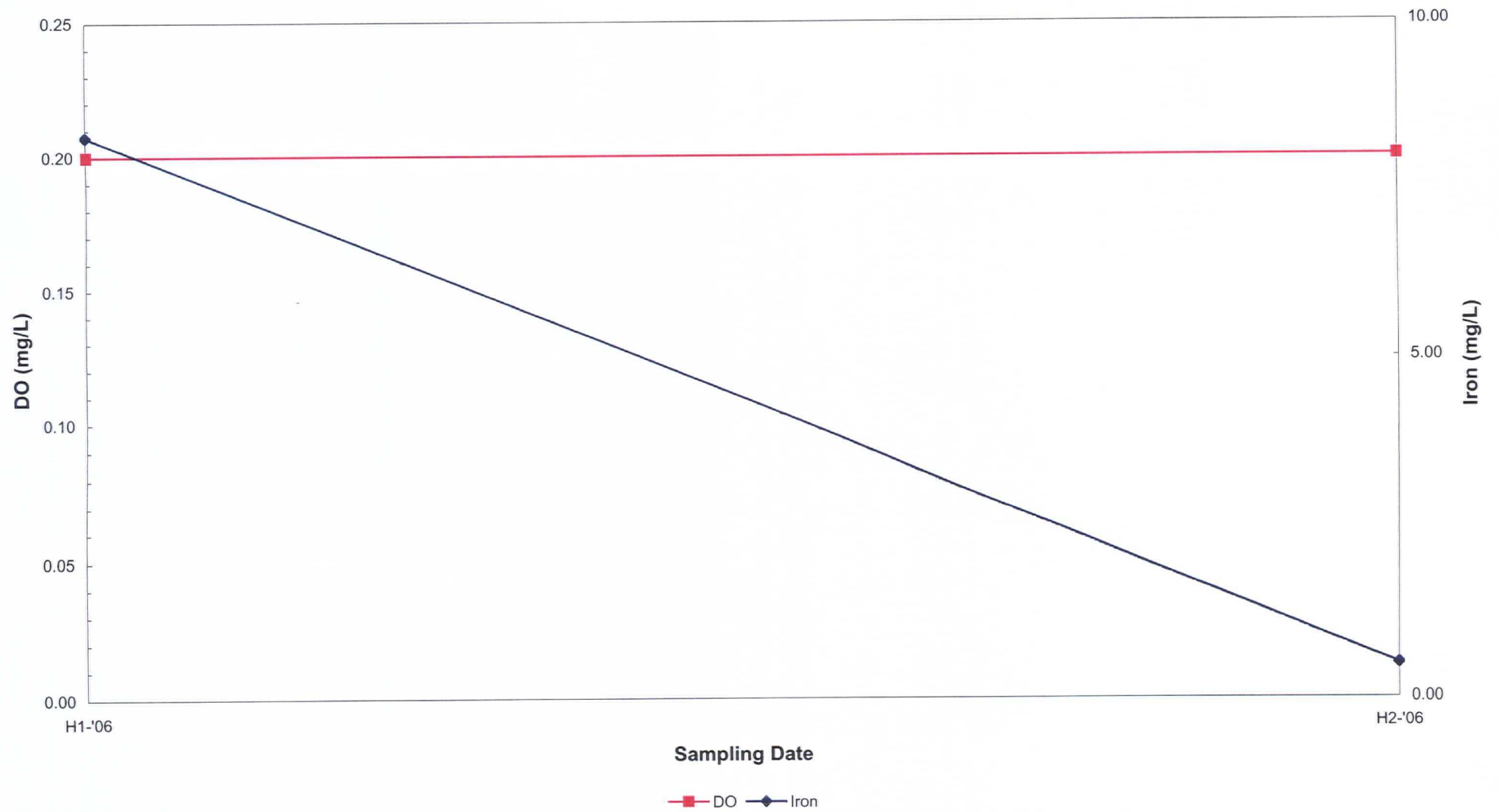
# Monitoring Well GW- 1



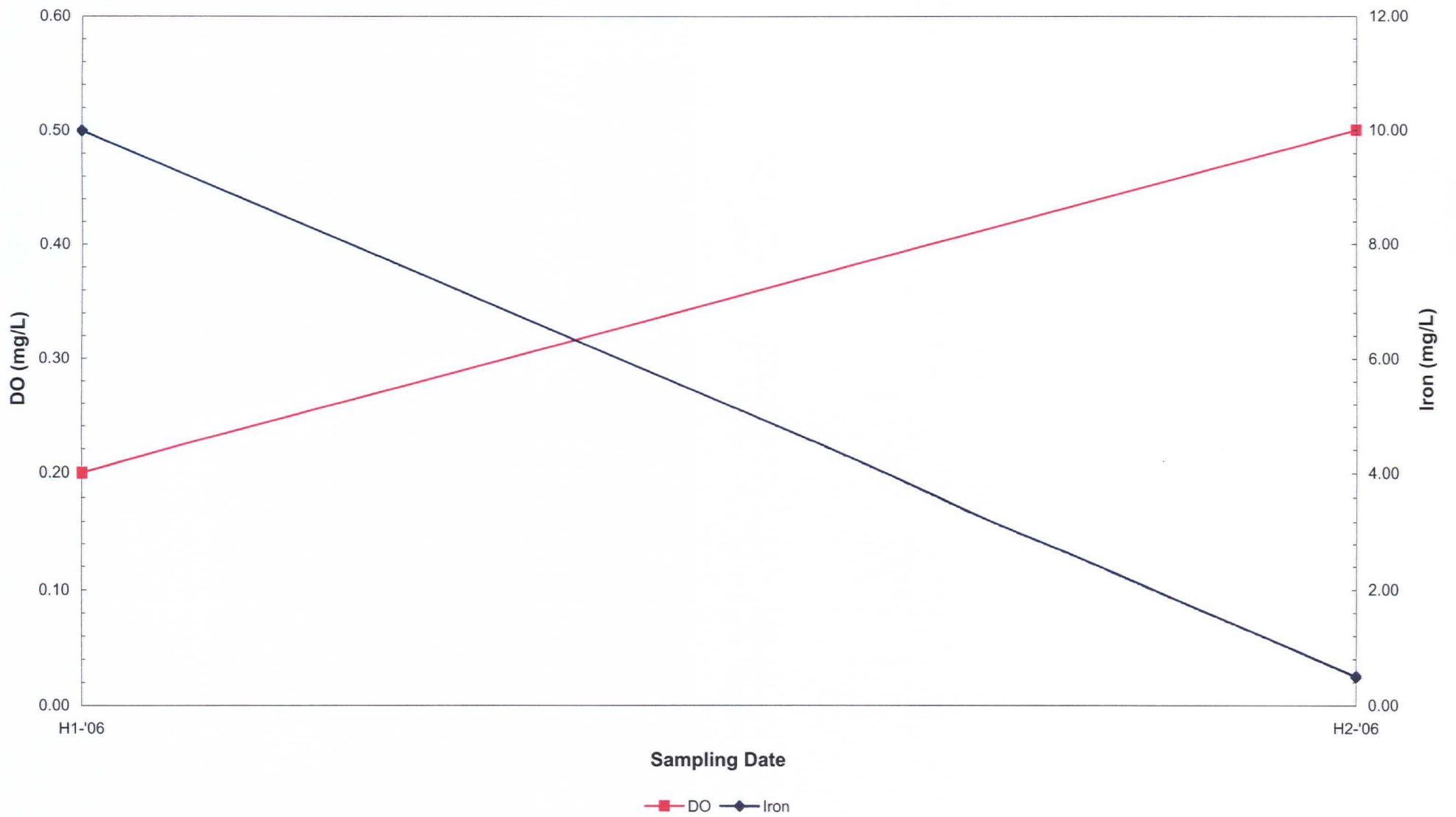
# Monitoring Well GW- 2



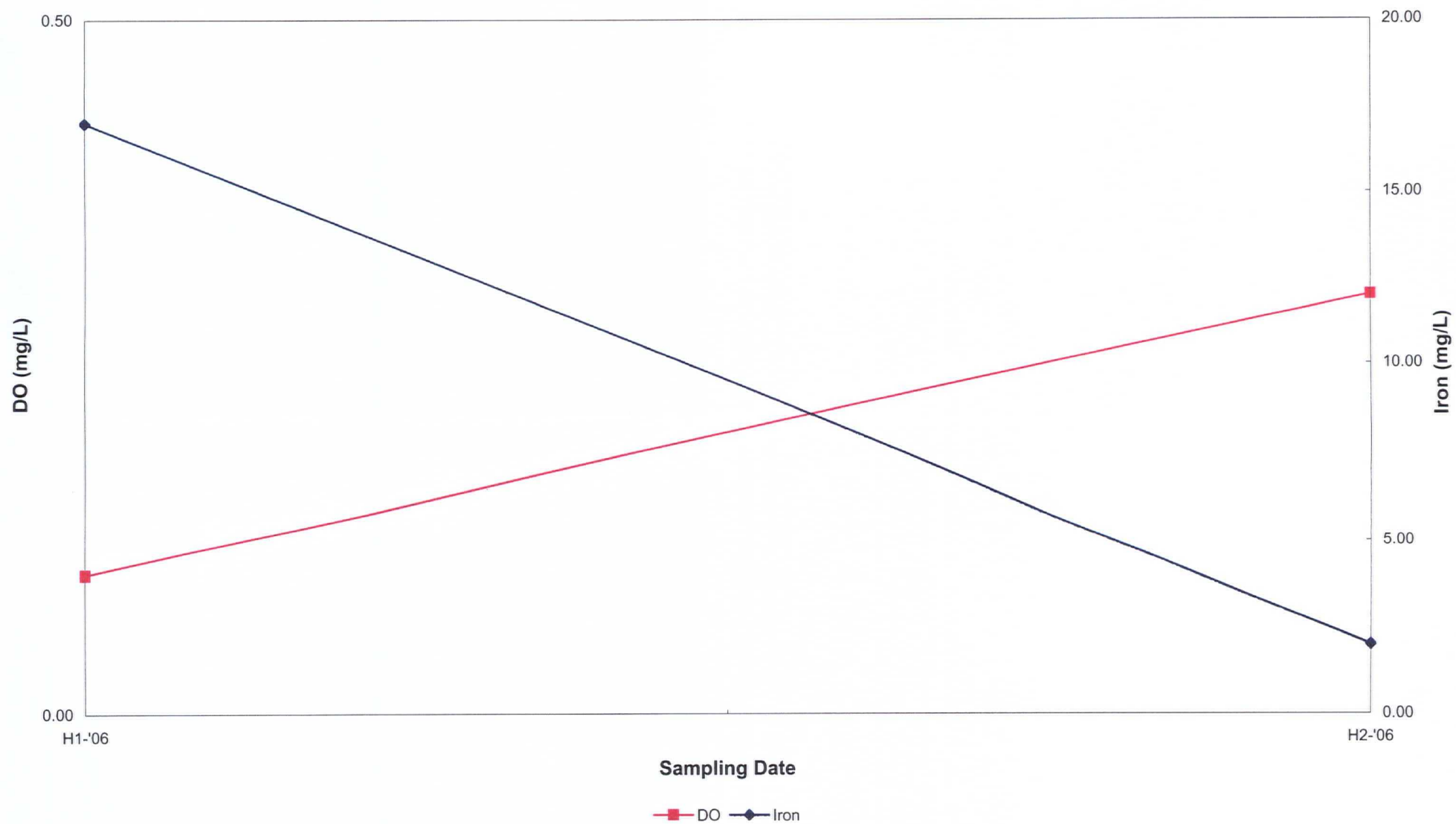
### Monitoring Well GW-3



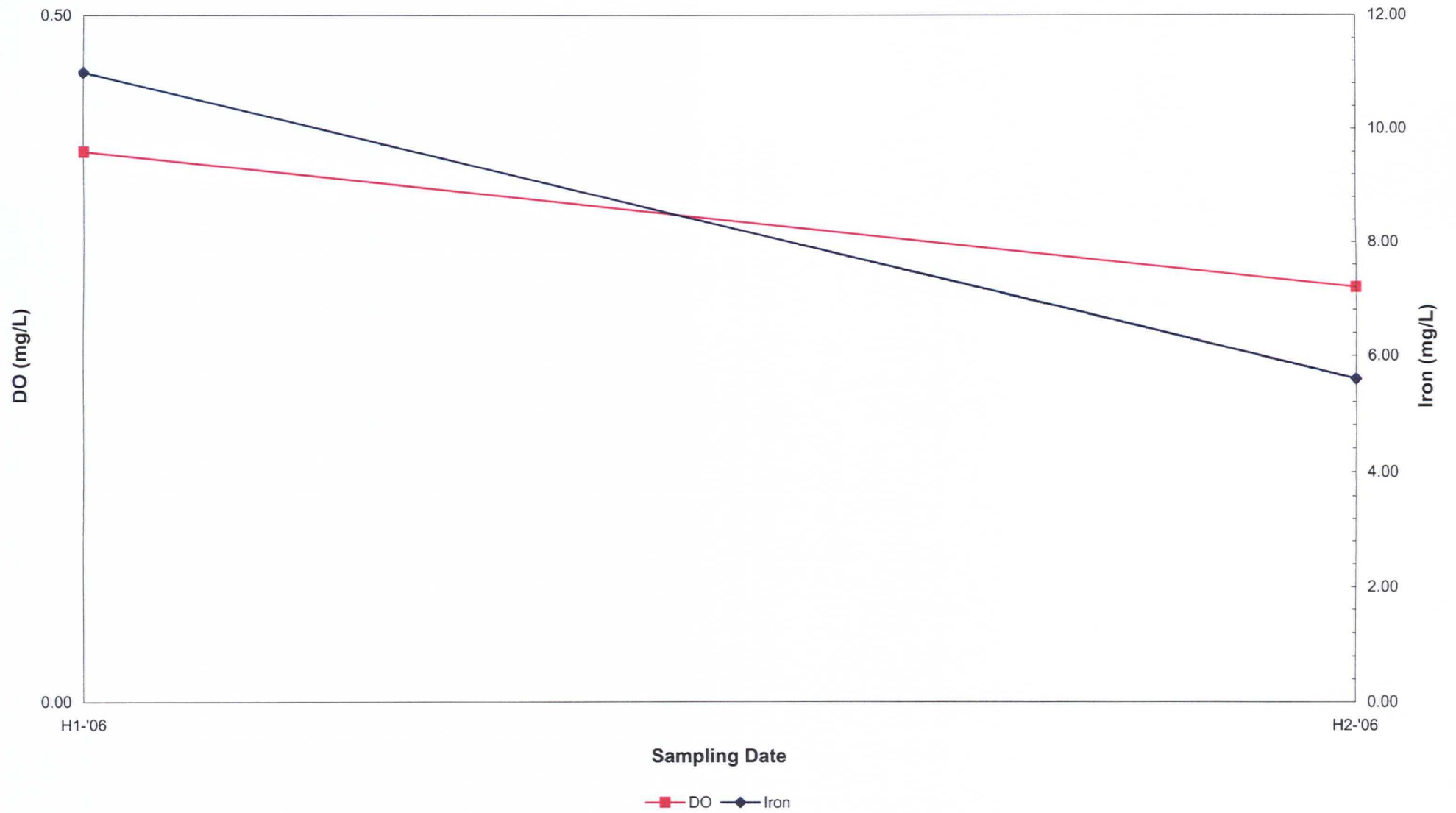
# Monitoring Well GW-4



# Monitoring Well GW-5

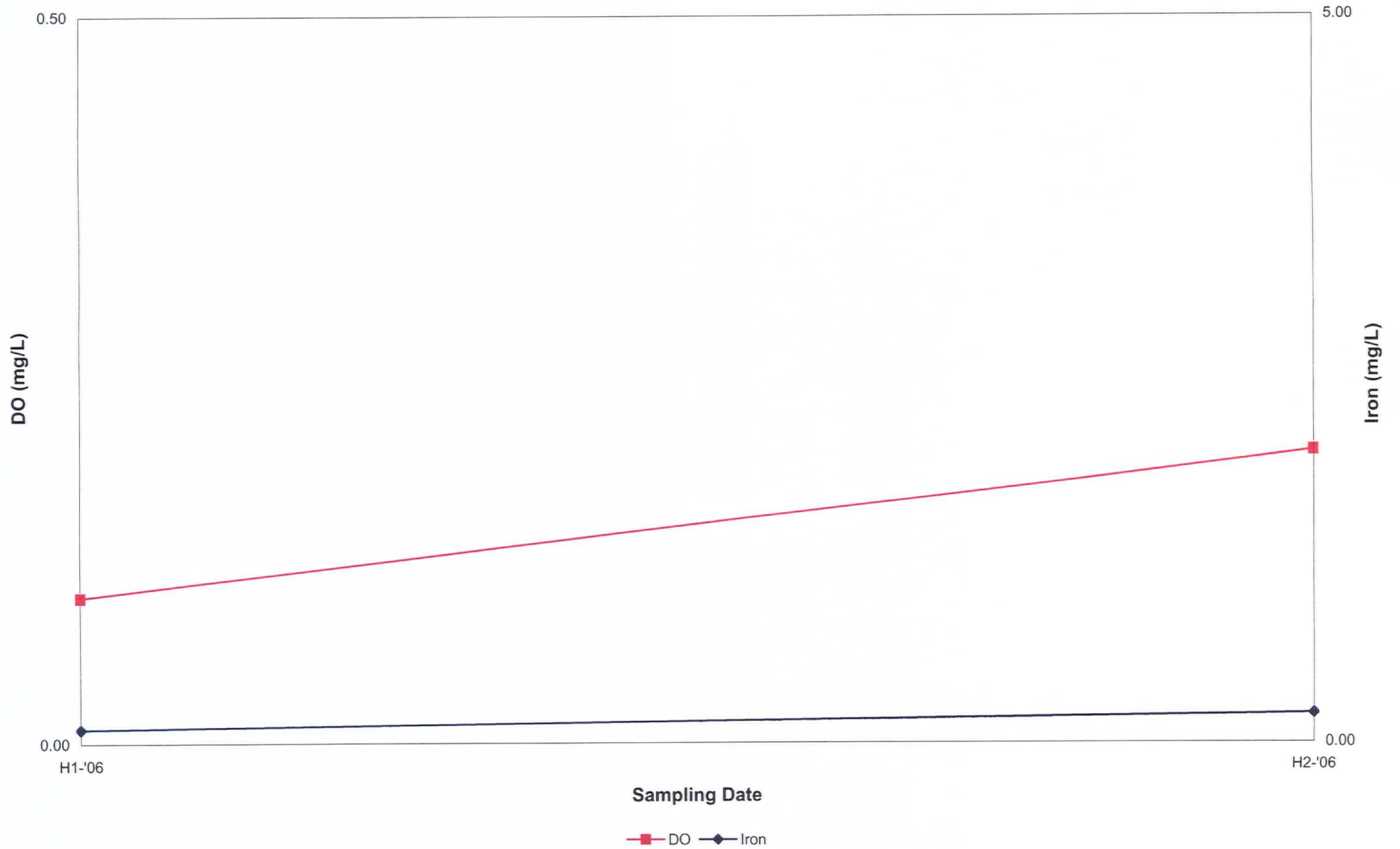


# Monitoring Well GW-6

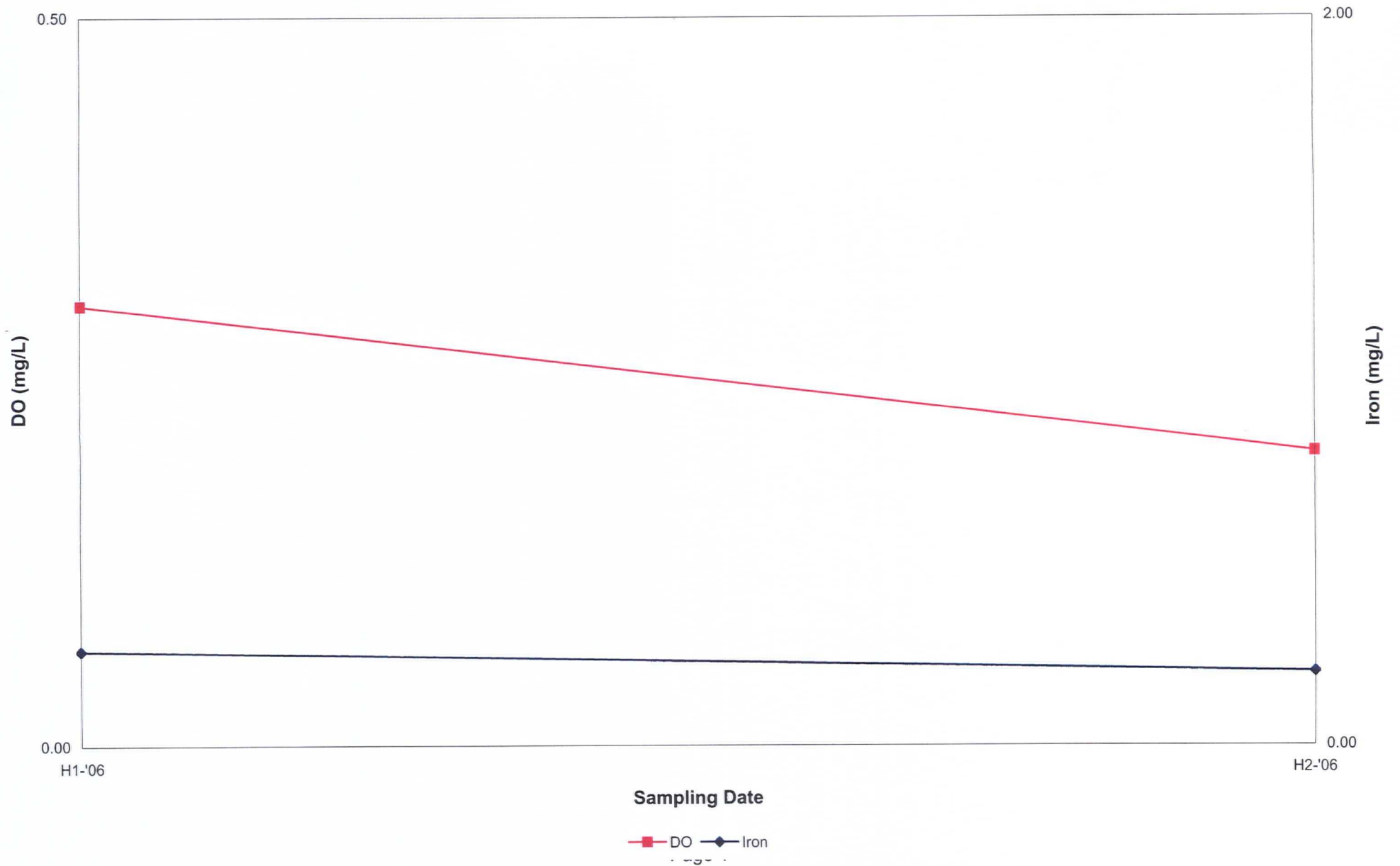




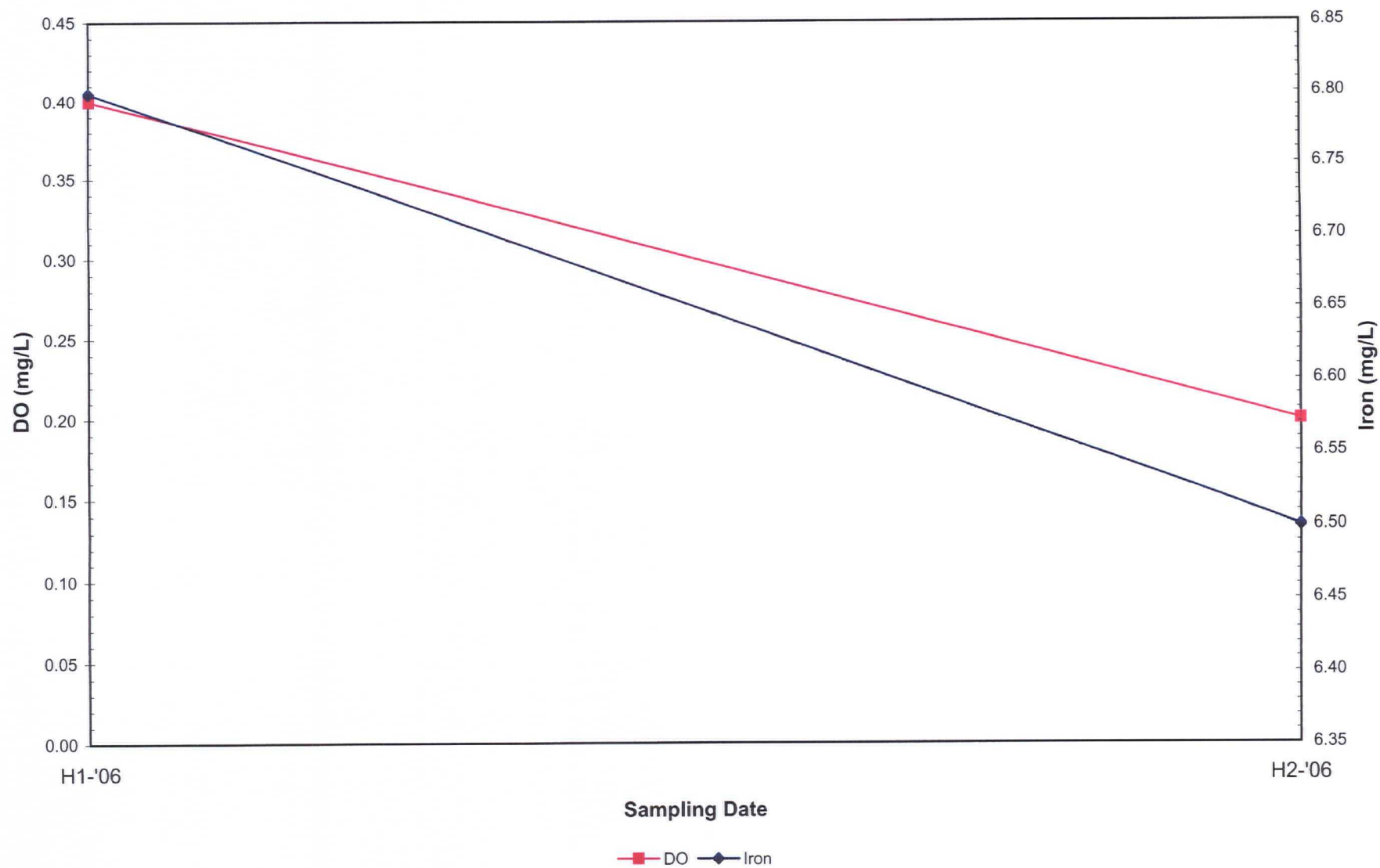
# Monitoring Well GW-7



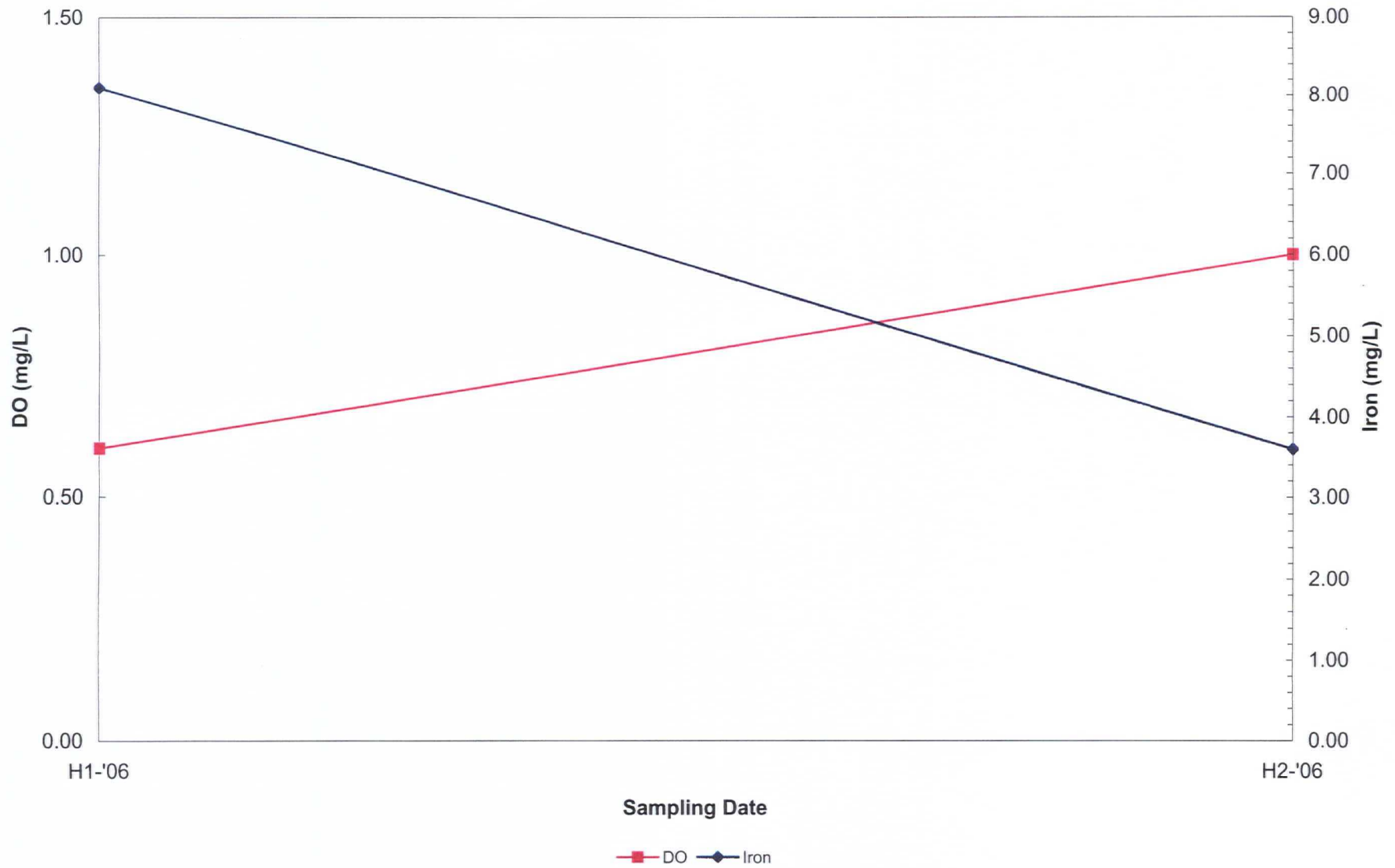
# Monitoring Well GW-8



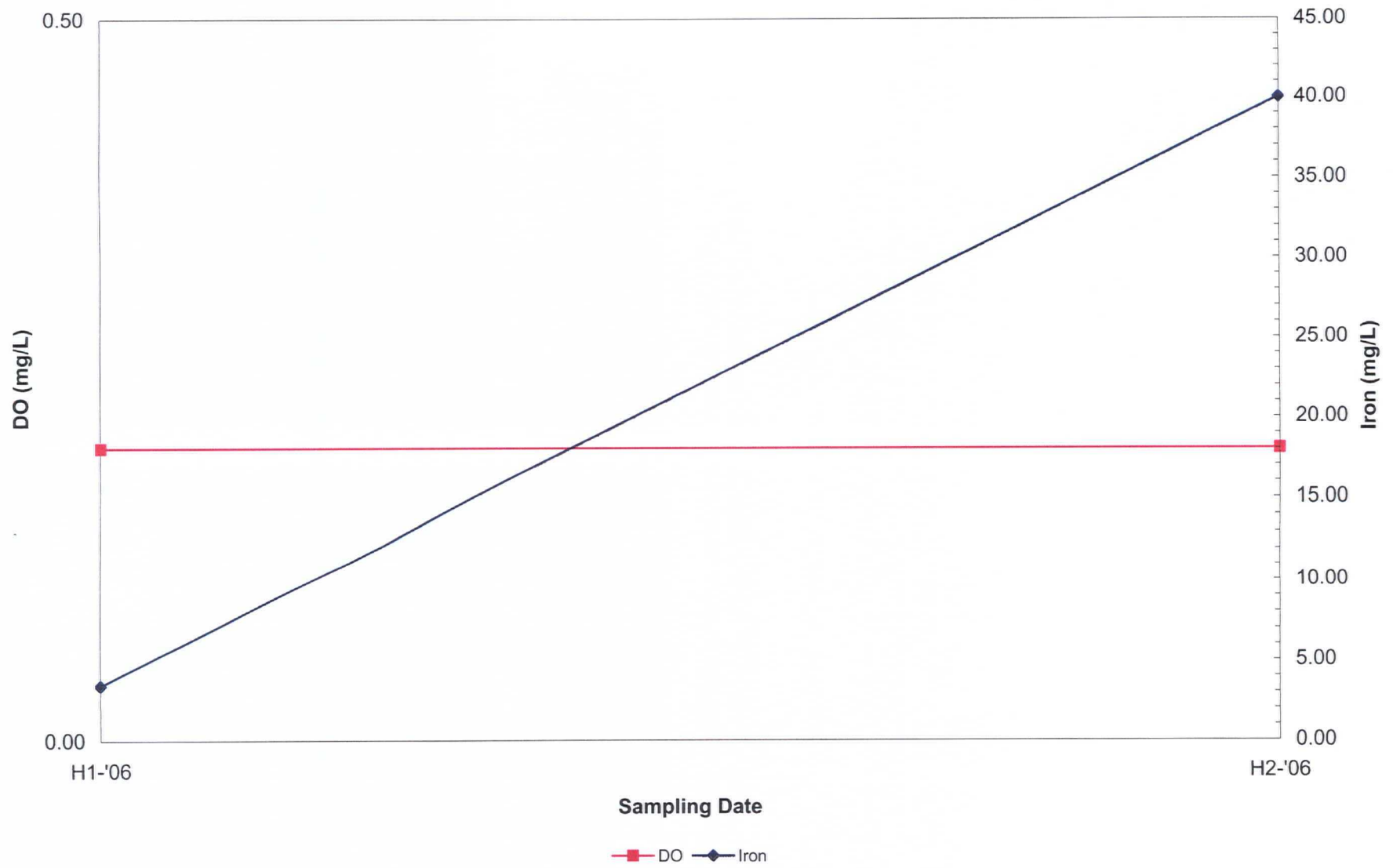
# Monitoring Well GW-9



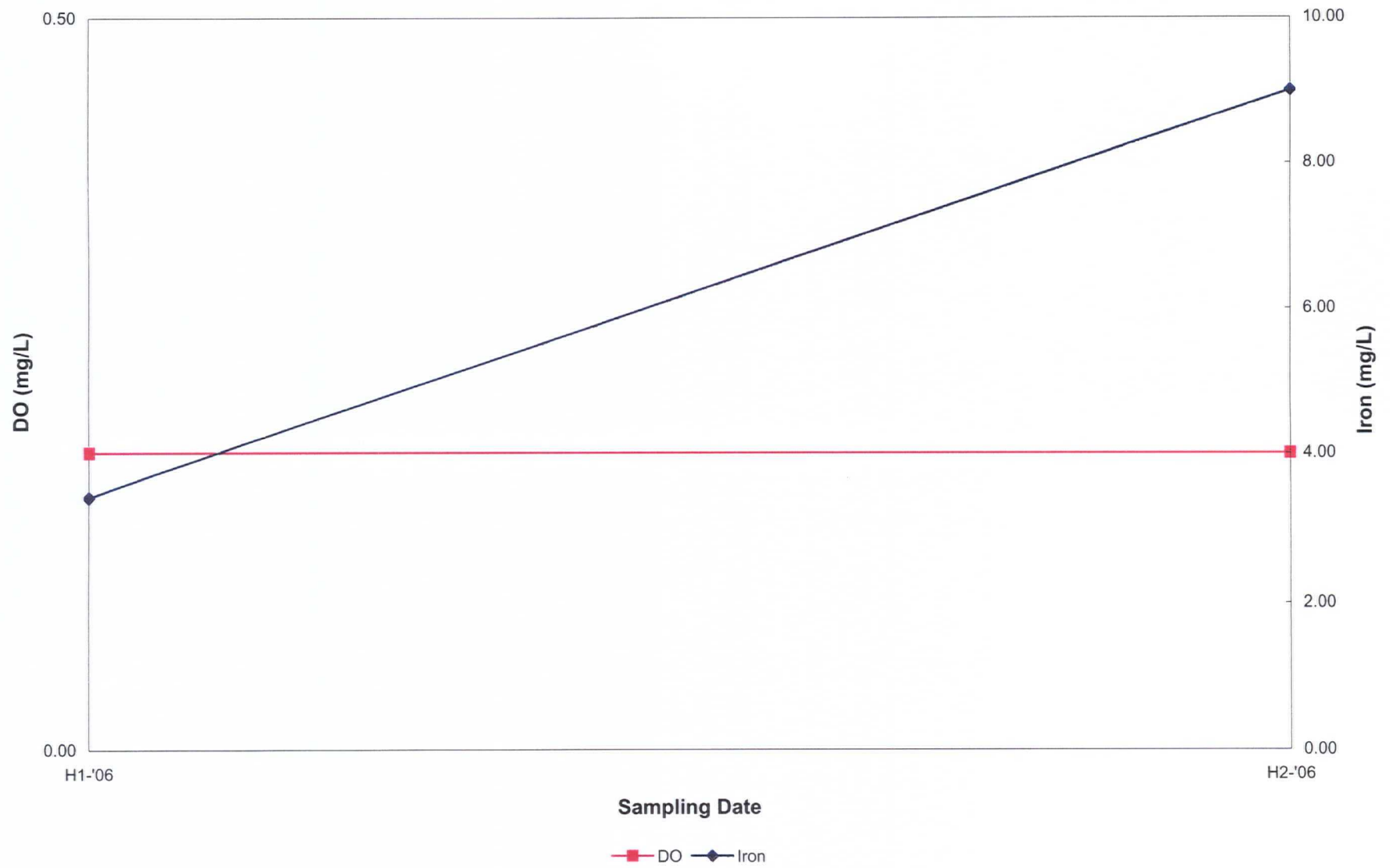
# Monitoring Well GW-10



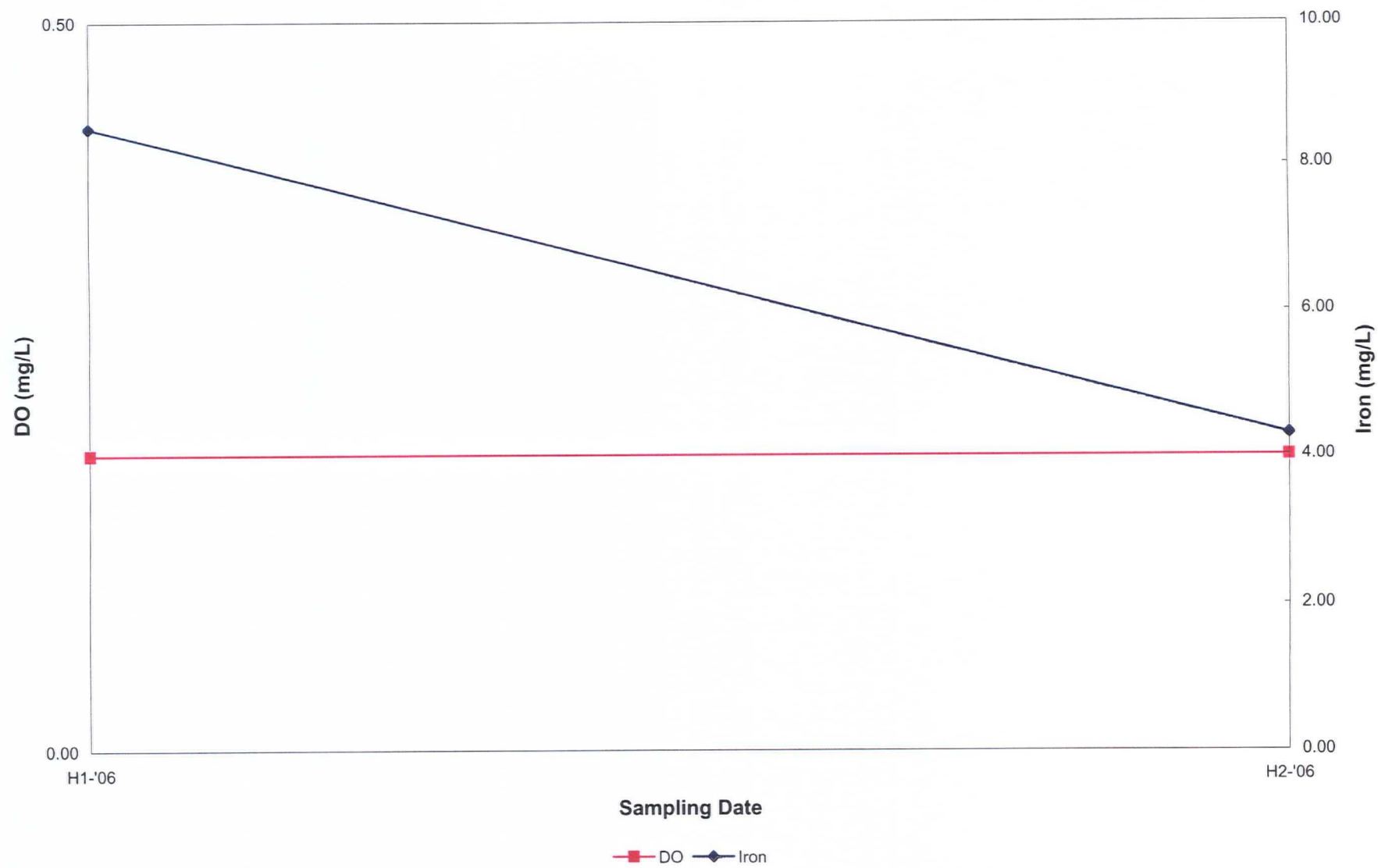
# Monitoring Well GW-11



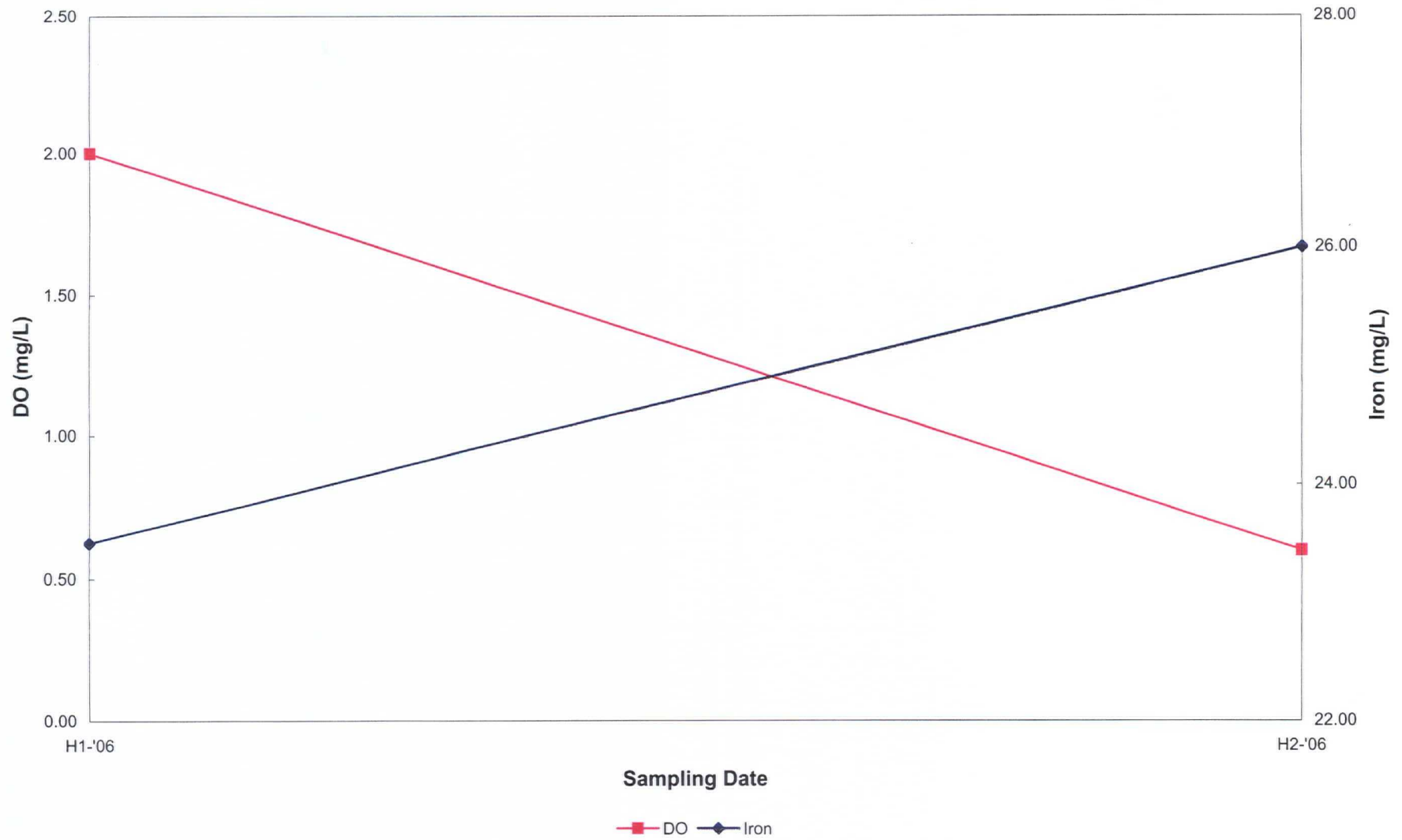
# Monitoring Well GW-12



# Monitoring Well GW-13

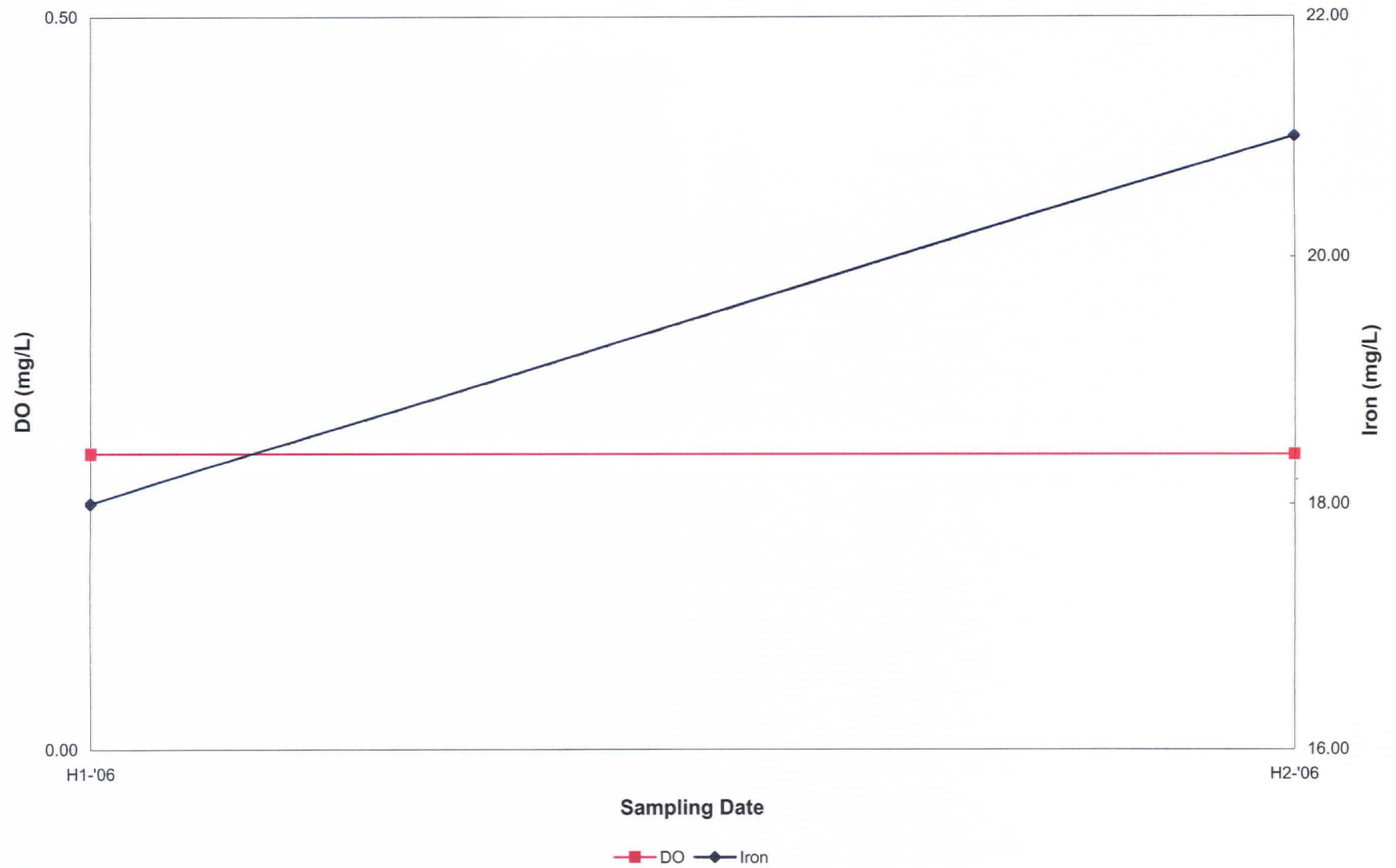


# Monitoring Well GW-14

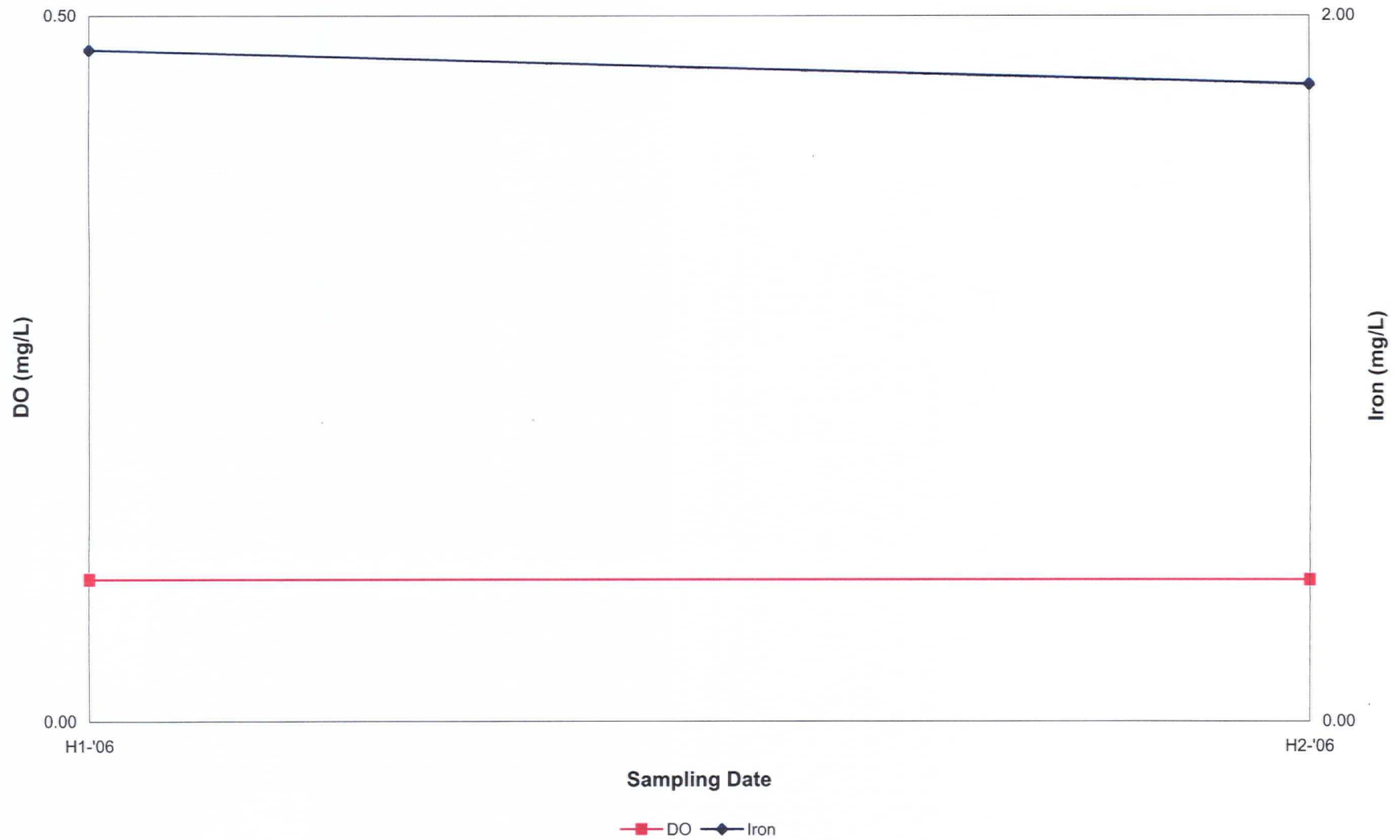




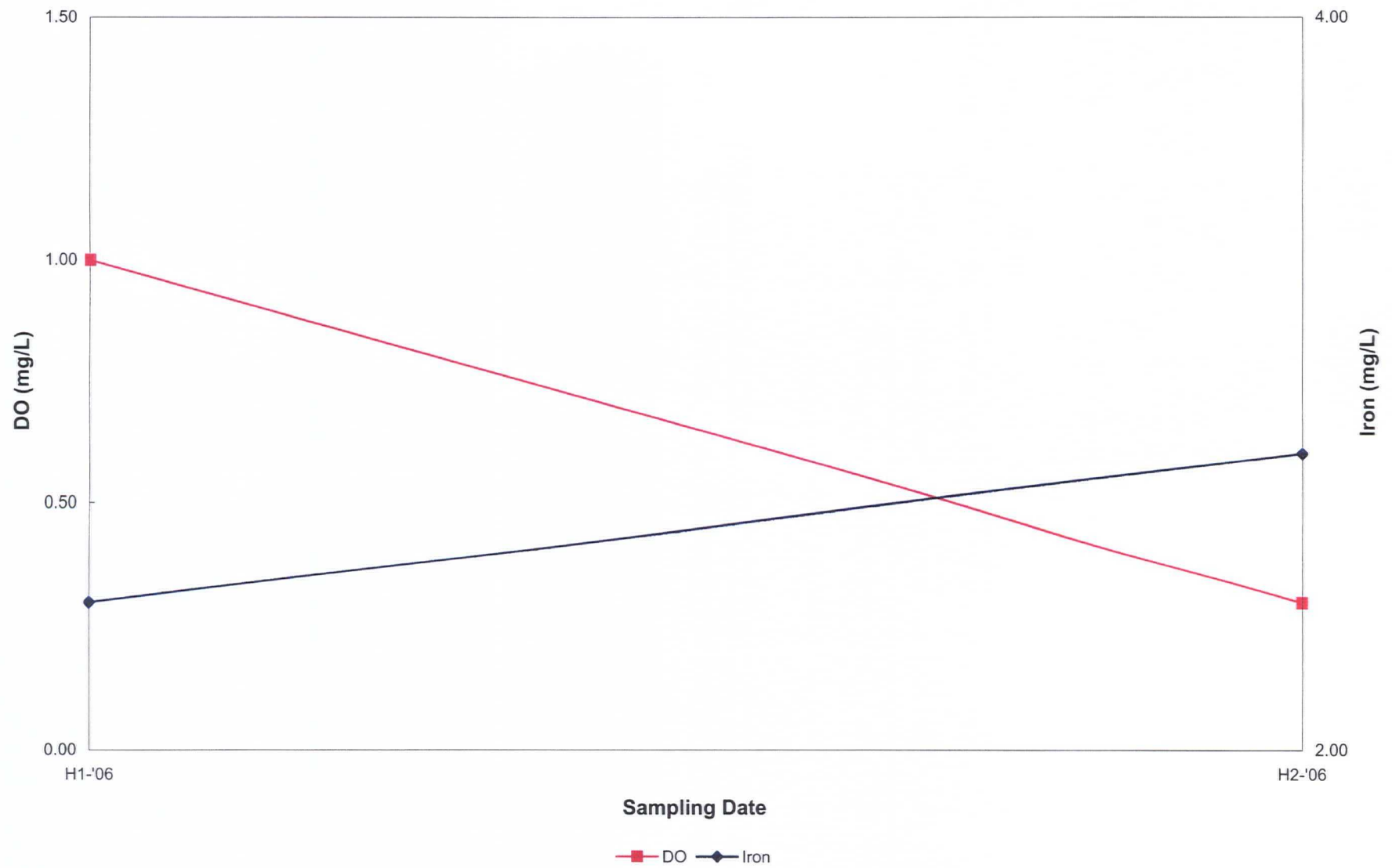
# Monitoring Well GW-15



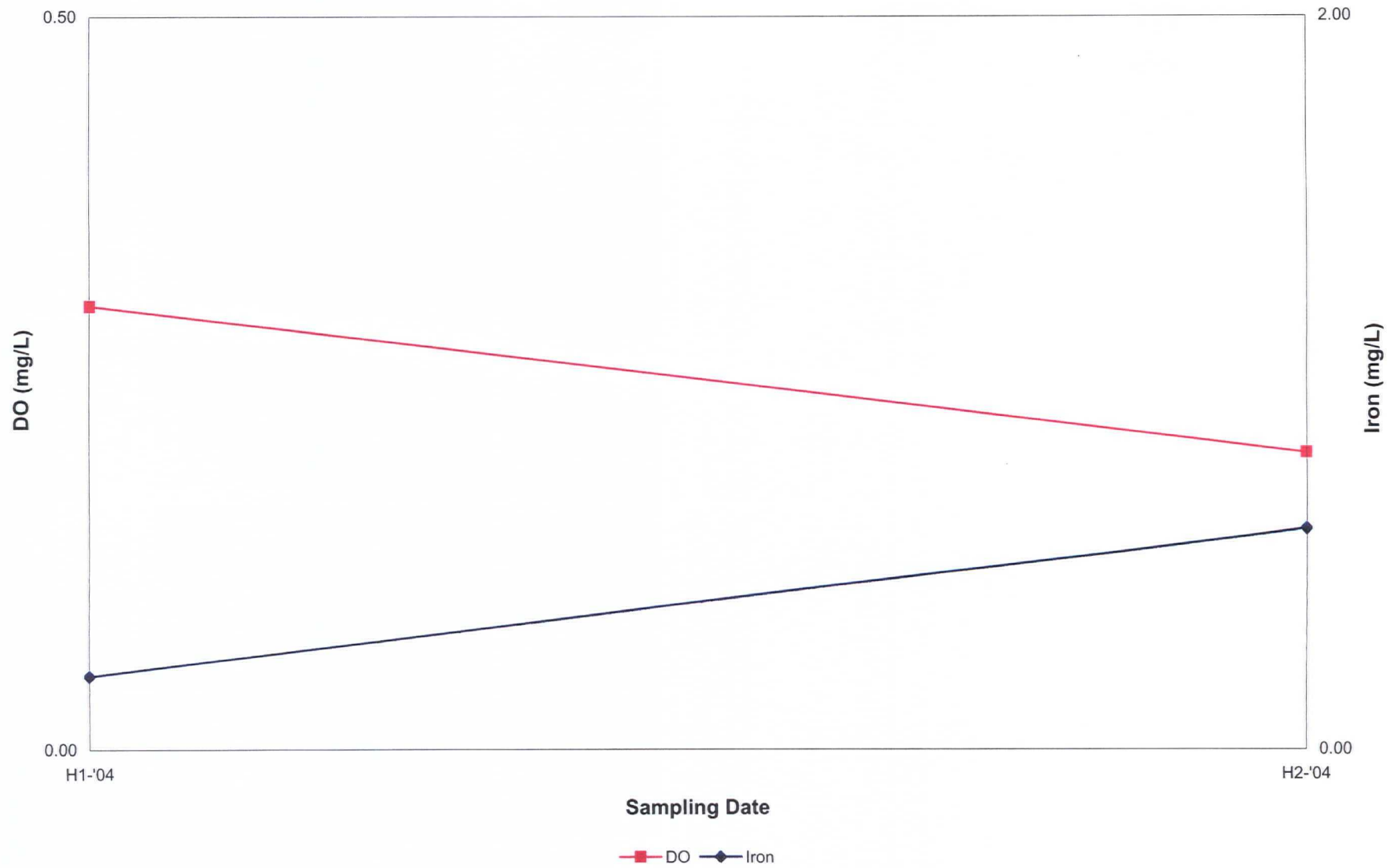
# Monitoring Well GW-16



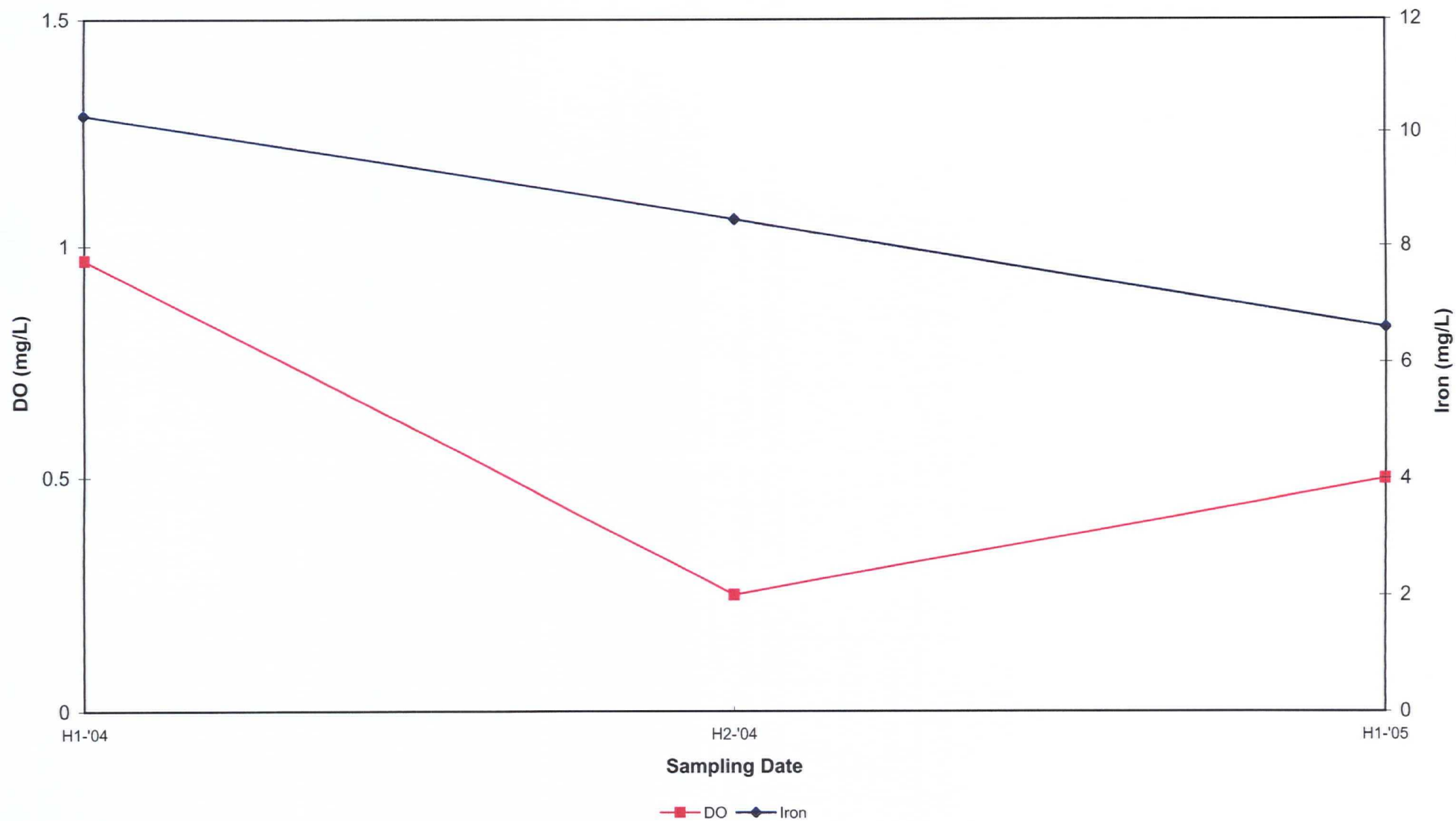
# Monitoring Well GW-17



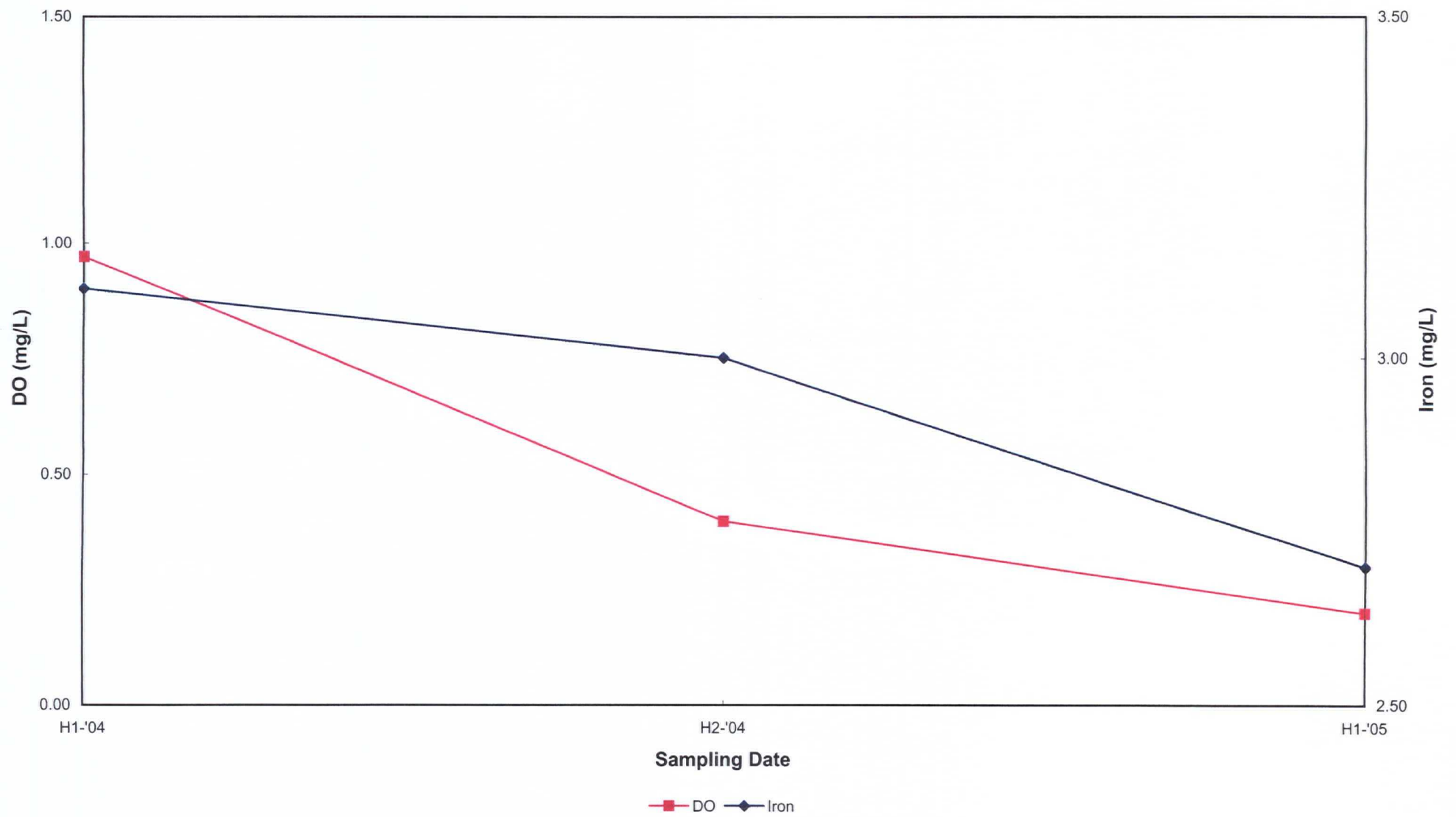
# Monitoring Well BGW-1



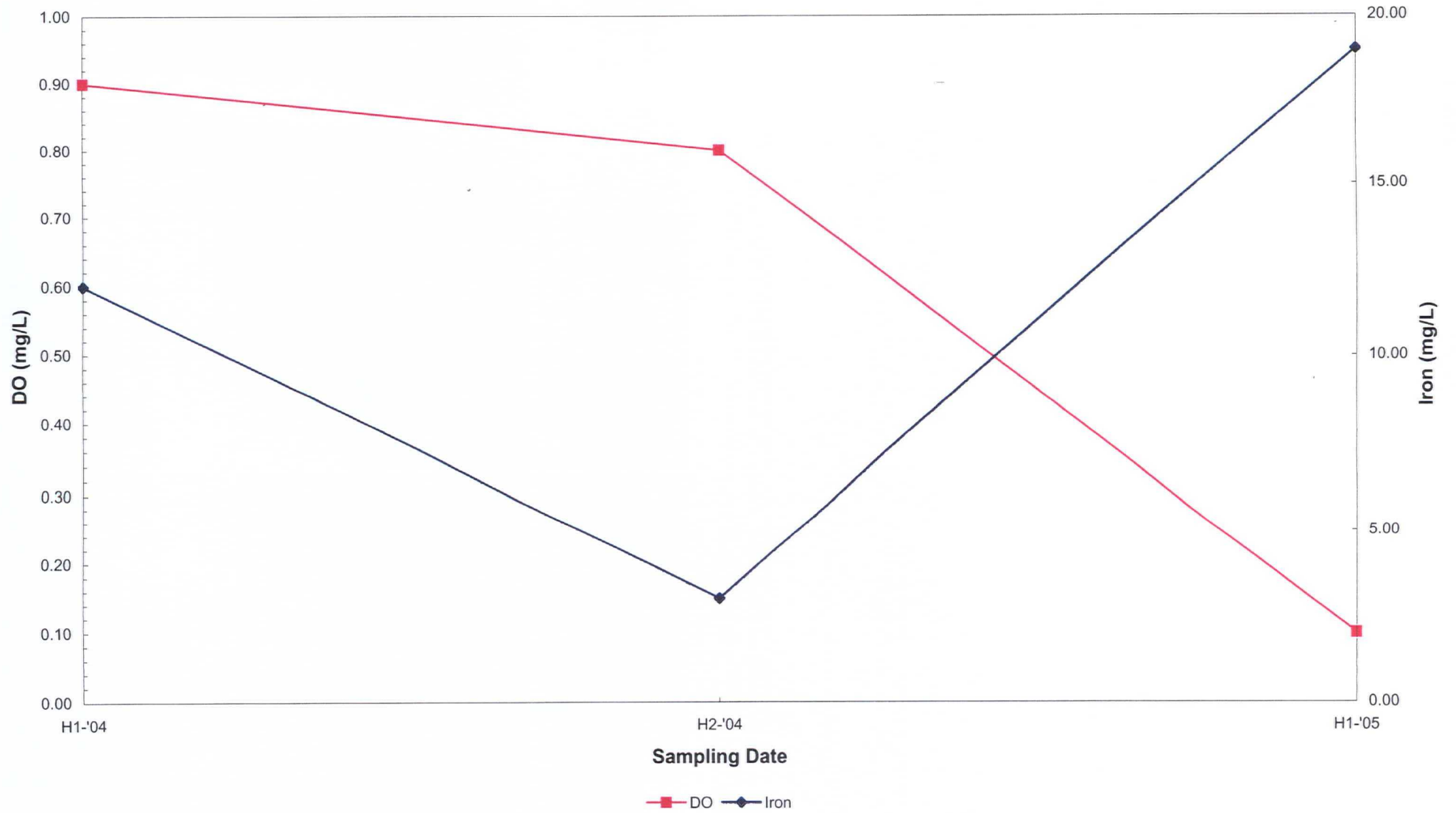
# Monitoring Well CW- 4



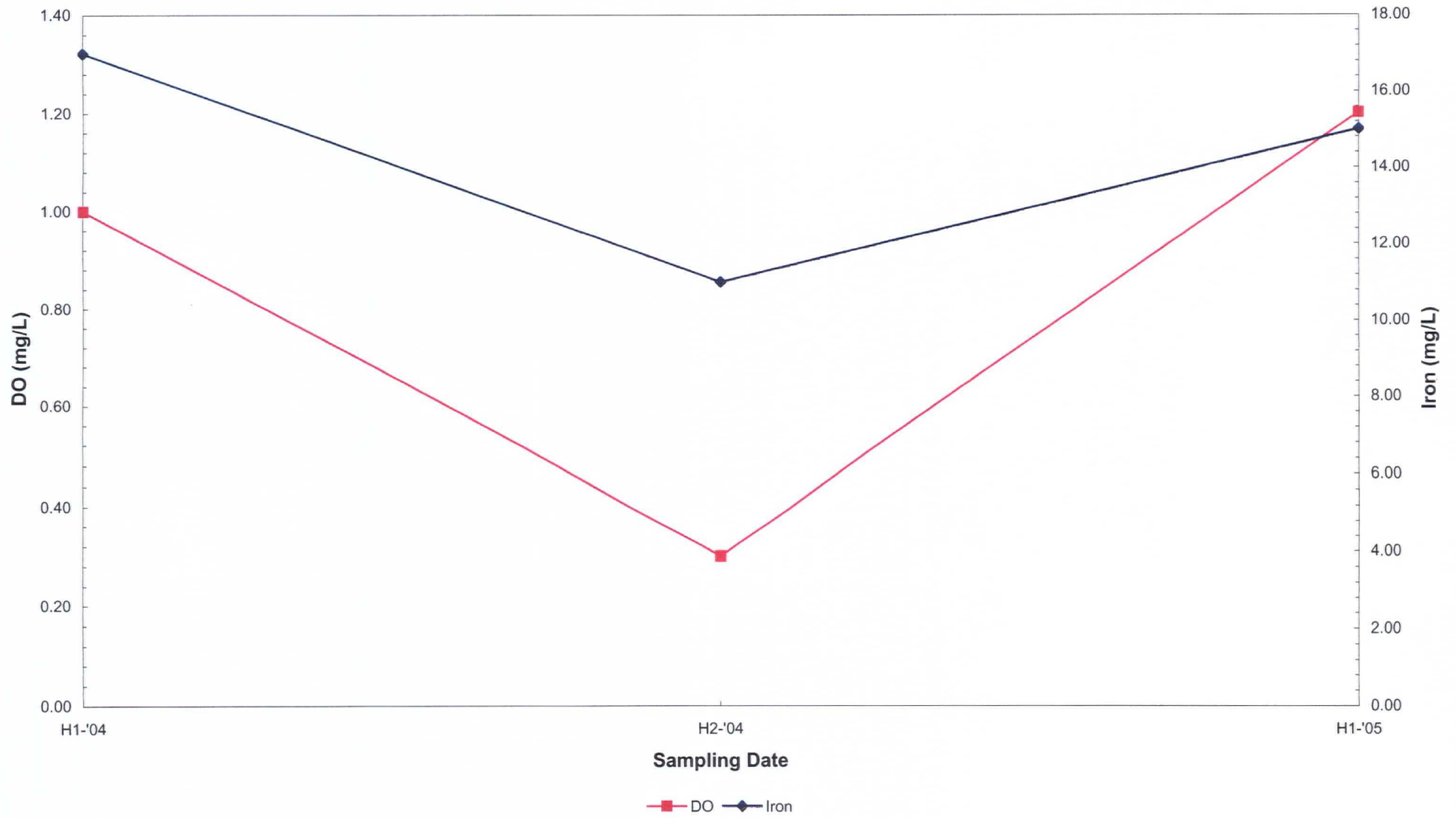
# Monitoring Well CW- 5A



# Monitoring Well GC-1A

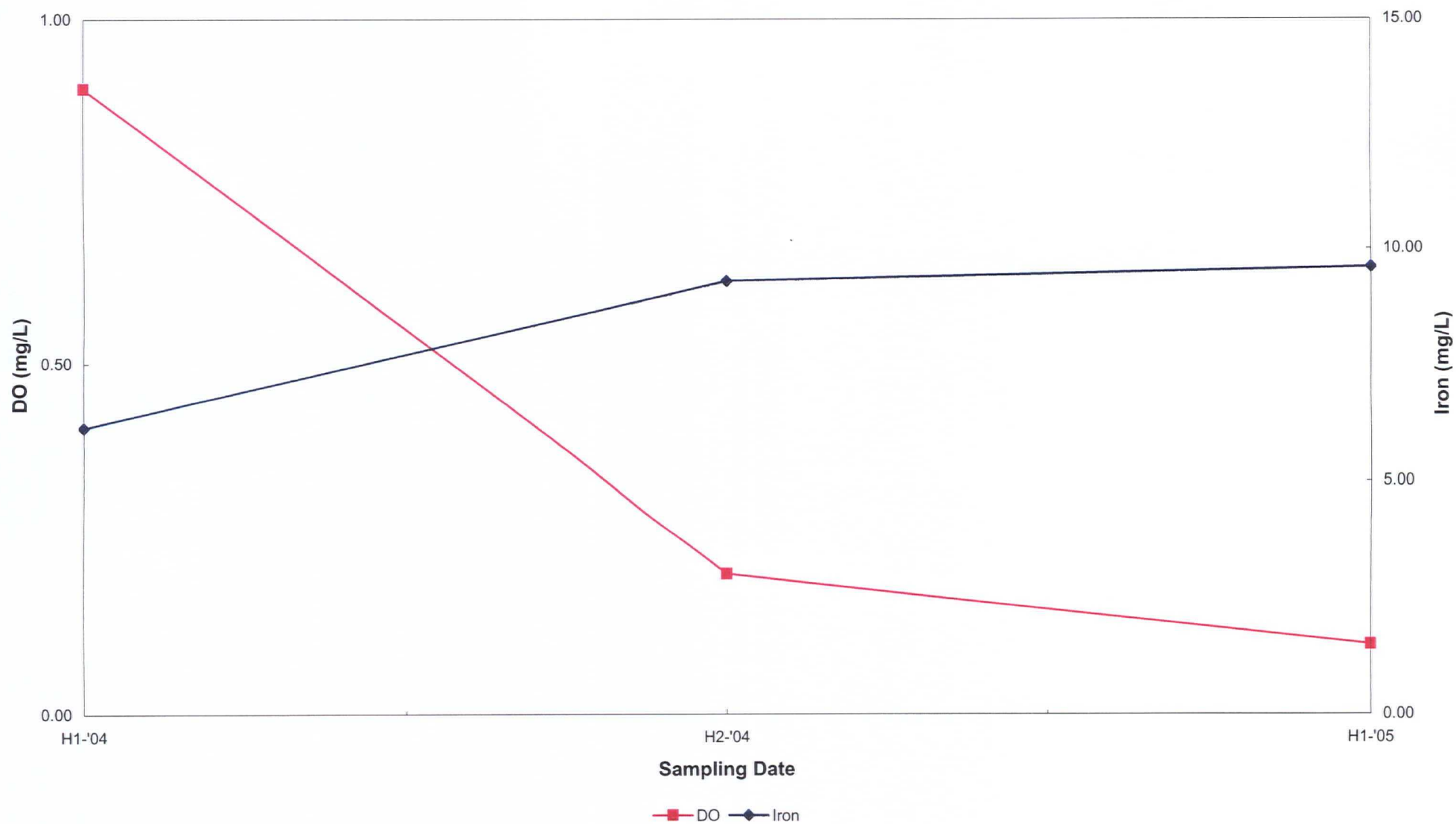


# Monitoring Well GC-2

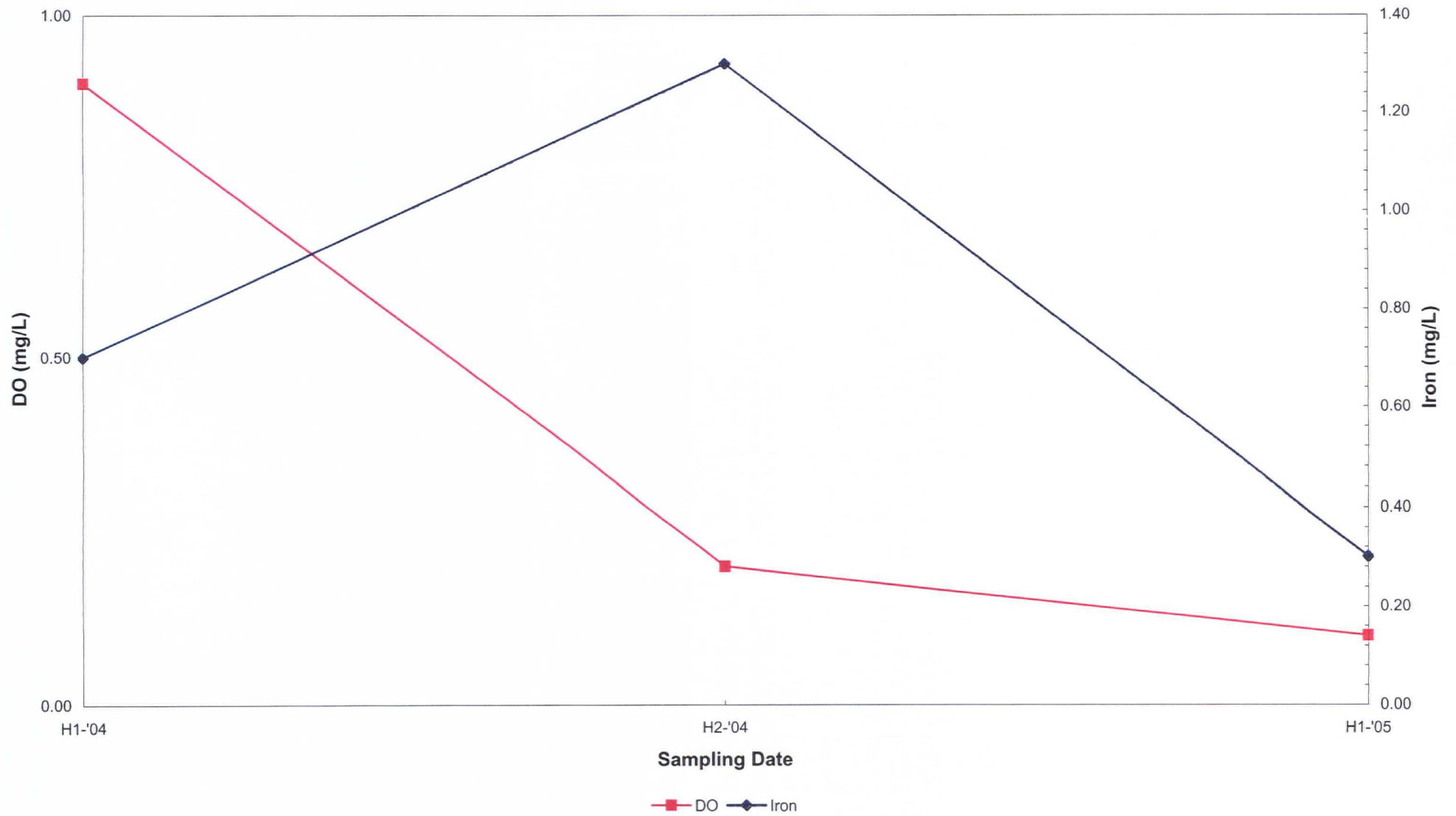




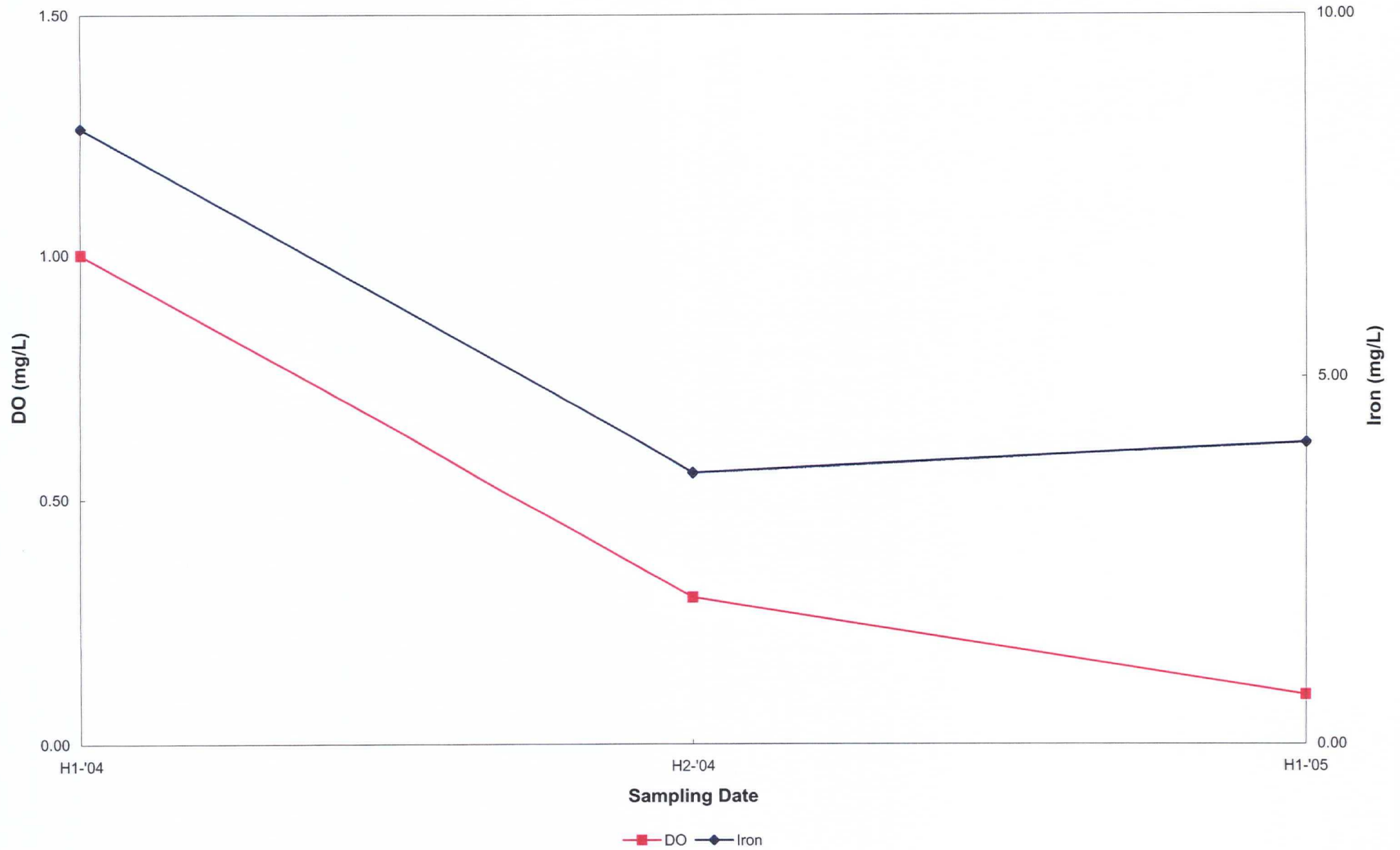
# Monitoring Well GC-3



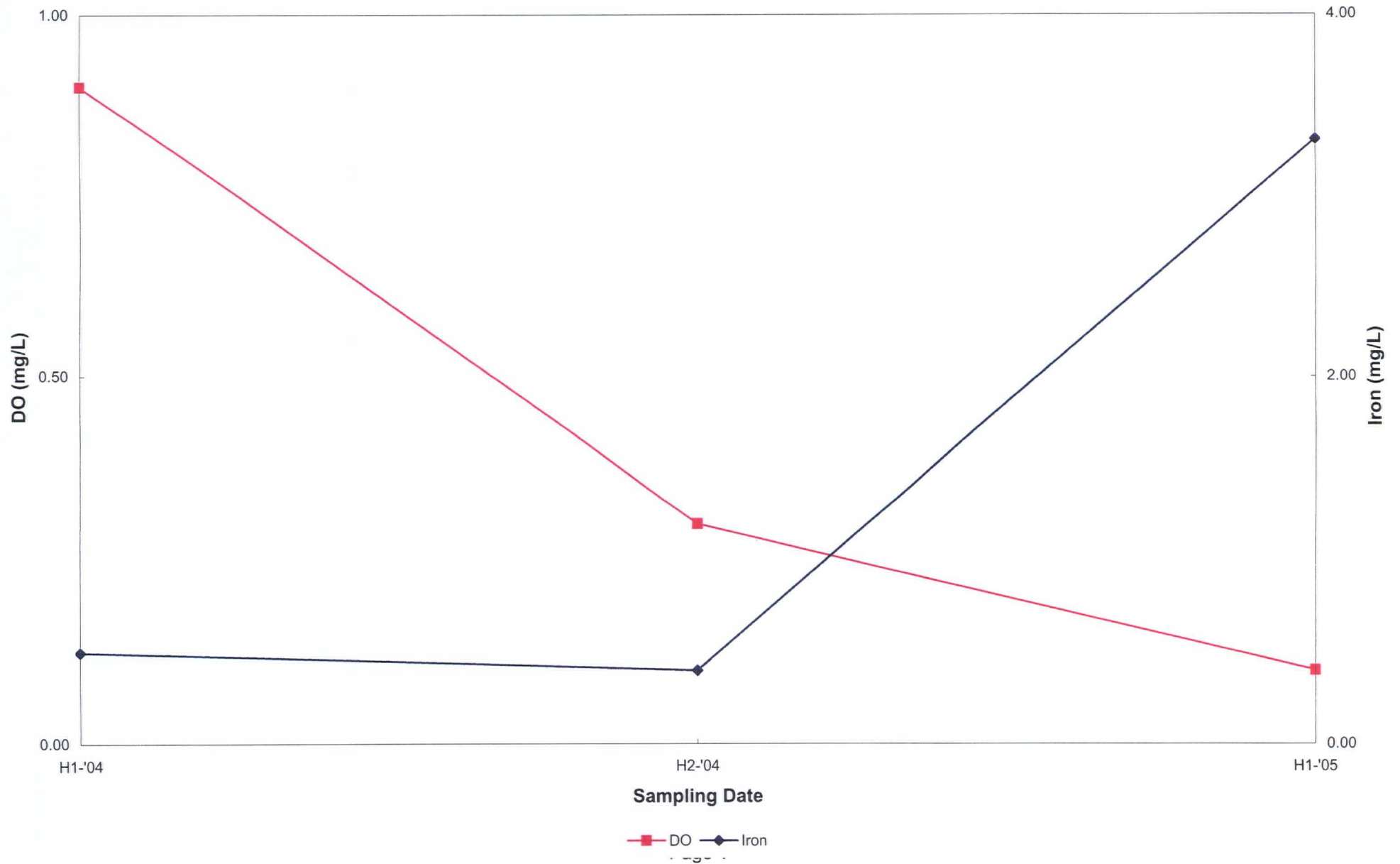
# Monitoring Well GC-4



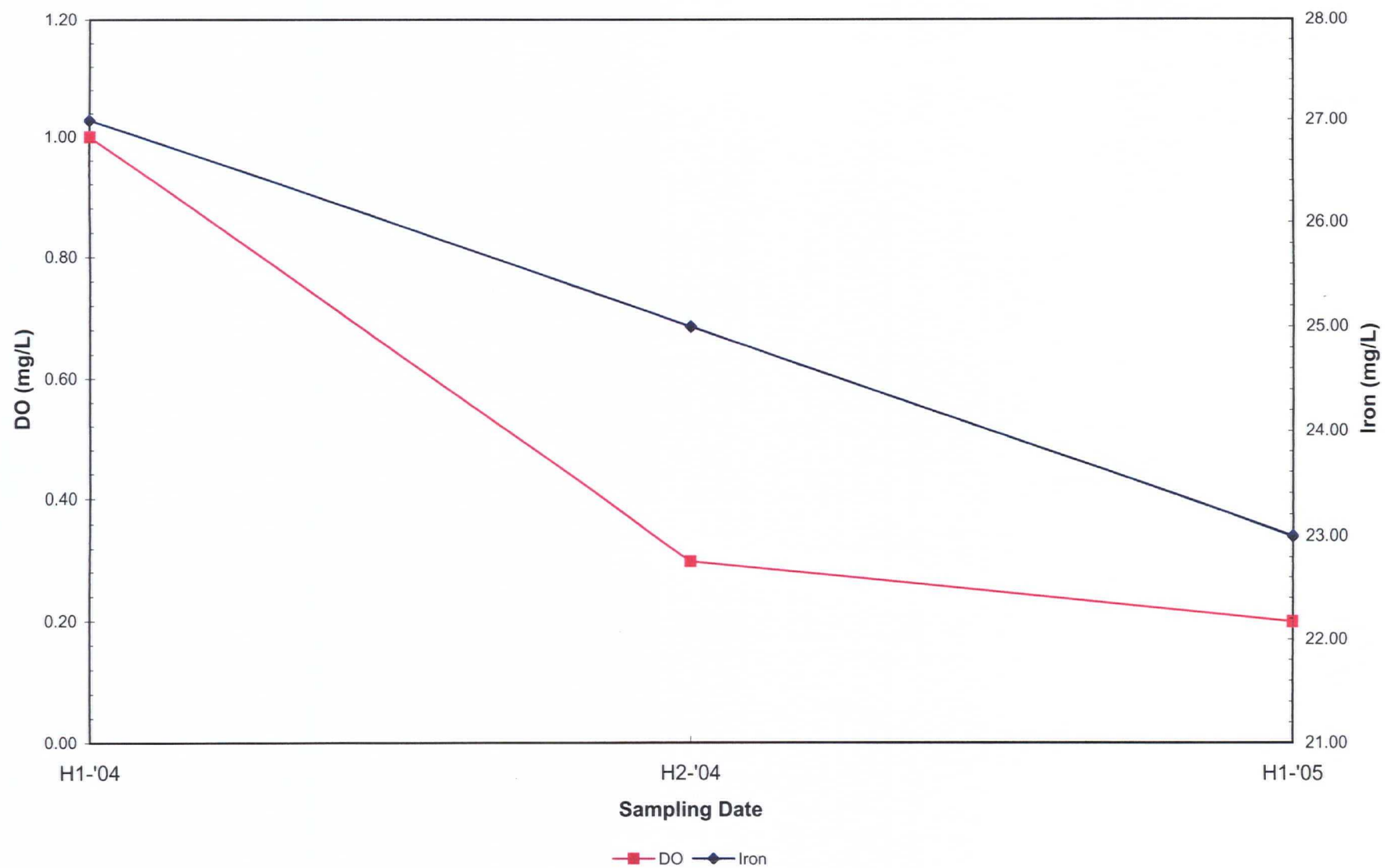
# Monitoring Well GC- 5



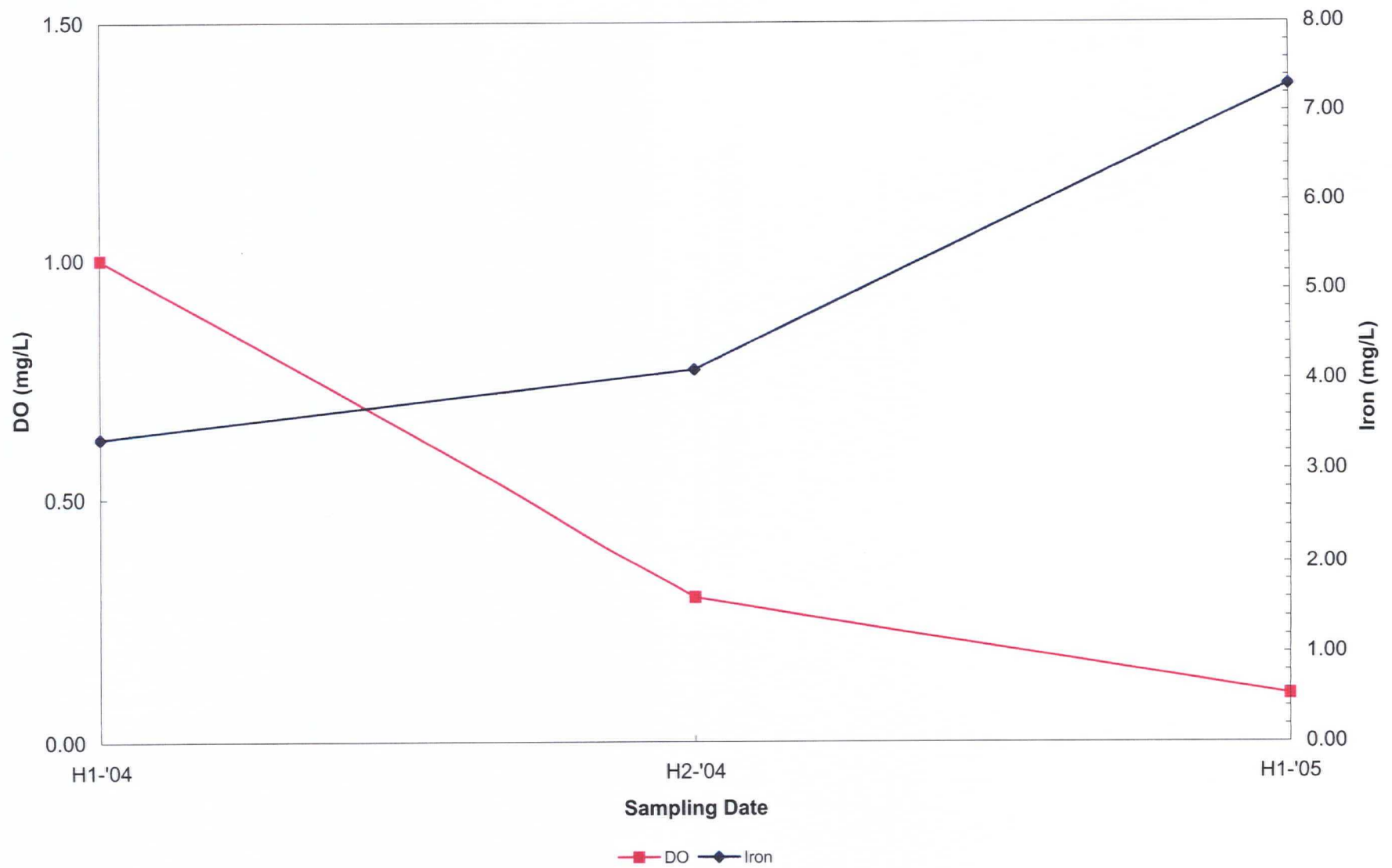
# Monitoring Well GC-6



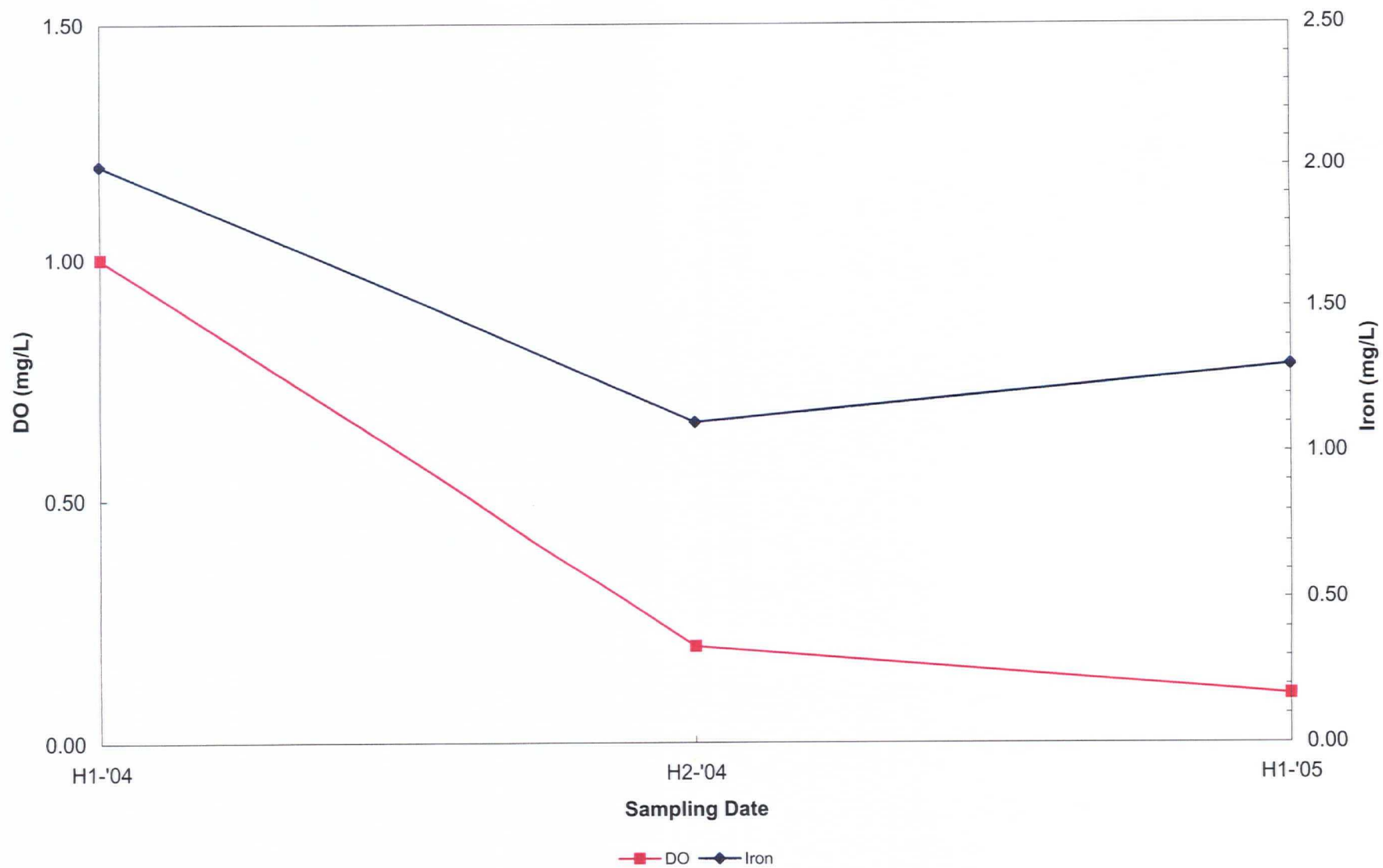
# Monitoring Well LR11-1



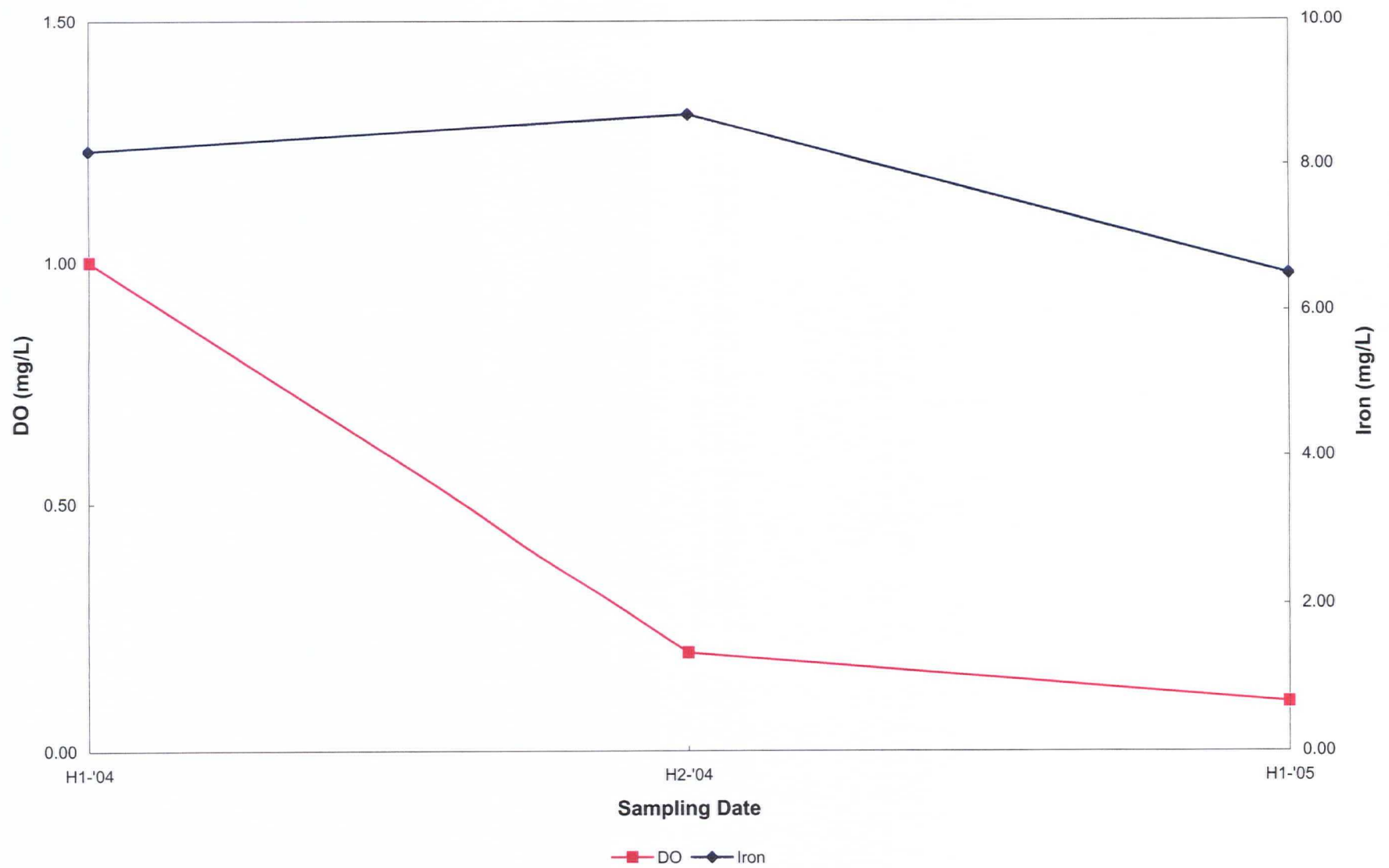
# Monitoring Well LR11-2



### Monitoring Well LR11-3

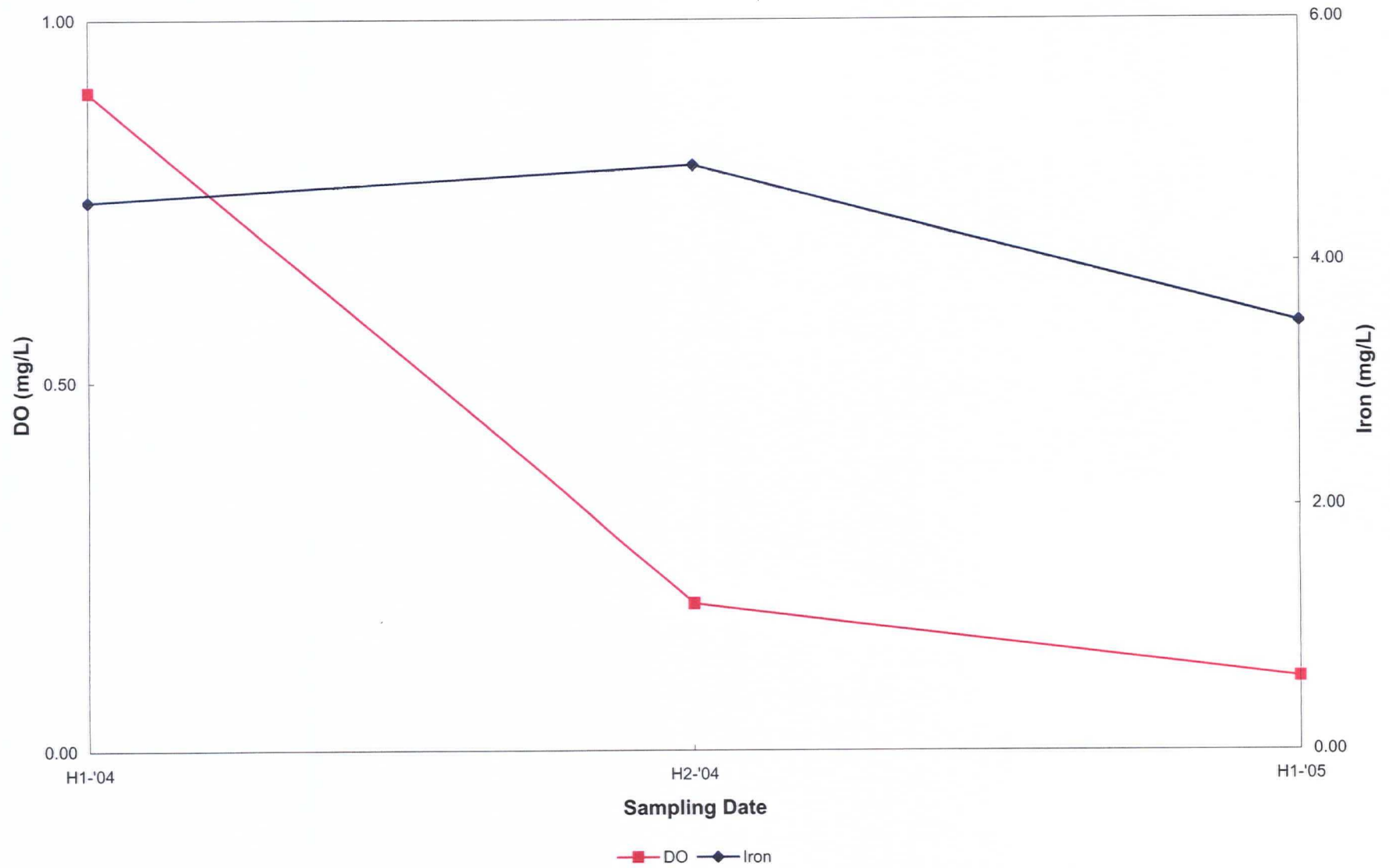


### Monitoring Well LR11-4

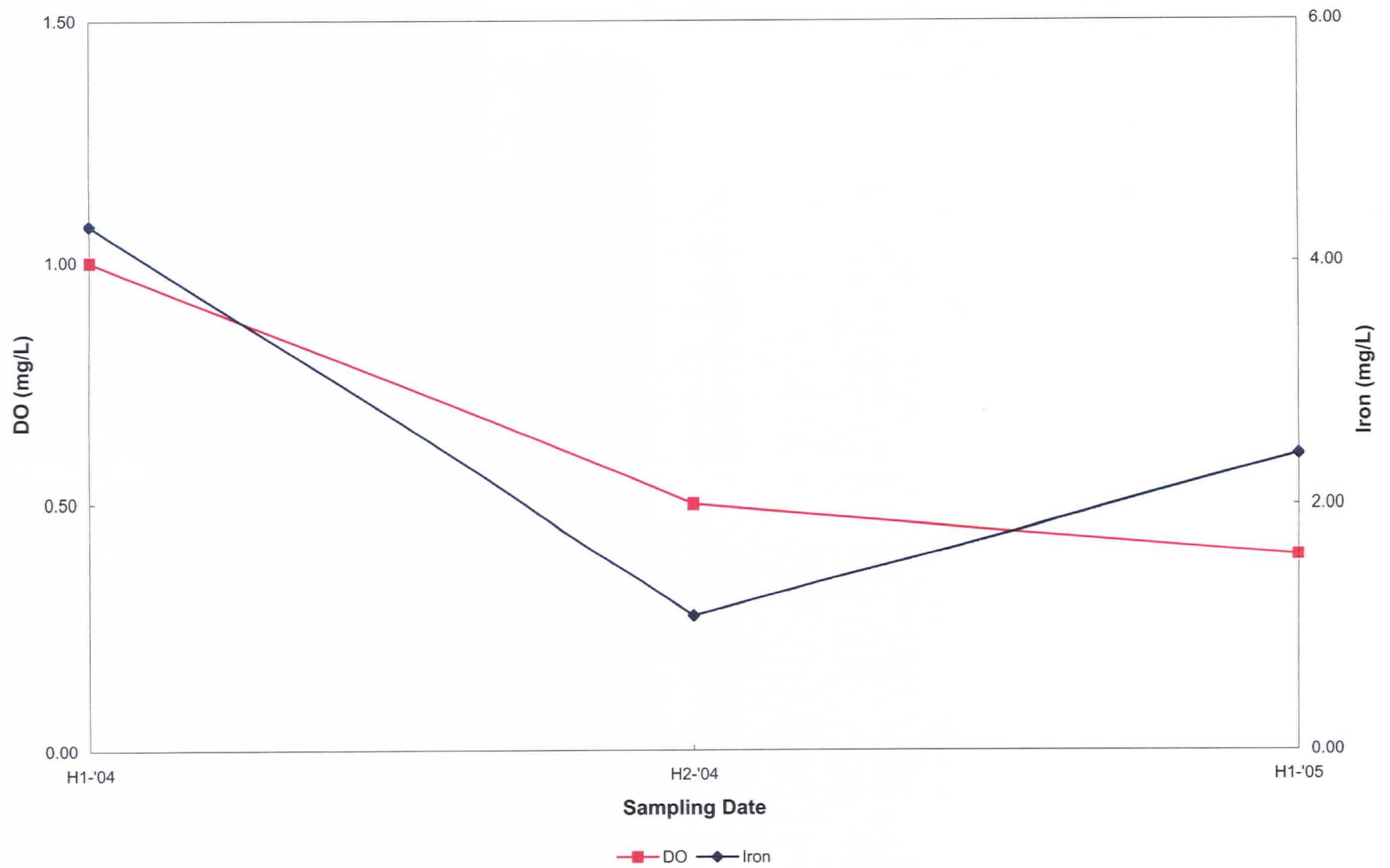




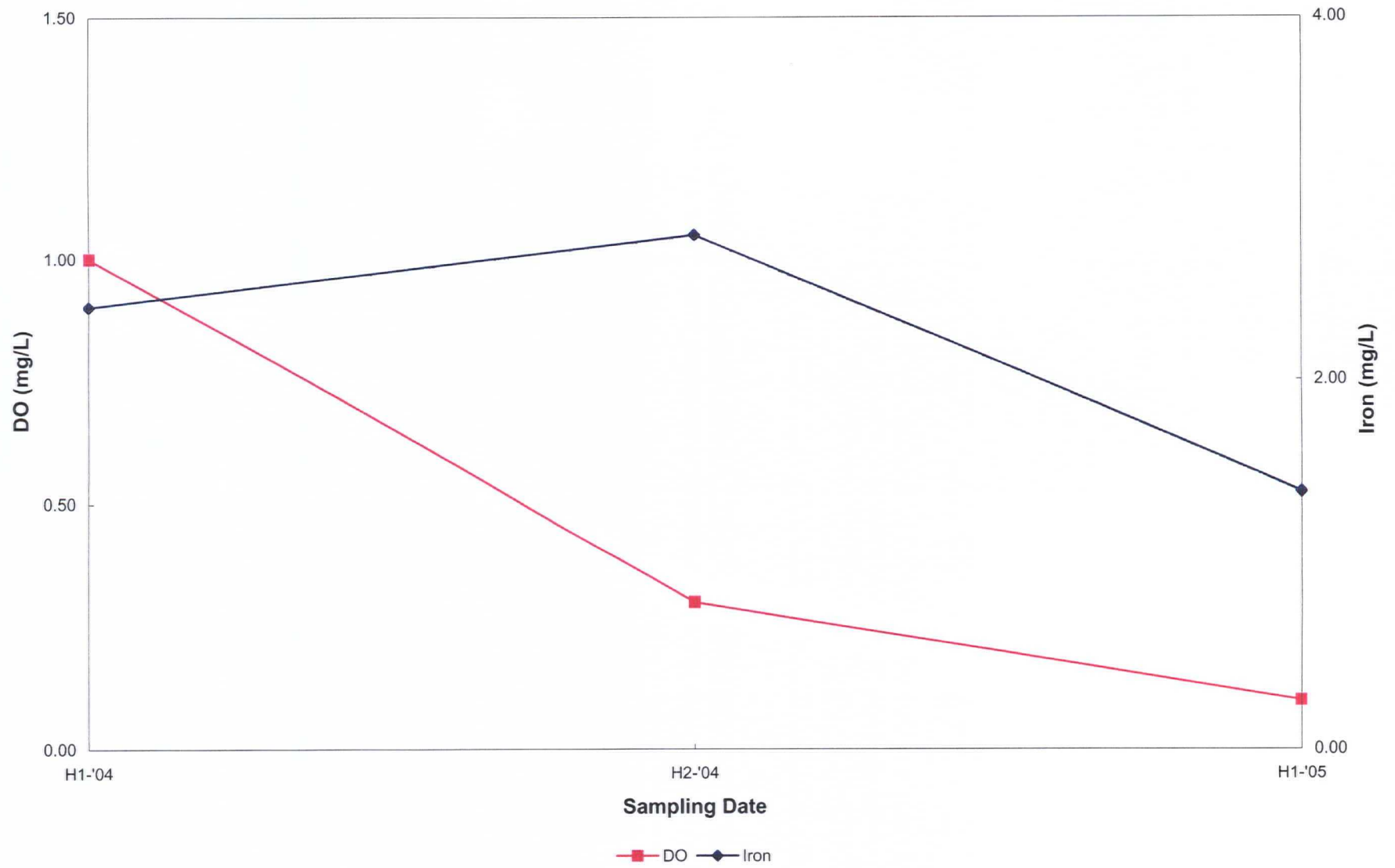
# Monitoring Well LR11-5



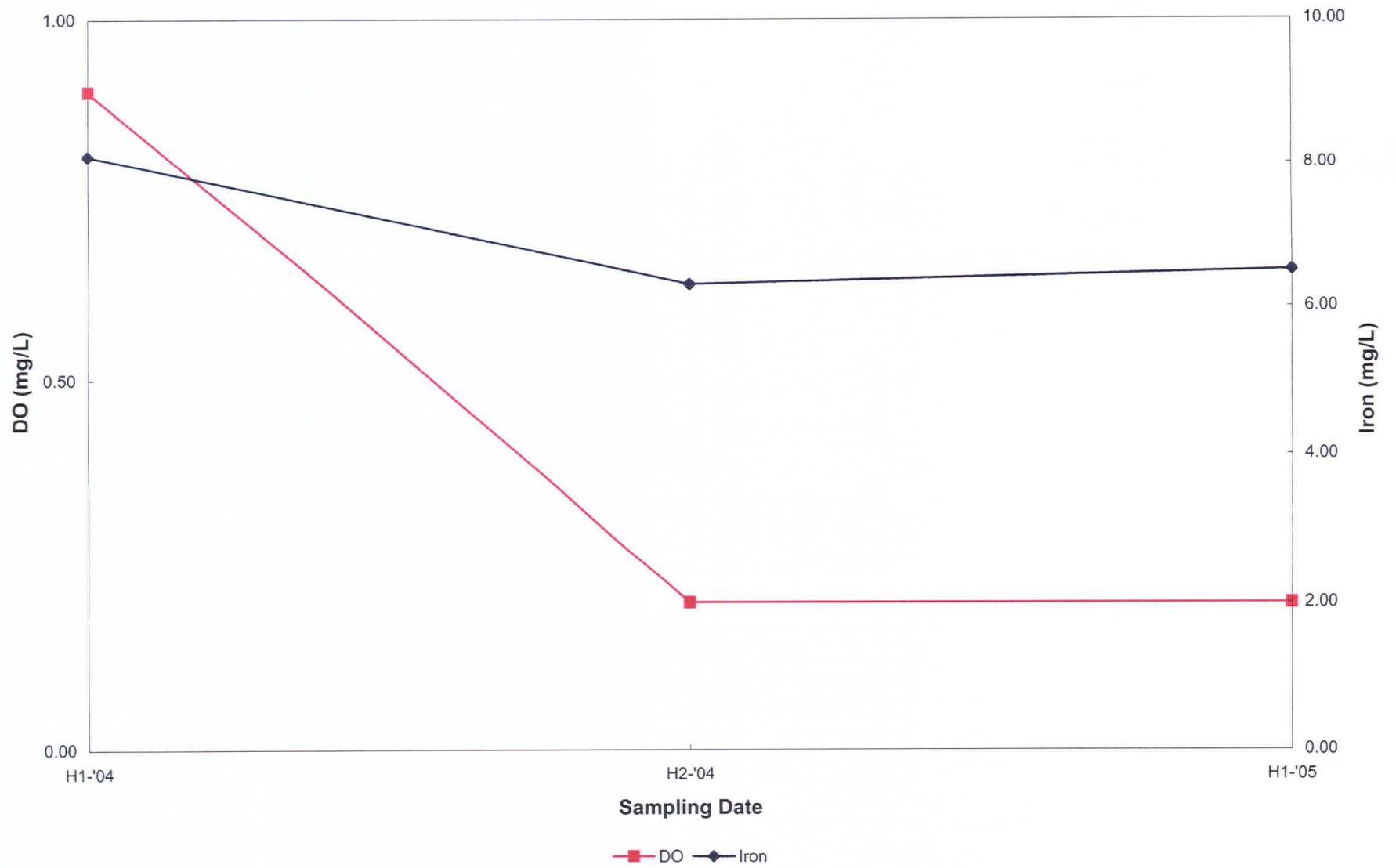
## Monitoring Well MW-2



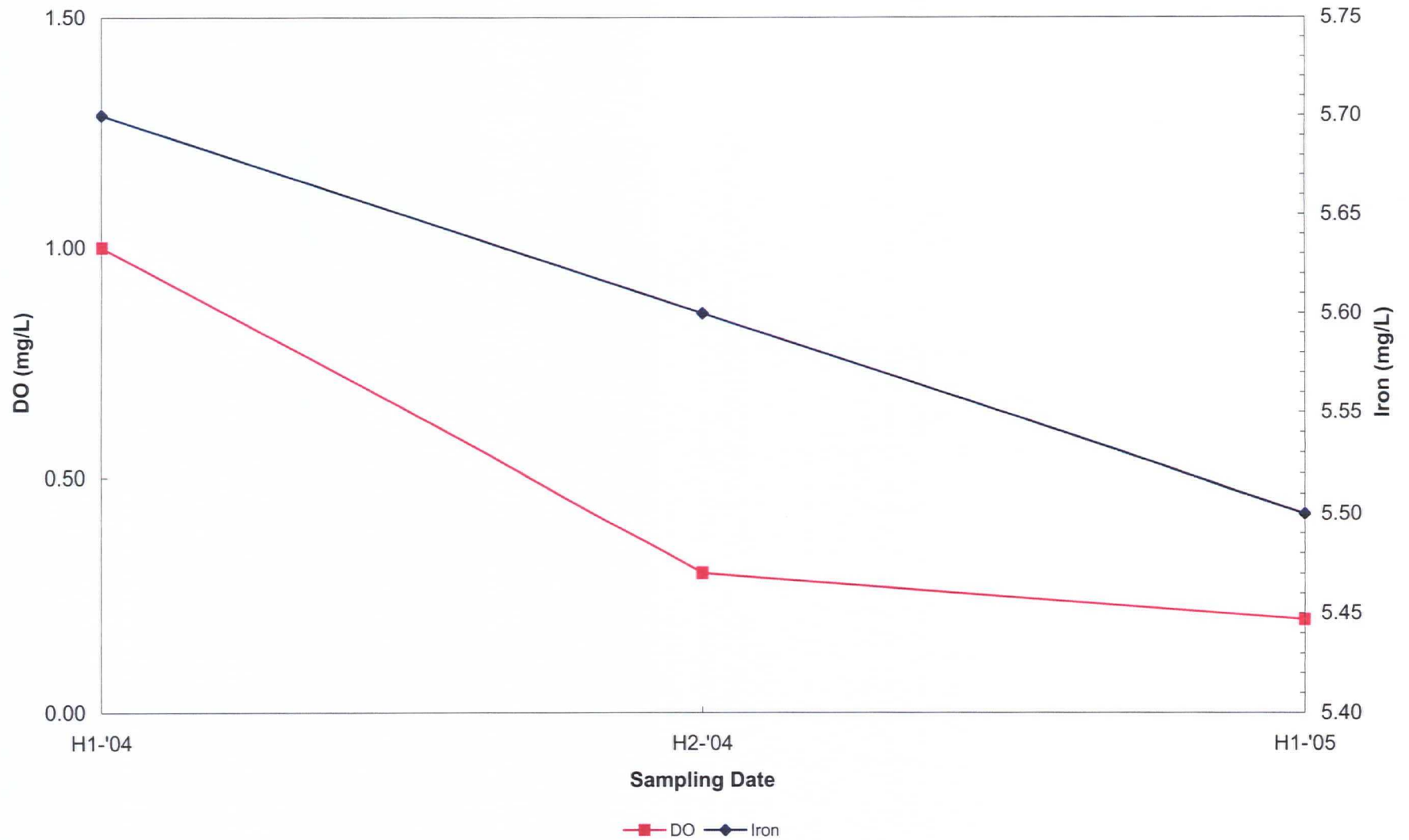
# Monitoring Well MW-5



# Monitoring Well MW-6

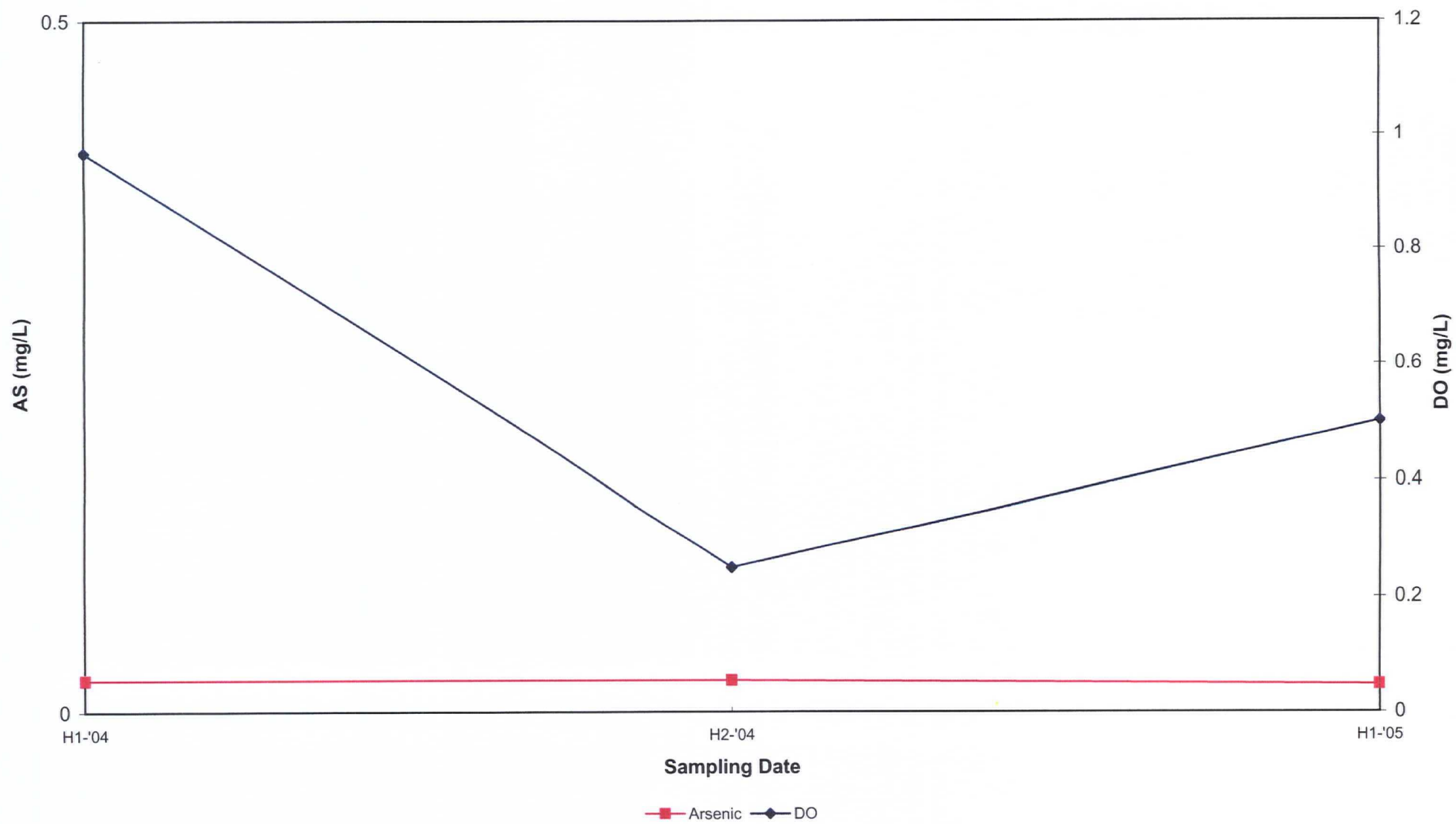


# Monitoring Well SMR-1

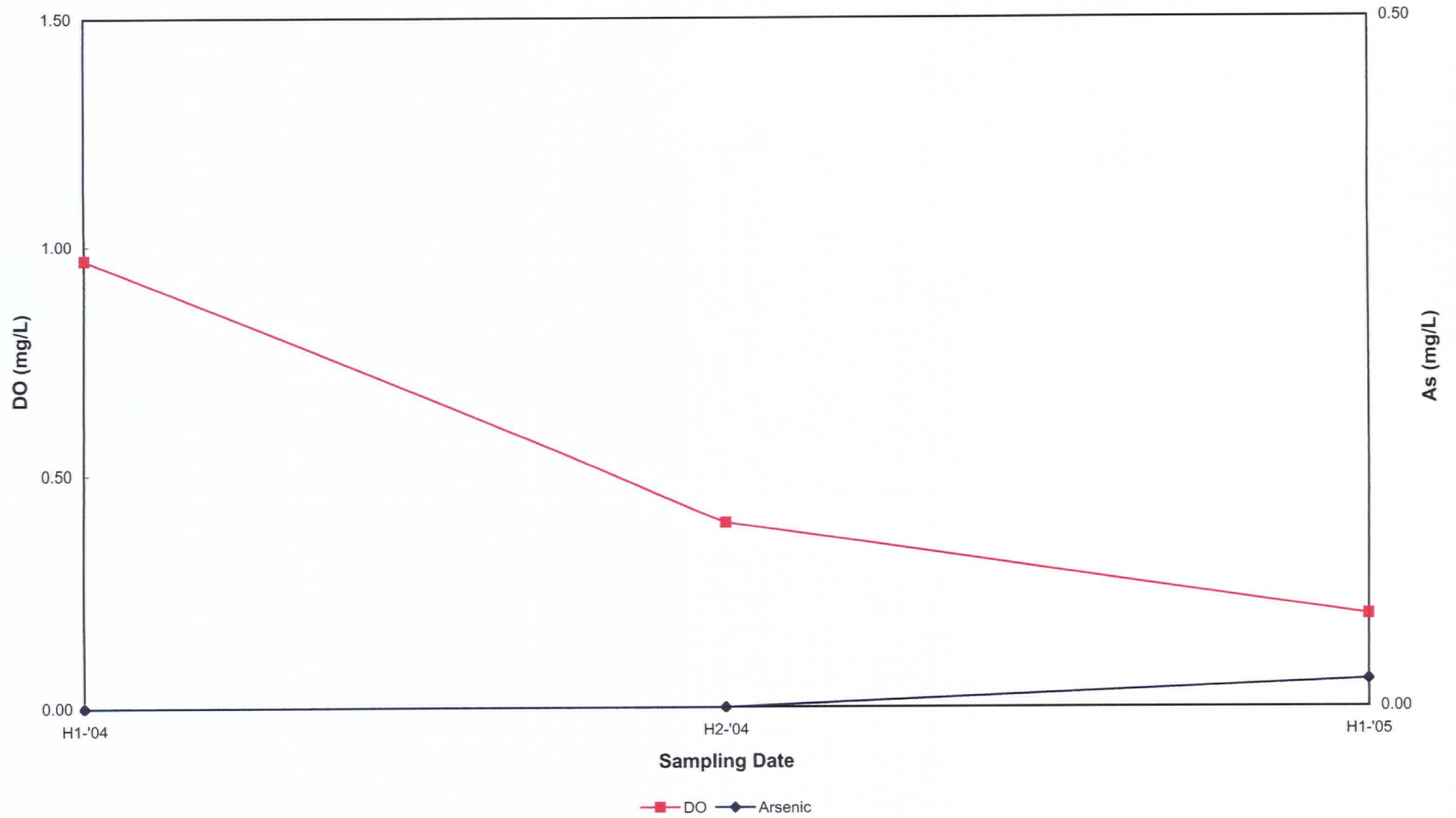


## **B-6 – DO versus Arsenic**

# Monitoring Well CW- 4

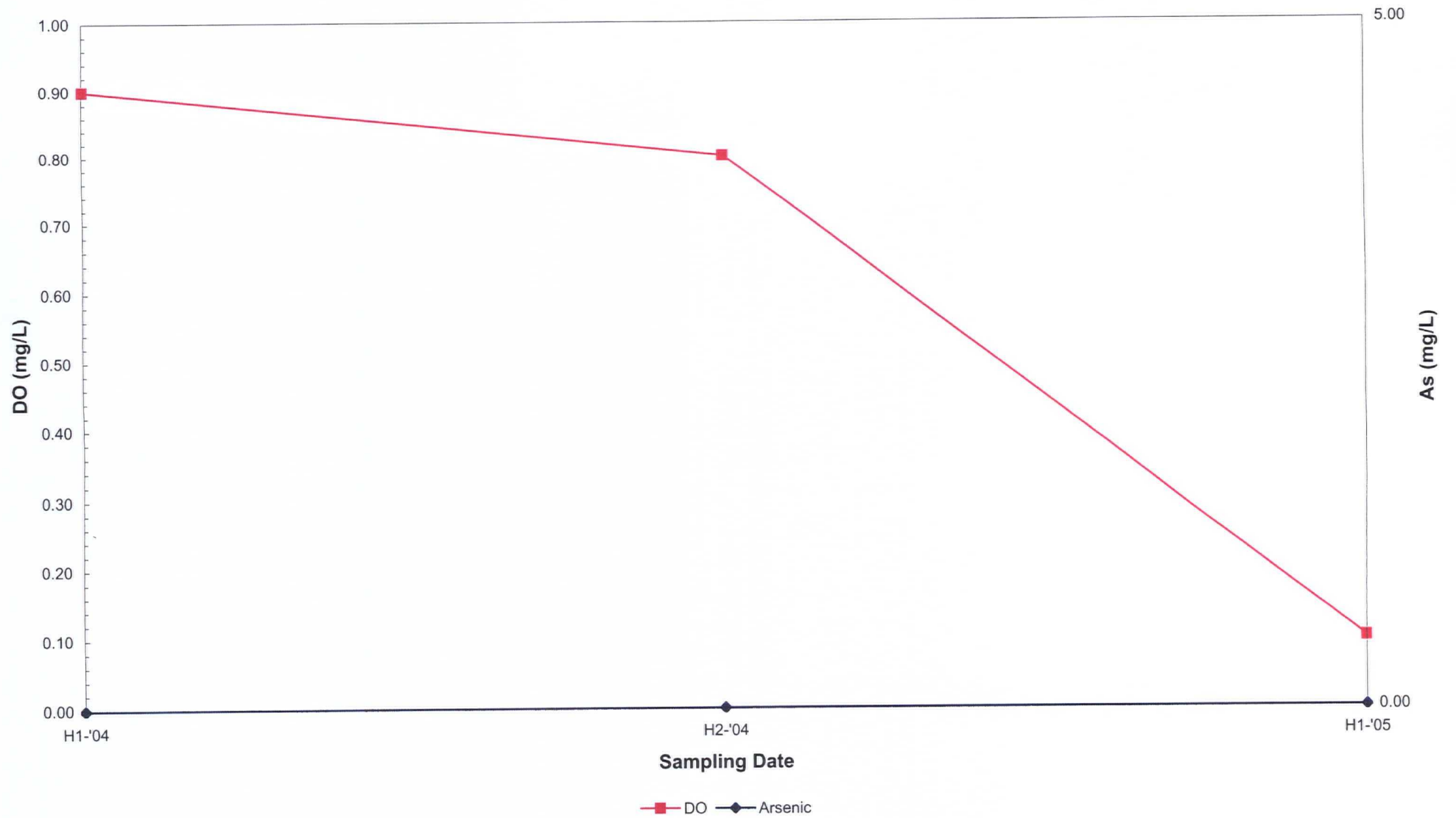


# Monitoring Well CW- 5A

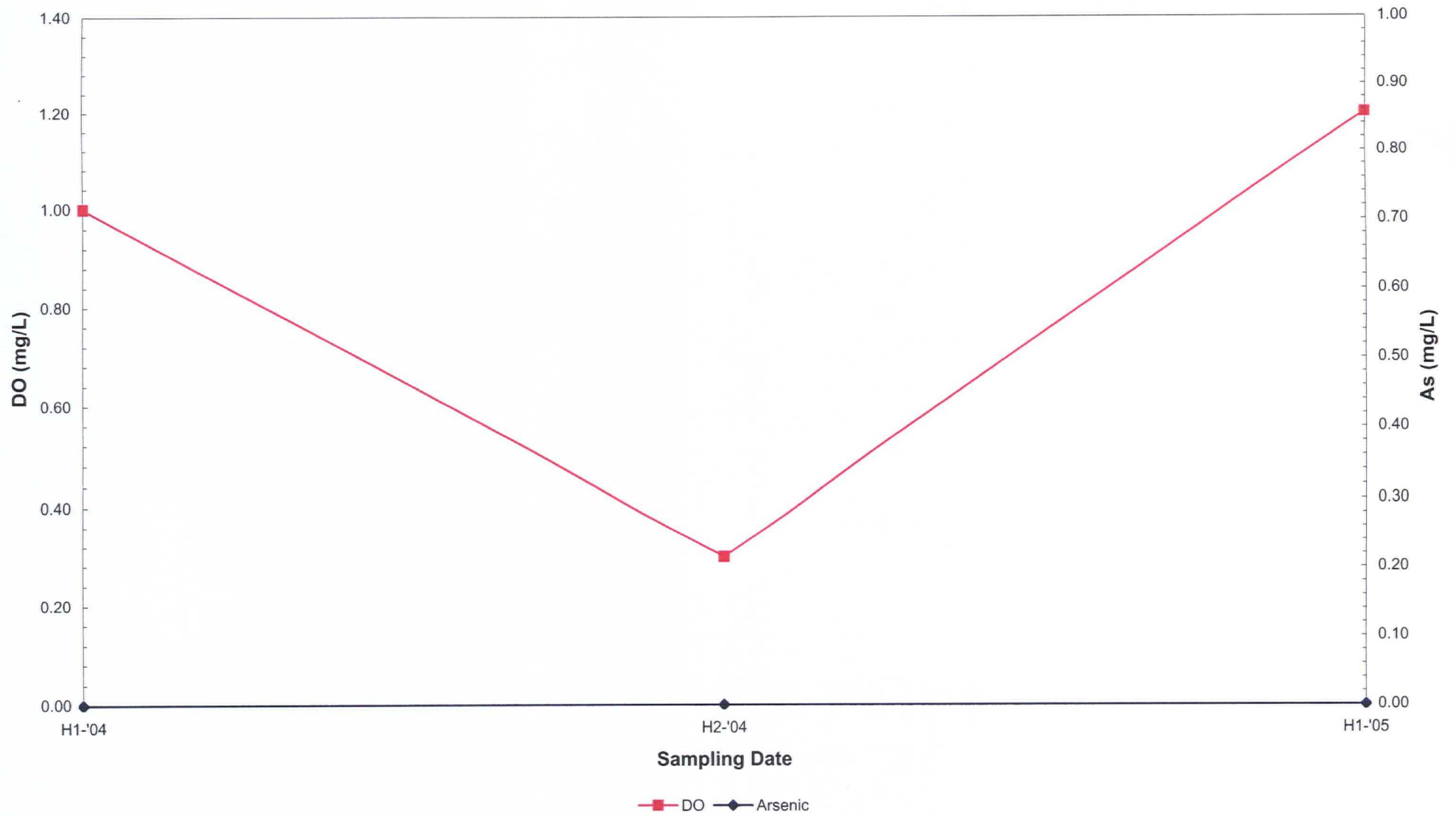




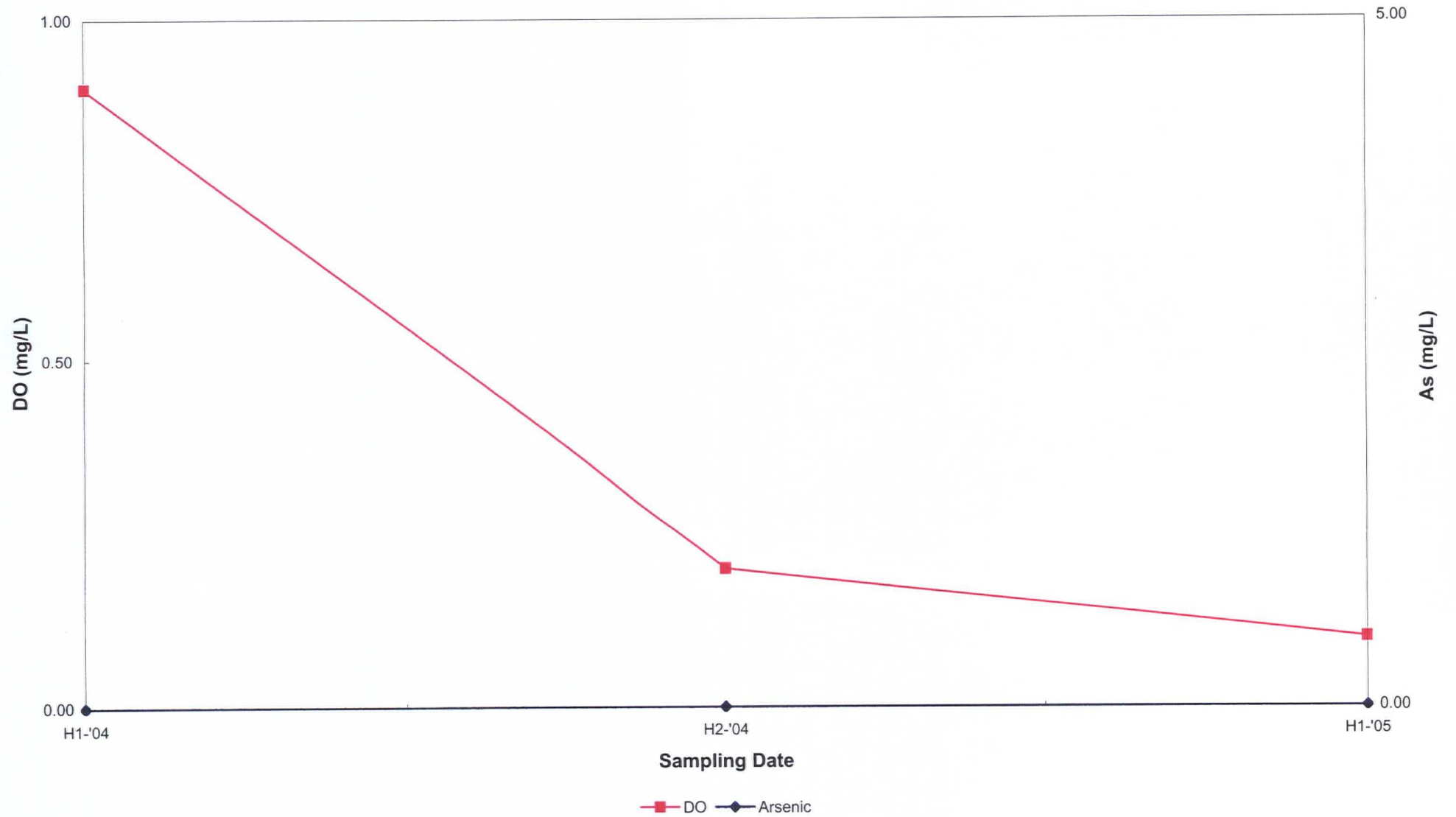
# Monitoring Well GC-1A



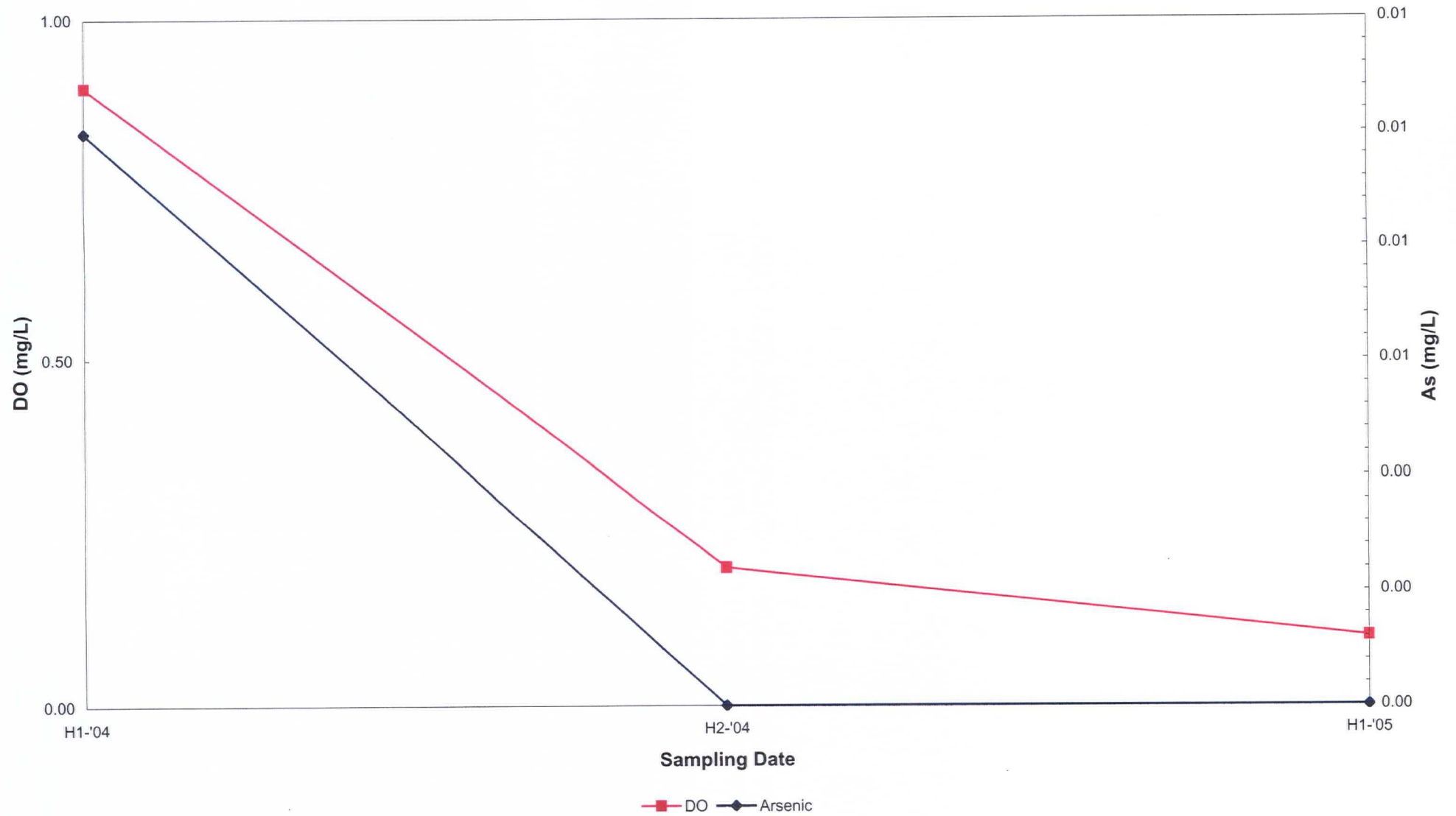
# Monitoring Well GC-2



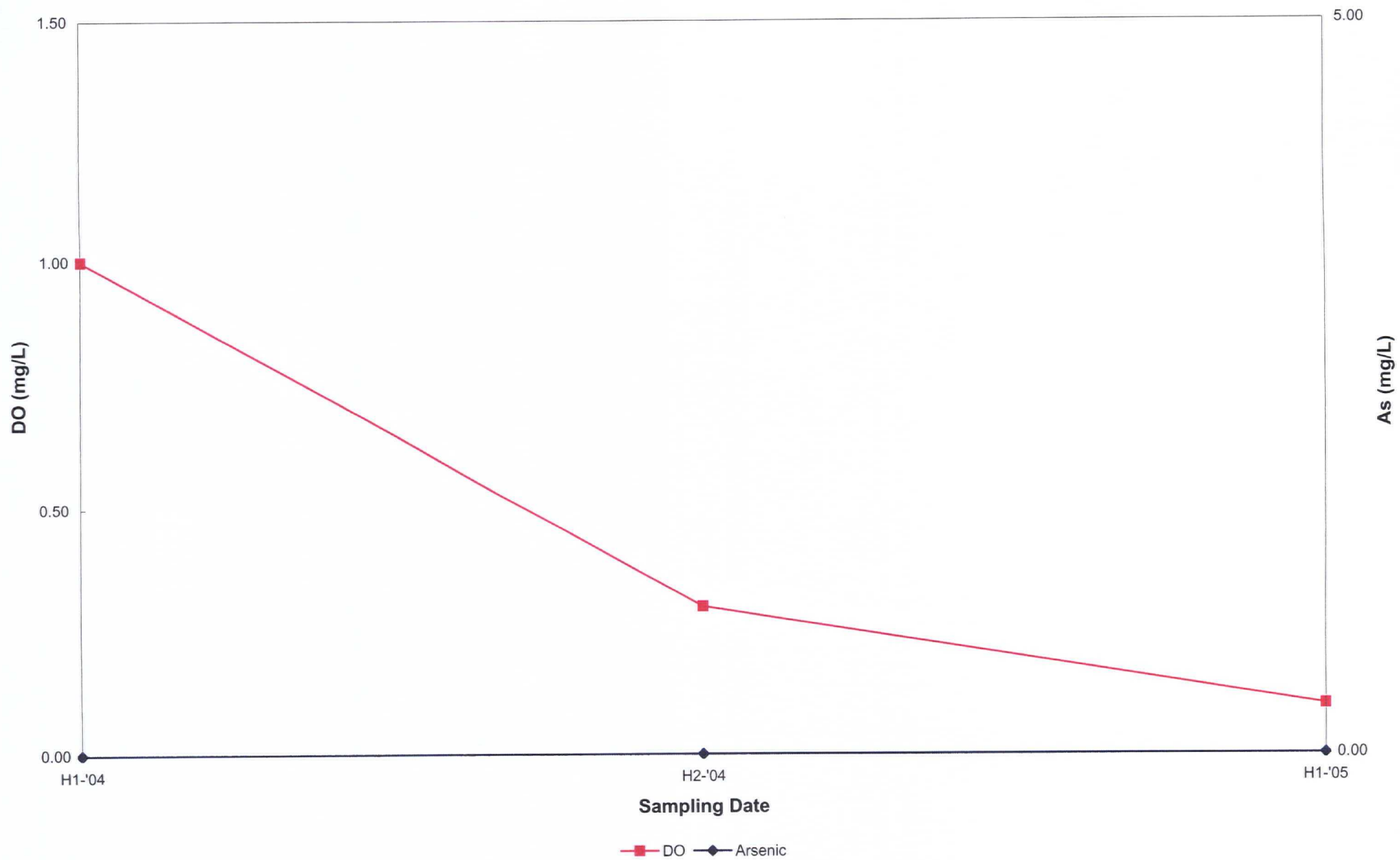
# Monitoring Well GC-3



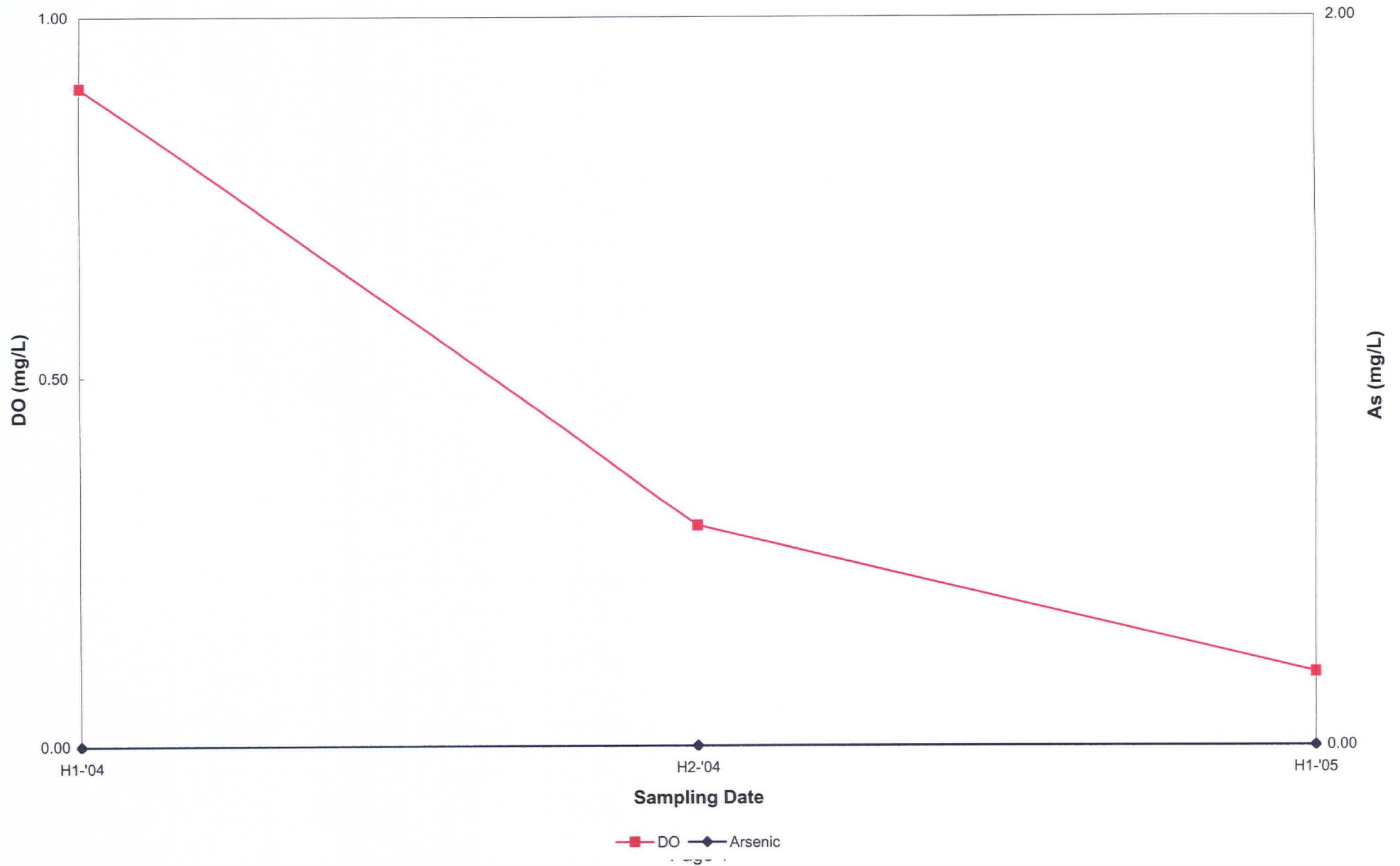
# Monitoring Well GC-4



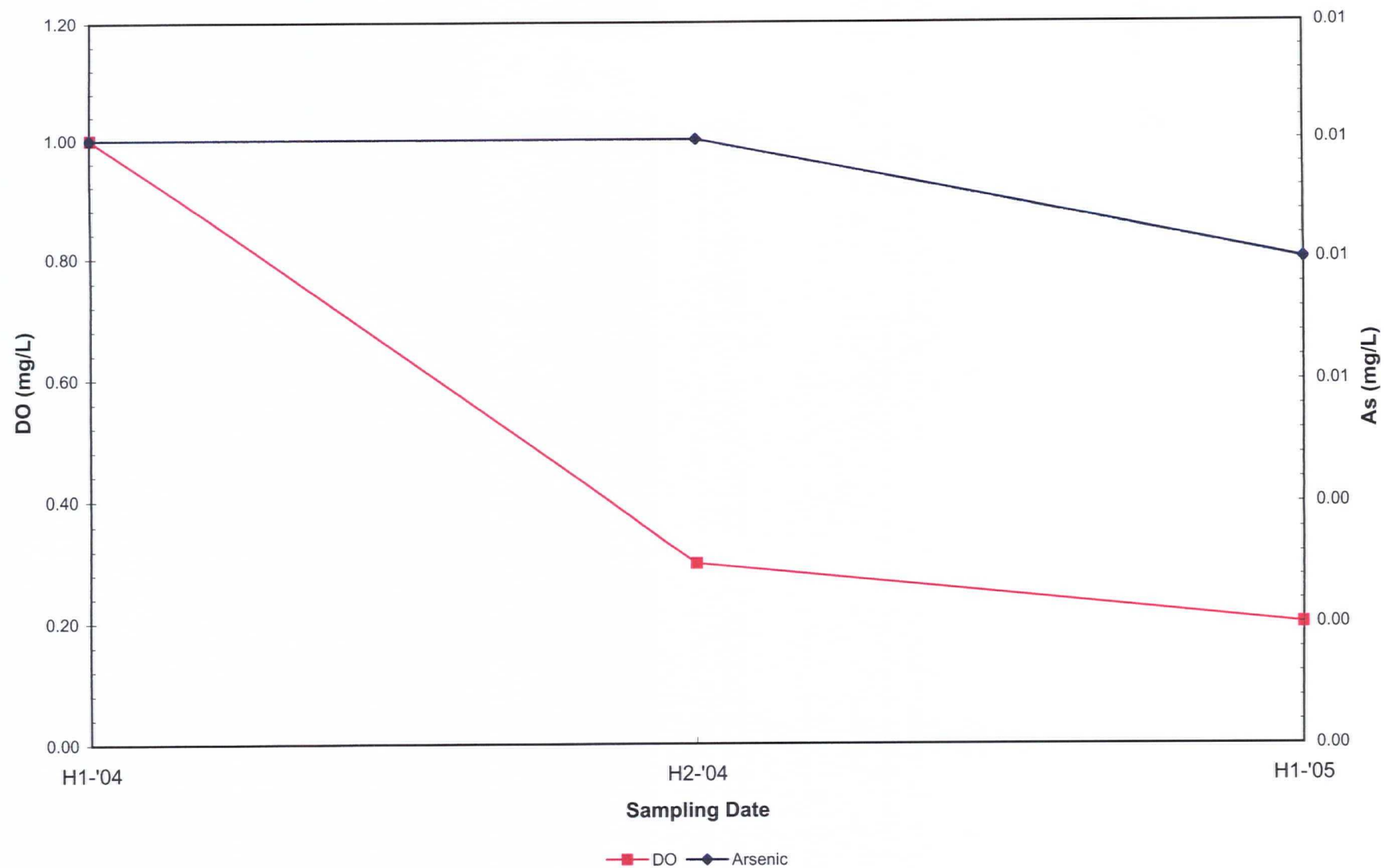
# Monitoring Well GC- 5



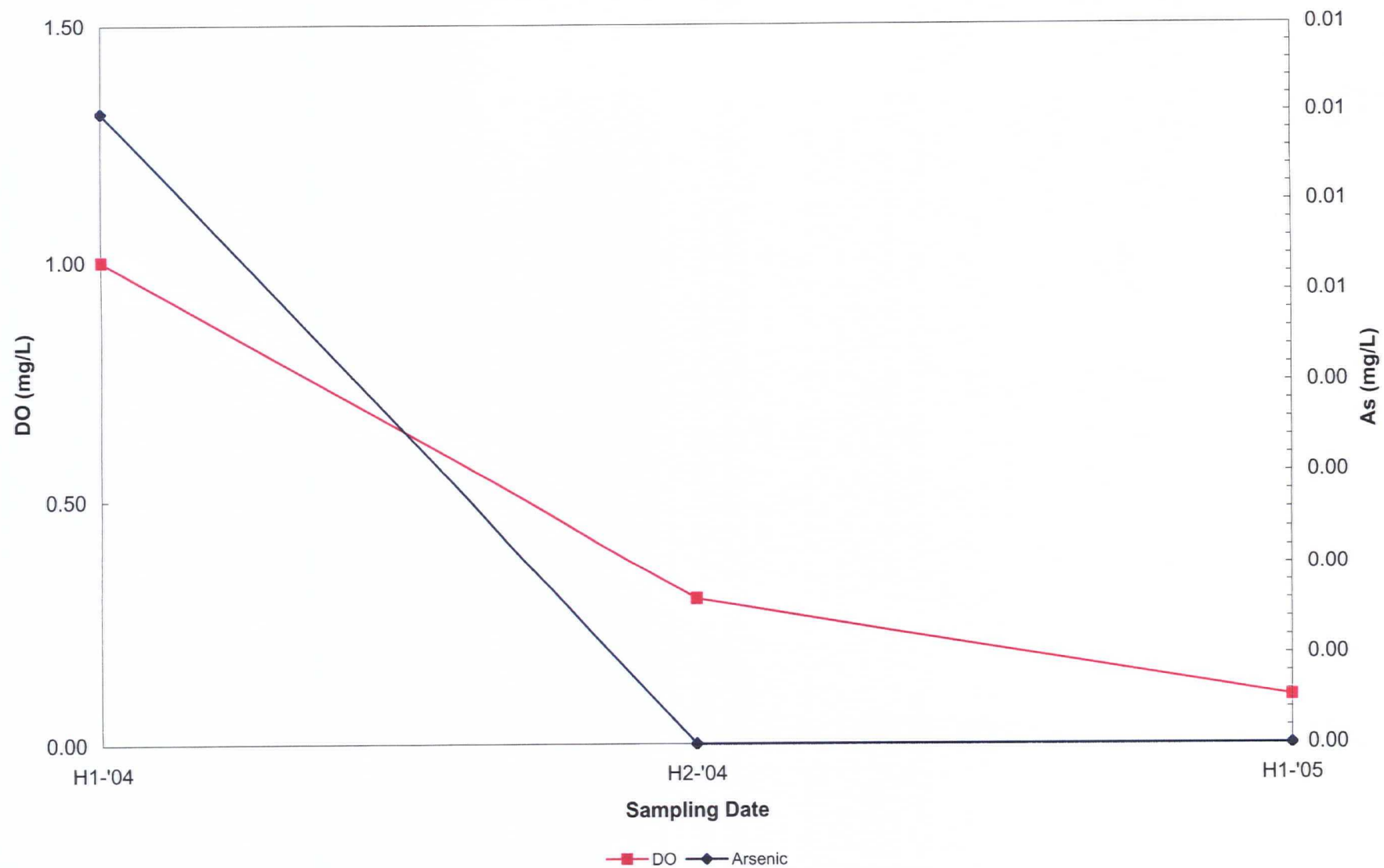
# Monitoring Well GC-6



# Monitoring Well LR11-1

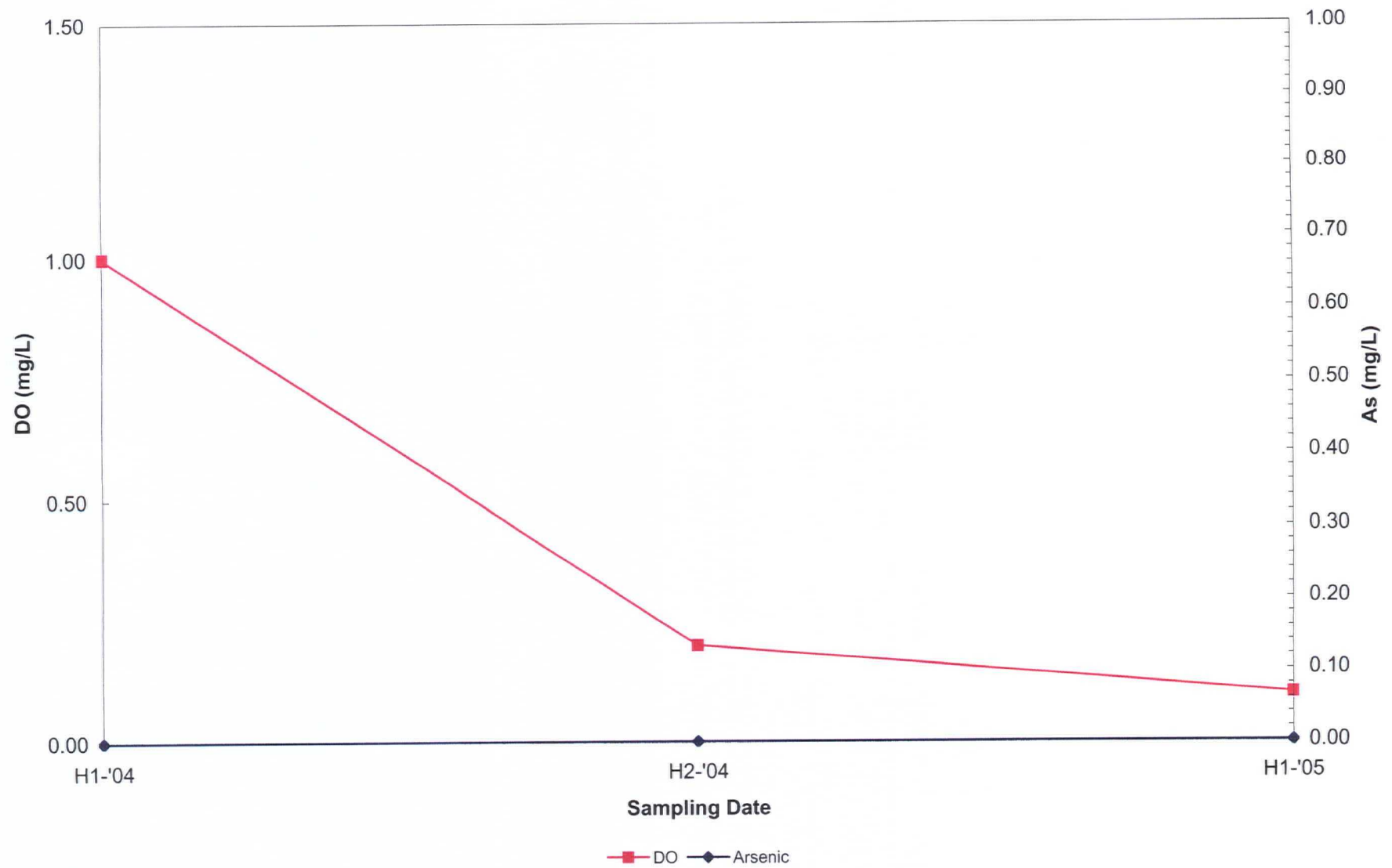


# Monitoring Well LR11-2

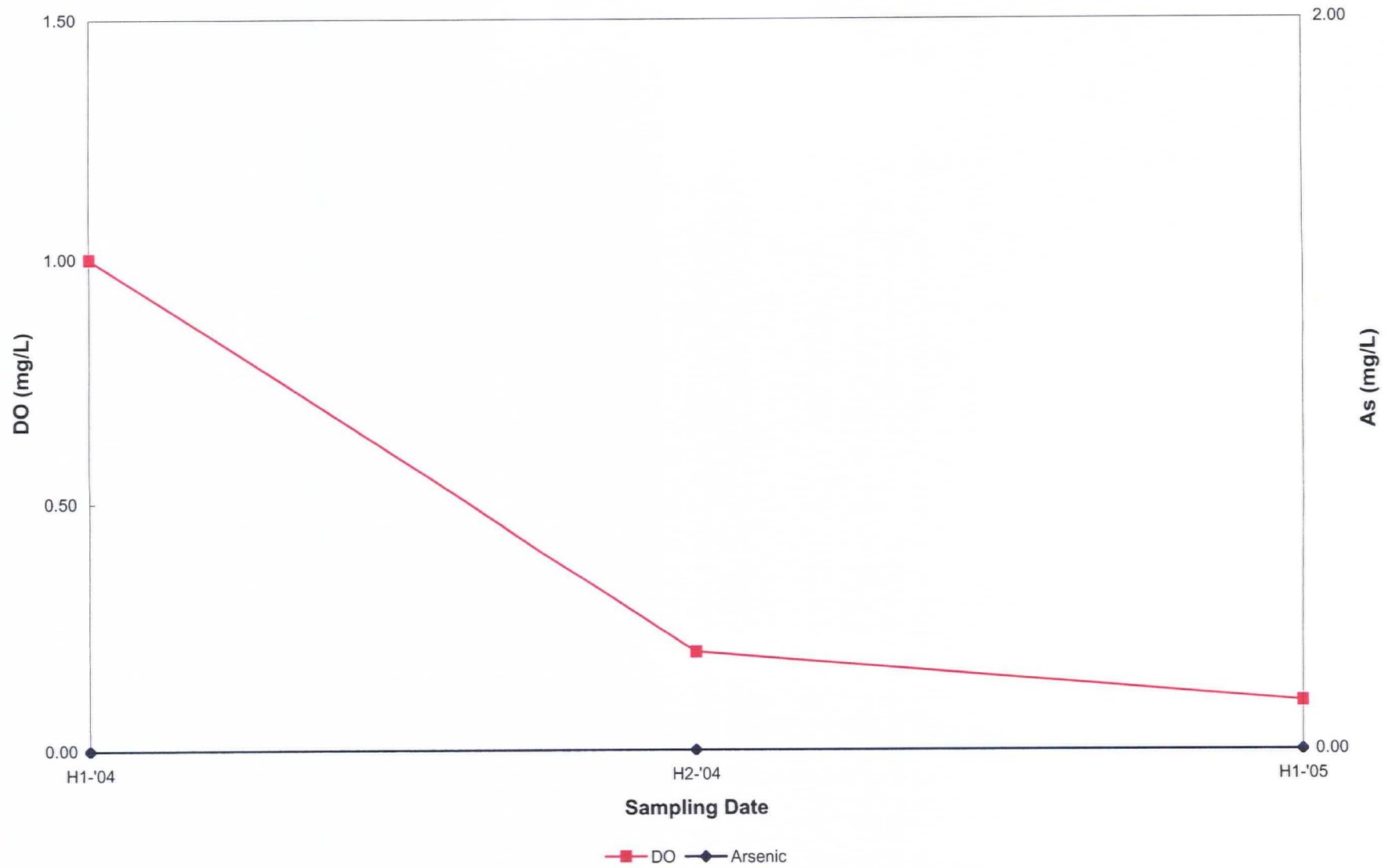




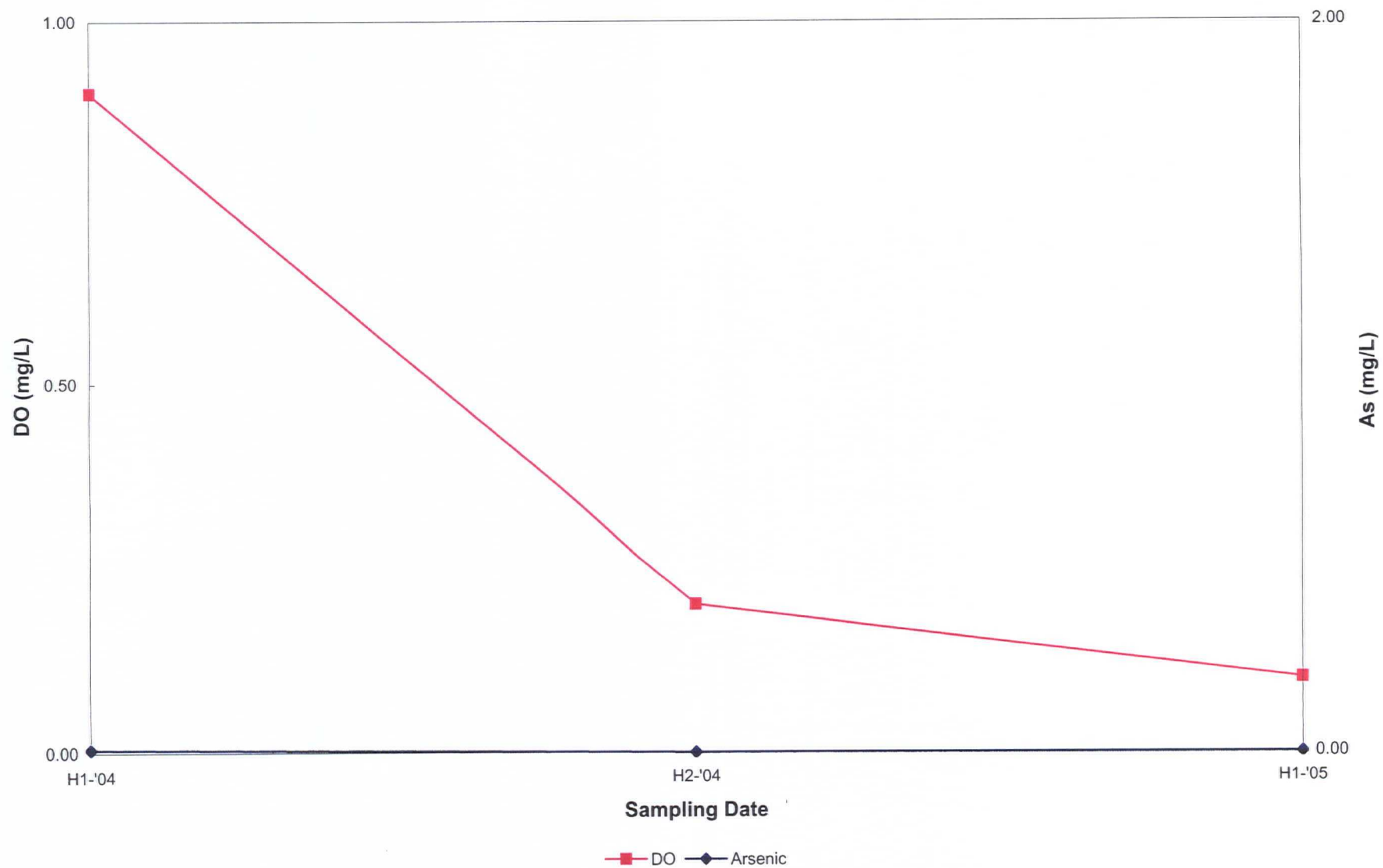
### Monitoring Well LR11-3



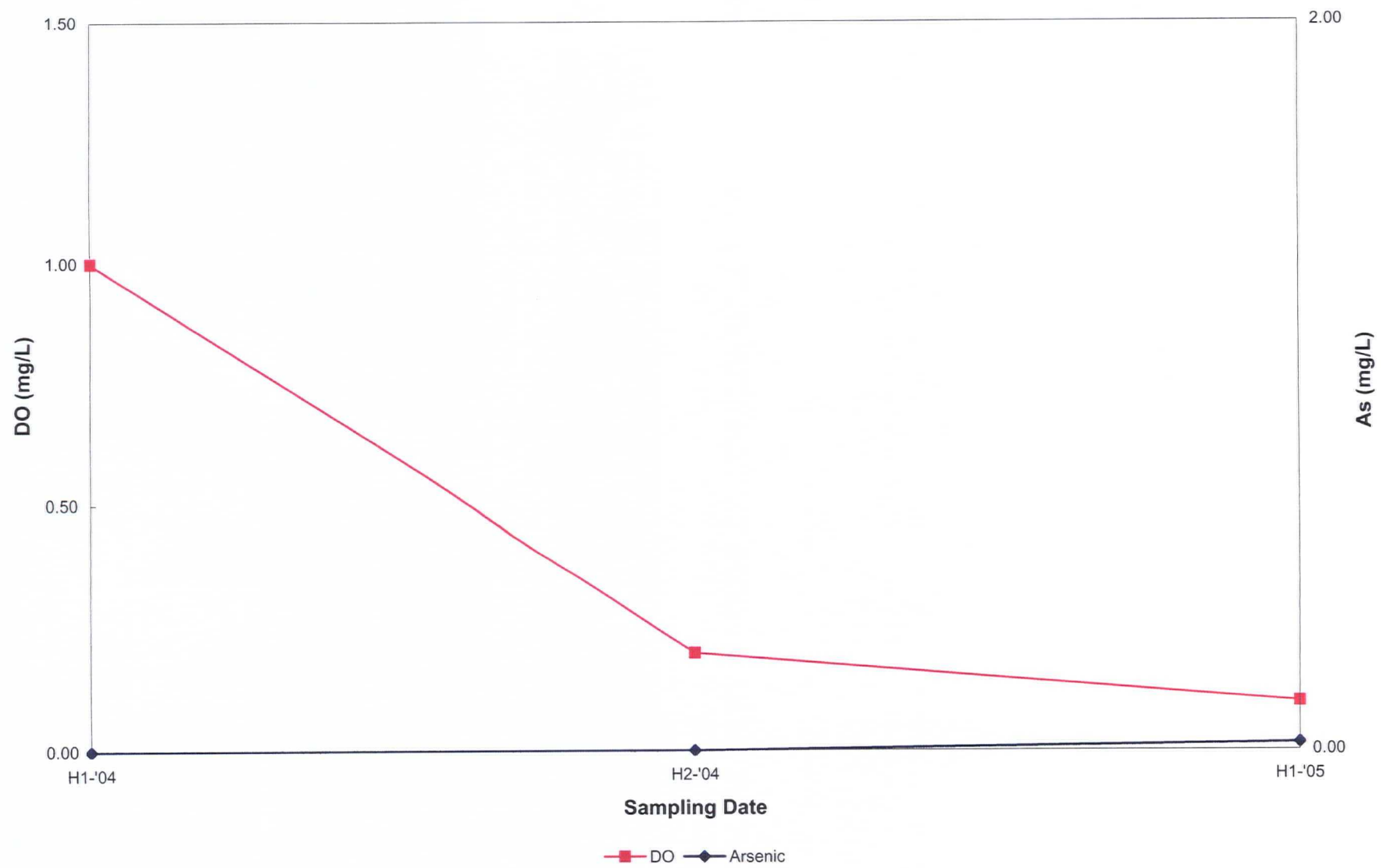
# Monitoring Well LR11-4



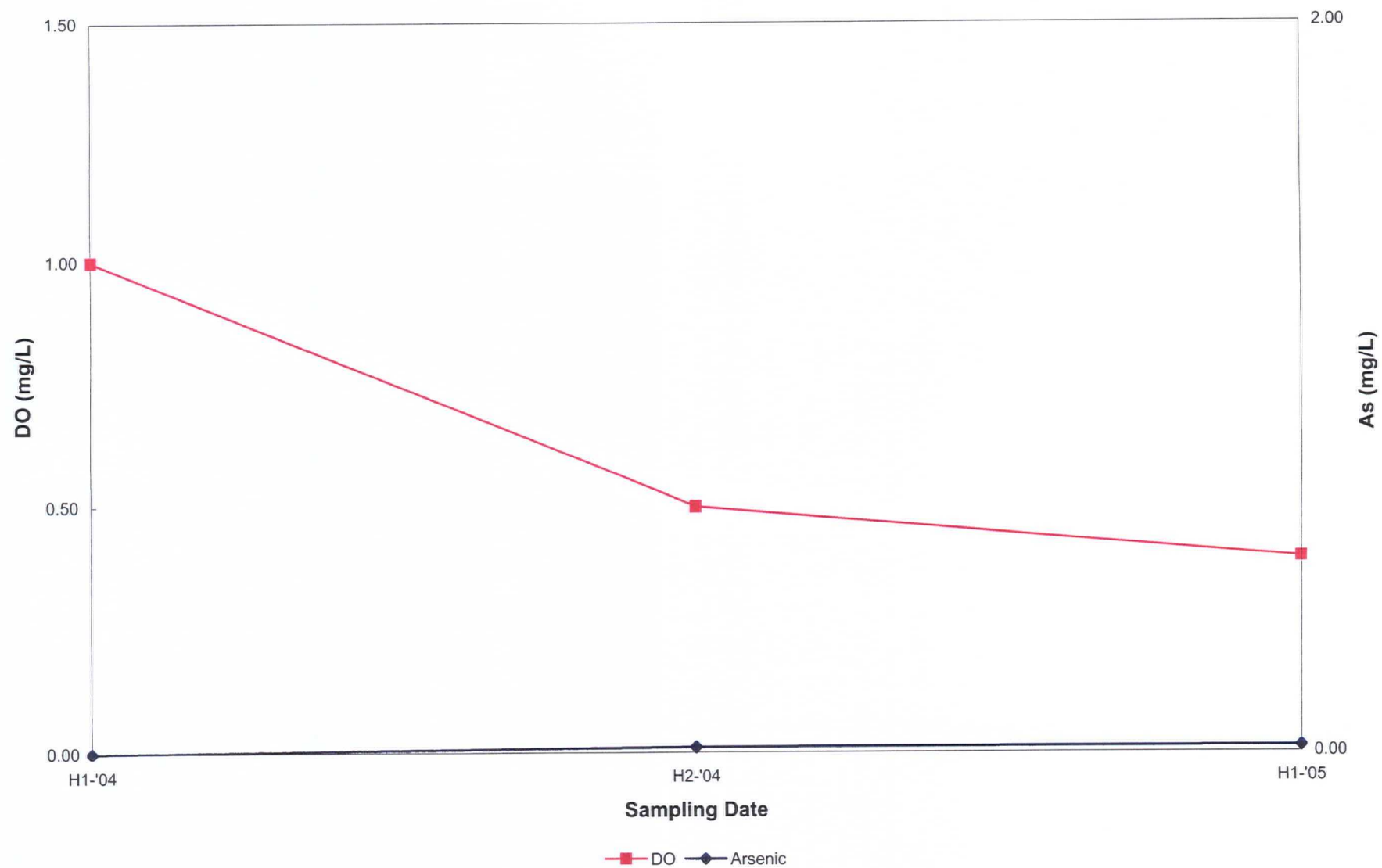
# Monitoring Well LR11-5



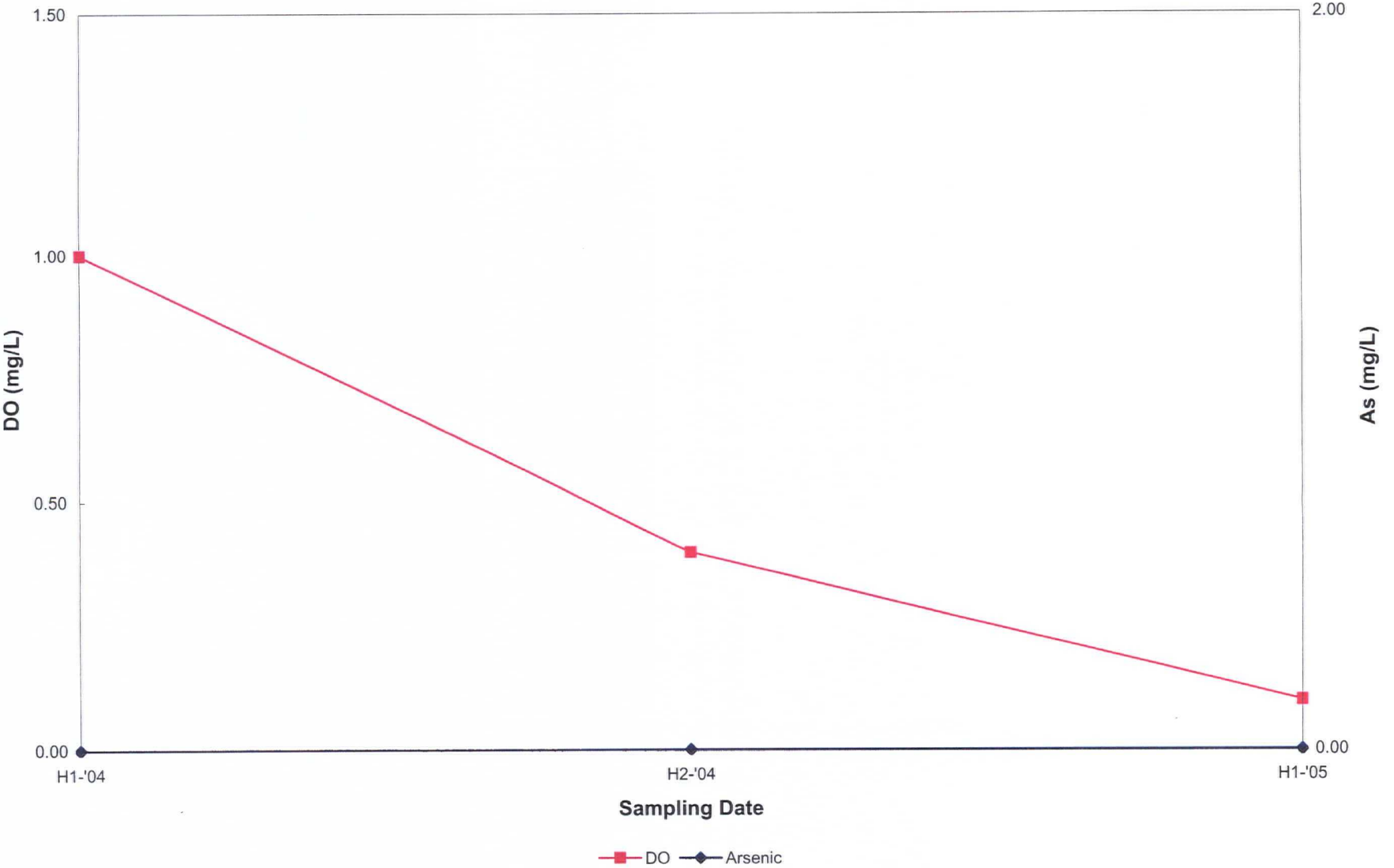
# Monitoring Well MW-1



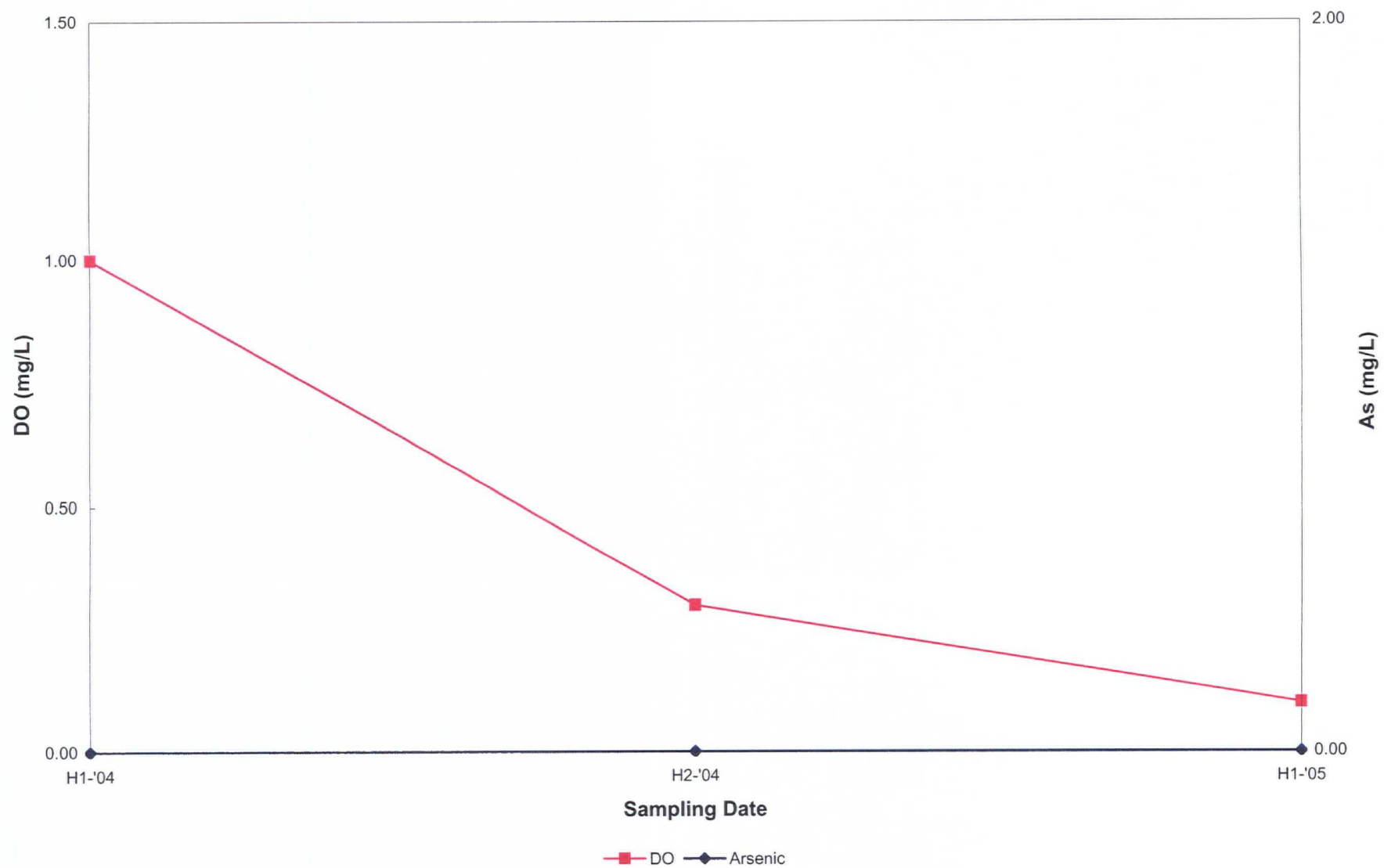
## Monitoring Well MW-2



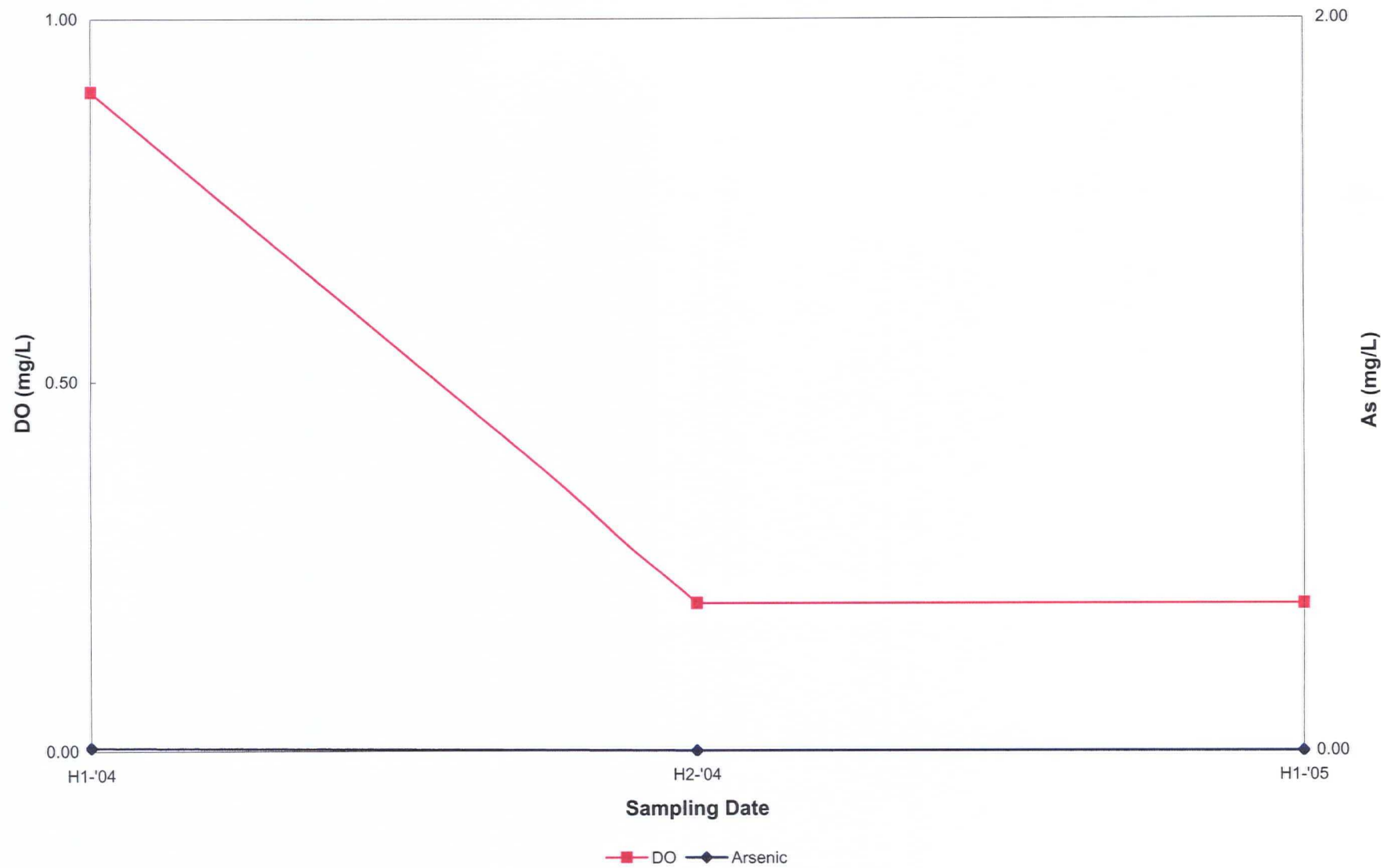
Monitoring Well MW-3



# Monitoring Well MW-5

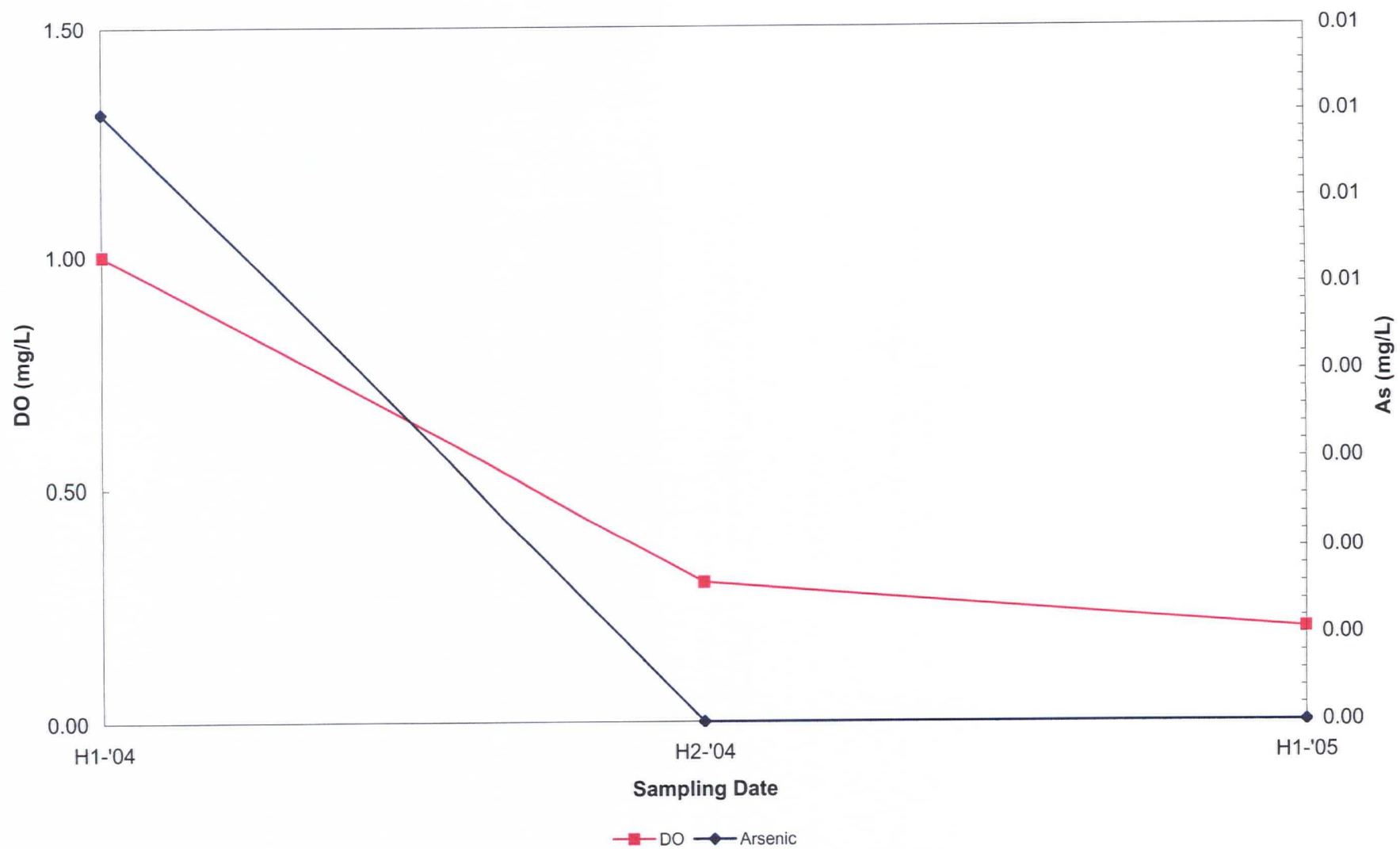


# Monitoring Well MW-6

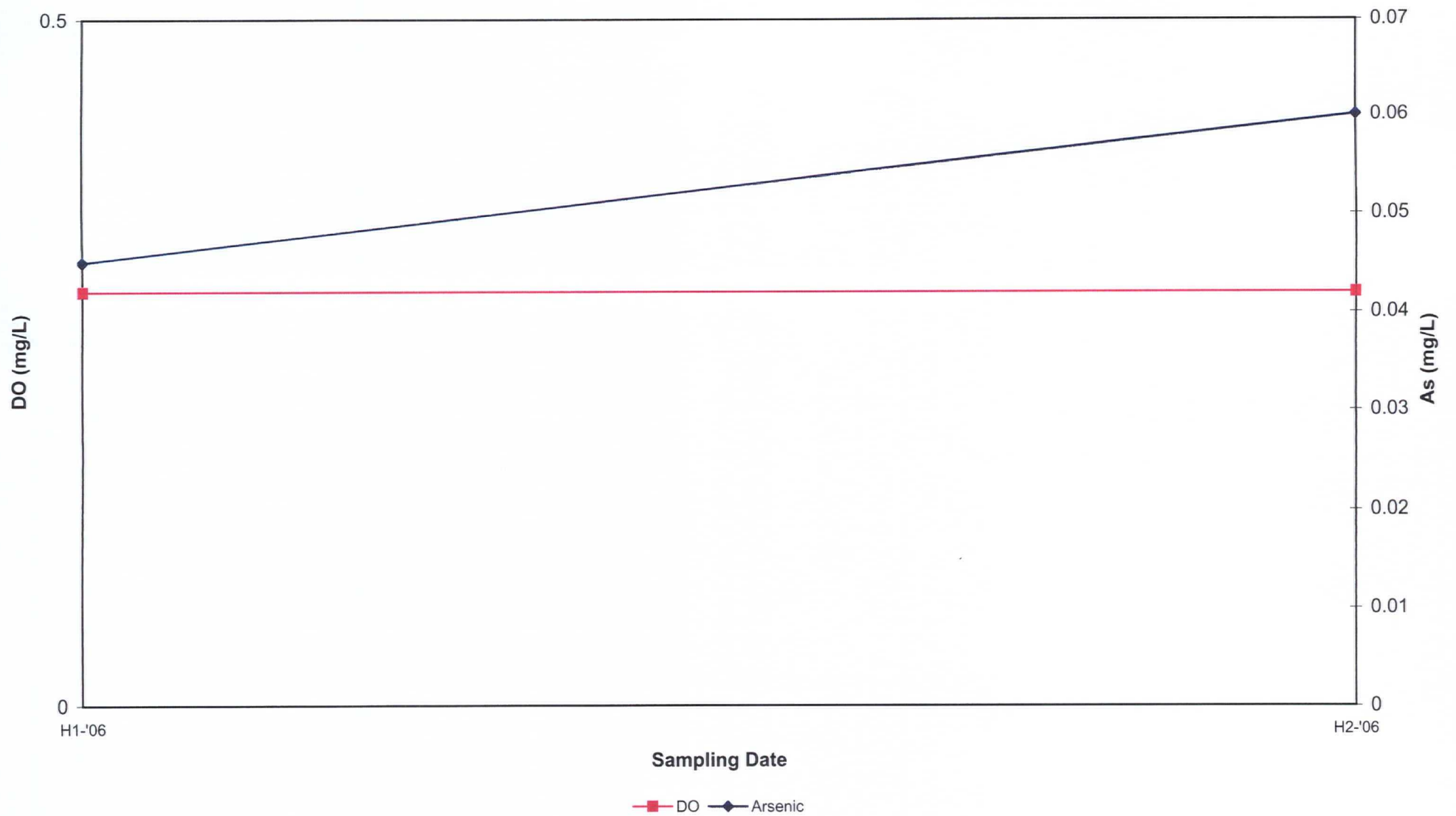




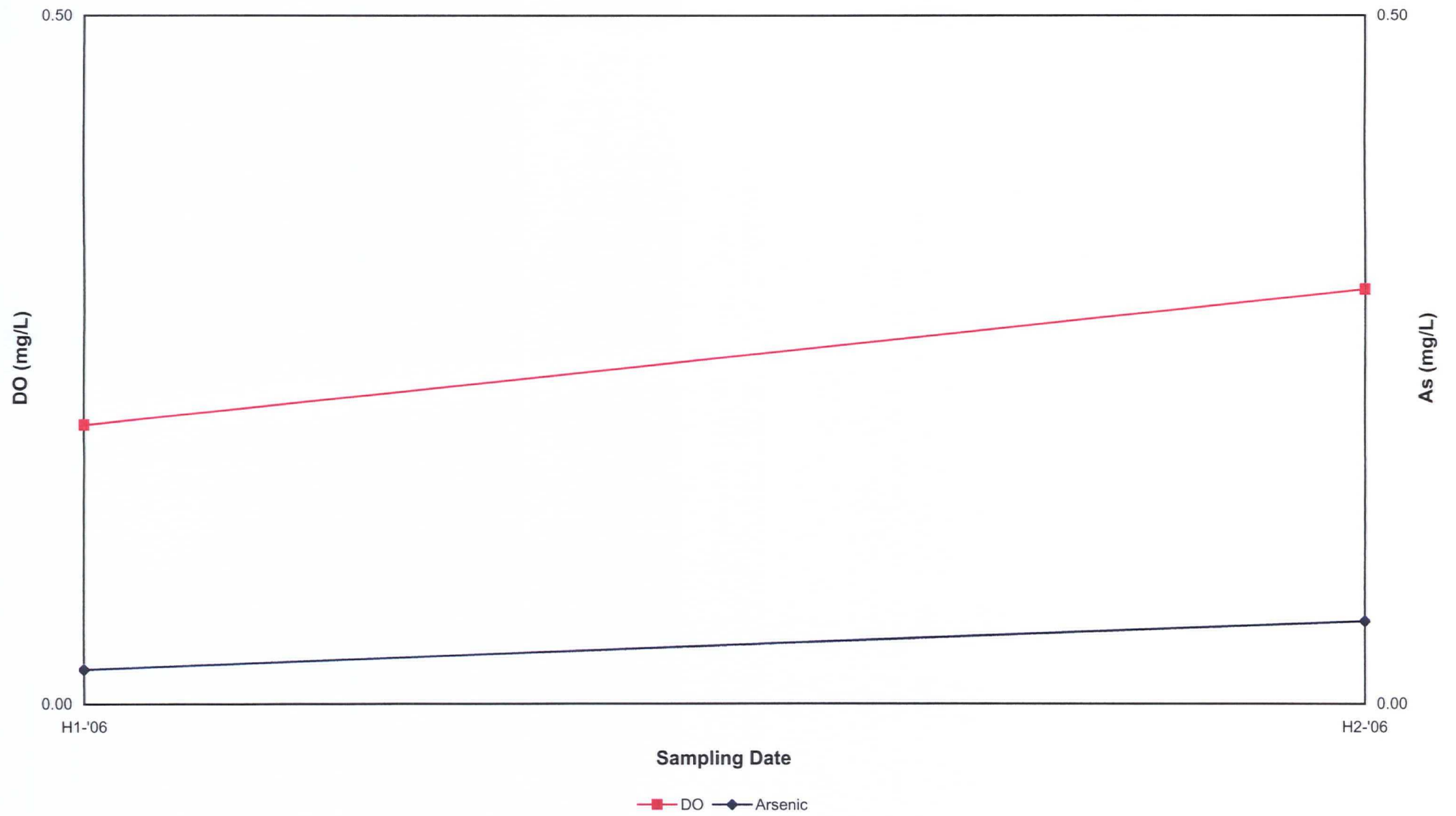
# Monitoring Well SMR-1



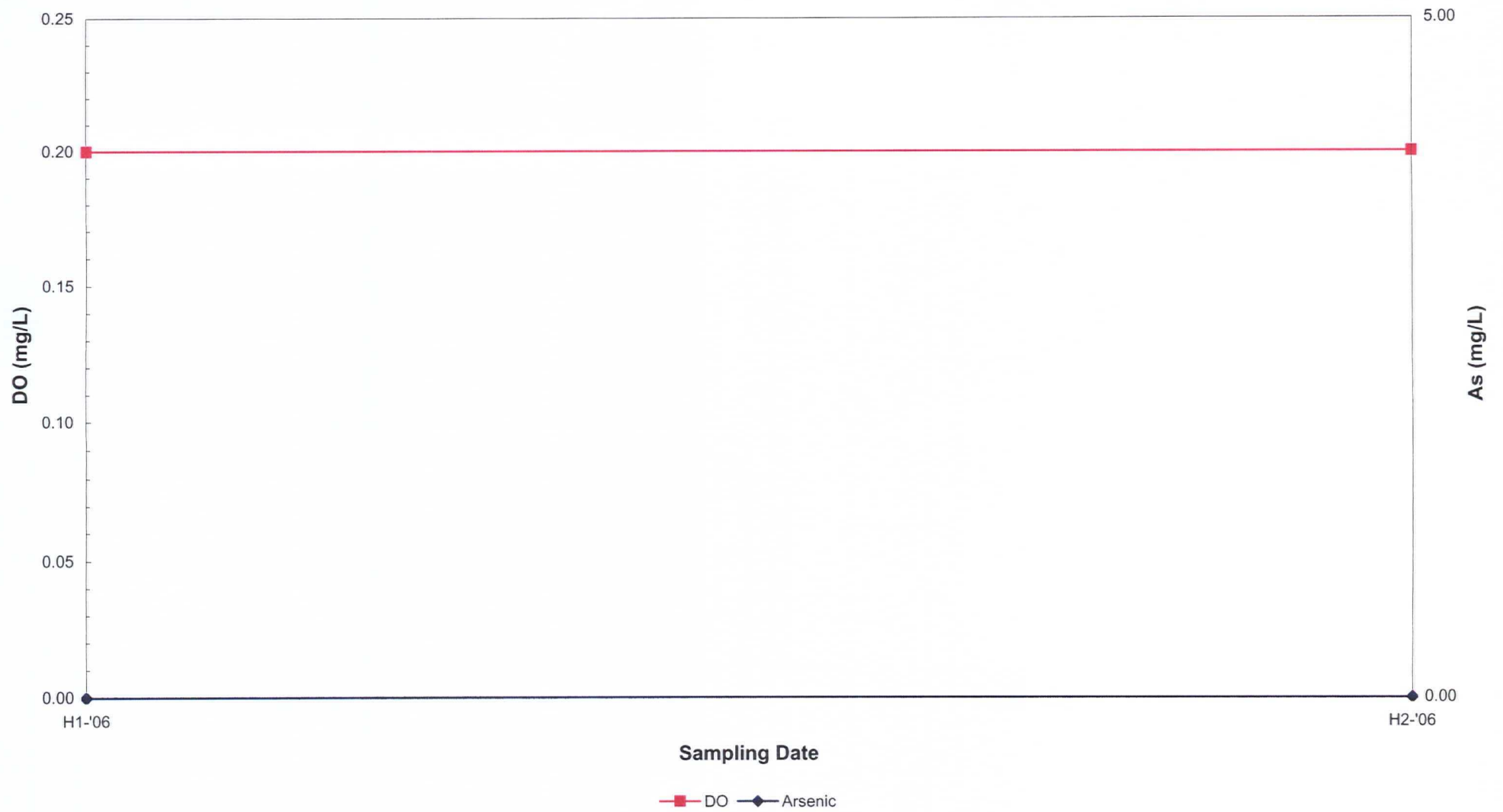
# Monitoring Well GW- 1



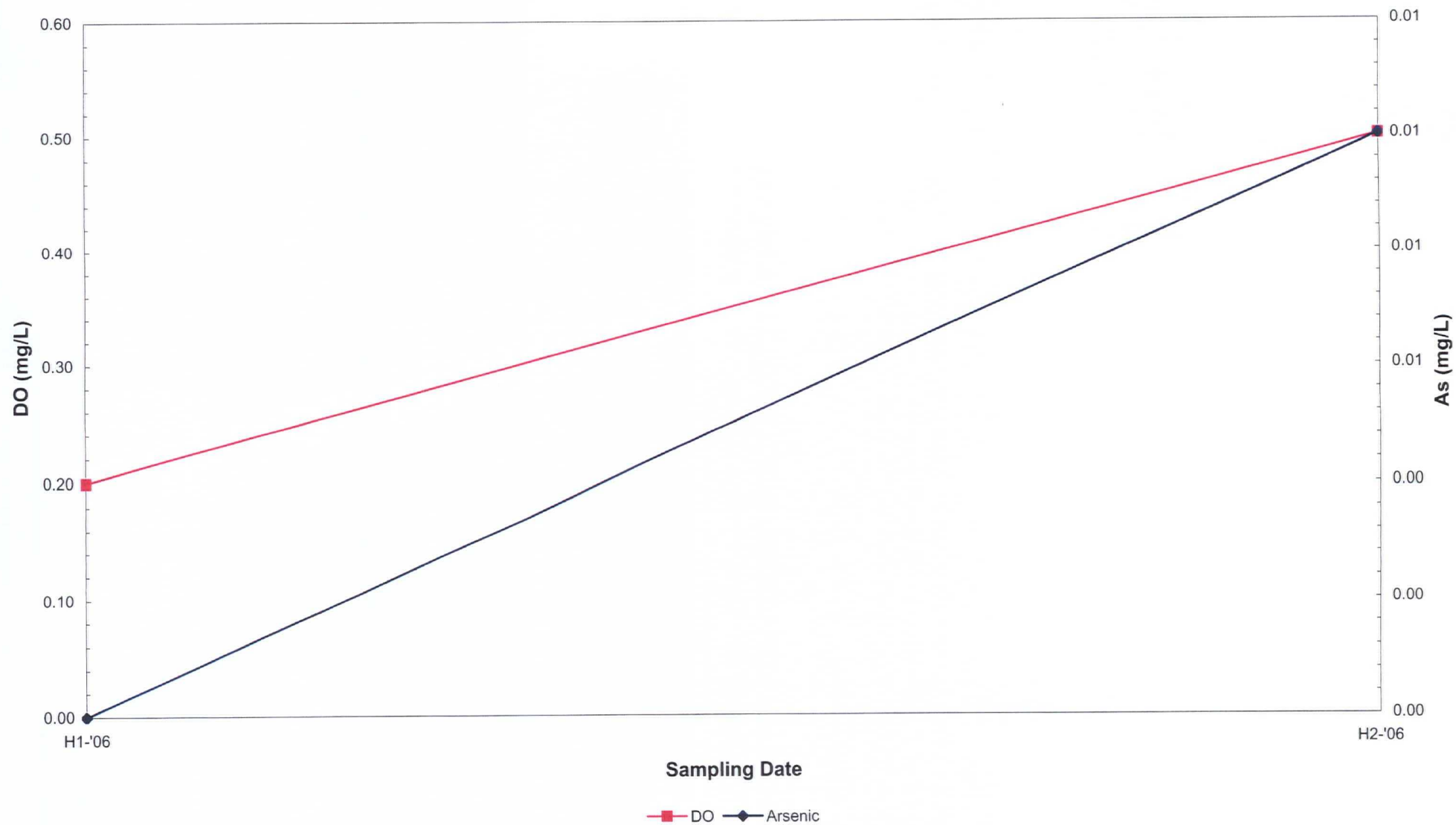
# Monitoring Well GW- 2



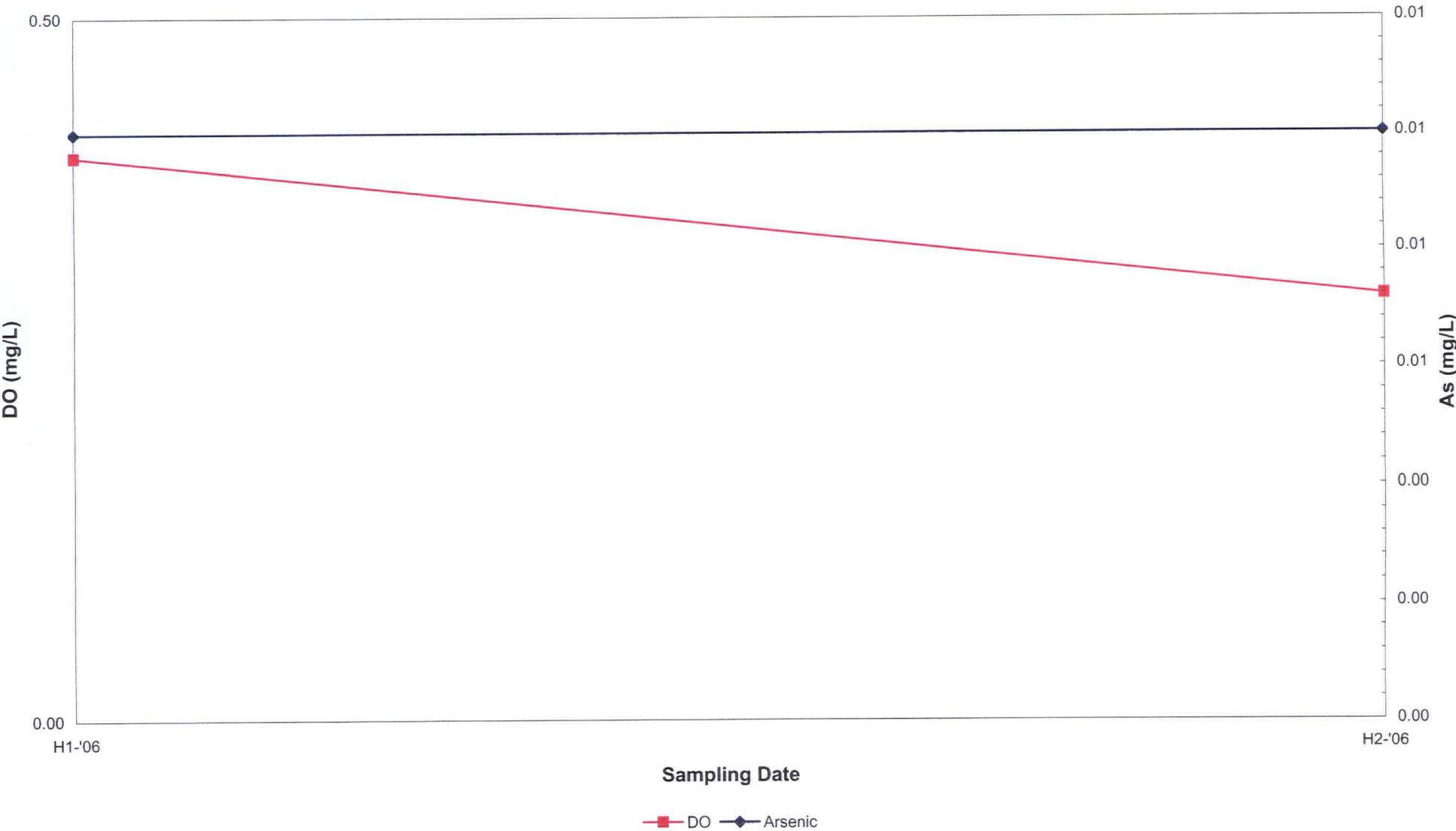
# Monitoring Well GW-3



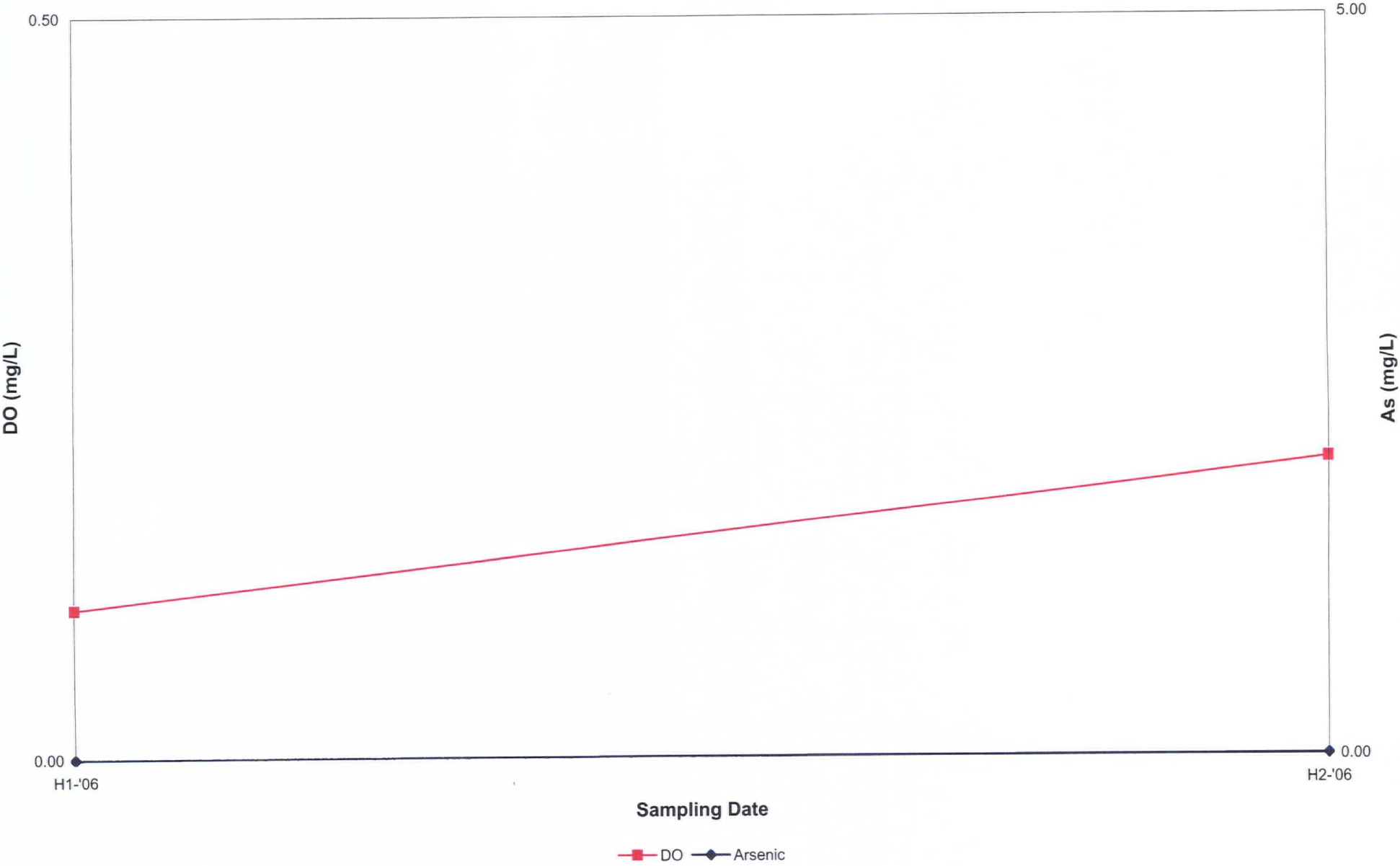
# Monitoring Well GW-4



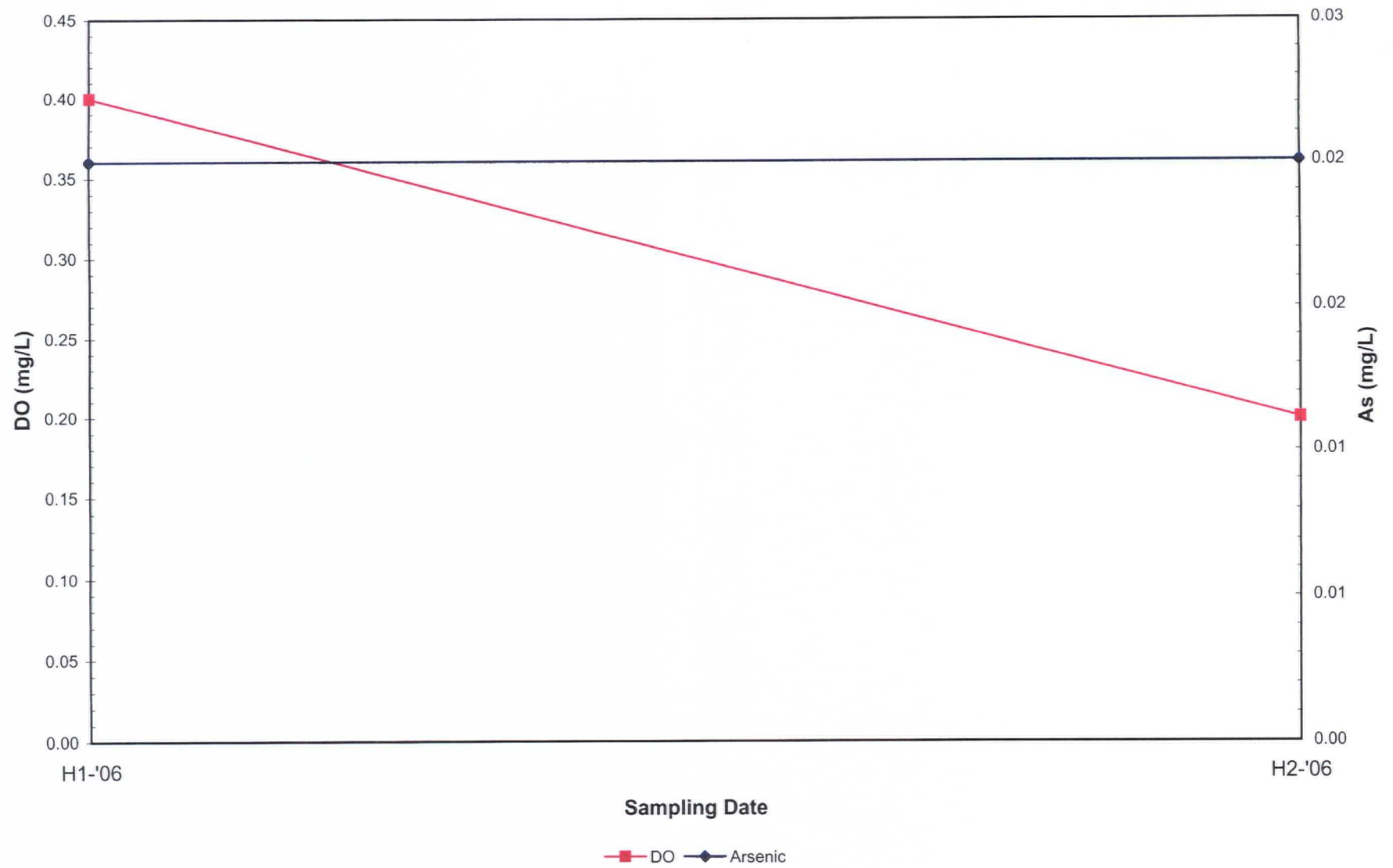
Monitoring Well GW-6



Monitoring Well GW-7

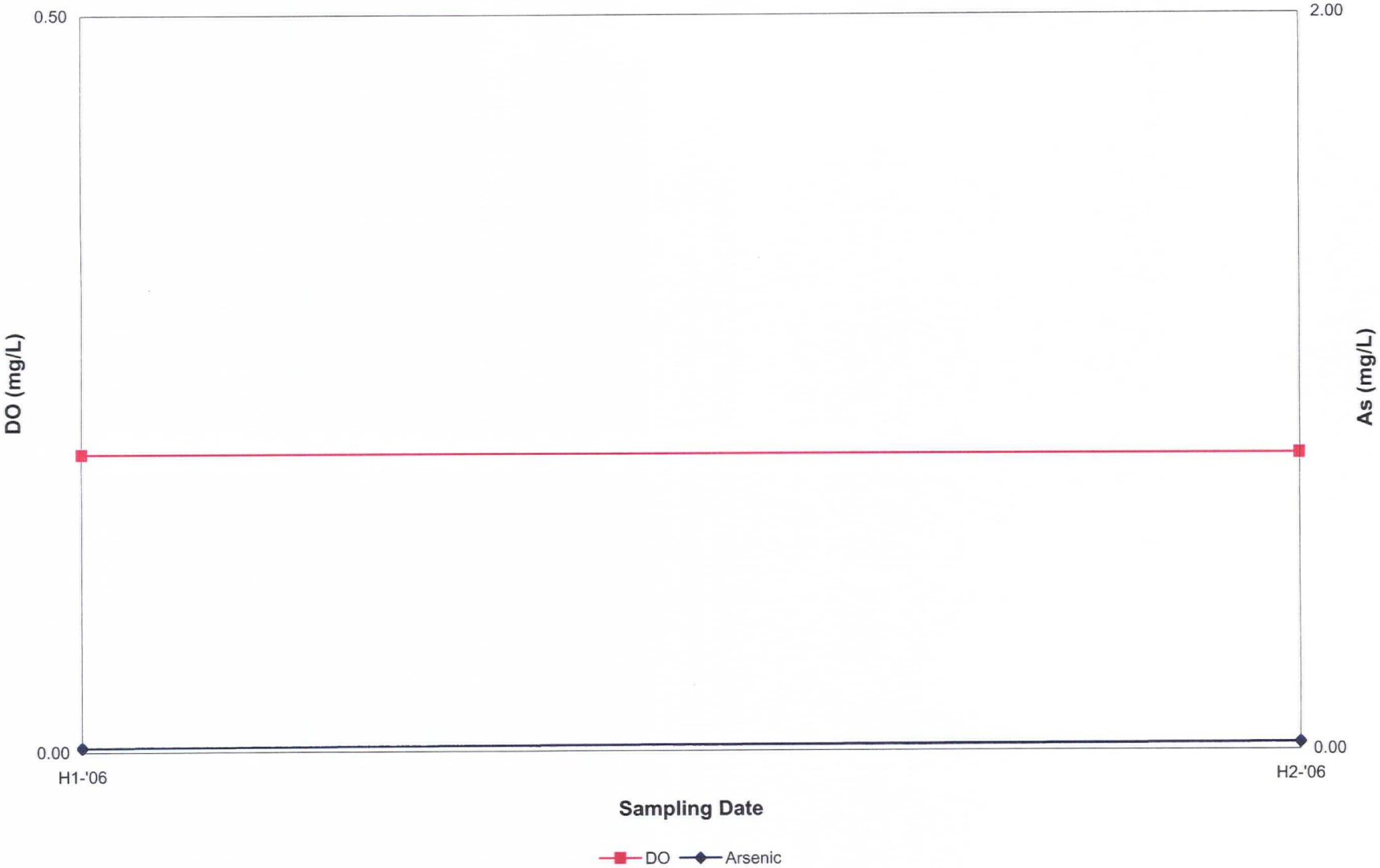


# Monitoring Well GW-9

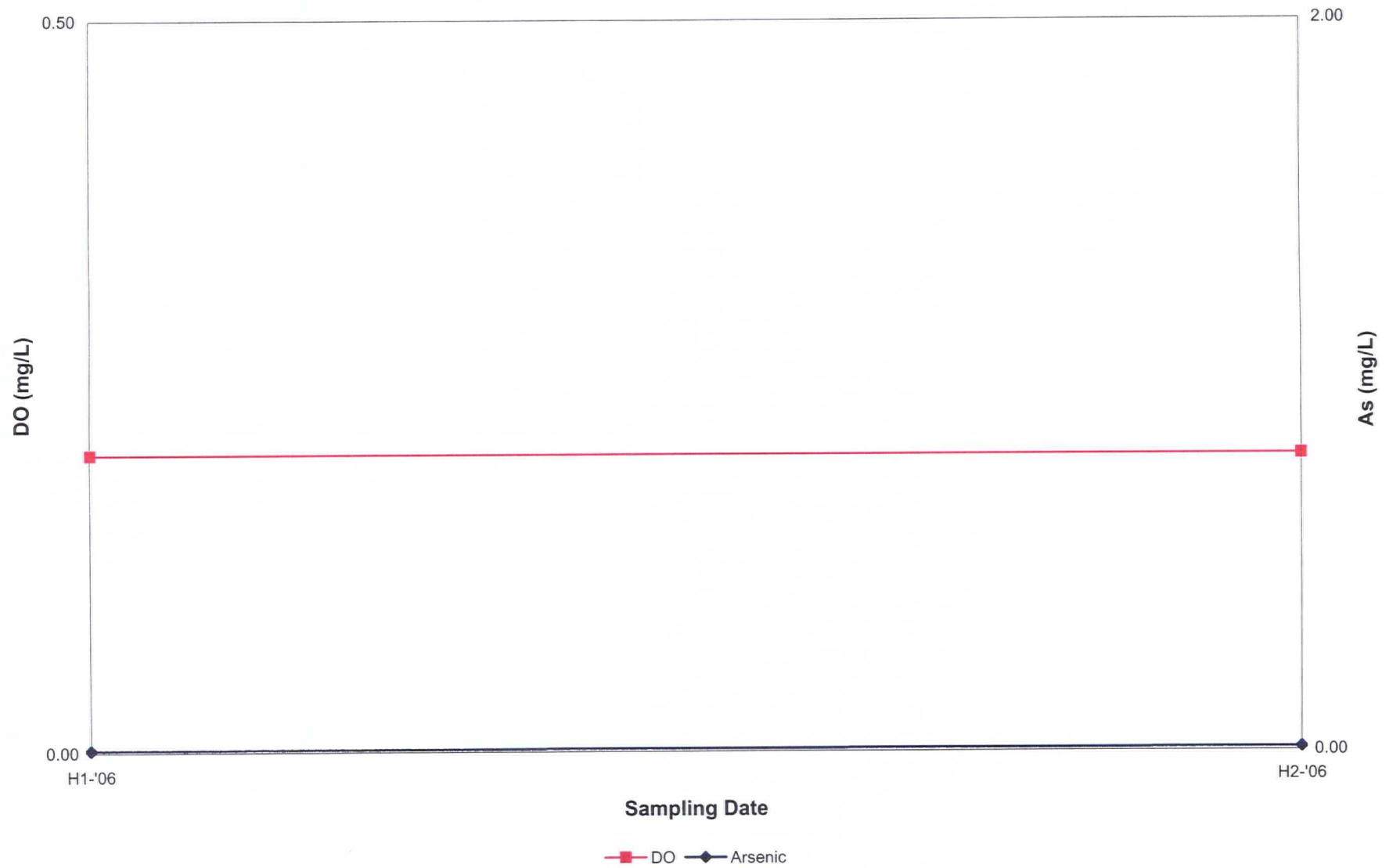




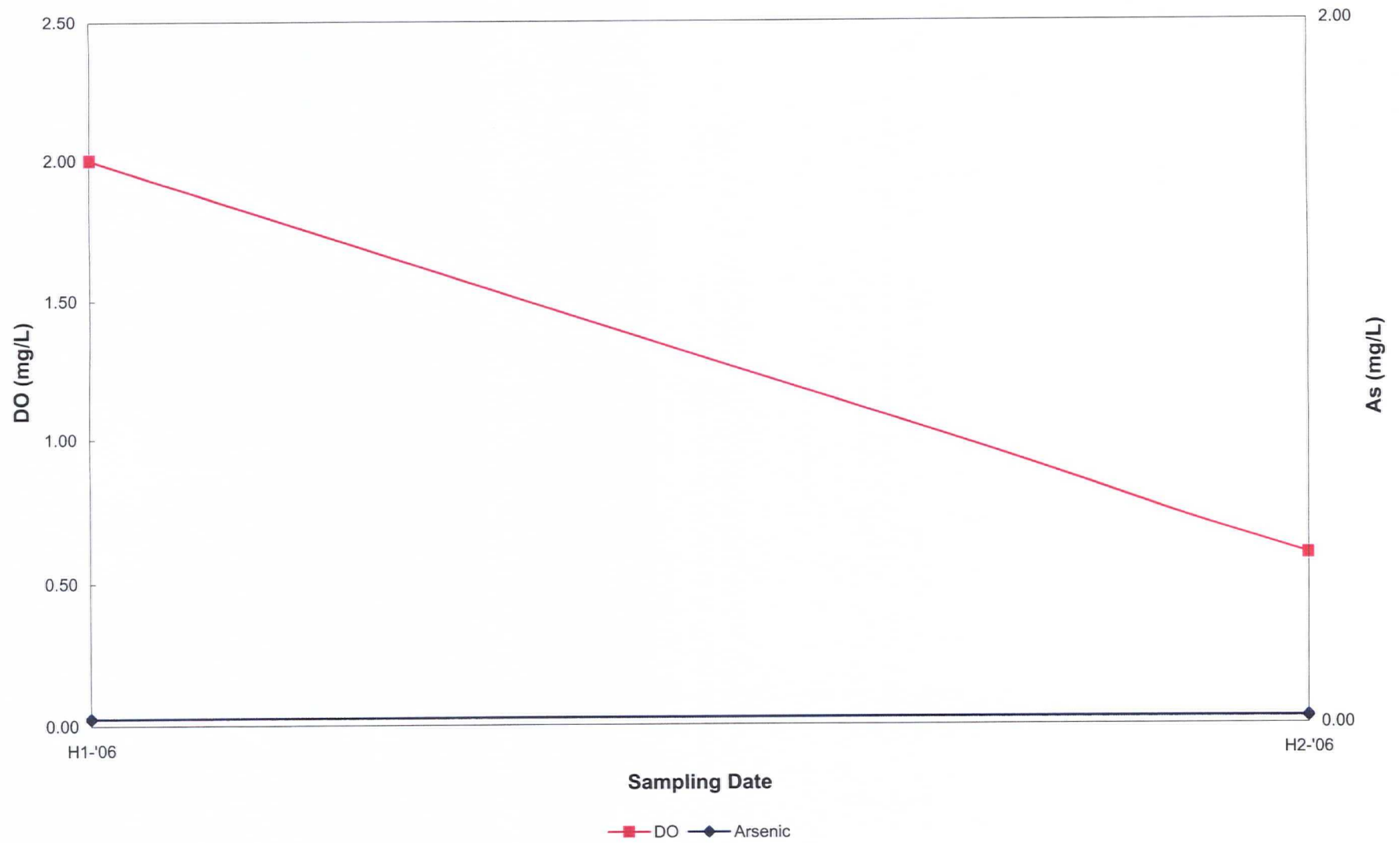
Monitoring Well GW-12



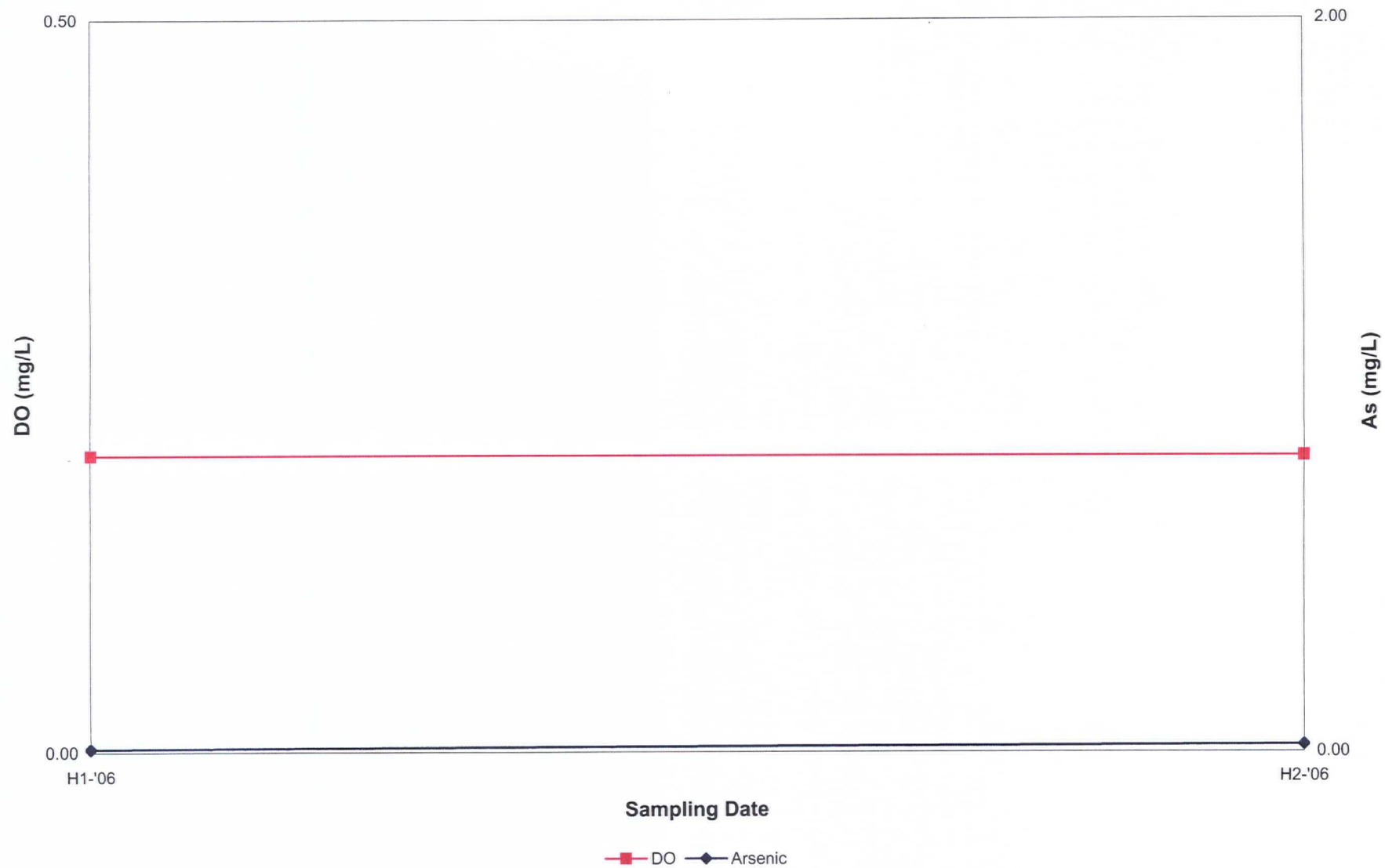
# Monitoring Well GW-13



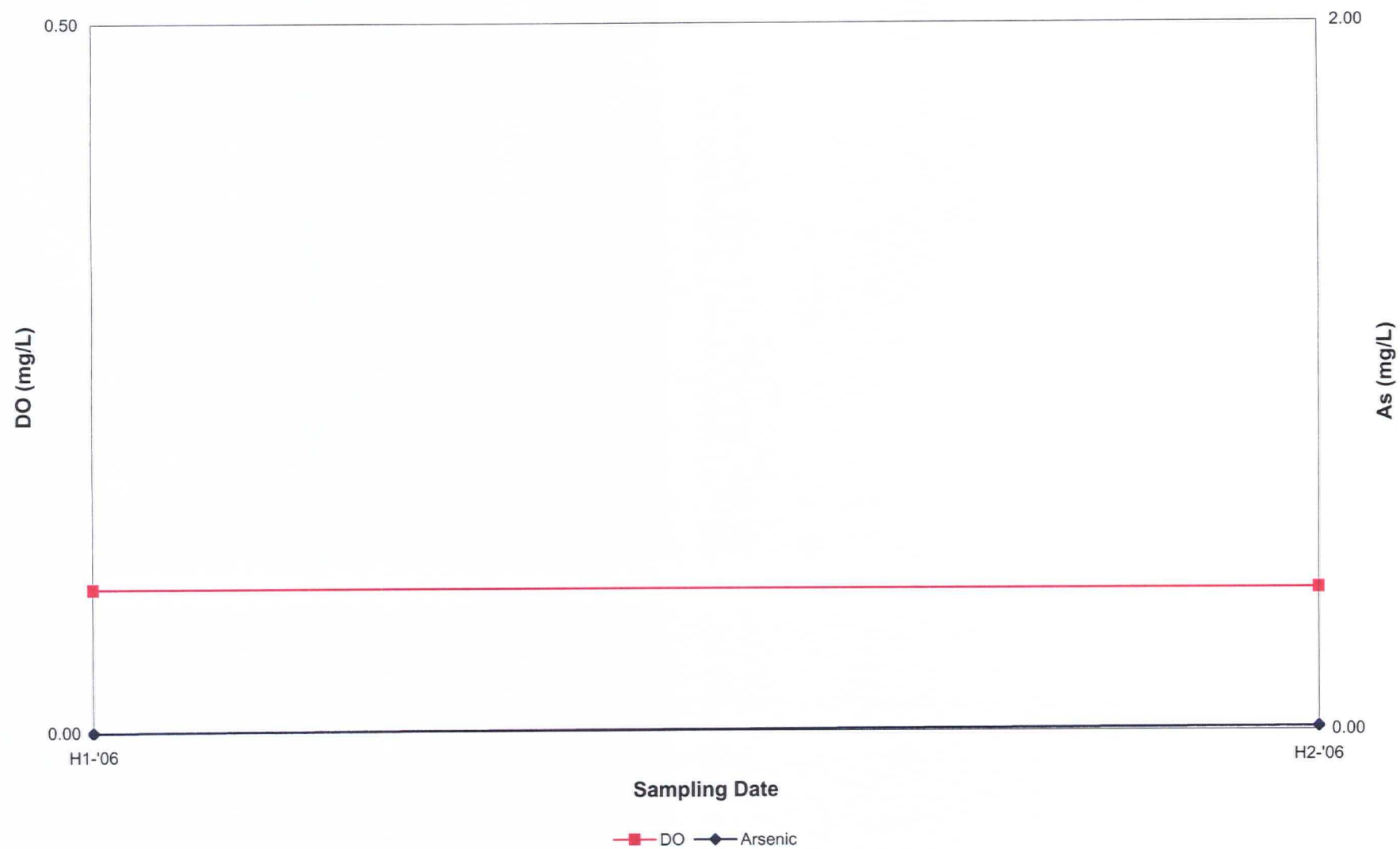
# Monitoring Well GW-14



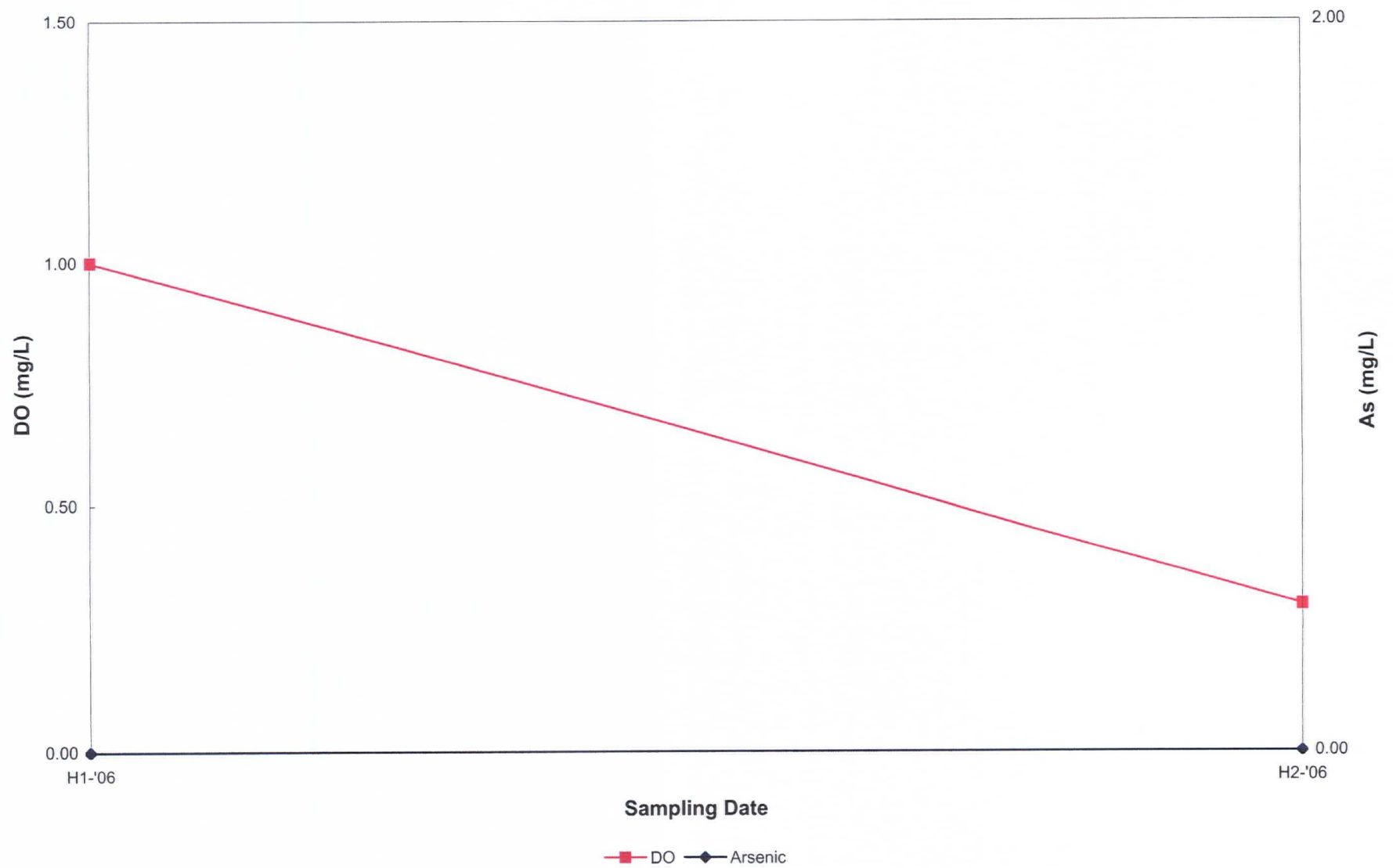
# Monitoring Well GW-15



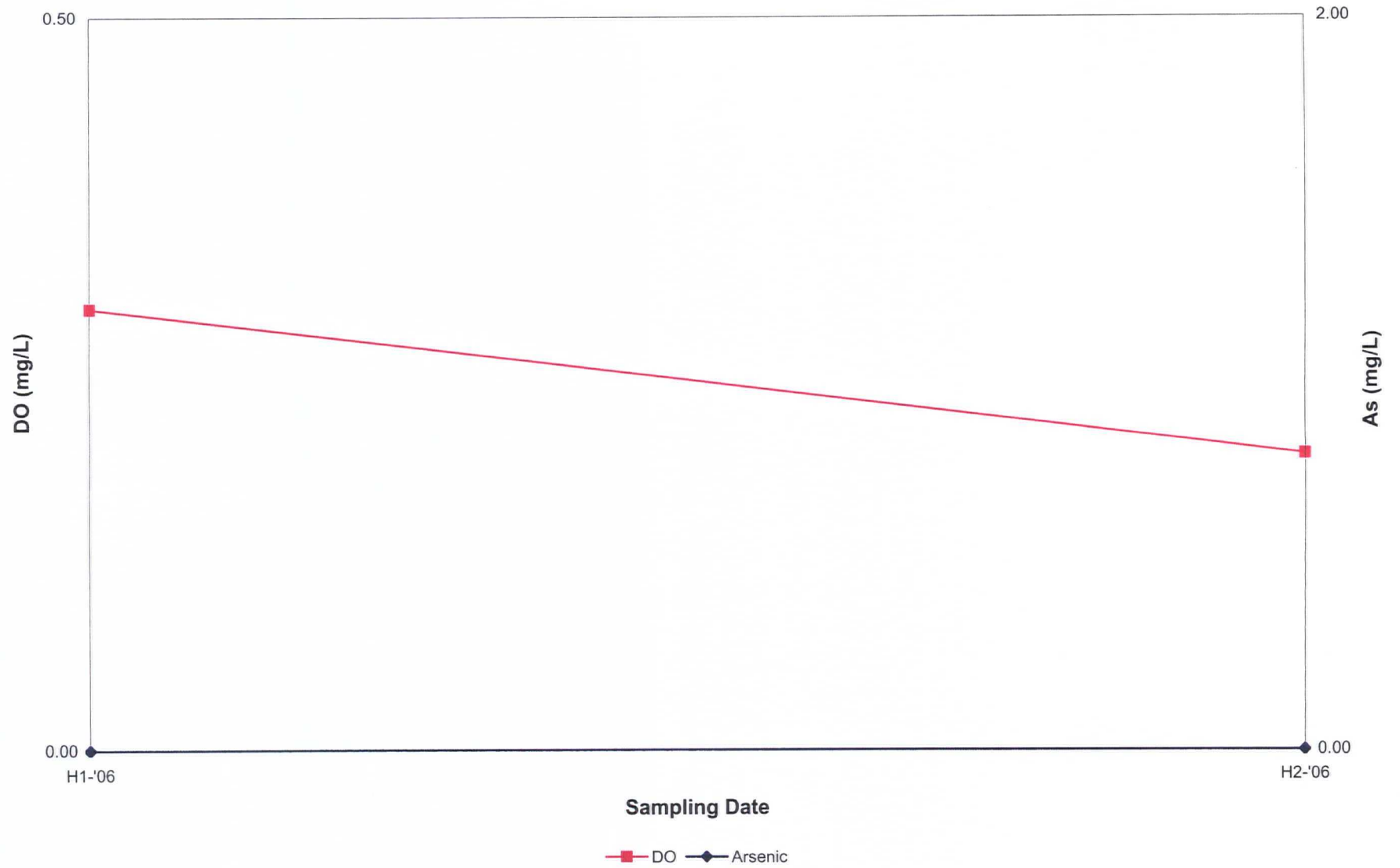
# Monitoring Well GW-16



# Monitoring Well GW-17



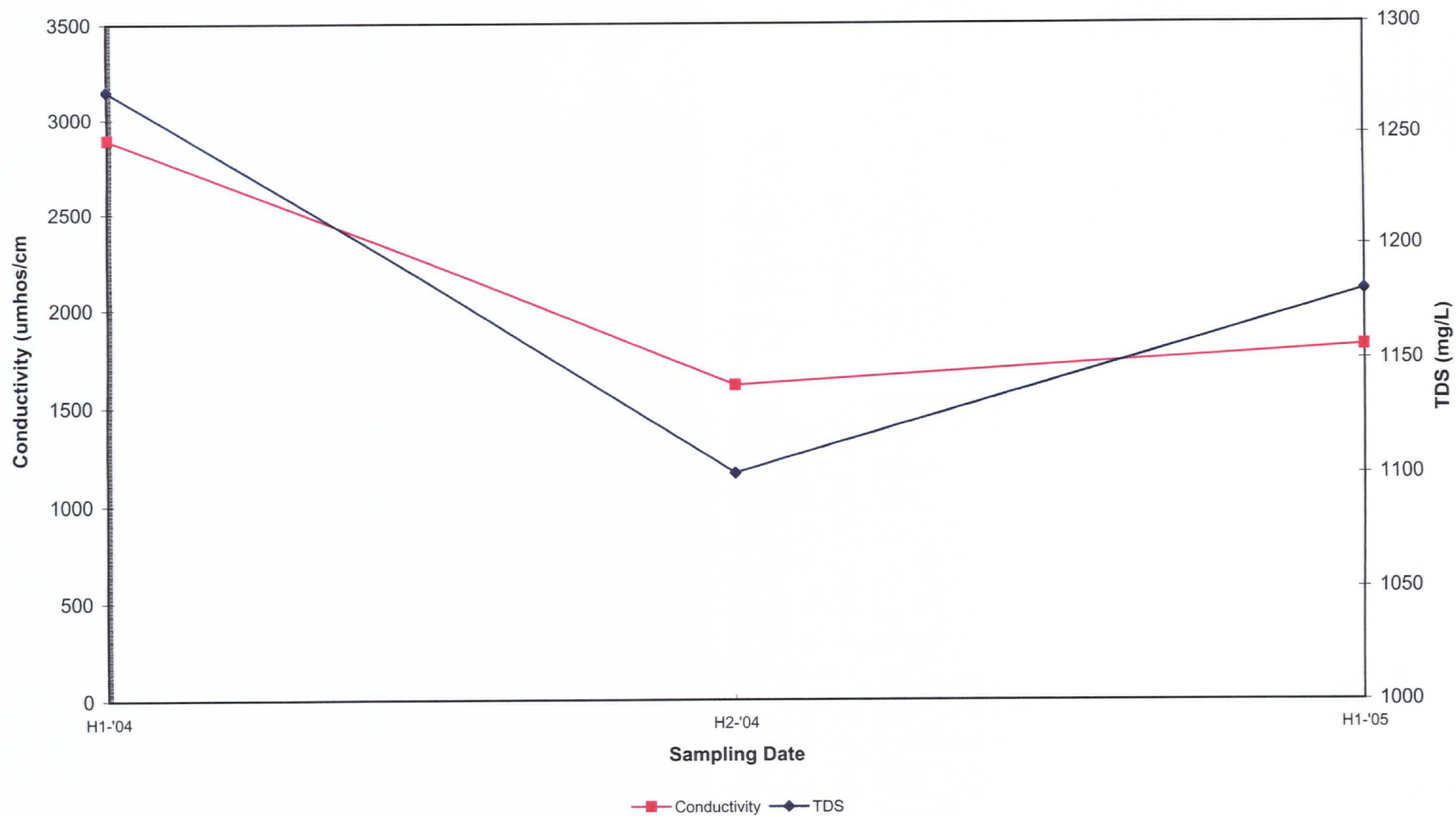
# Monitoring Well BGW-1



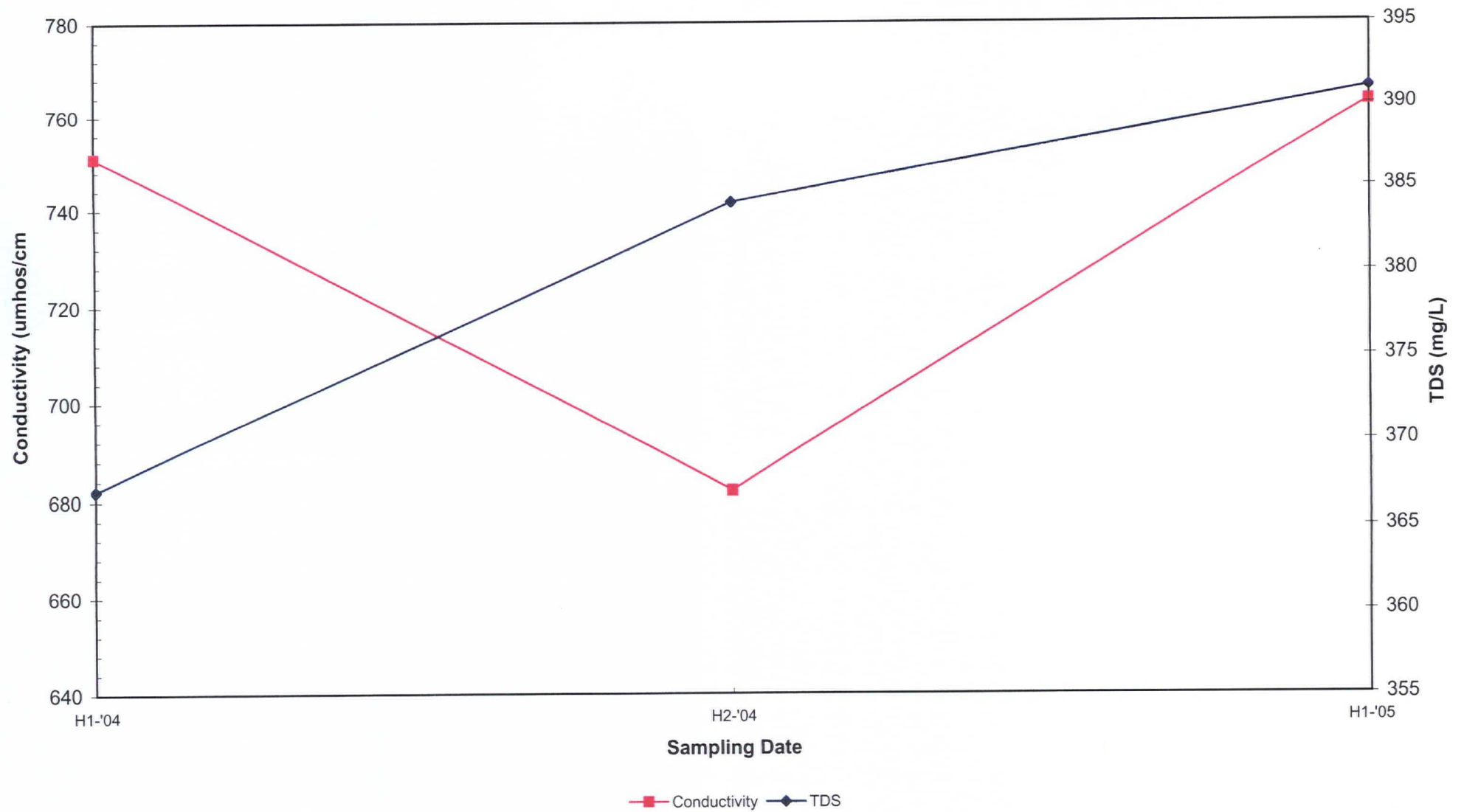
## **B-7 – Conductivity versus TDS**



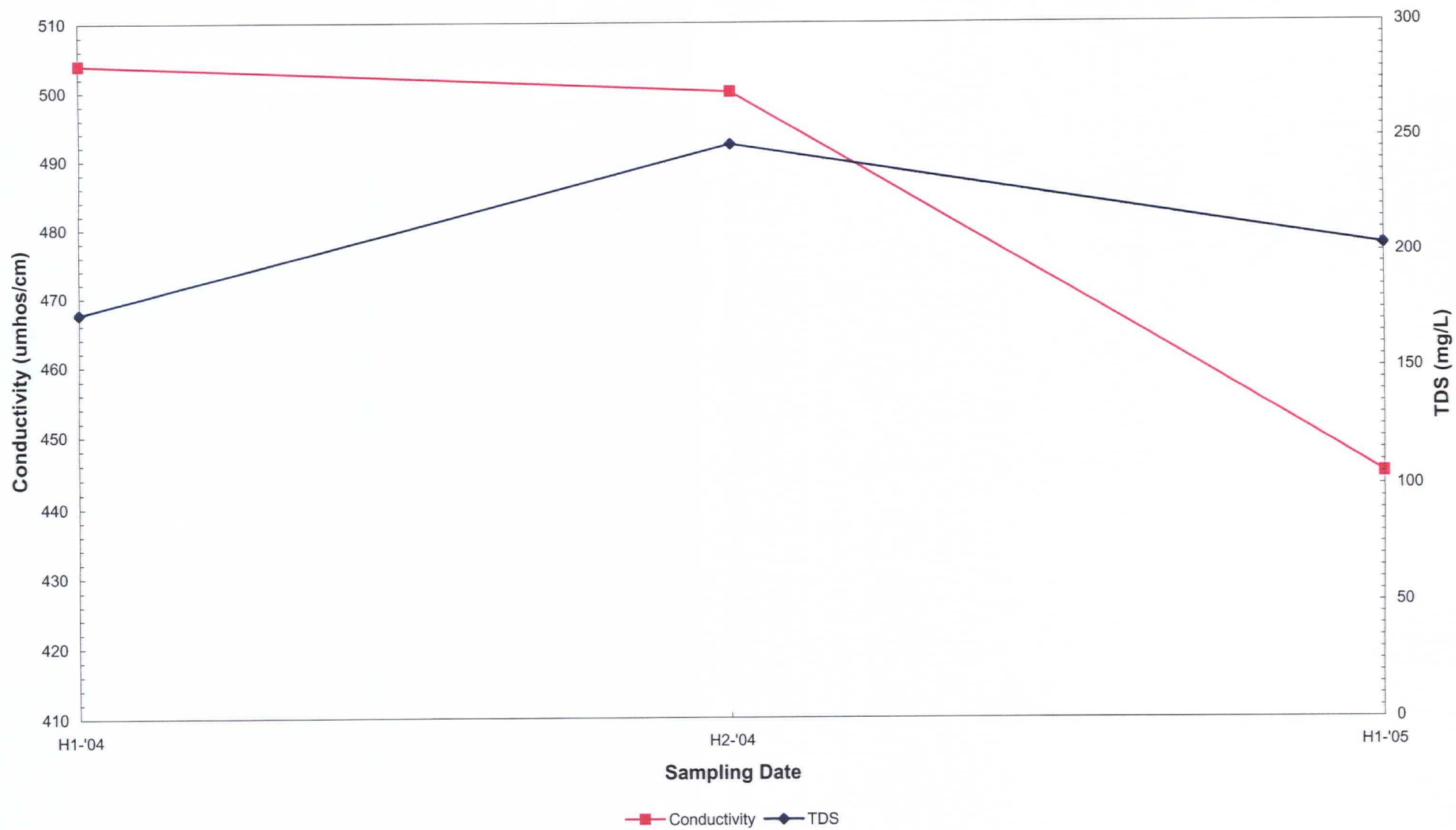
### Monitoring Well CW- 4



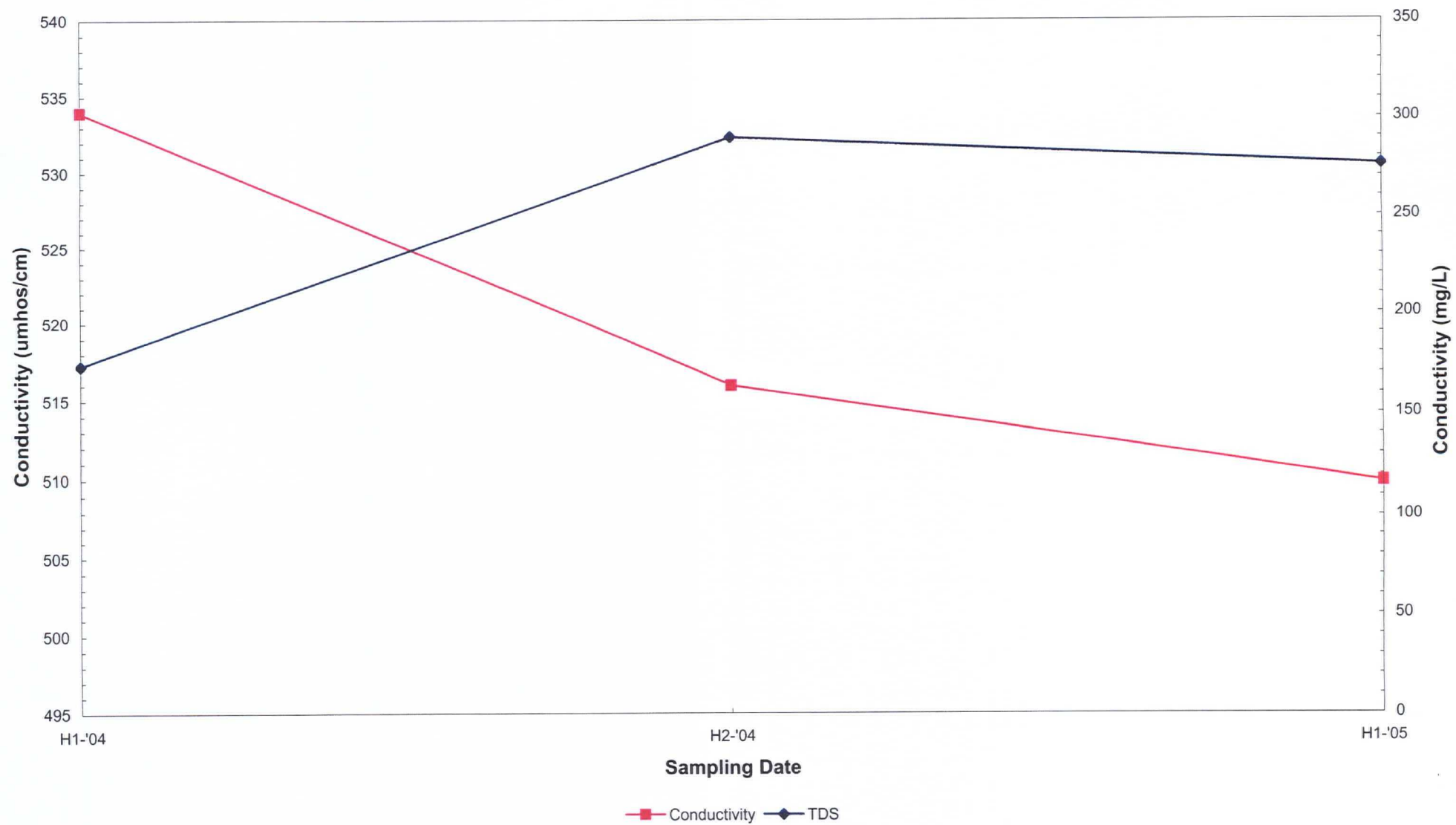
# Monitoring Well CW- 5



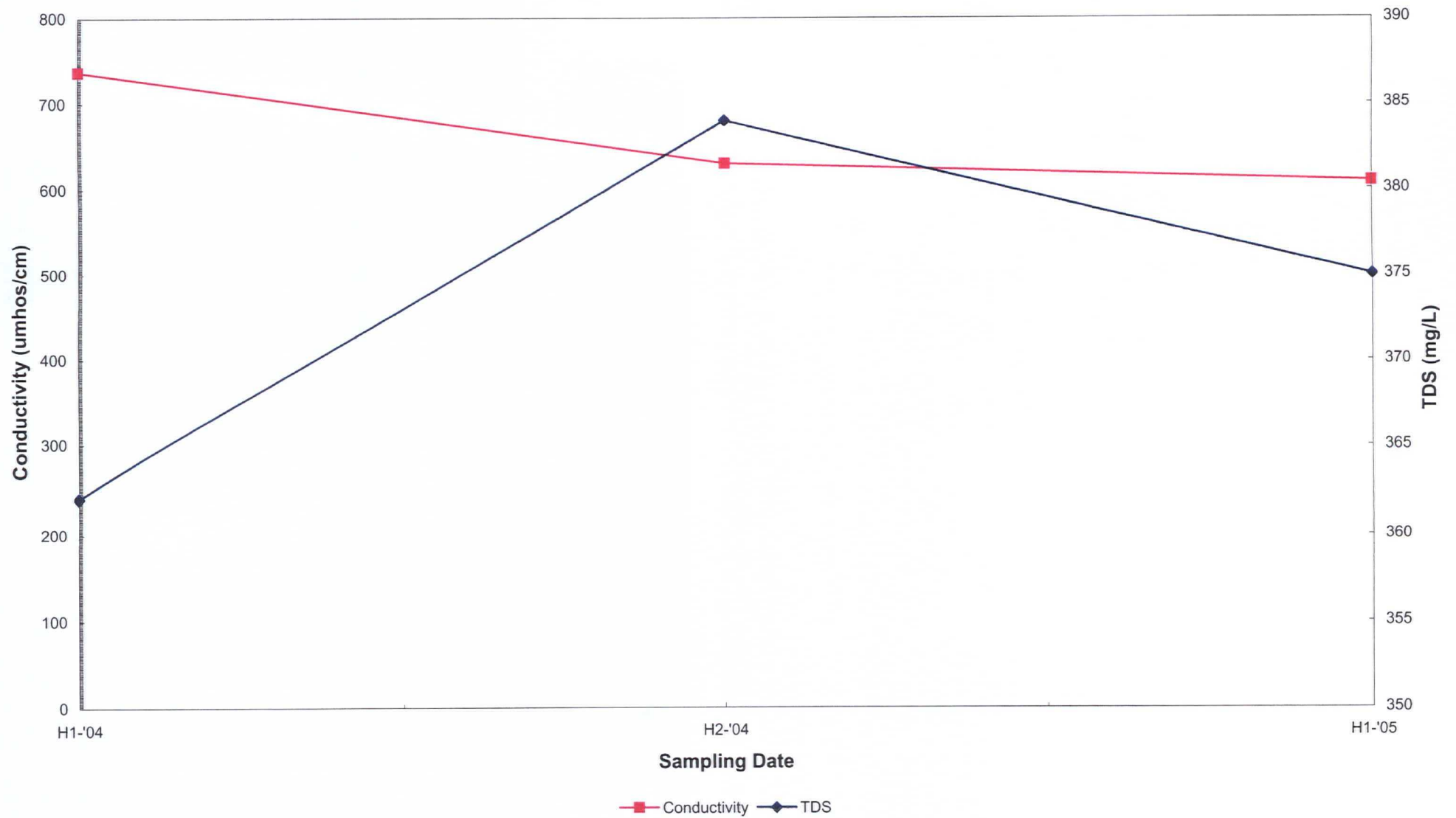
# Monitoring Well GC-1A



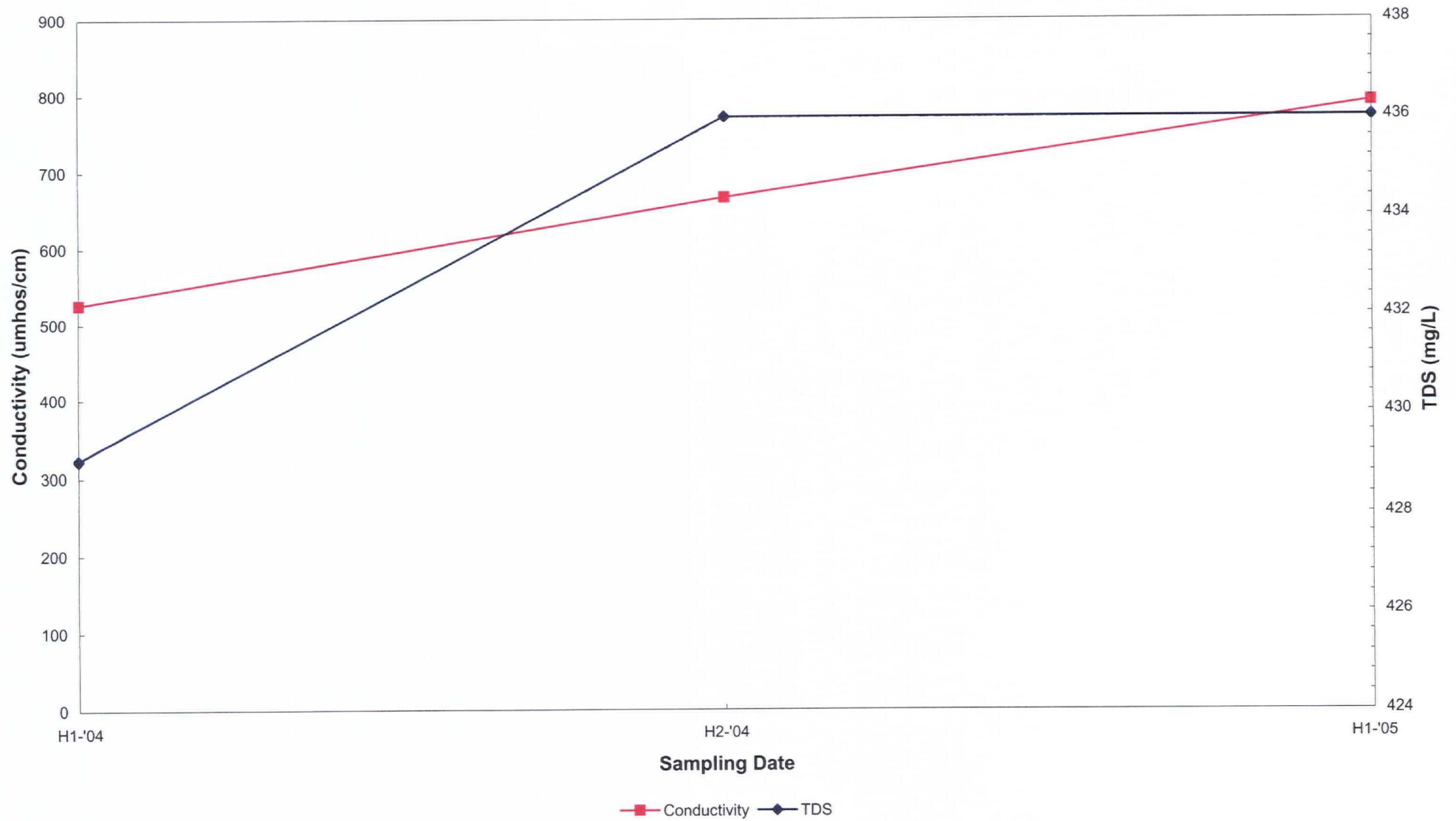
## Monitoring Well GC-2



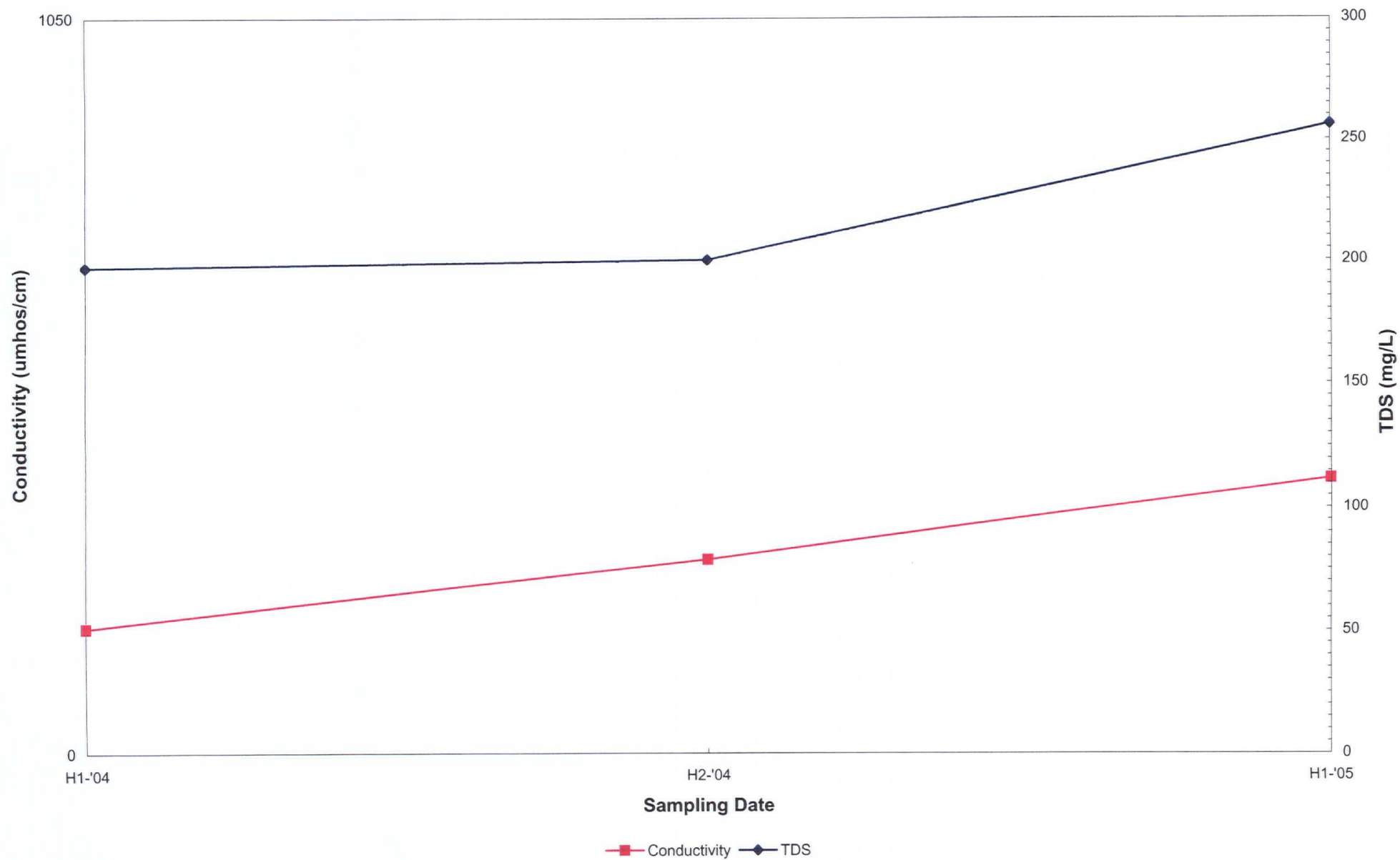
### Monitoring Well GC-3



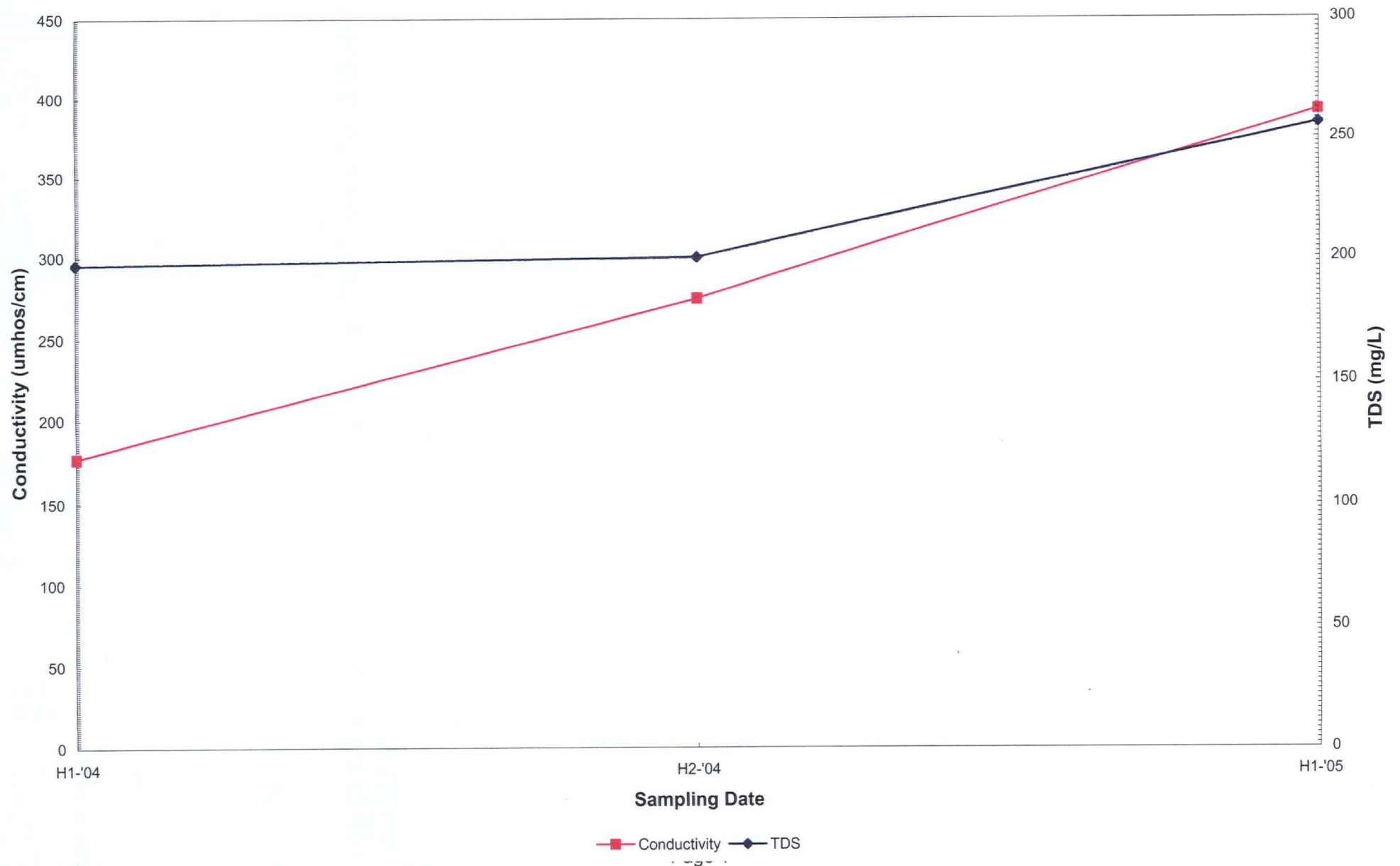
## Monitoring Well GC-4



# Monitoring Well GC- 5

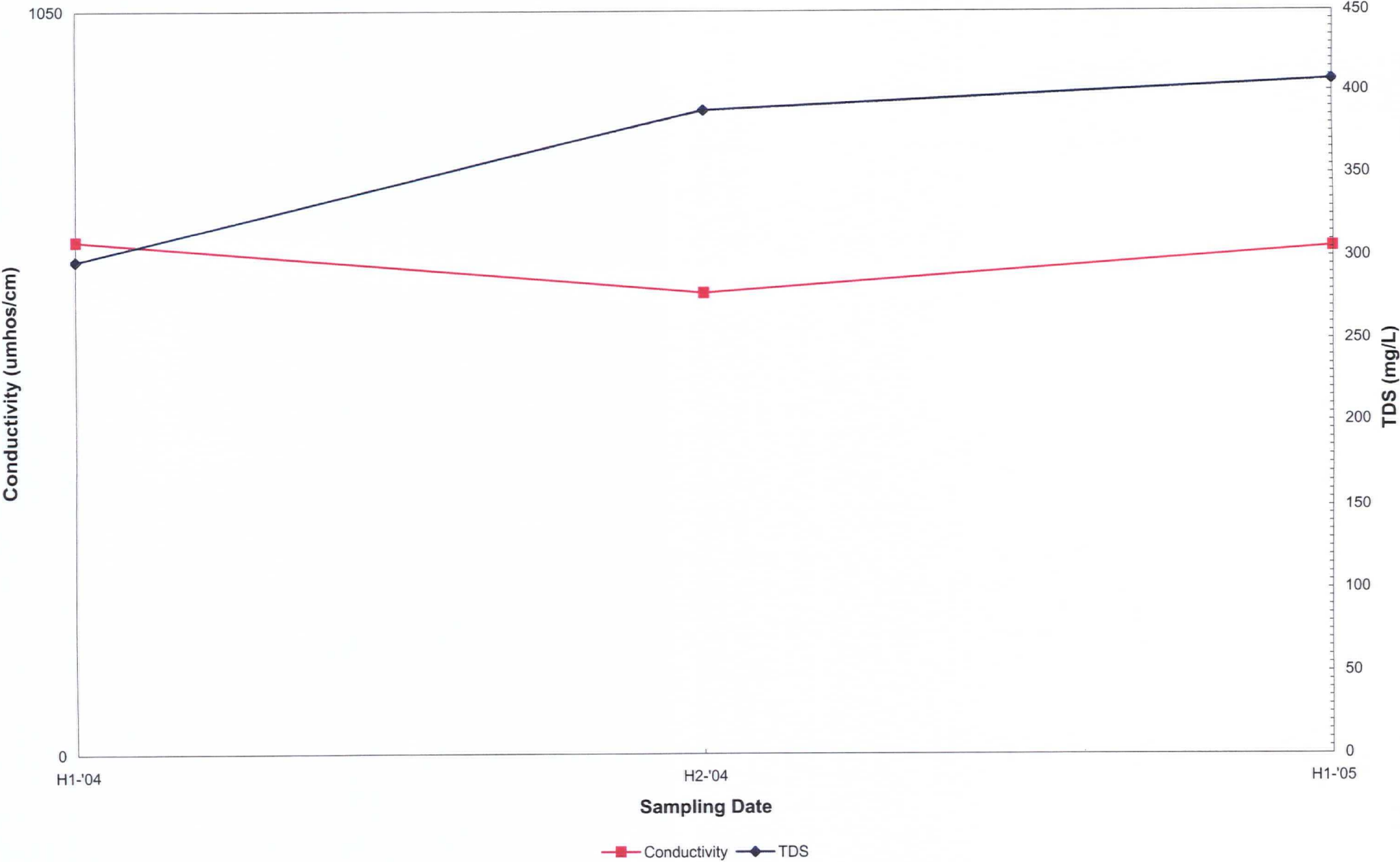


# Monitoring Well GC-6

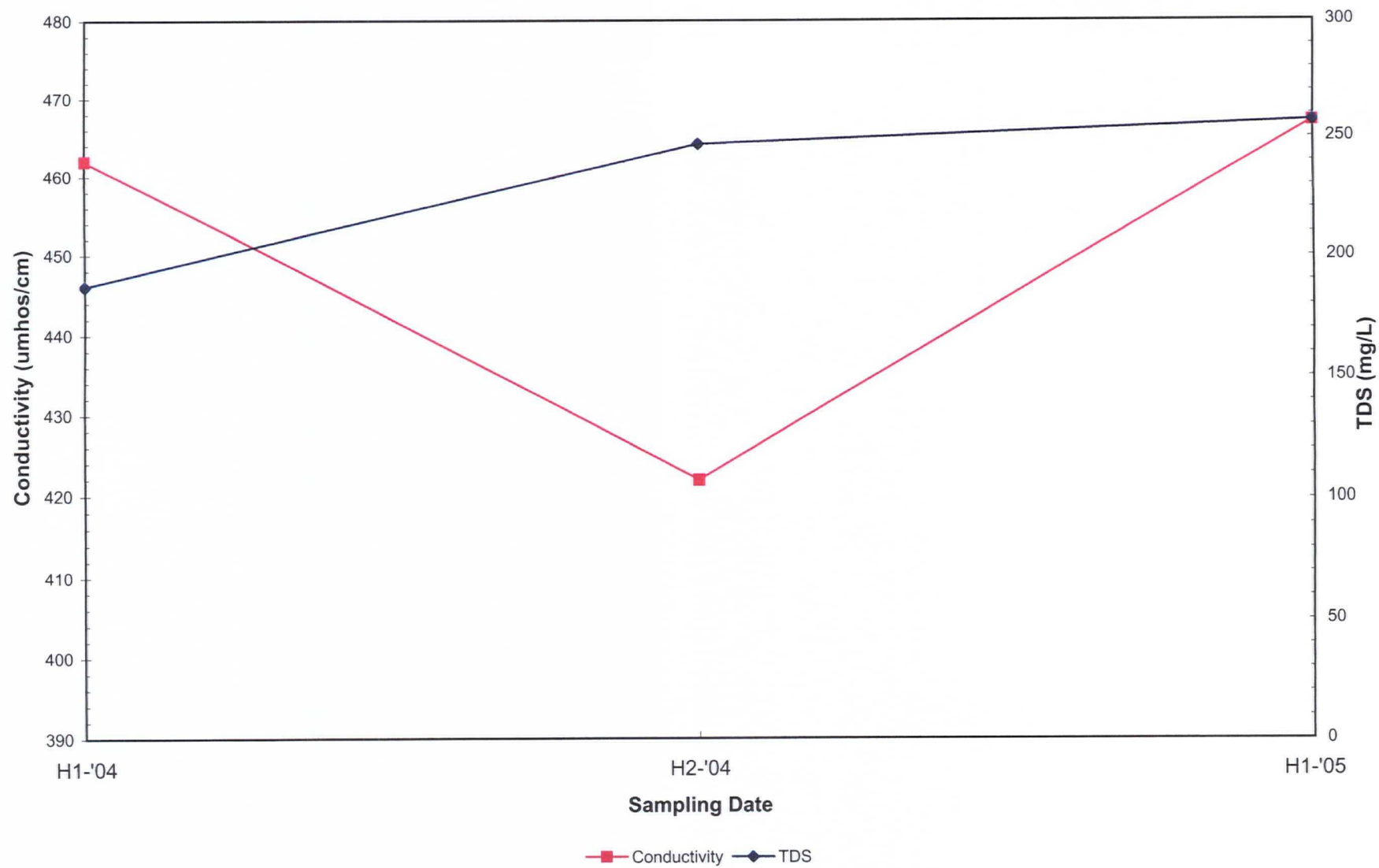




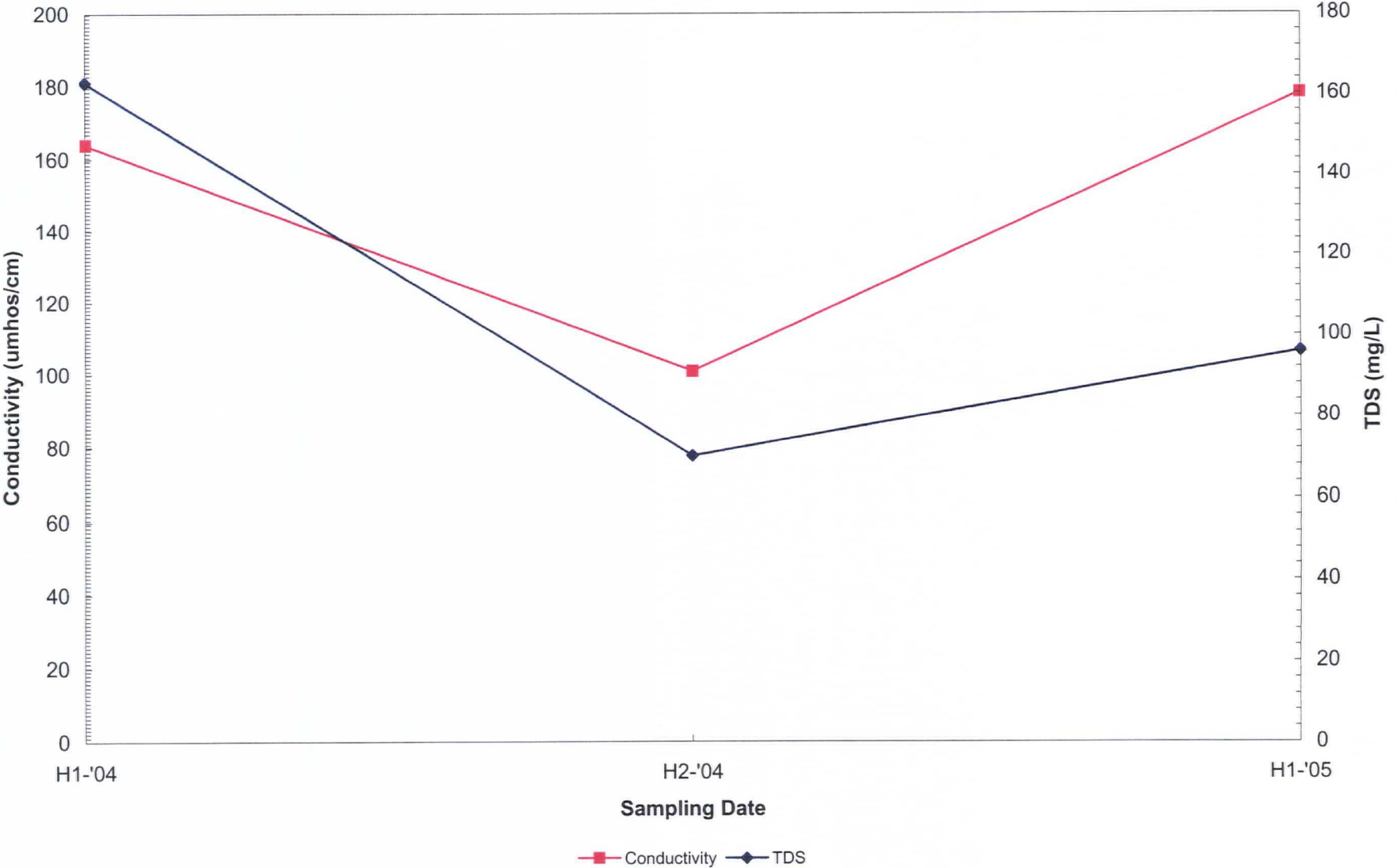
Monitoring Well GC- 5



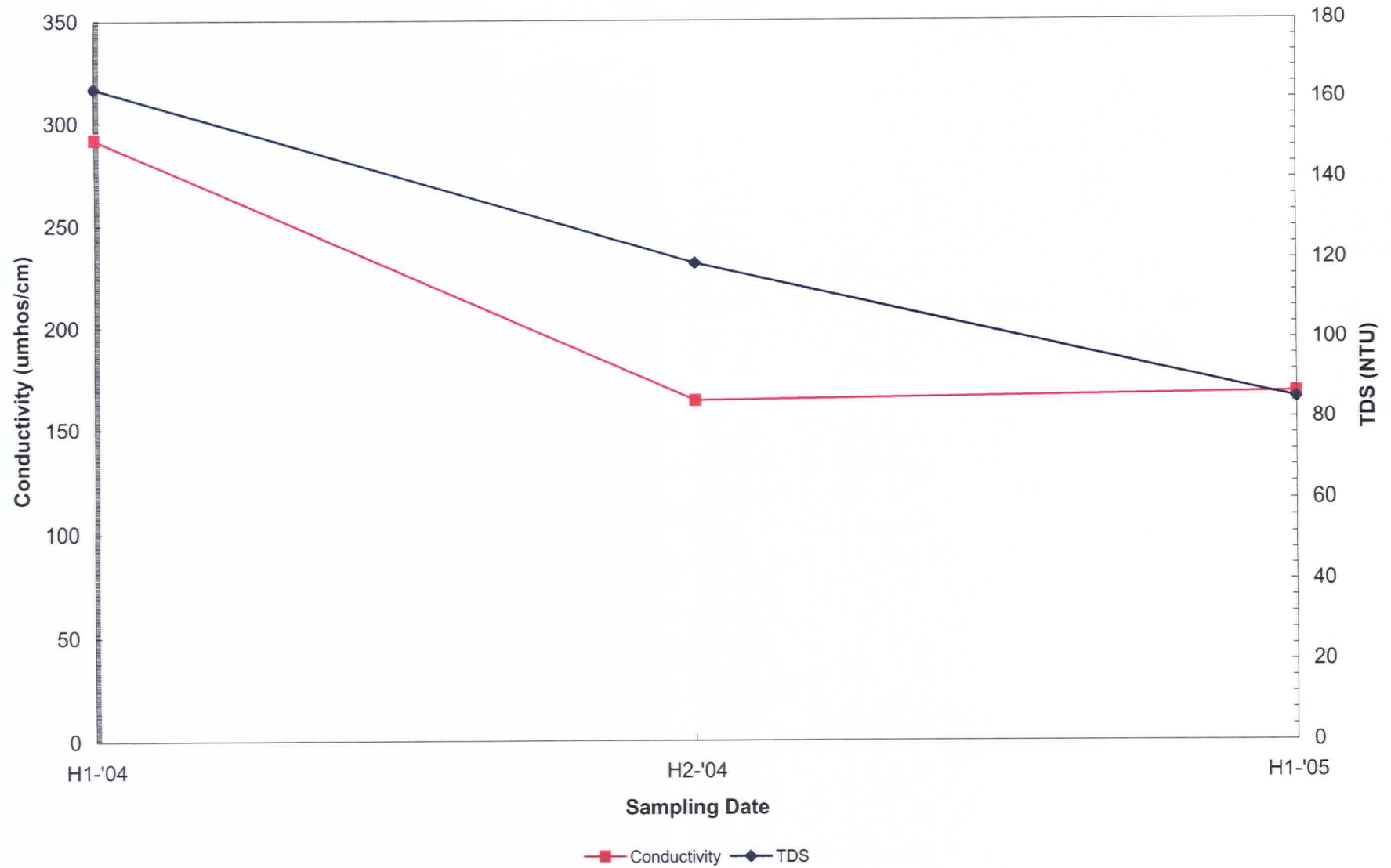
## Monitoring Well LR11-1



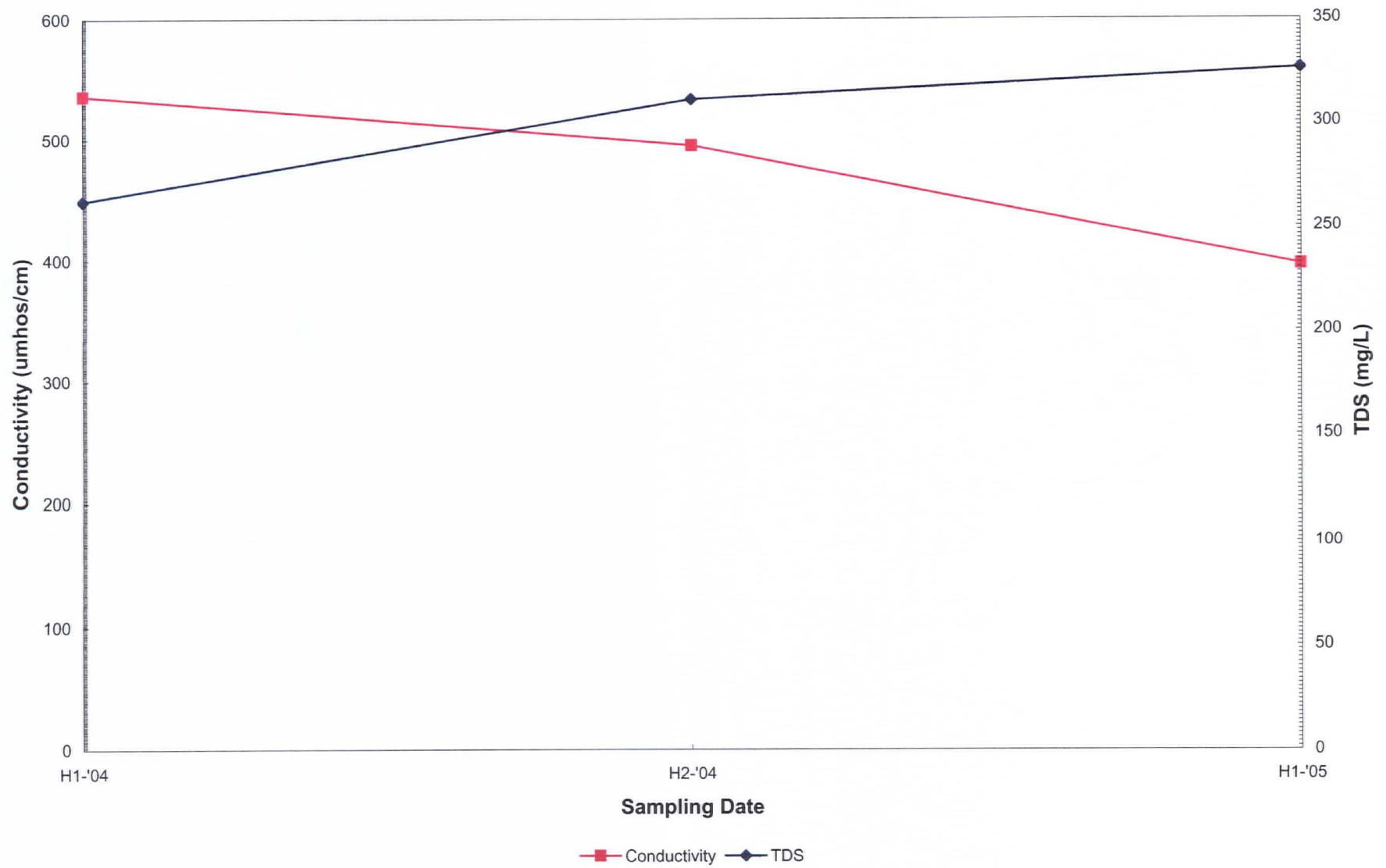
Monitoring Well LR11-2



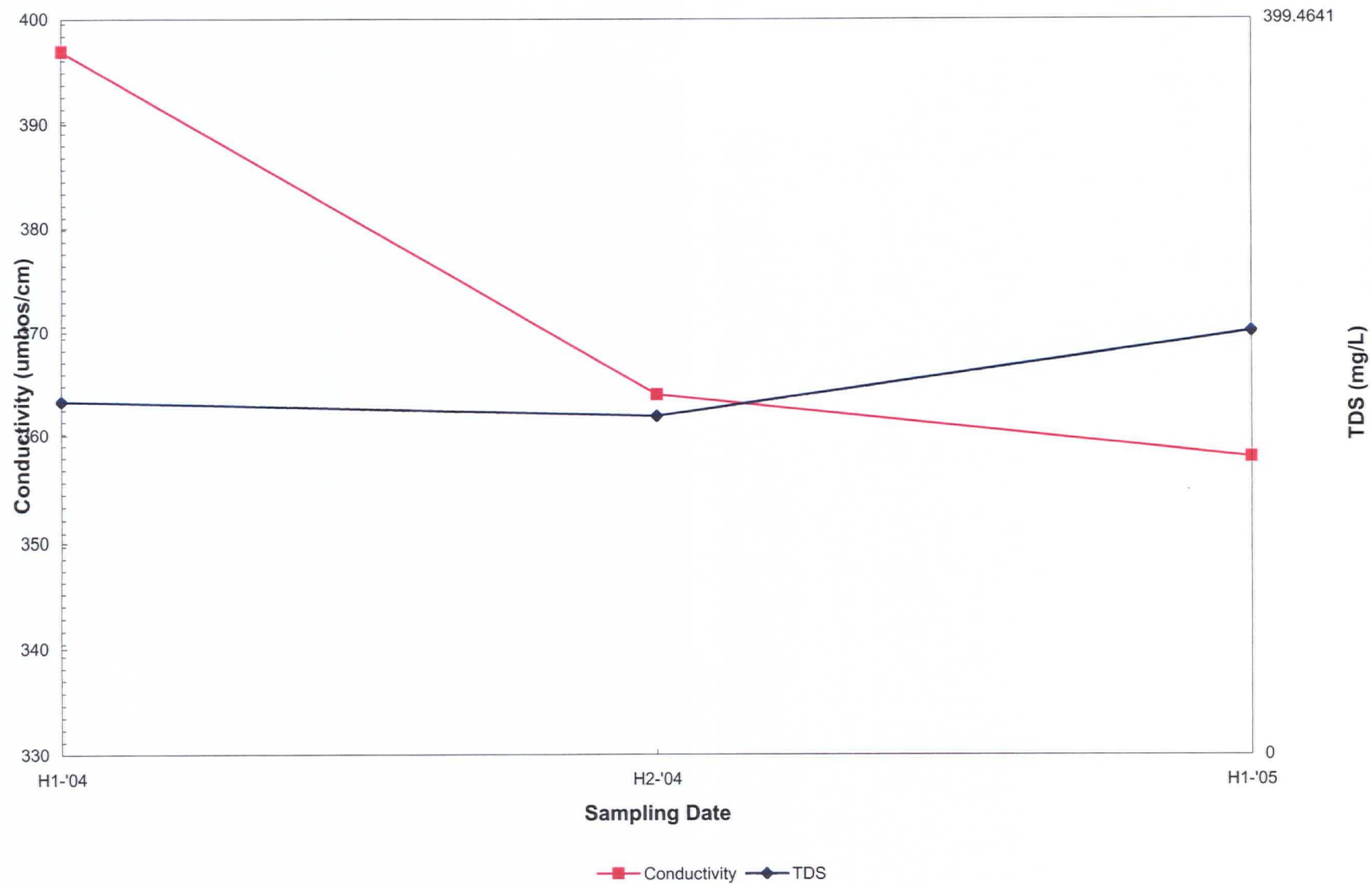
### Monitoring Well LR11-3



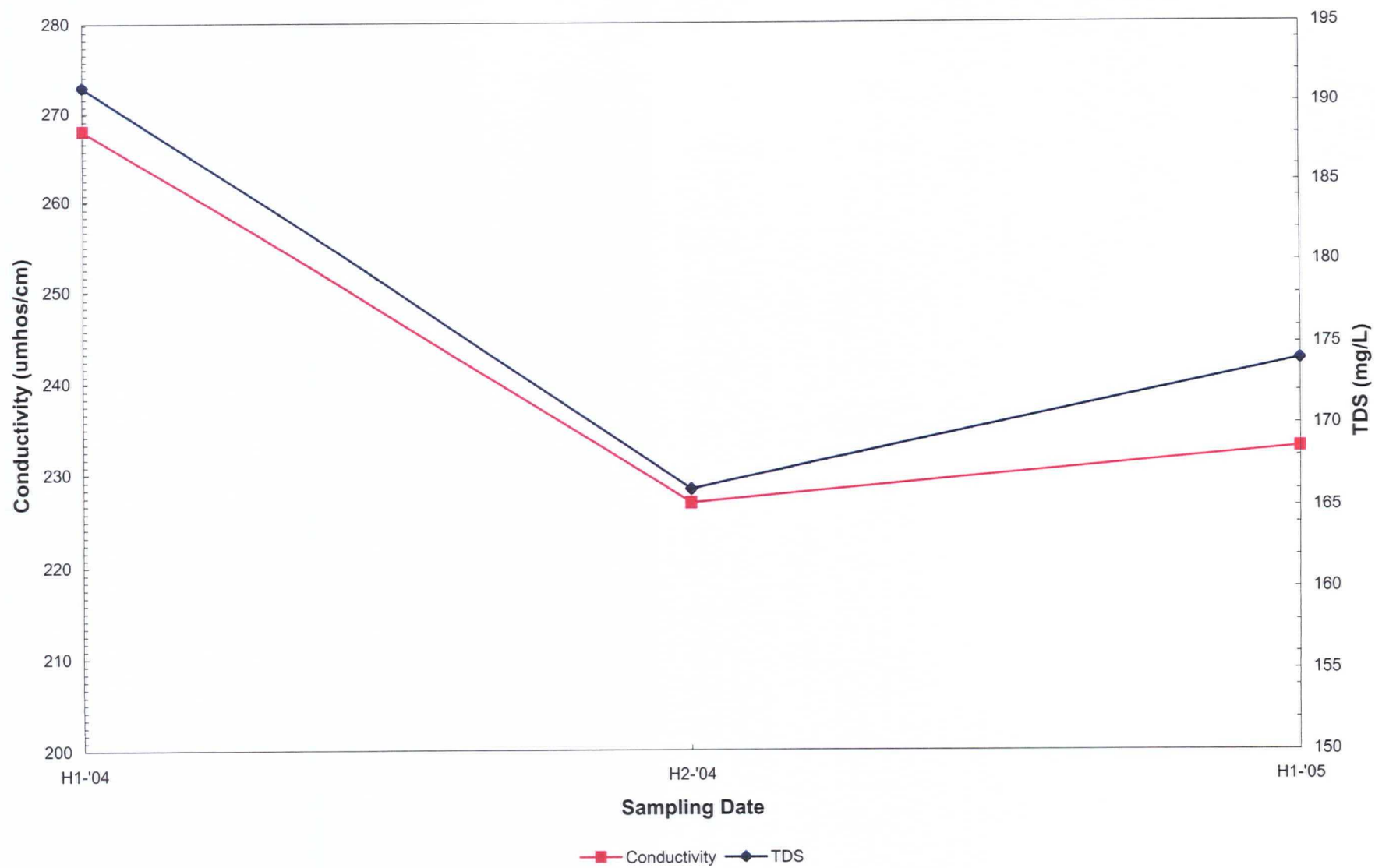
# Monitoring Well LR11-4



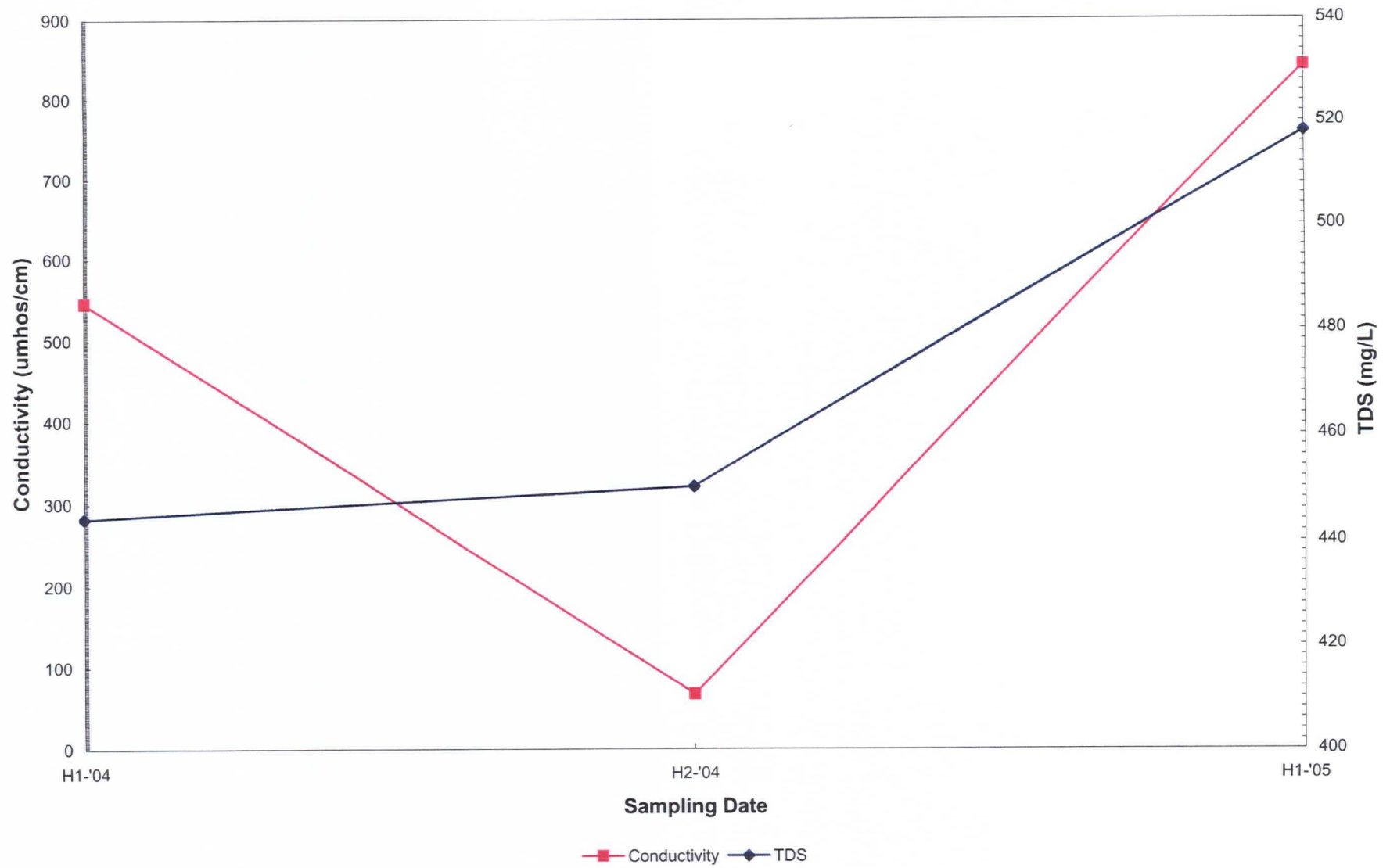
# Monitoring Well LR11-5



## Monitoring Well MW-1

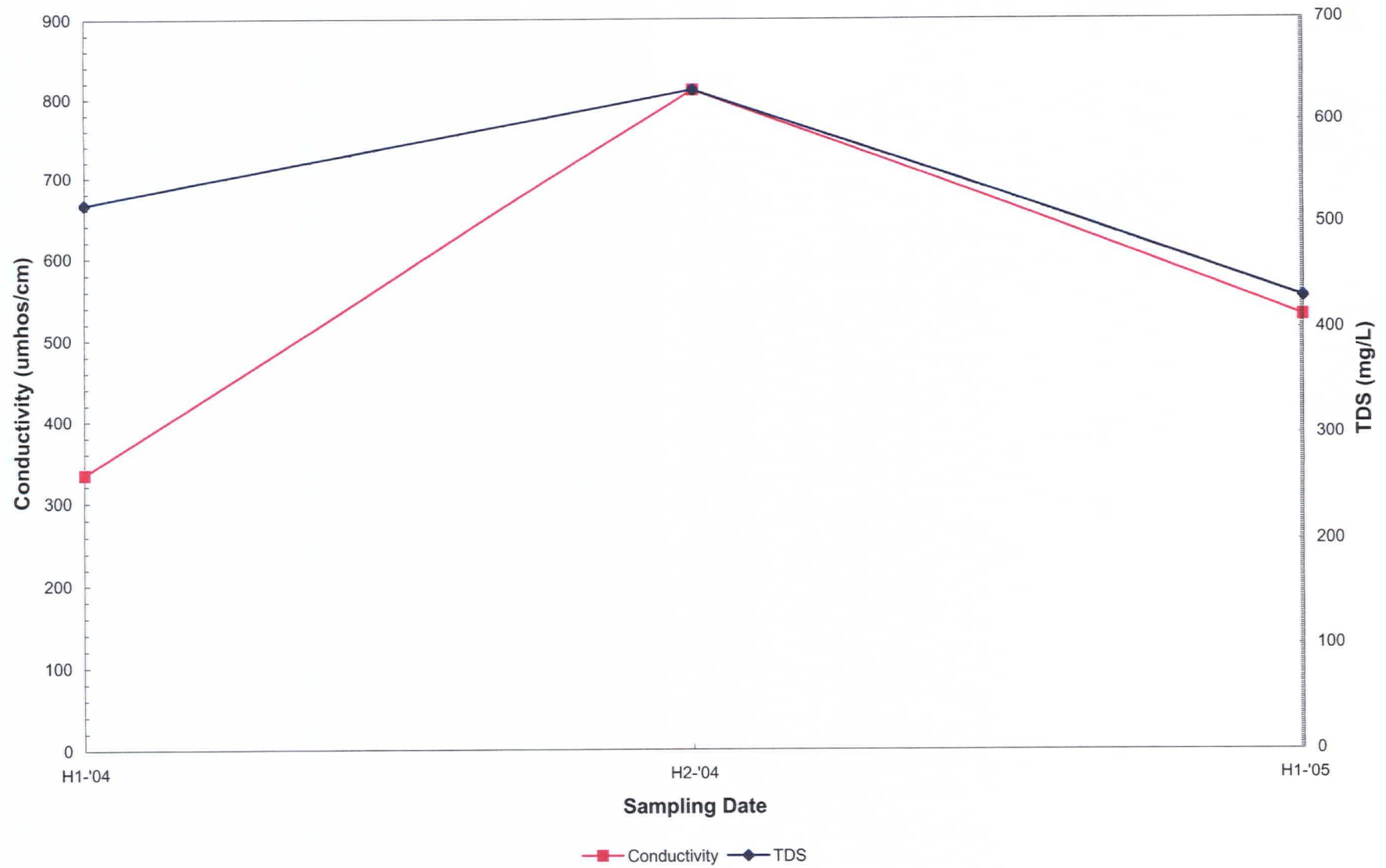


## Monitoring Well MW-2

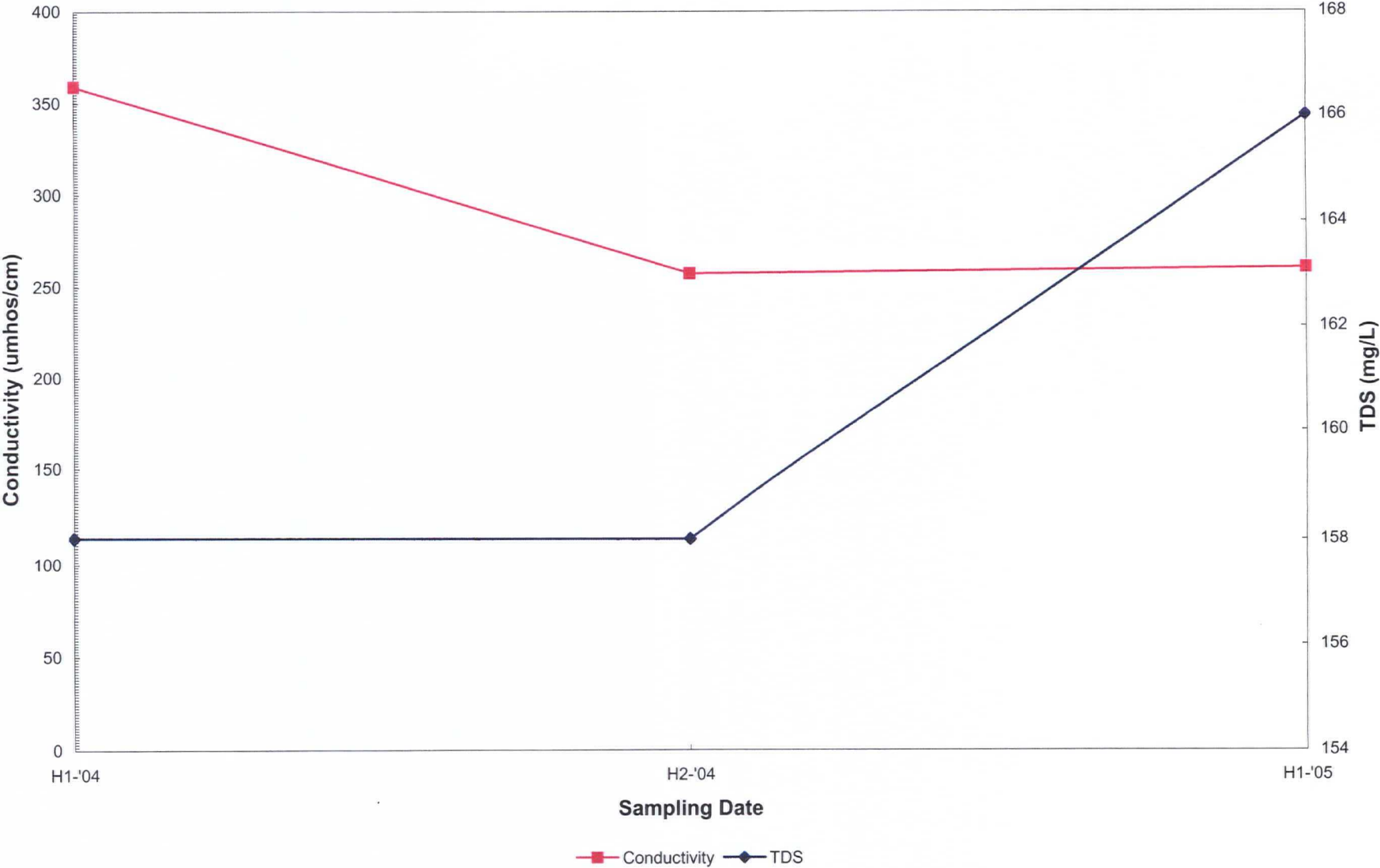




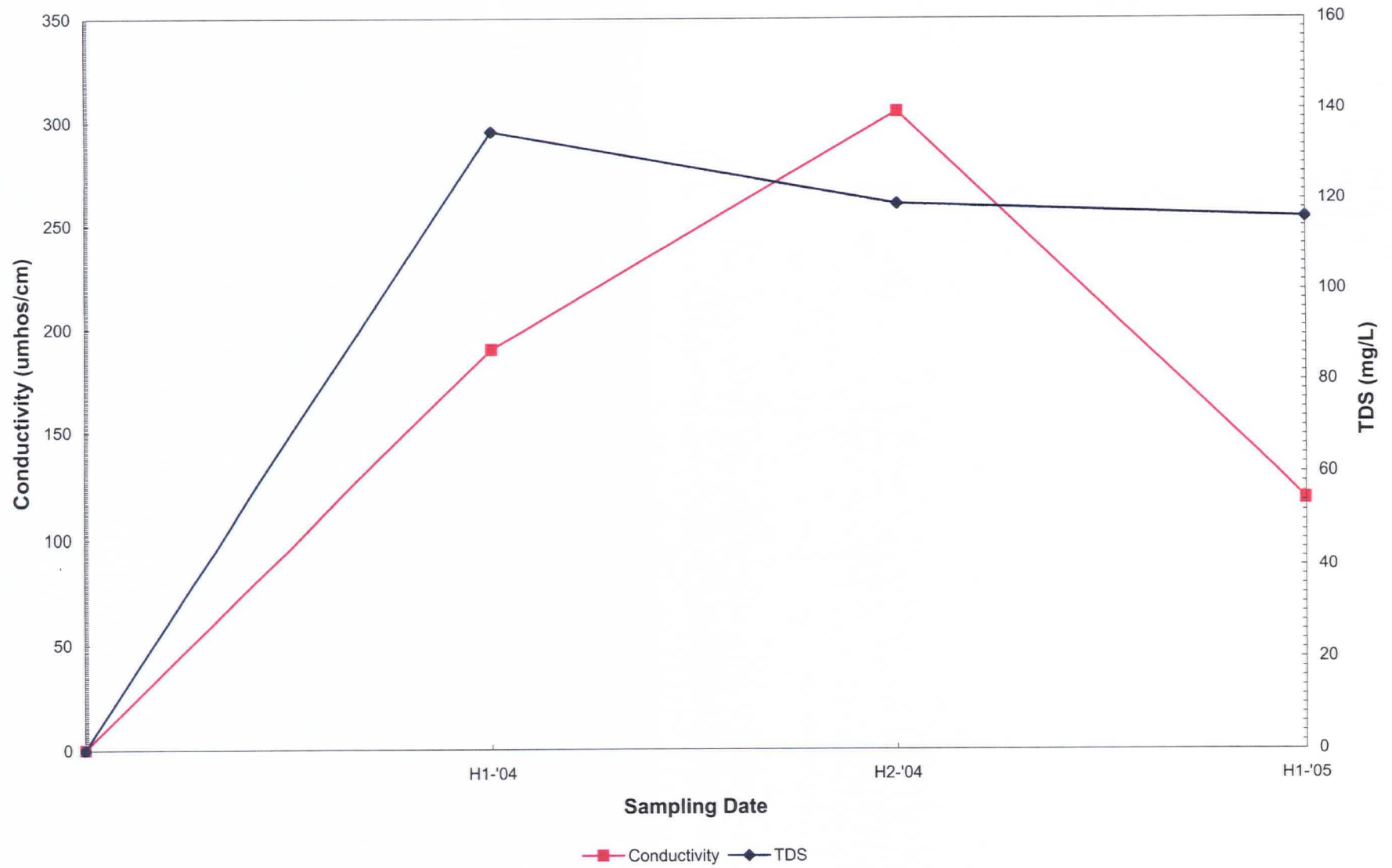
### Monitoring Well MW-3



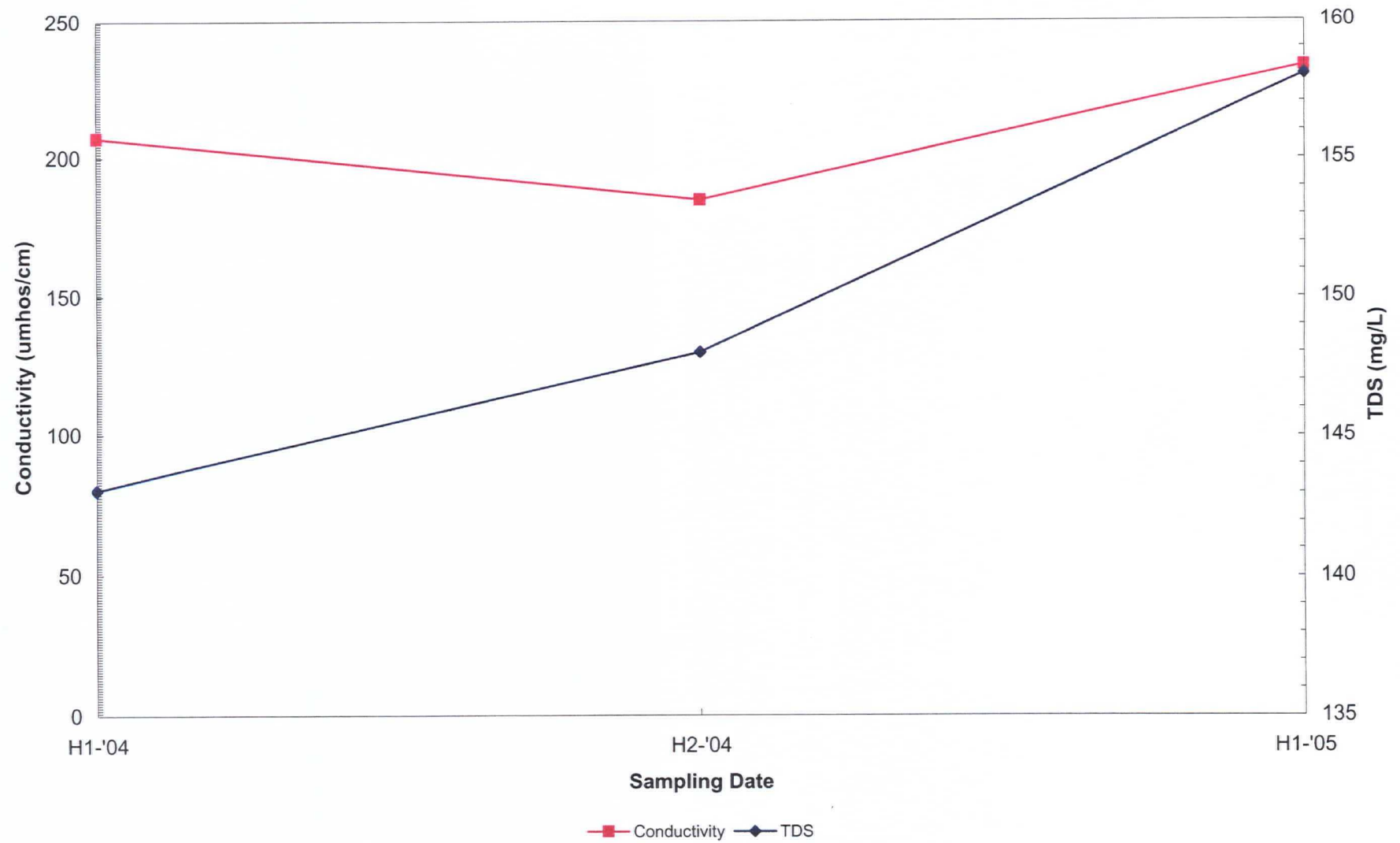
Monitoring Well MW-5



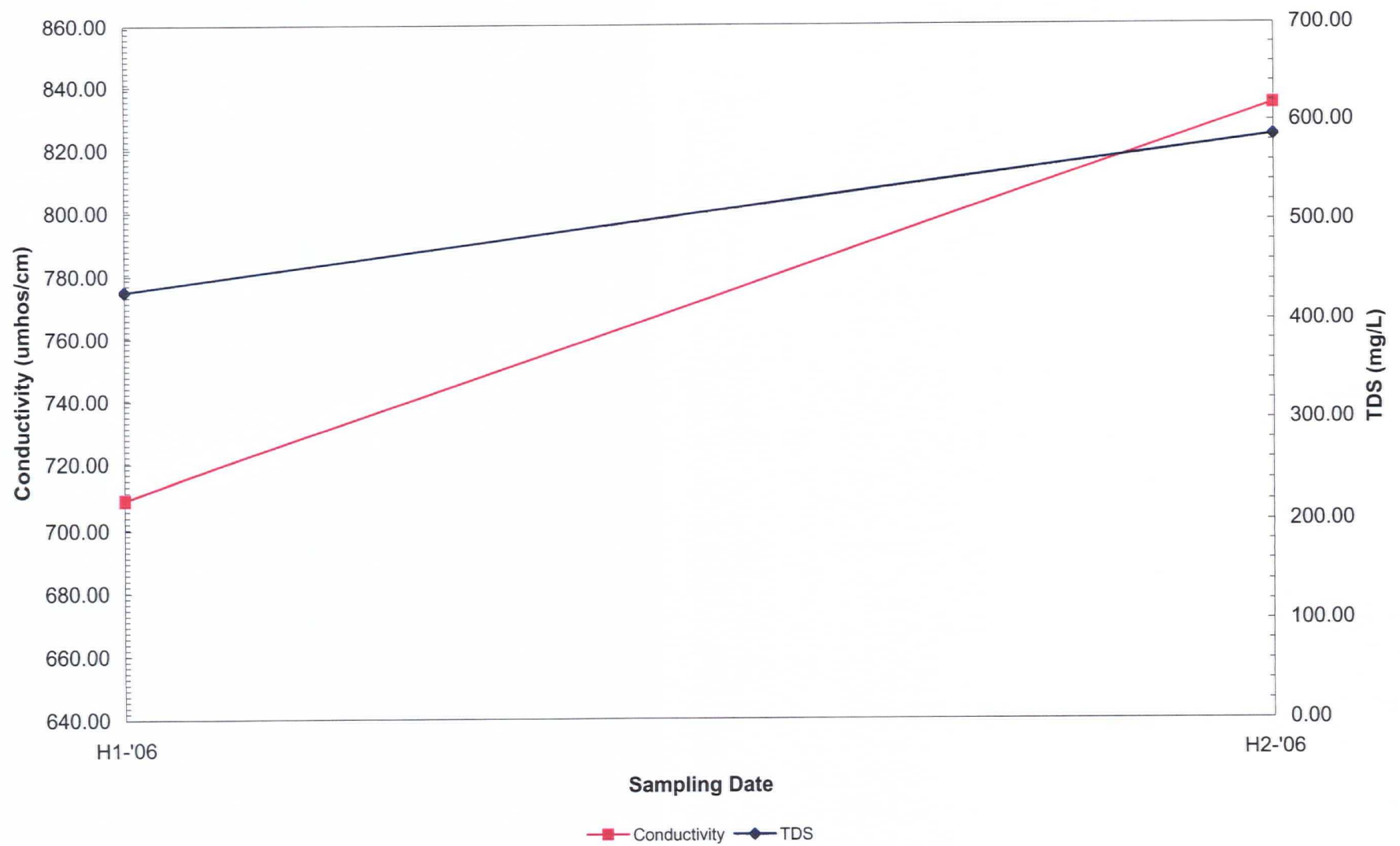
# Monitoring Well MW-6



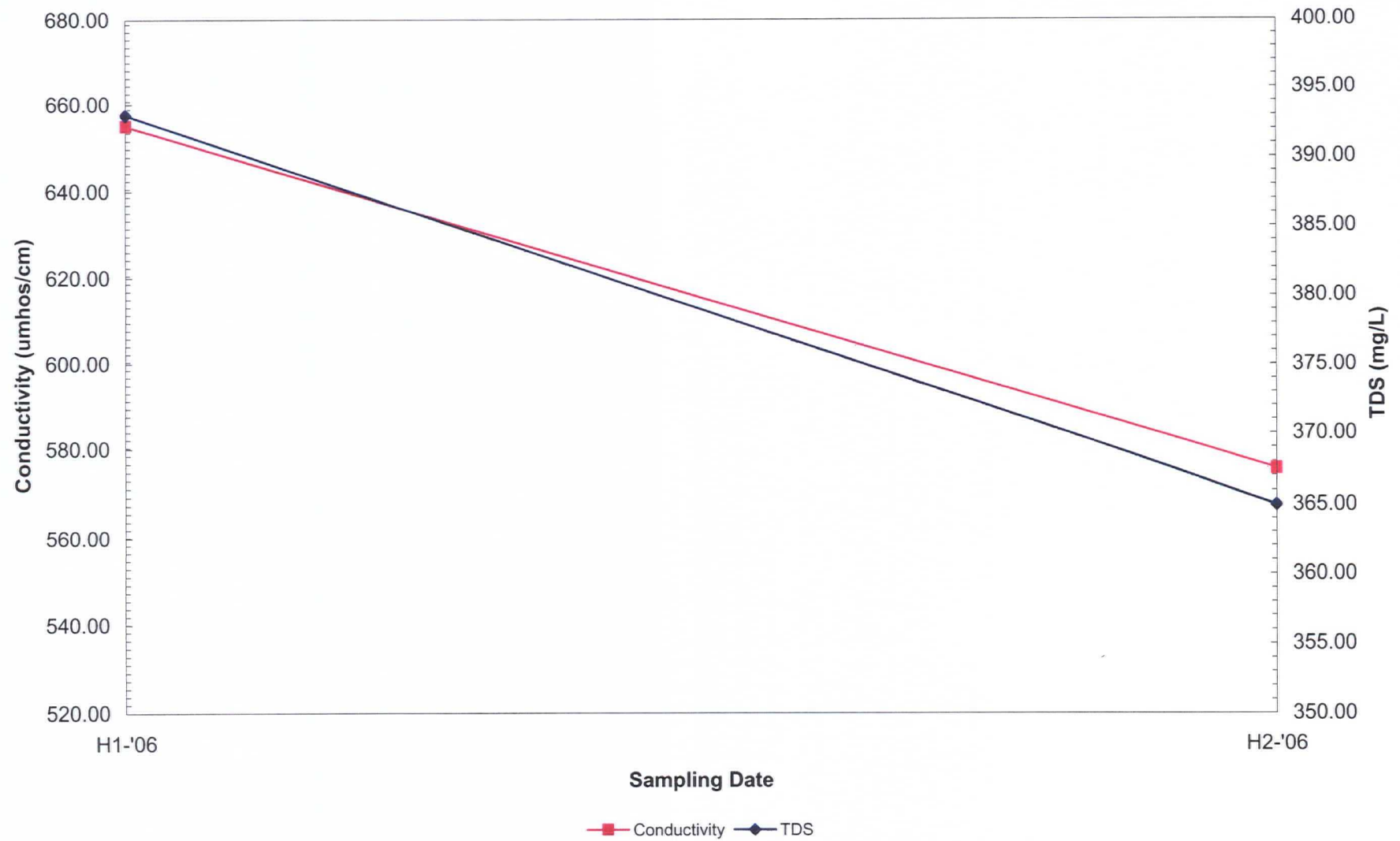
# Monitoring Well SMR-1



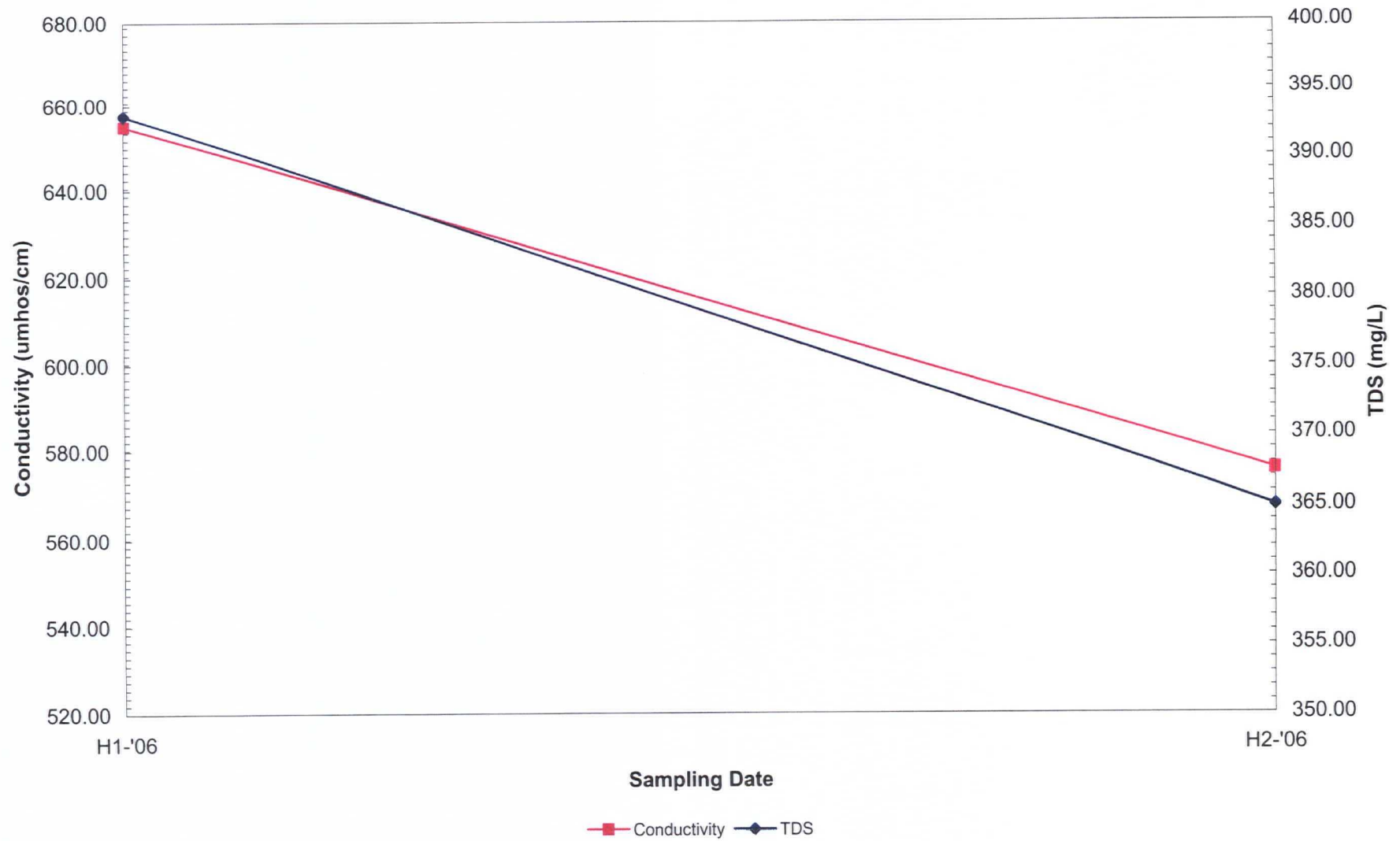
# Monitoring Well GW-1



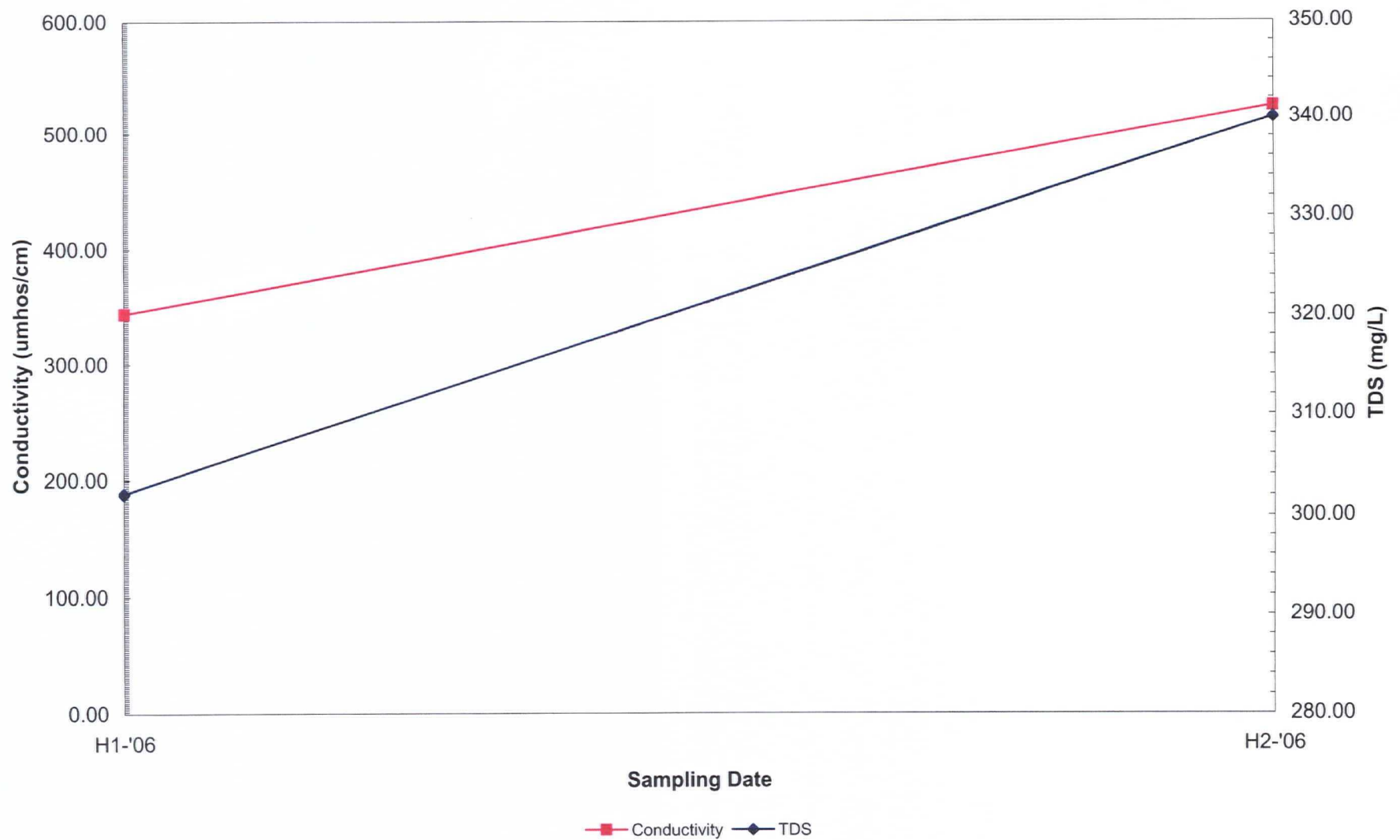
## Monitoring Well GW-2



### Monitoring Well GW-3

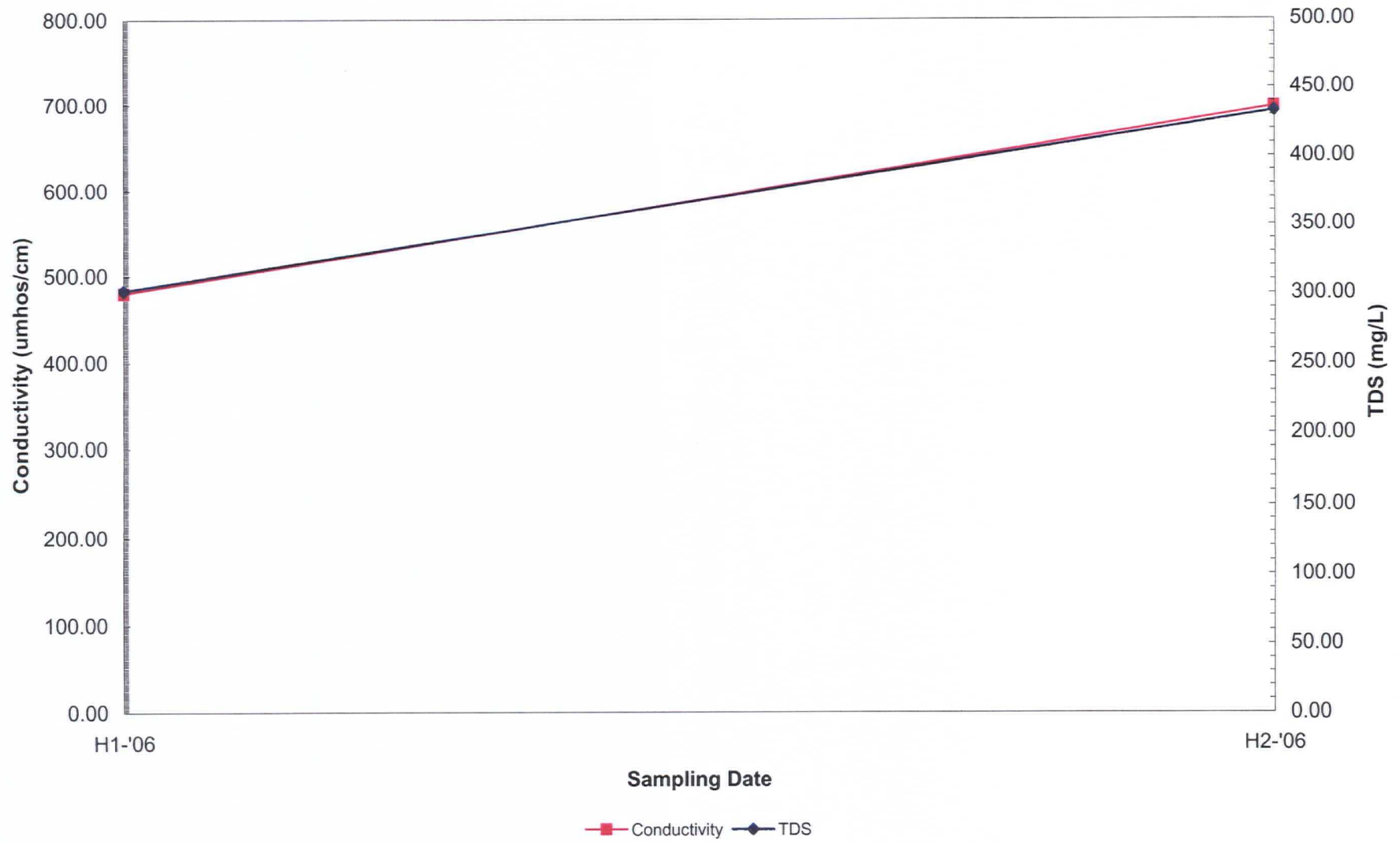


### Monitoring Well GW-4

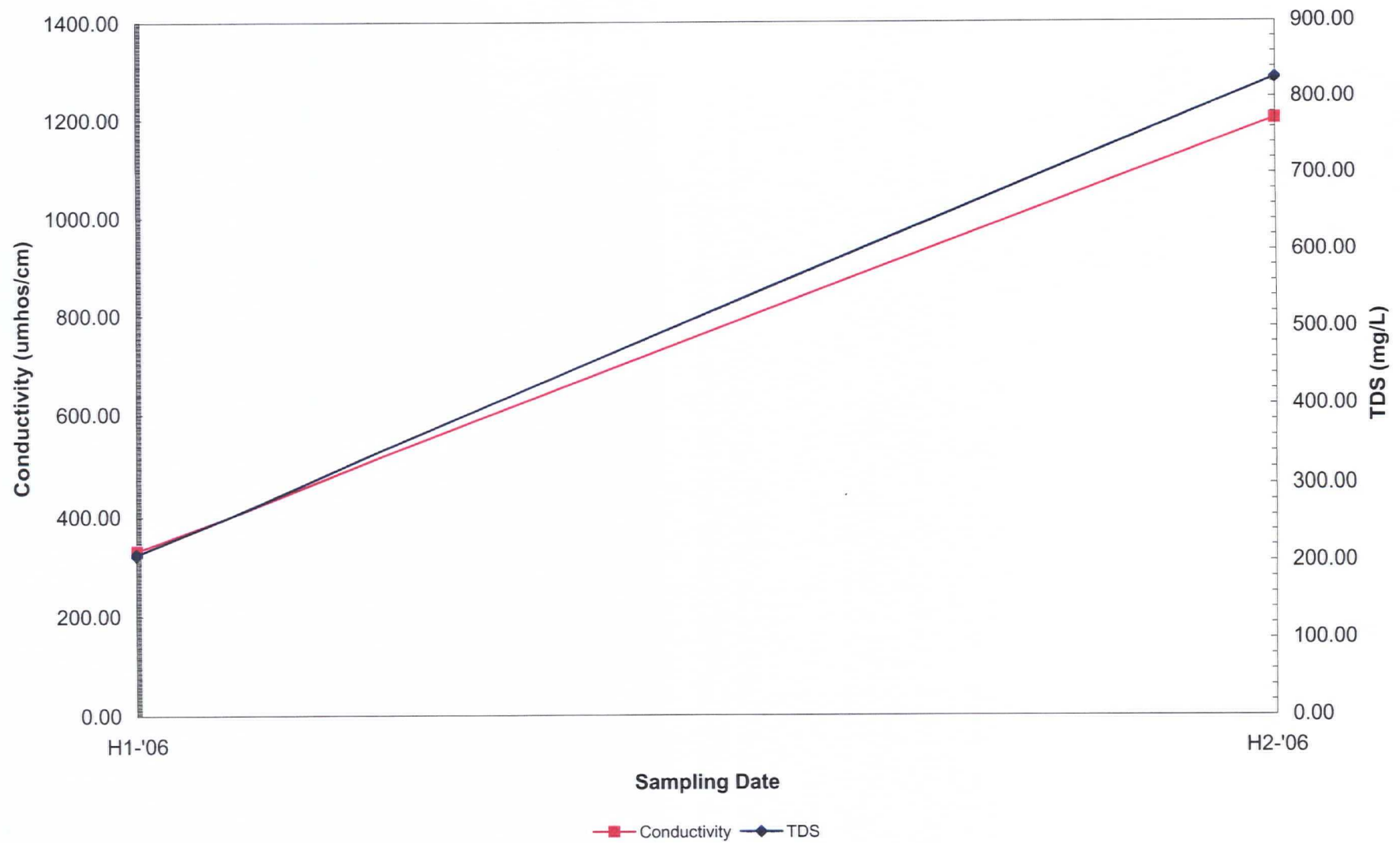




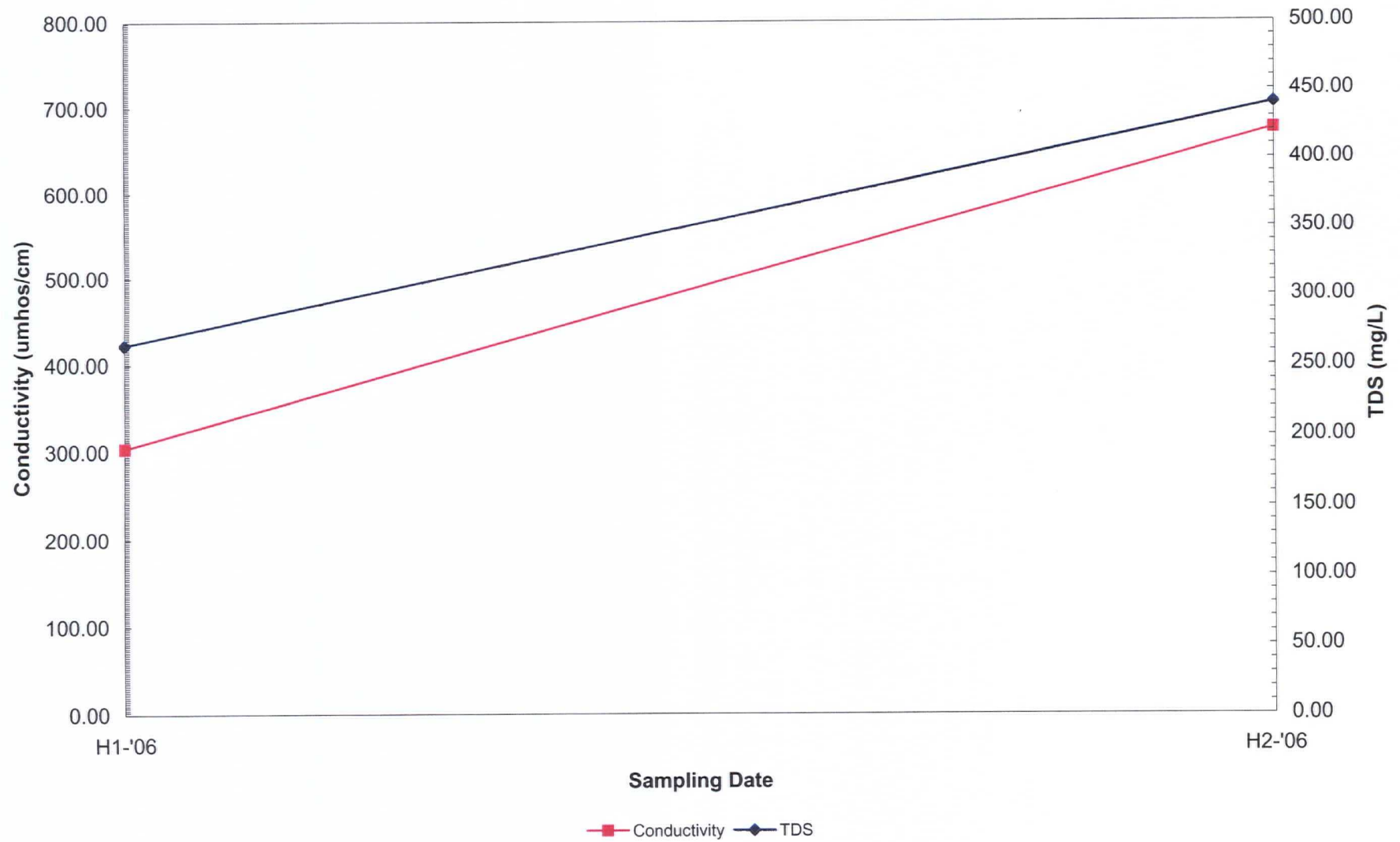
## Monitoring Well GW-5



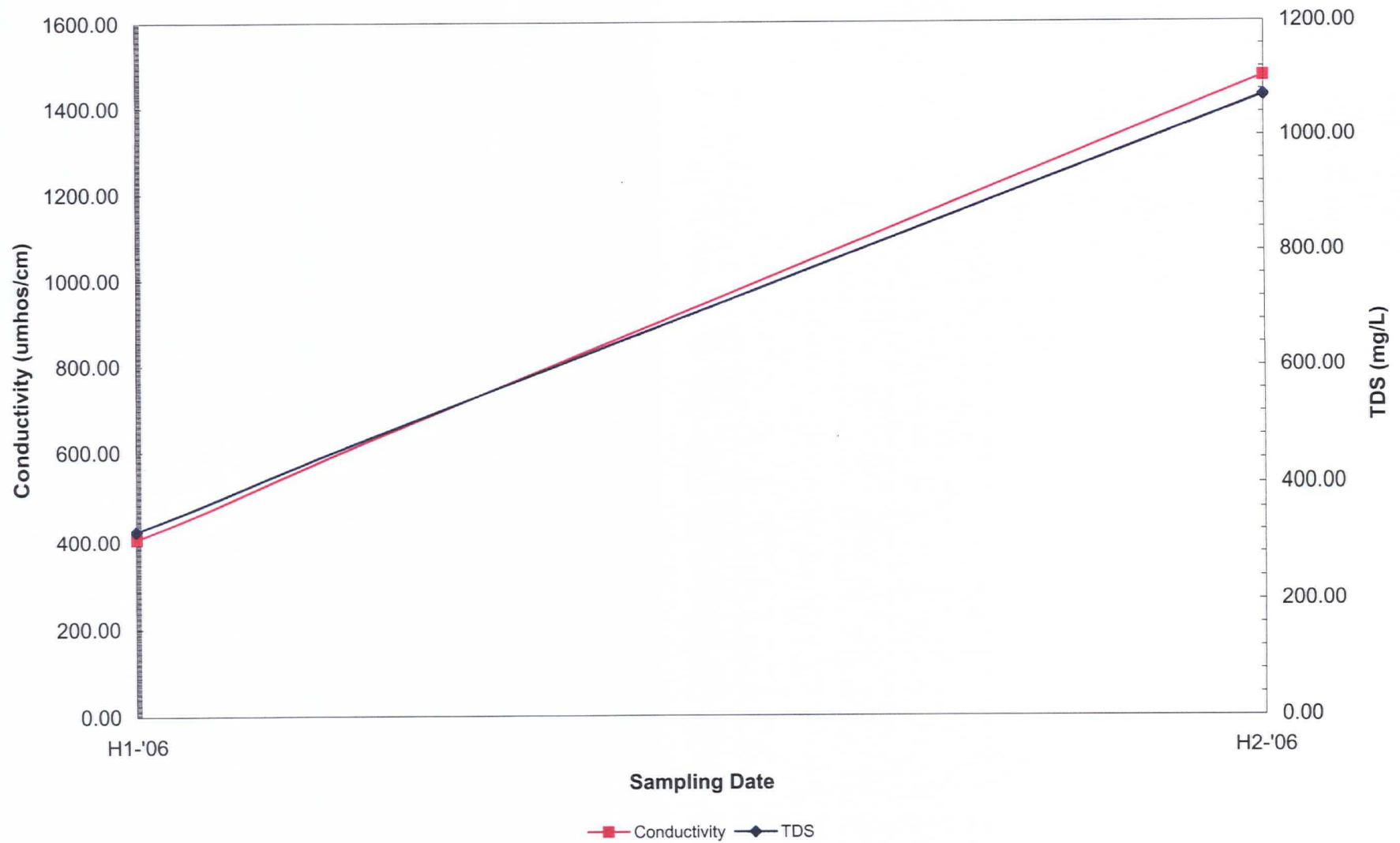
## Monitoring Well GW-6



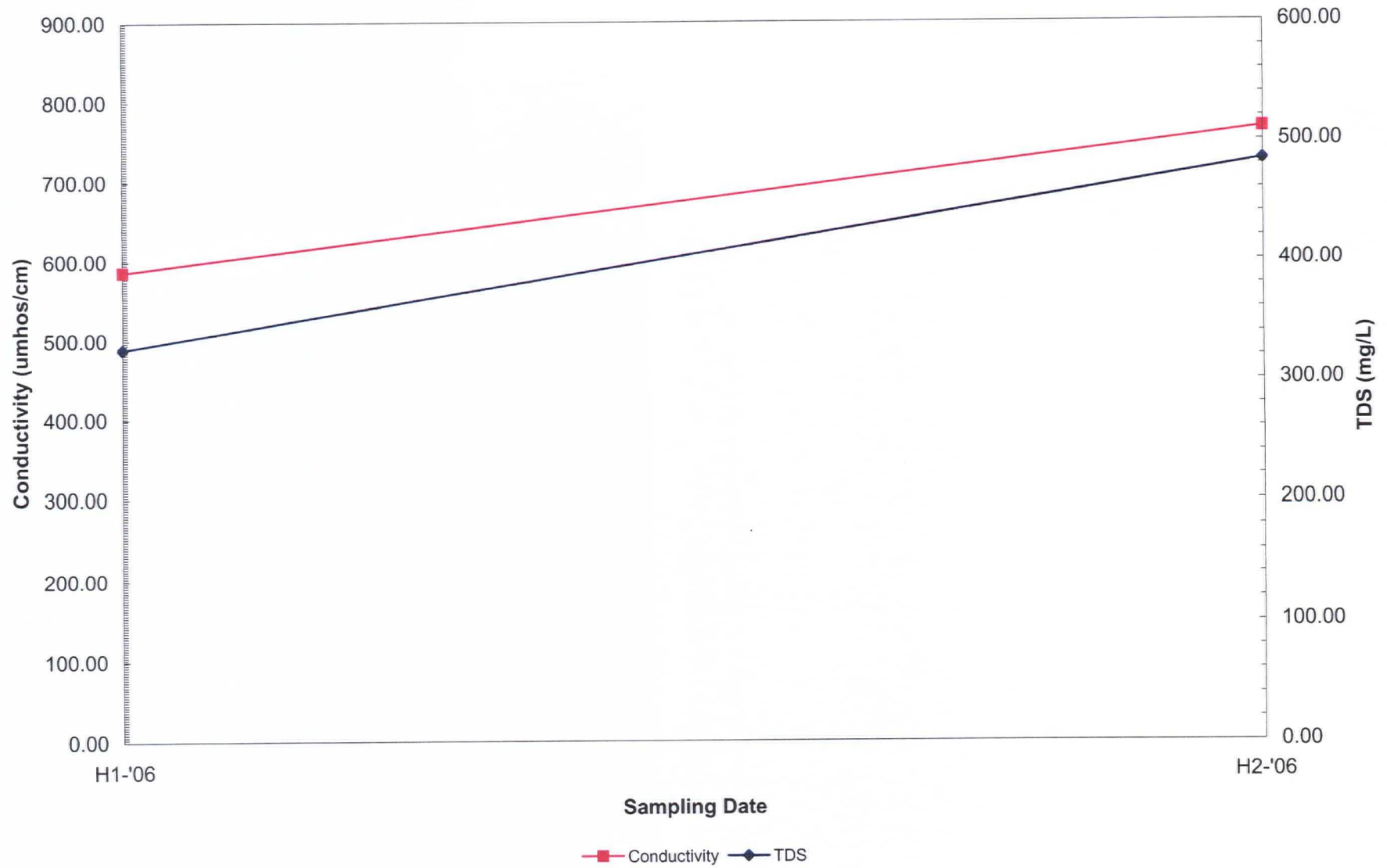
# Monitoring Well GW-7



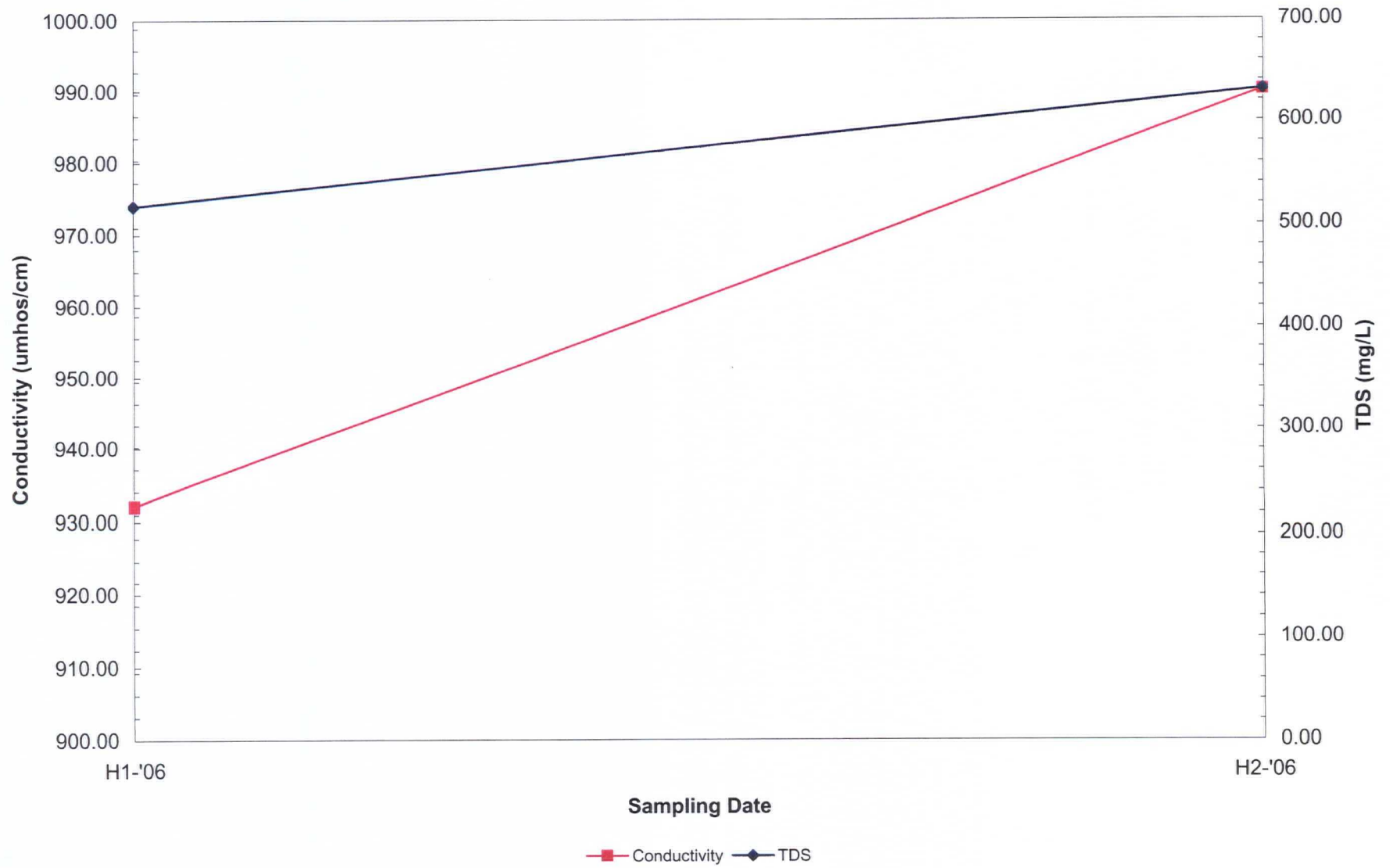
## Monitoring Well GW-8



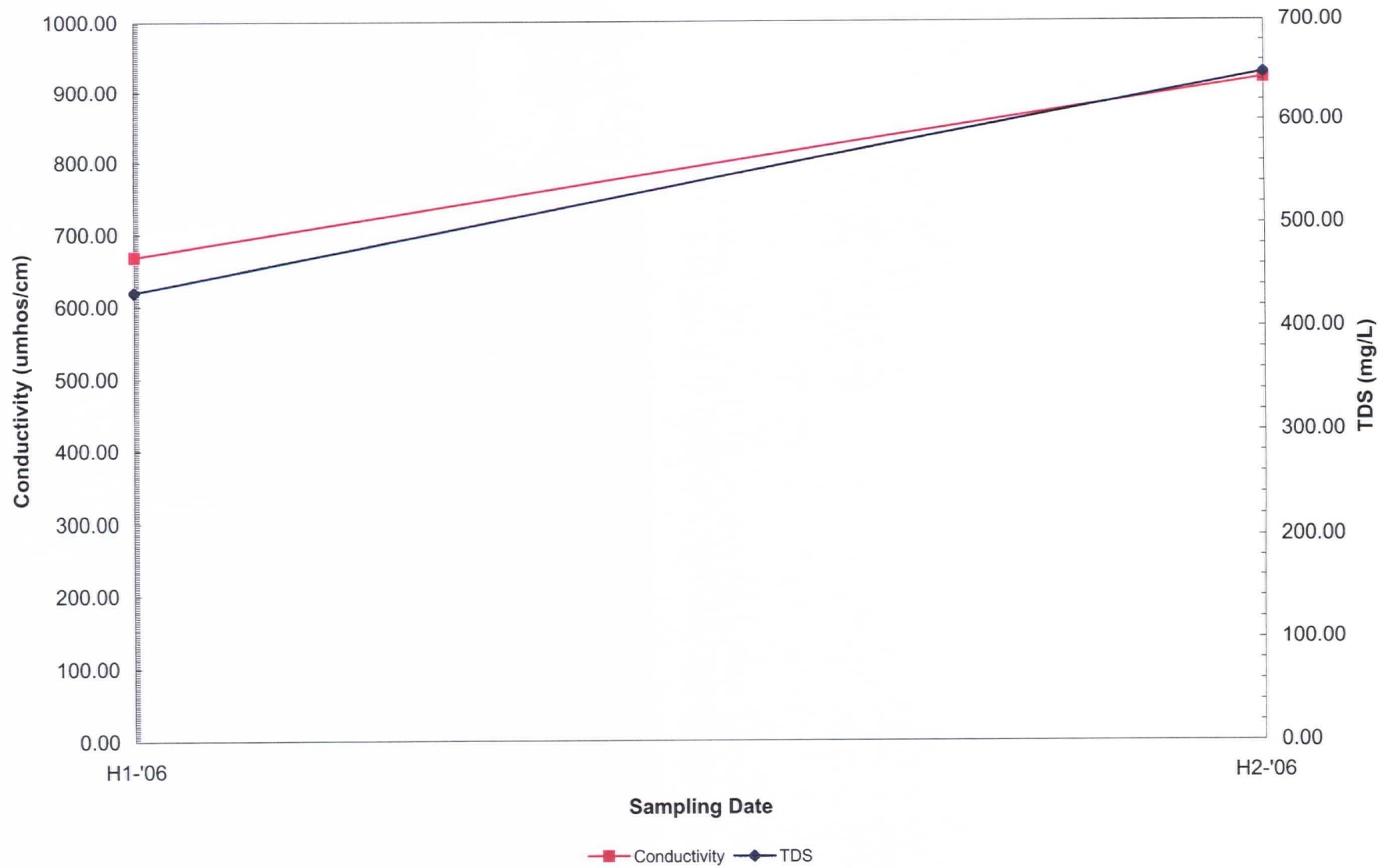
### Monitoring Well GW-9



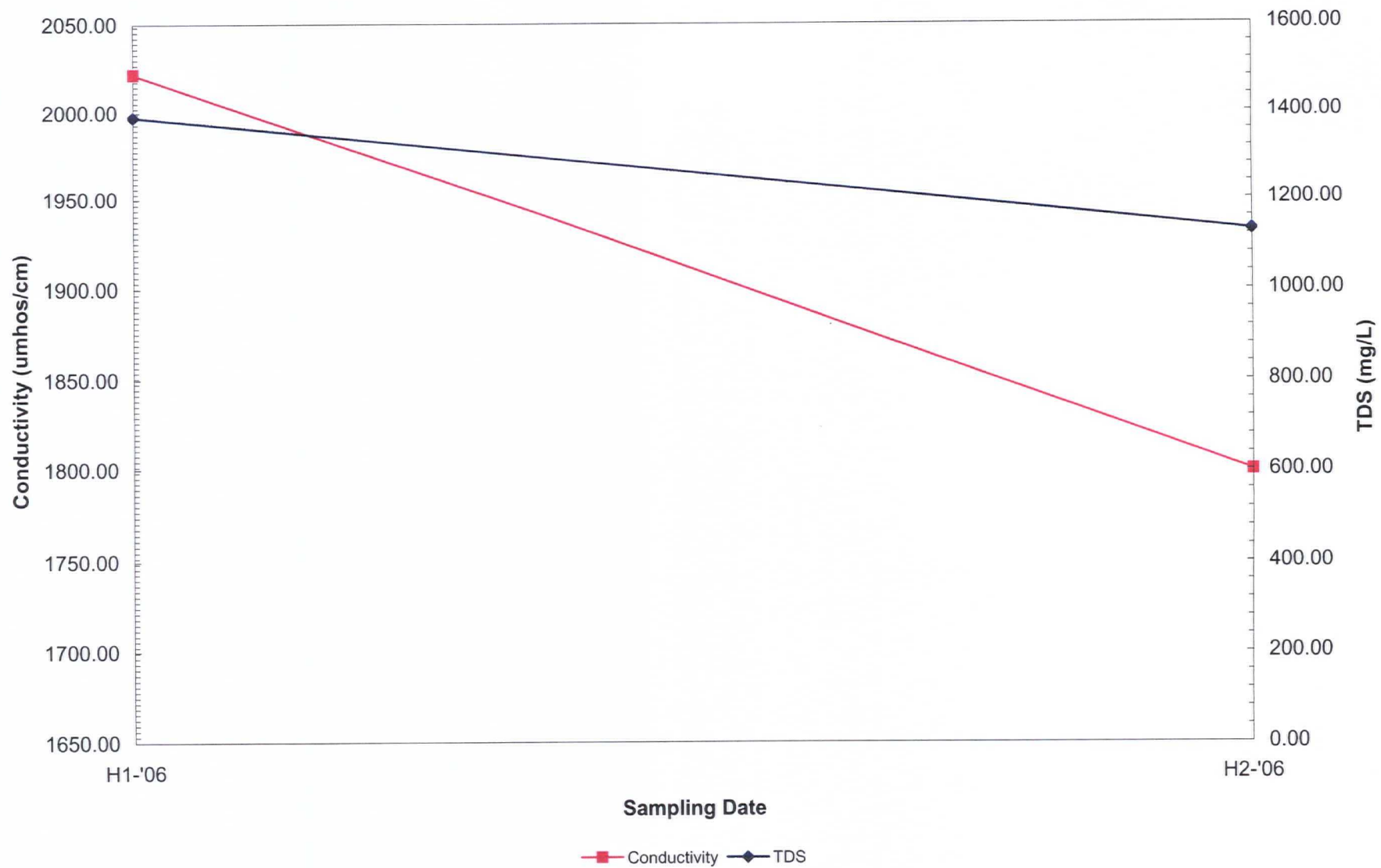
# Monitoring Well GW-10



## Monitoring Well GW-12

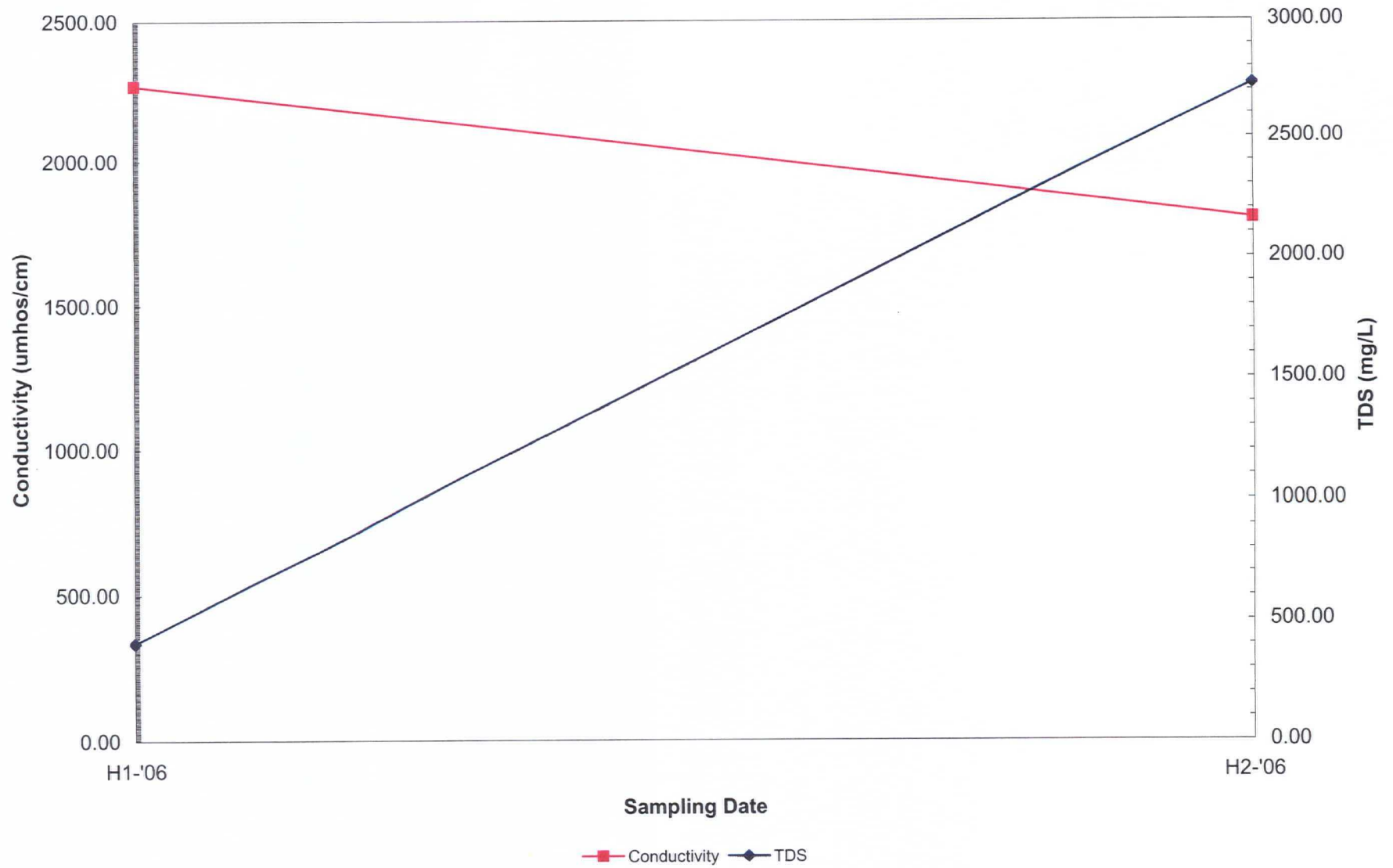


### Monitoring Well GW-13

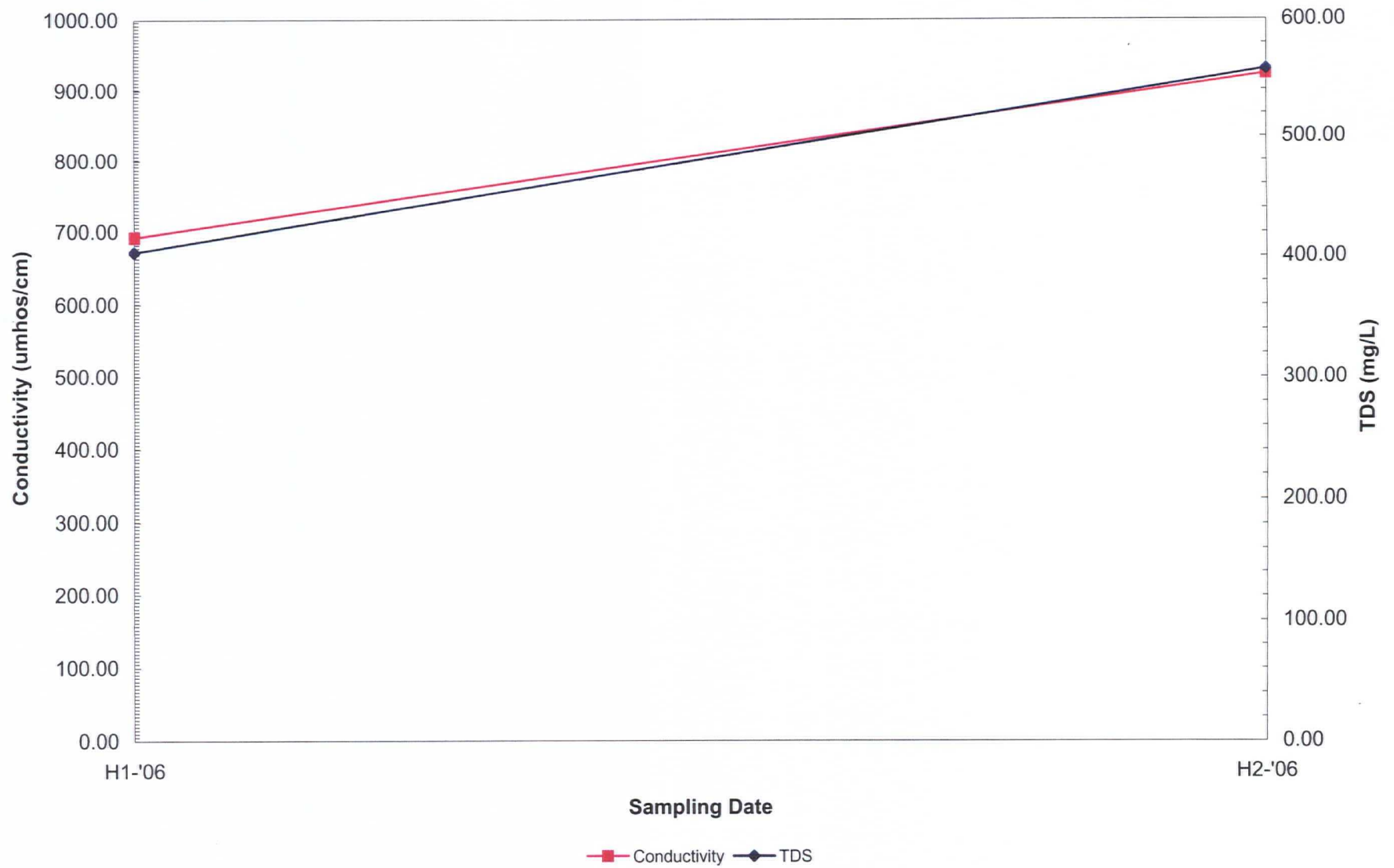




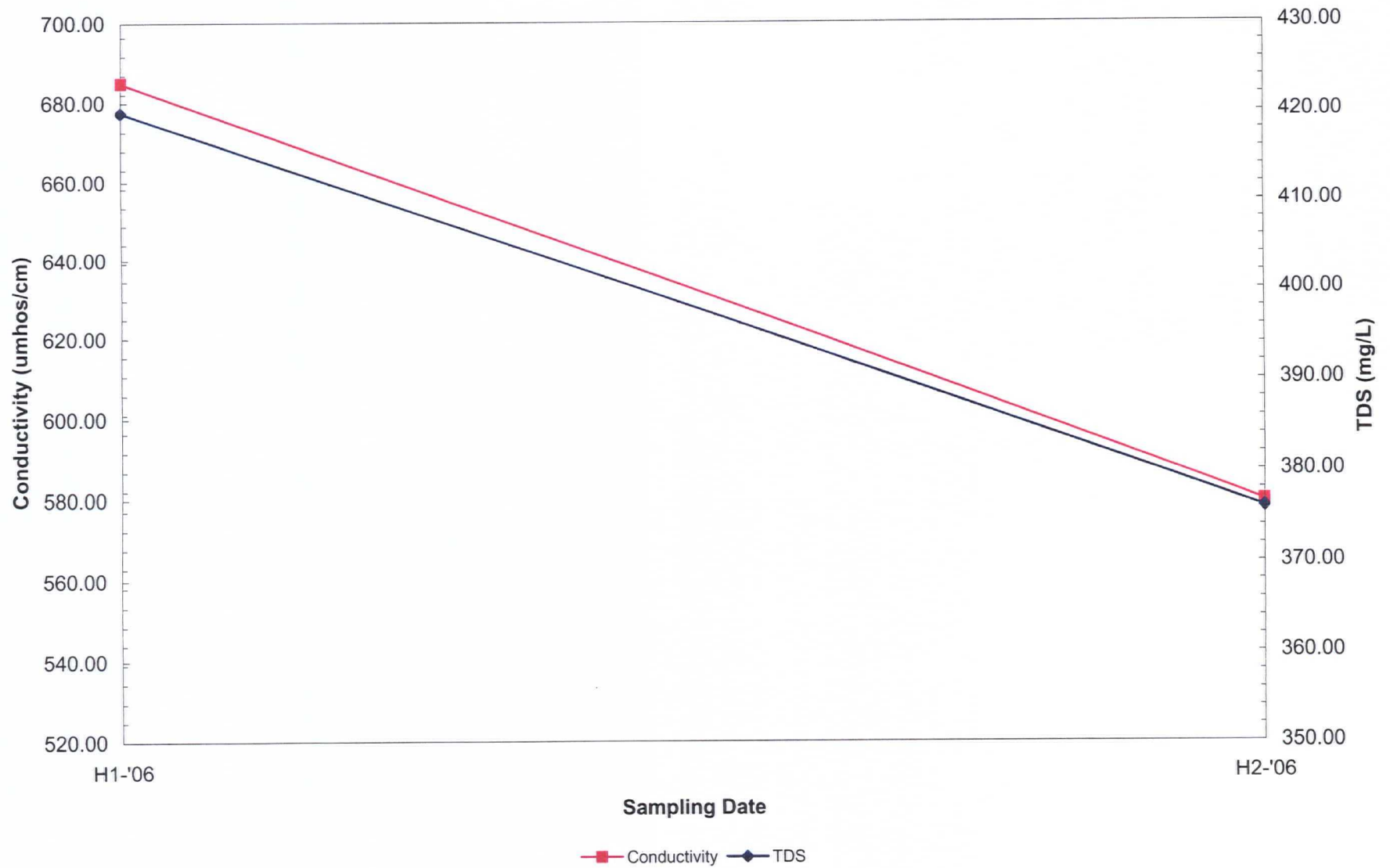
### Monitoring Well GW-14



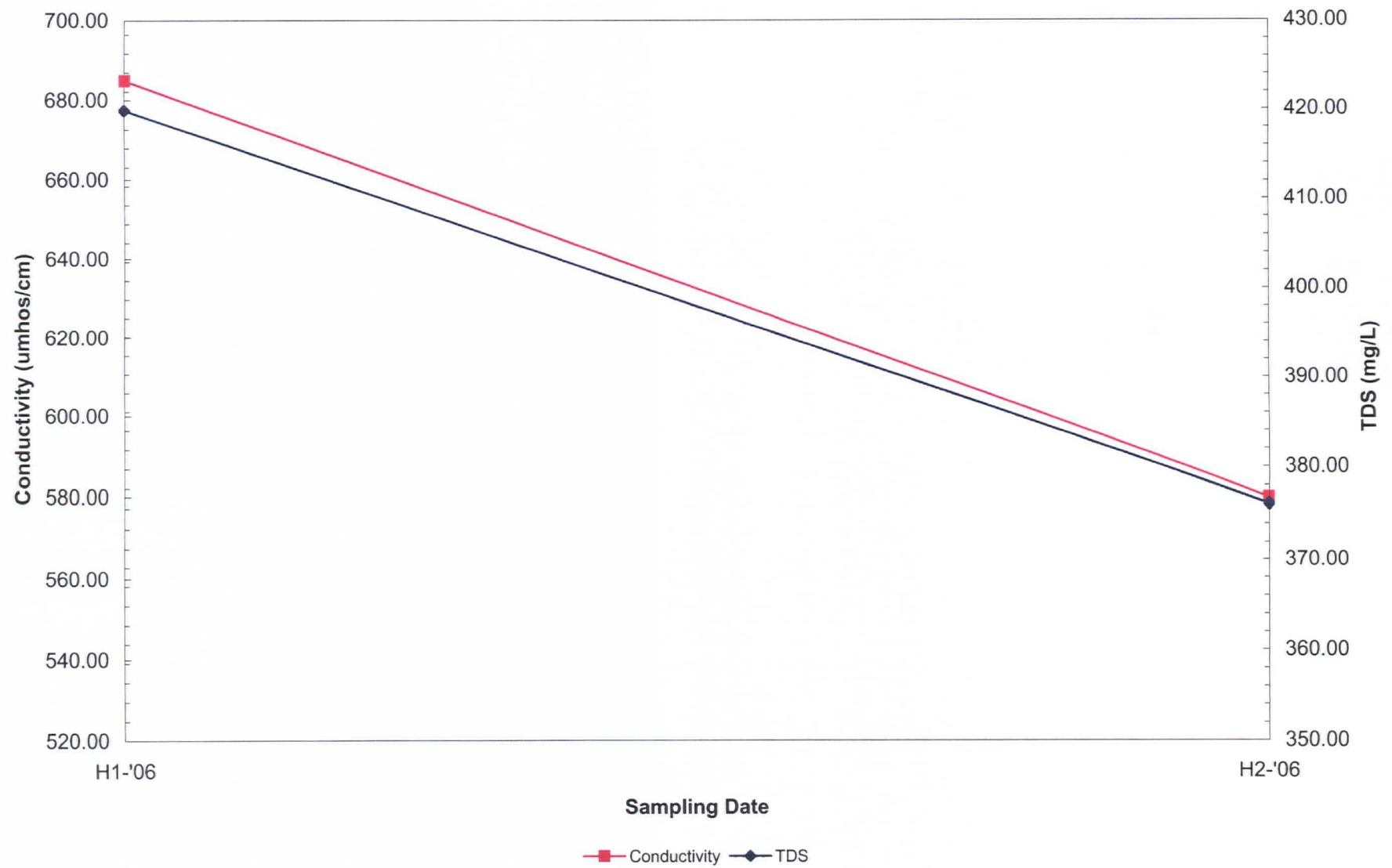
## Monitoring Well GW-15



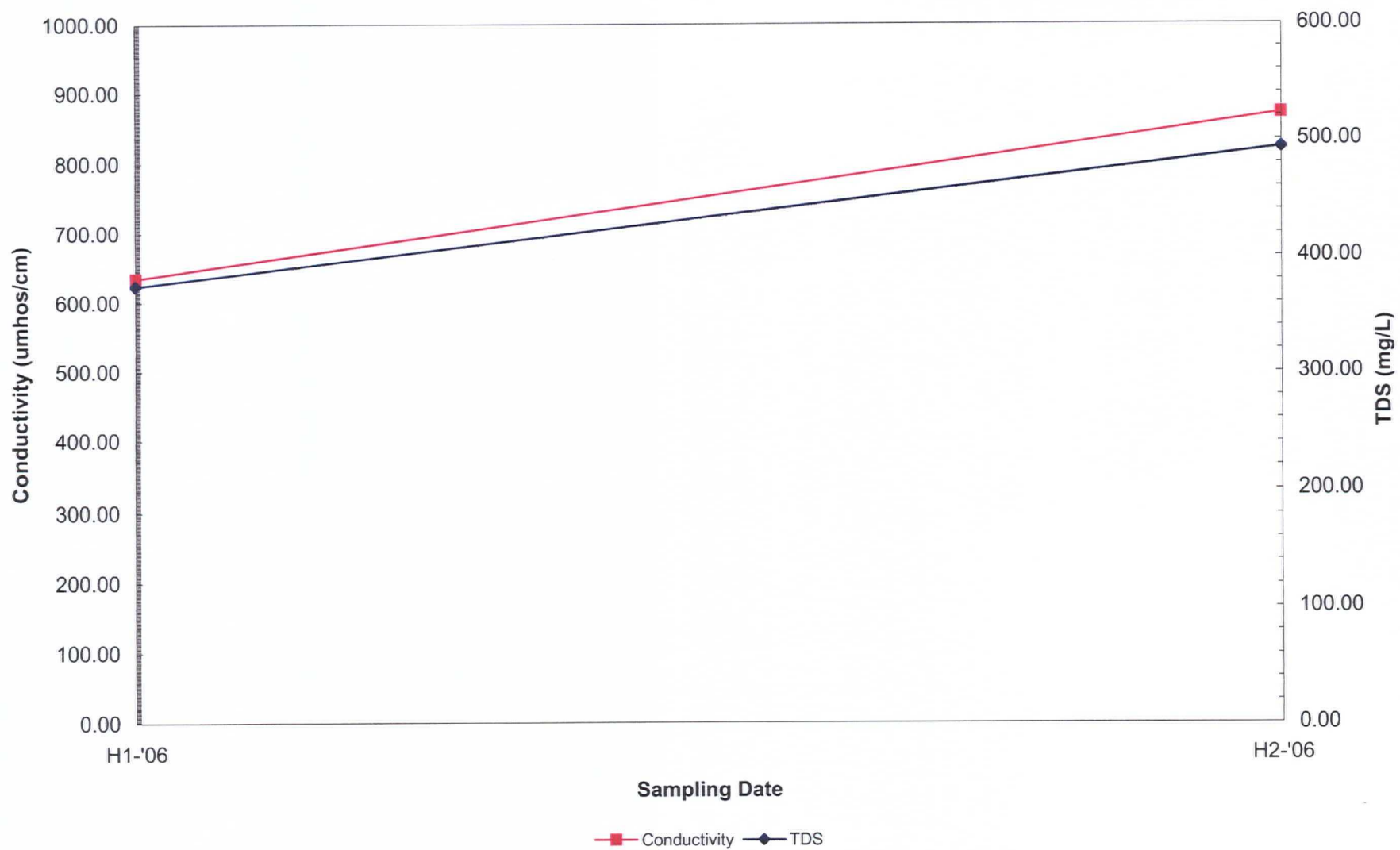
### Monitoring Well GW-16



### Monitoring Well GW-17



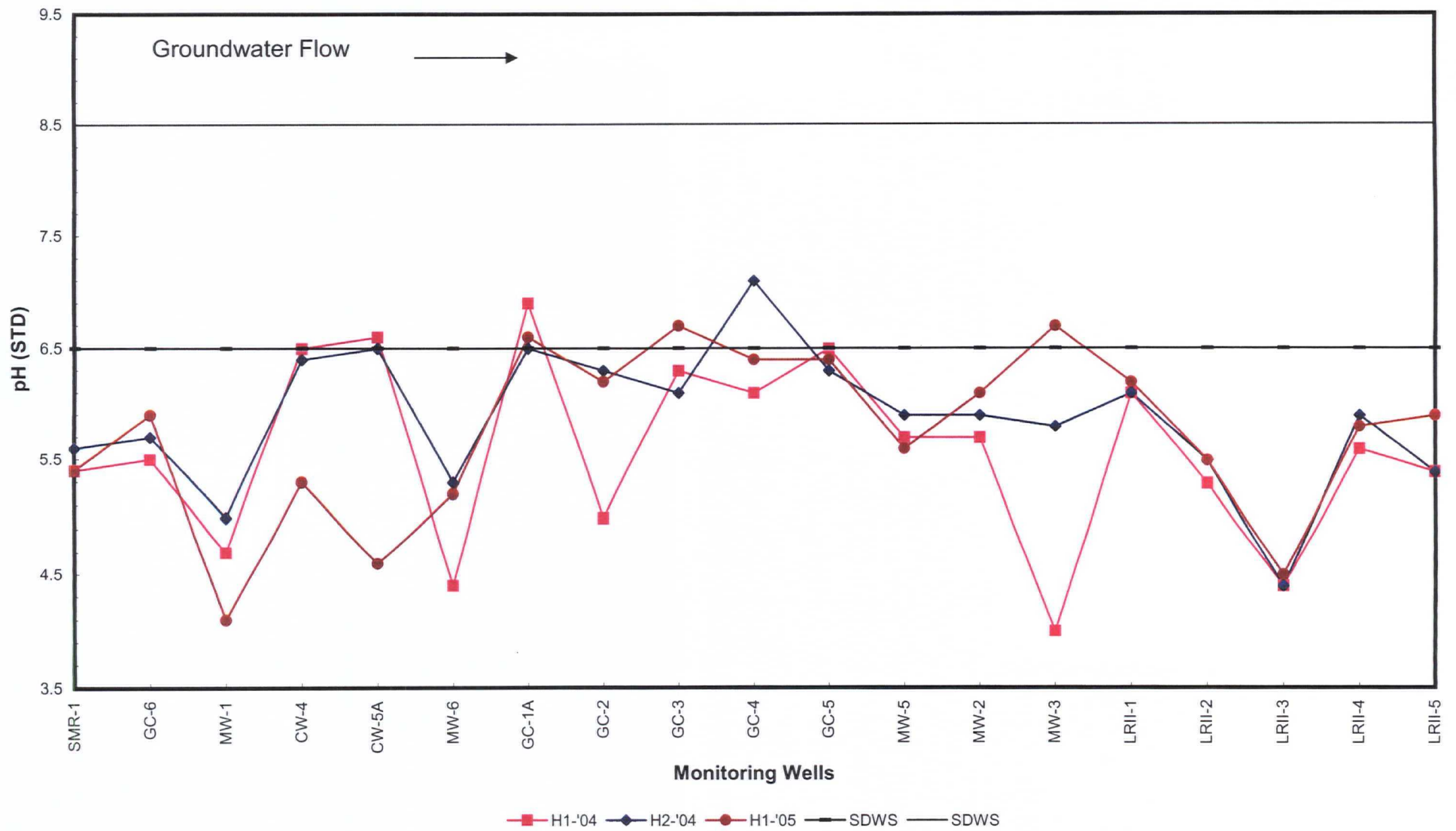
## Monitoring Well BGW-1



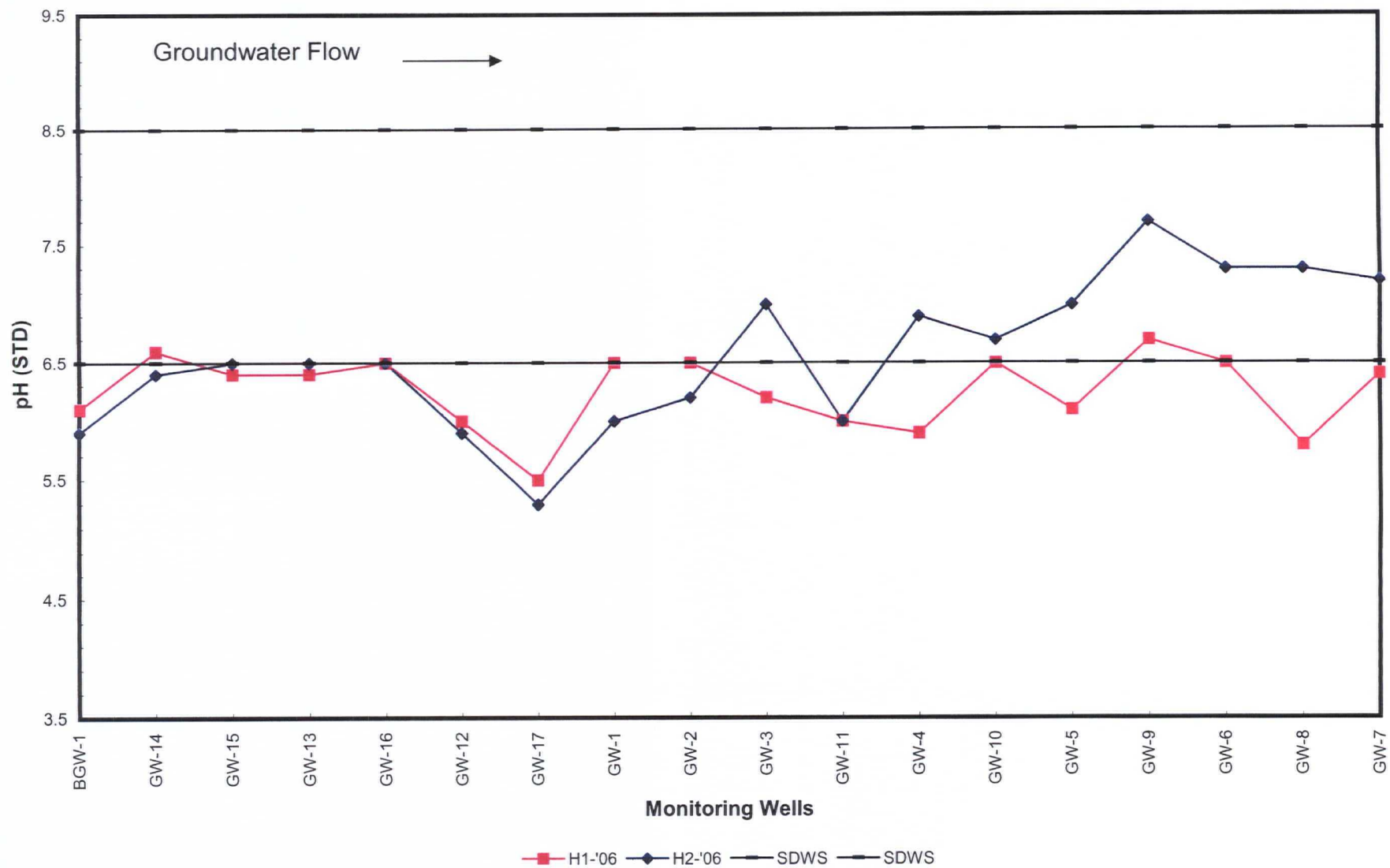
**APPENDIX C**

**Cross-Gradient Graphs**

pH Concentration Graph, Old Network

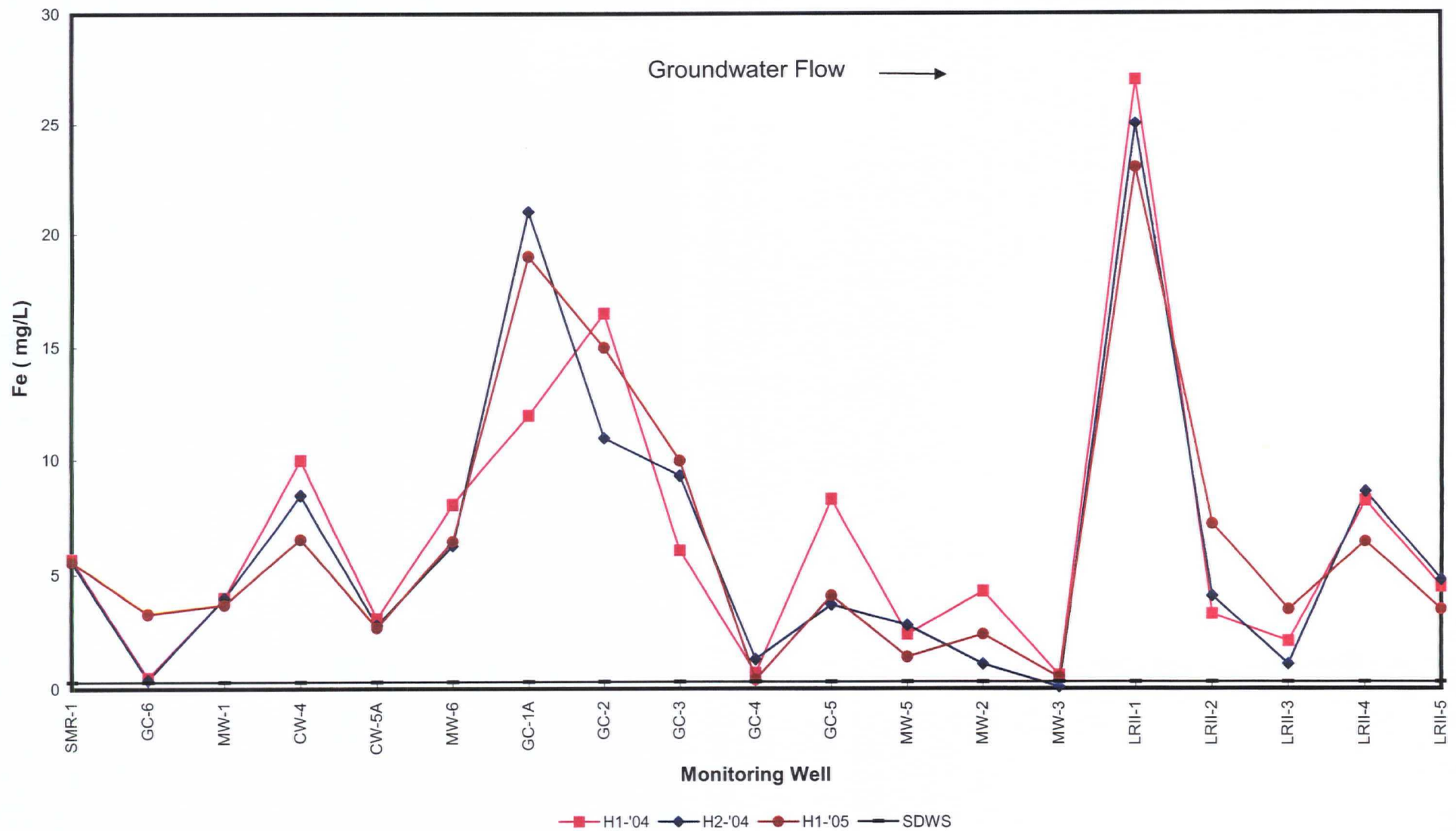


# pH Concentration Graph, New Network

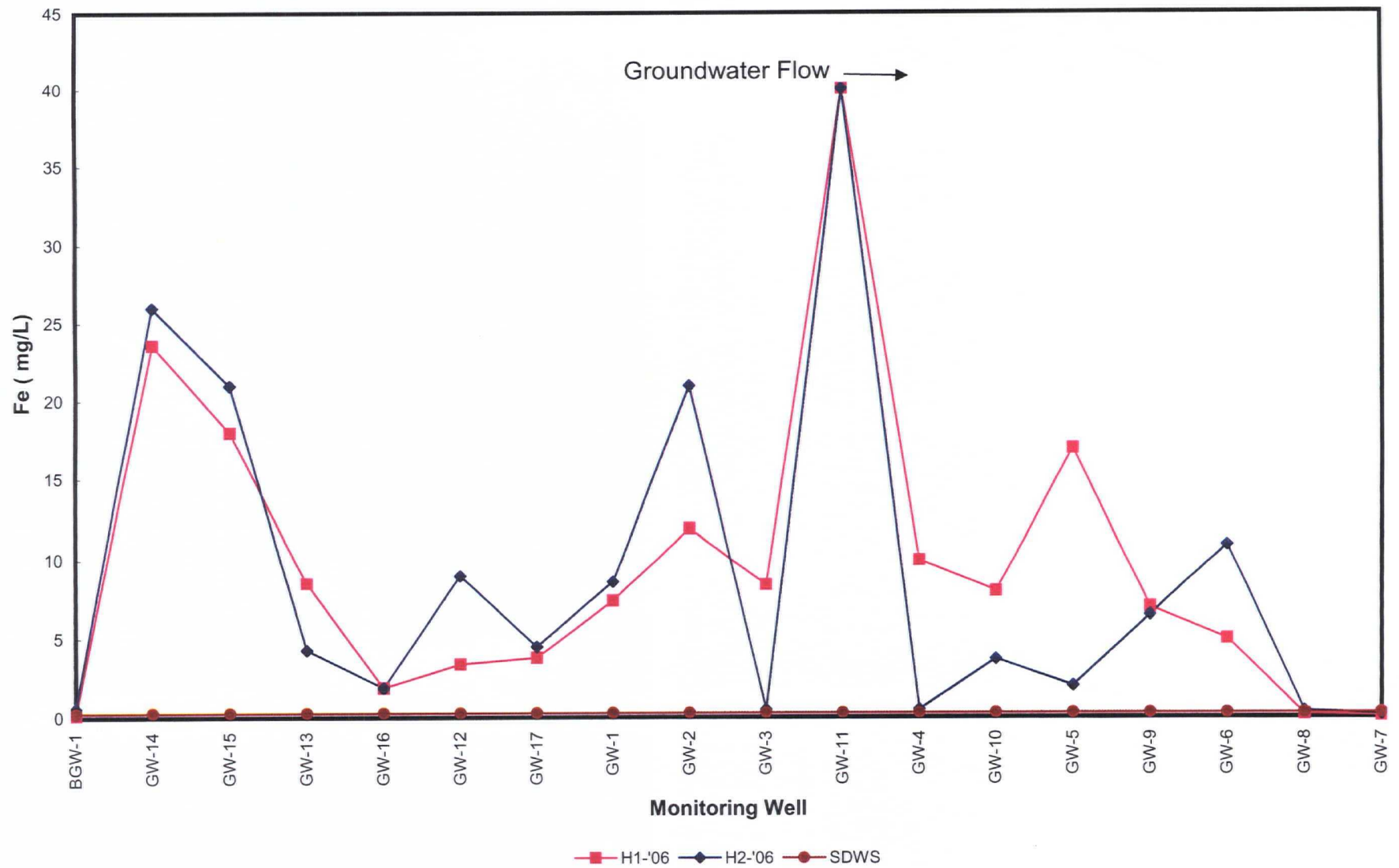




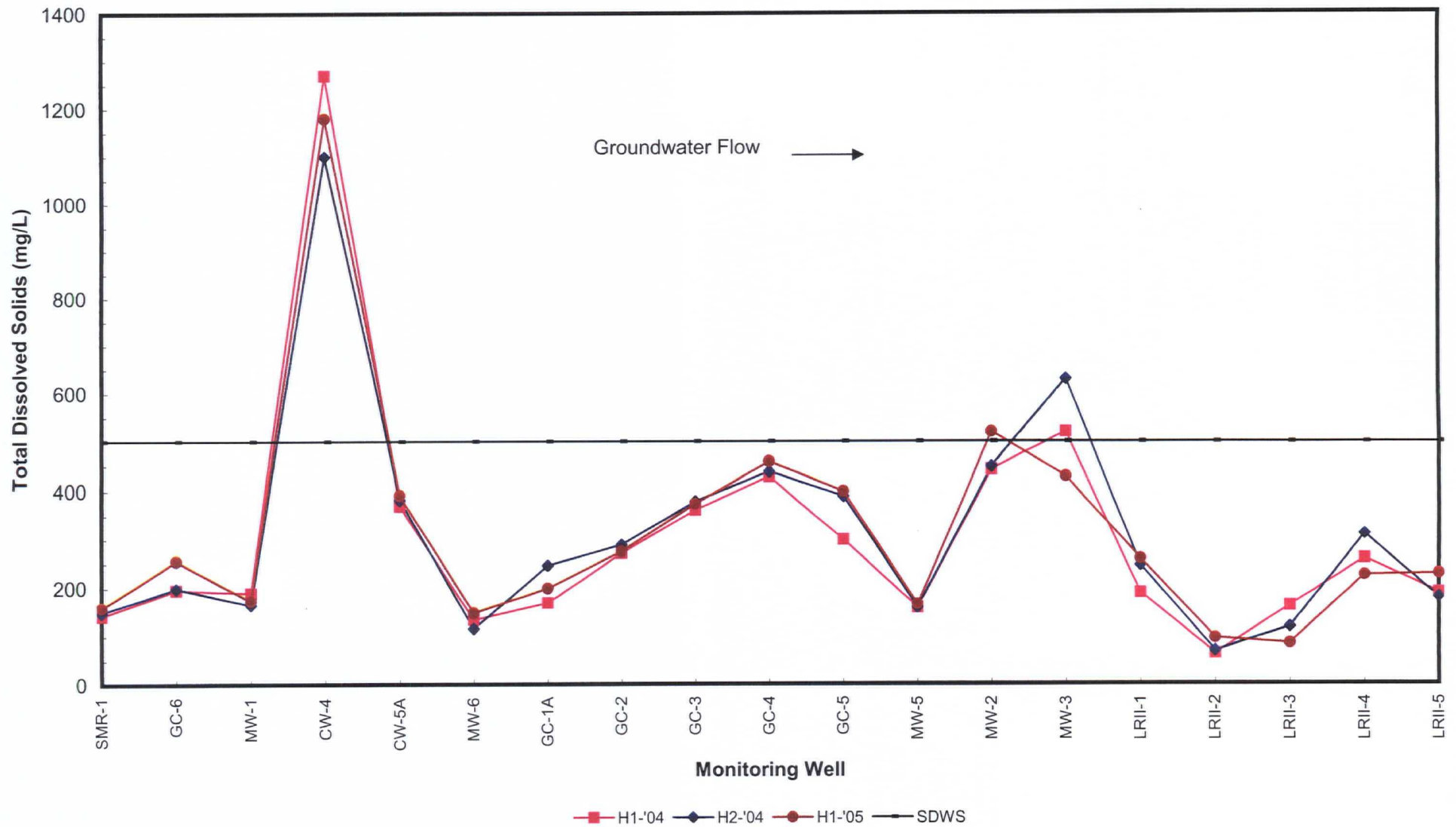
Iron Concentration Graph, Old Network



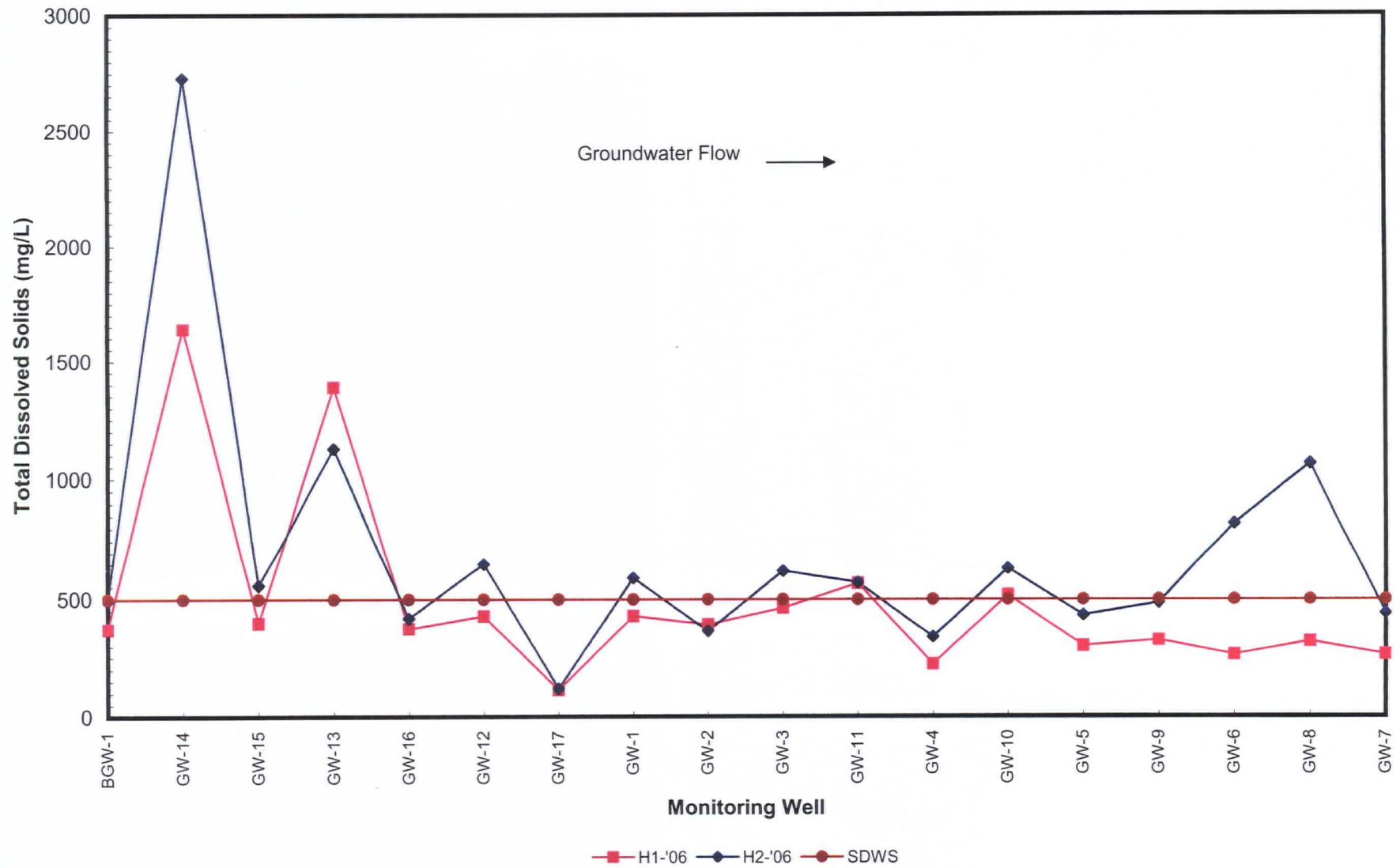
Iron Concentration Graph, New Network



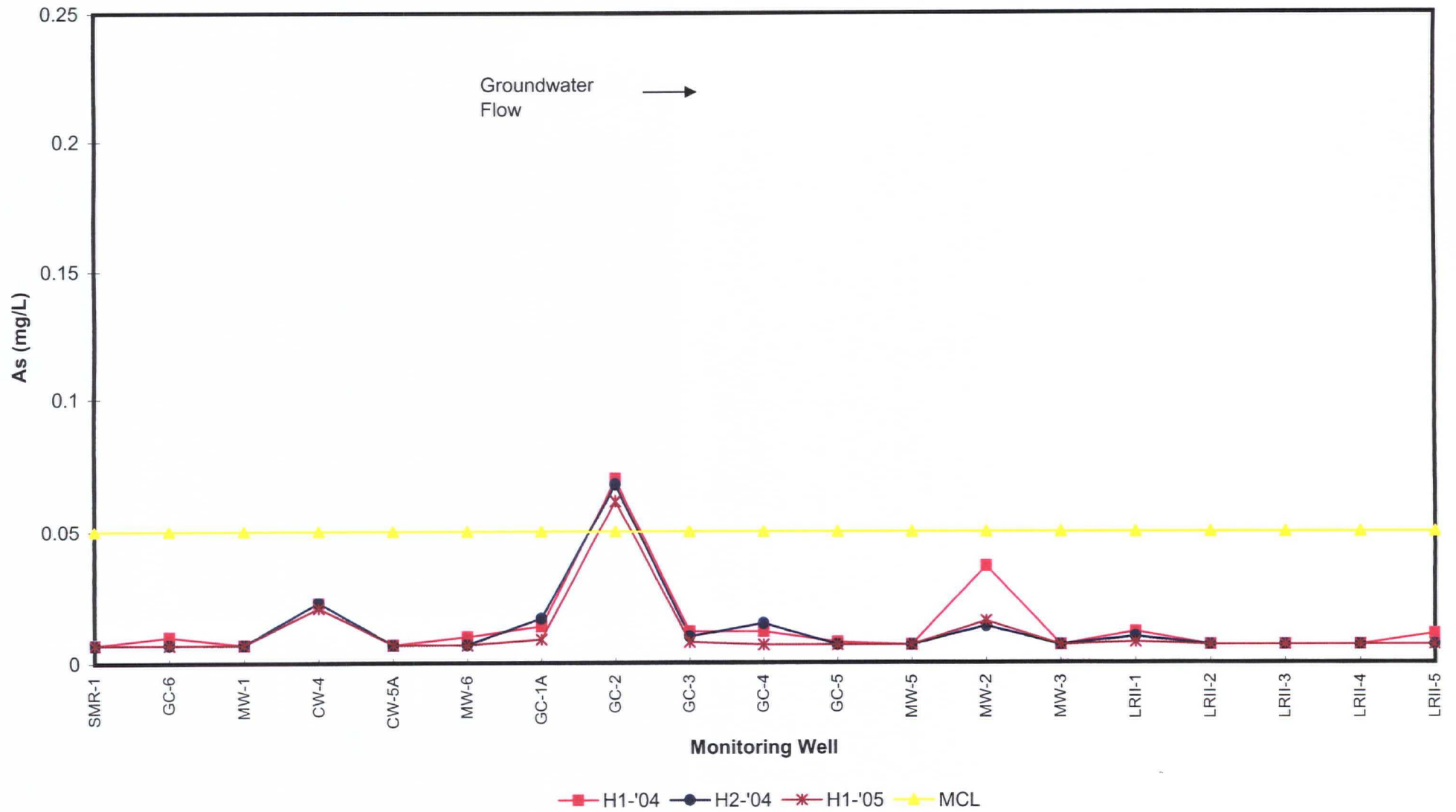
# TDS Concentration Graph, Old Network



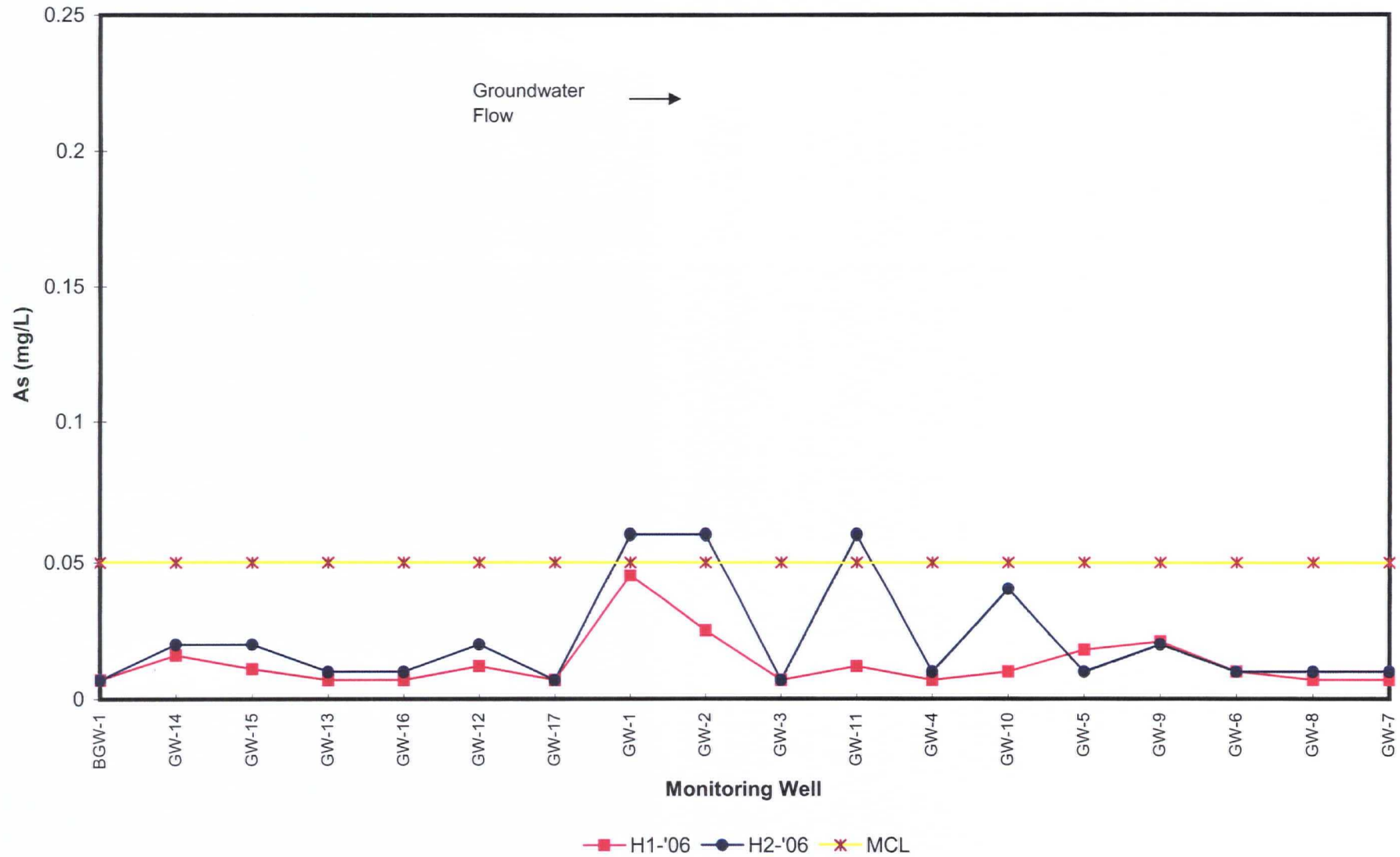
TDS Concentration Graph, New Network



Arsenic Concentration Graph, Old Network



Arsenic Concentration Graph, New Network

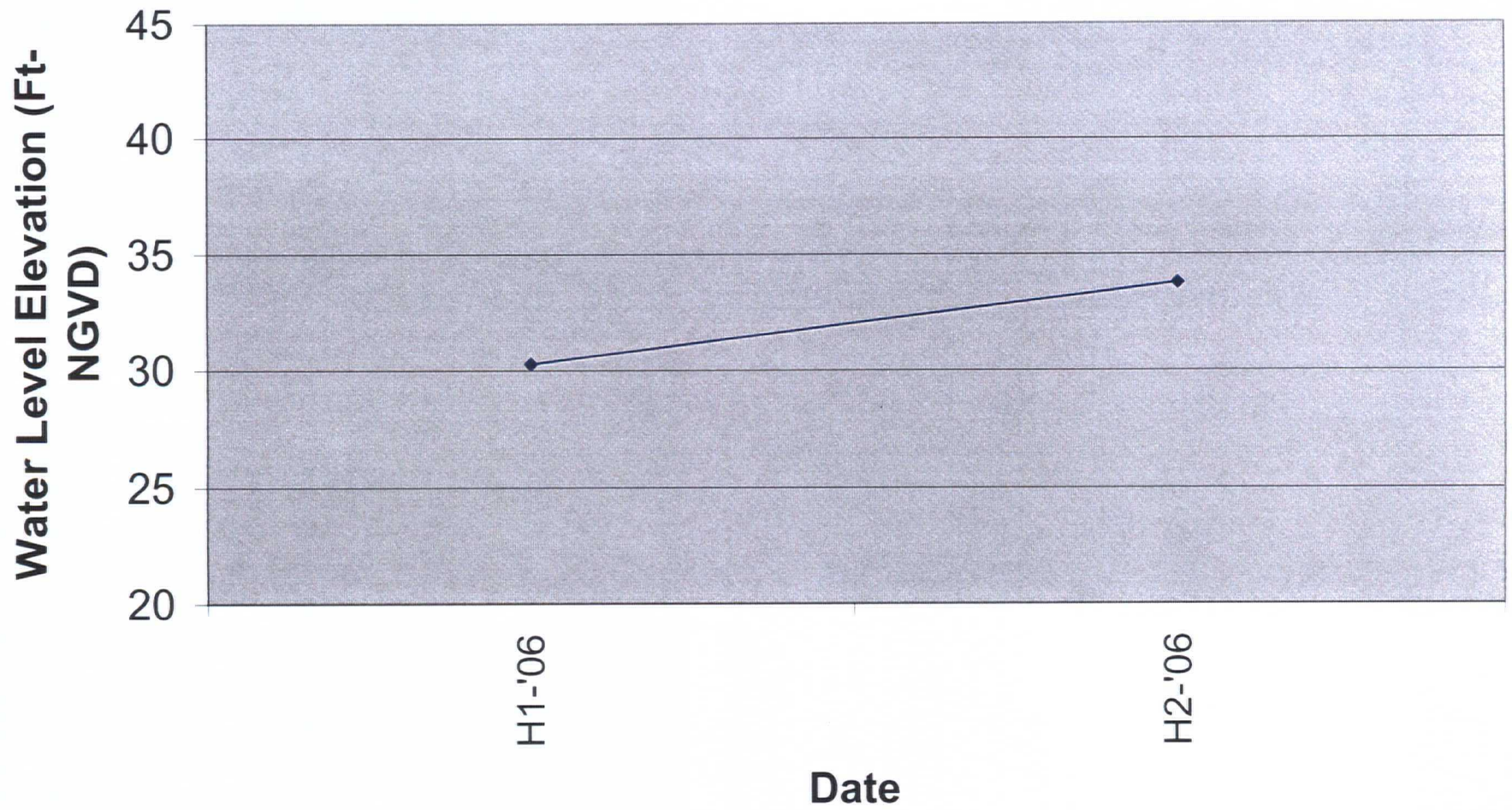


**APPENDIX D**

**Monitoring Well Hydrographs**

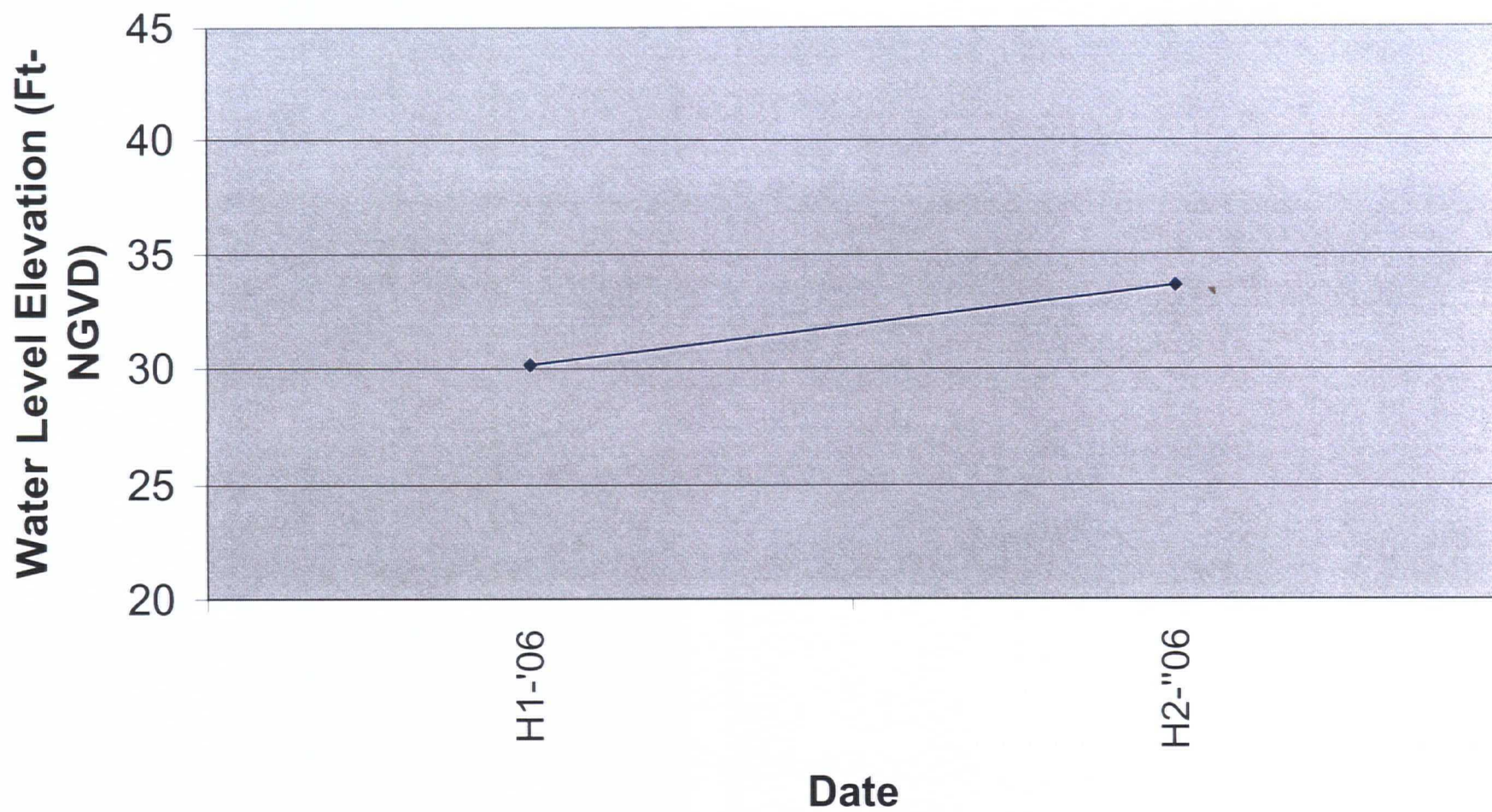


## Hydrograph - GW-1

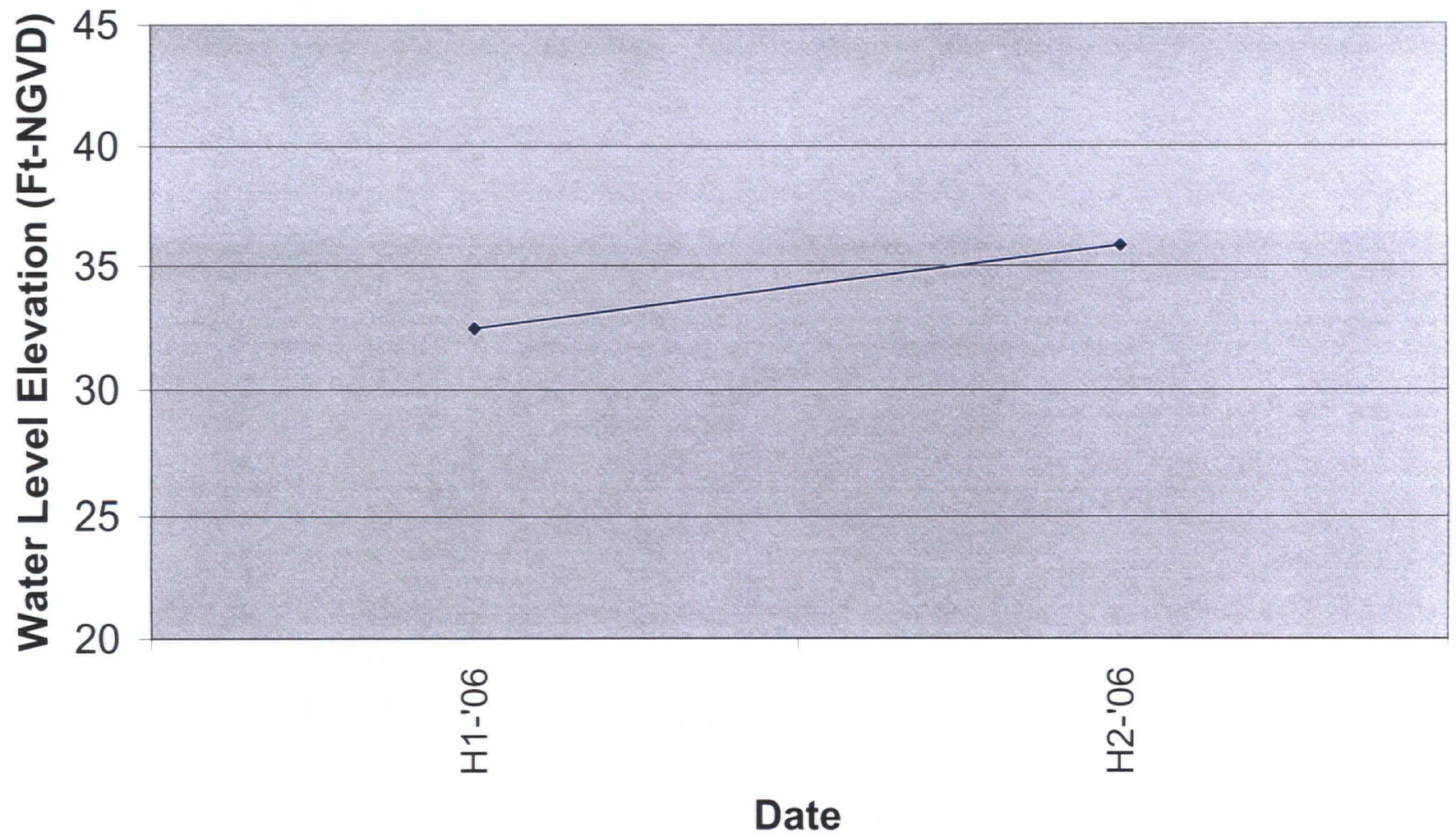




## Hydrograph - GW-2

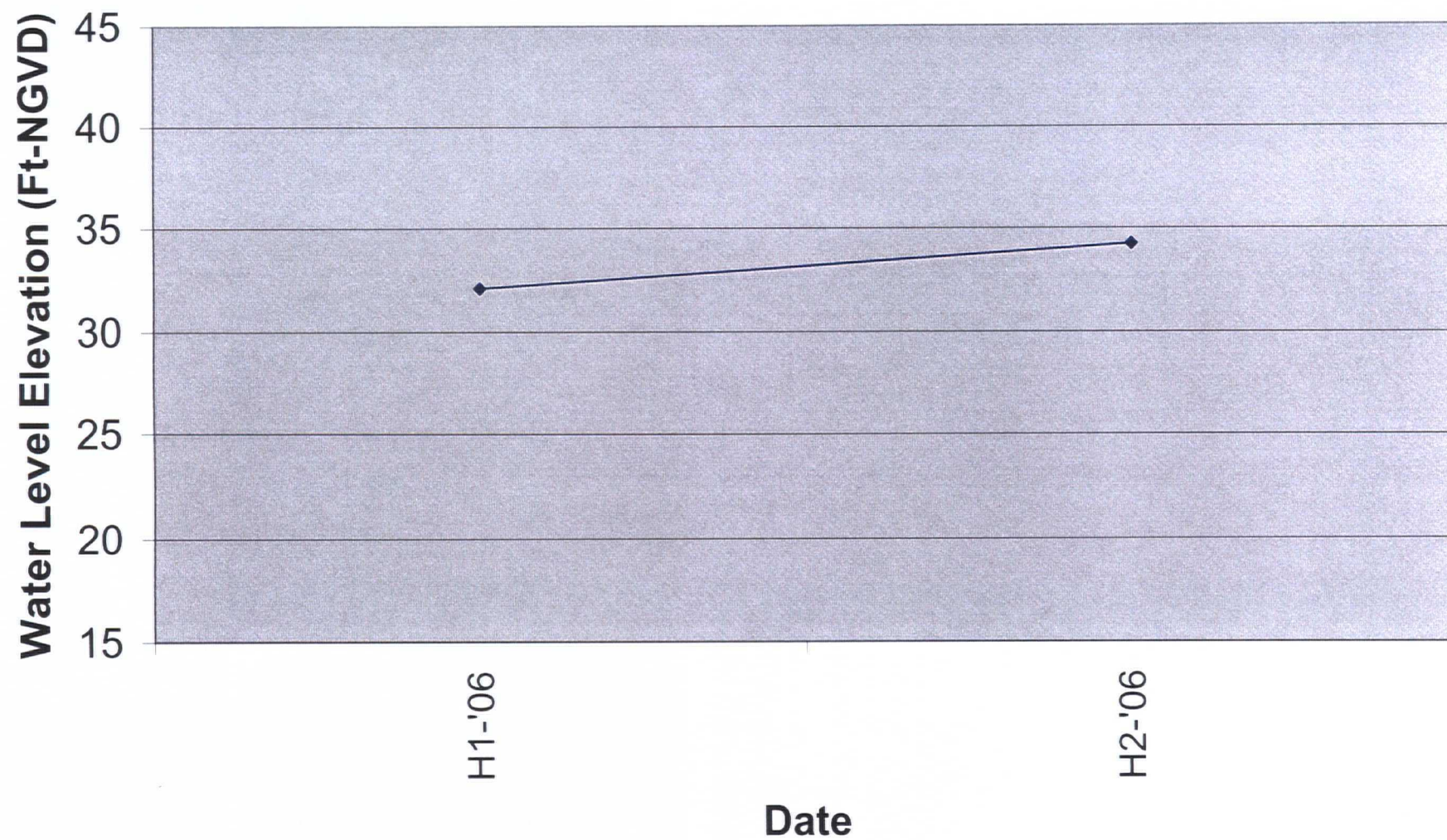


## Hydrograph - GW-3



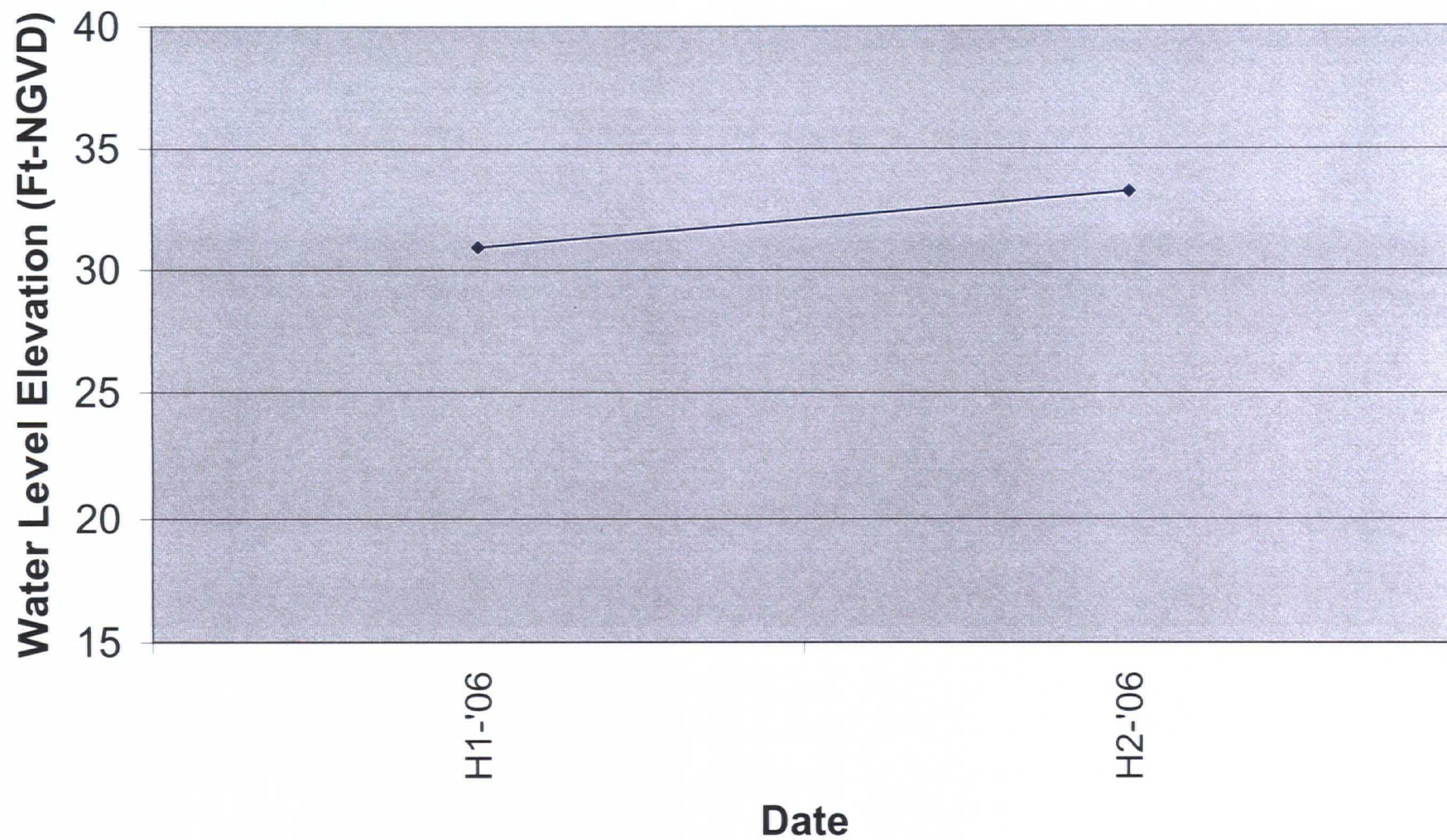


## Hydrograph - GW-4

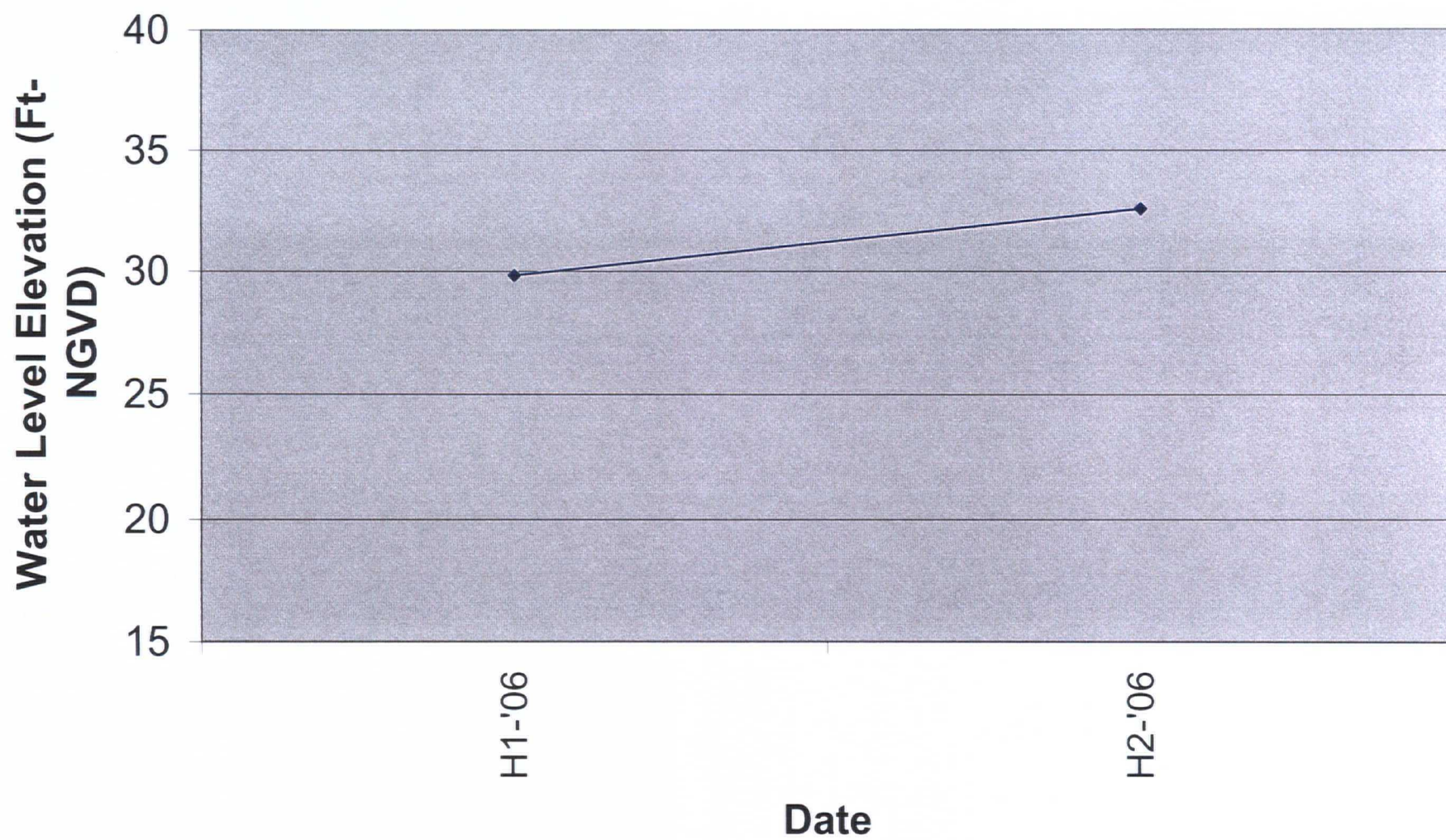




## Hydrograph - GC-4

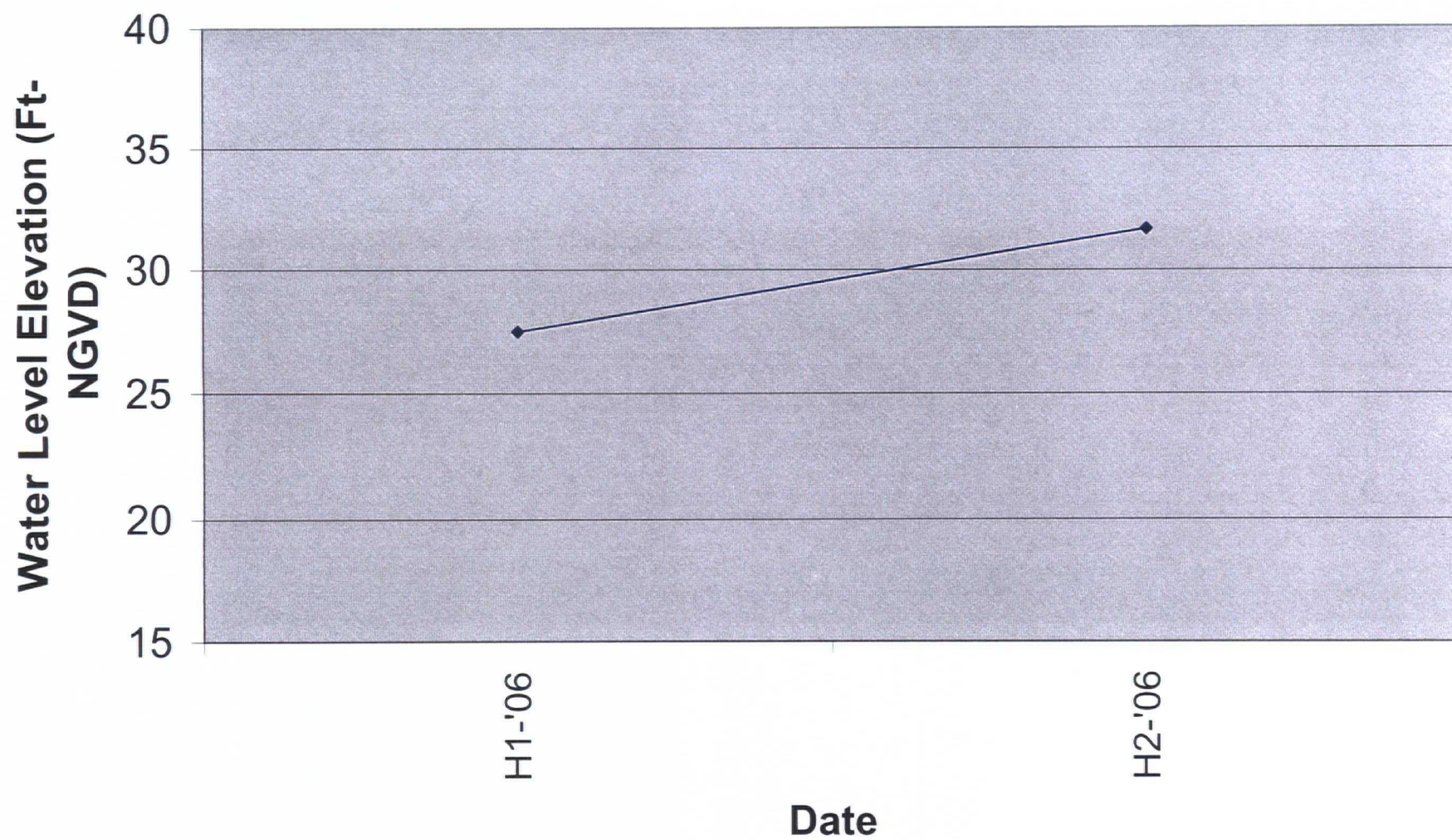


## Hydrograph - GW-6

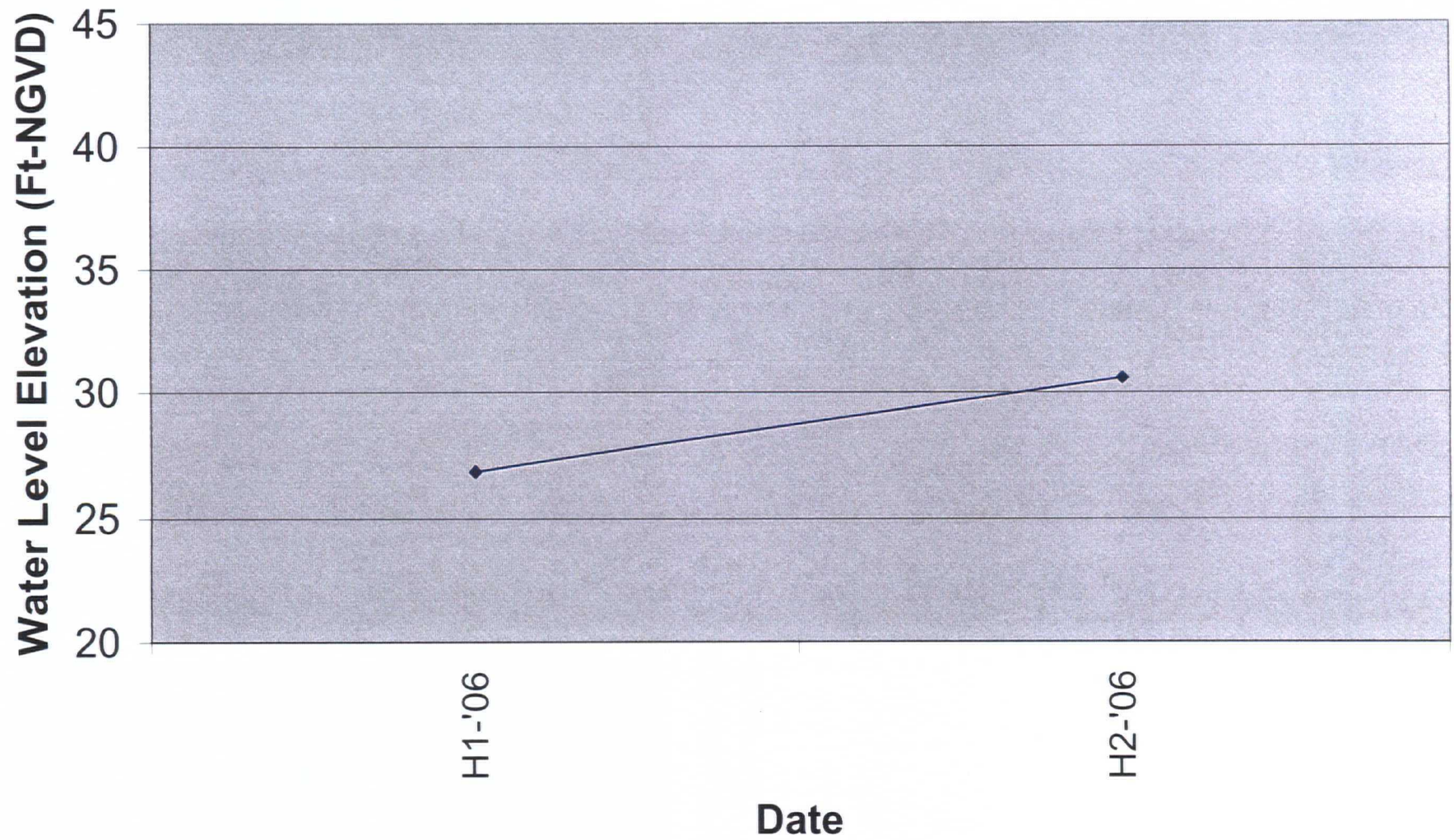




## Hydrograph - GW-7

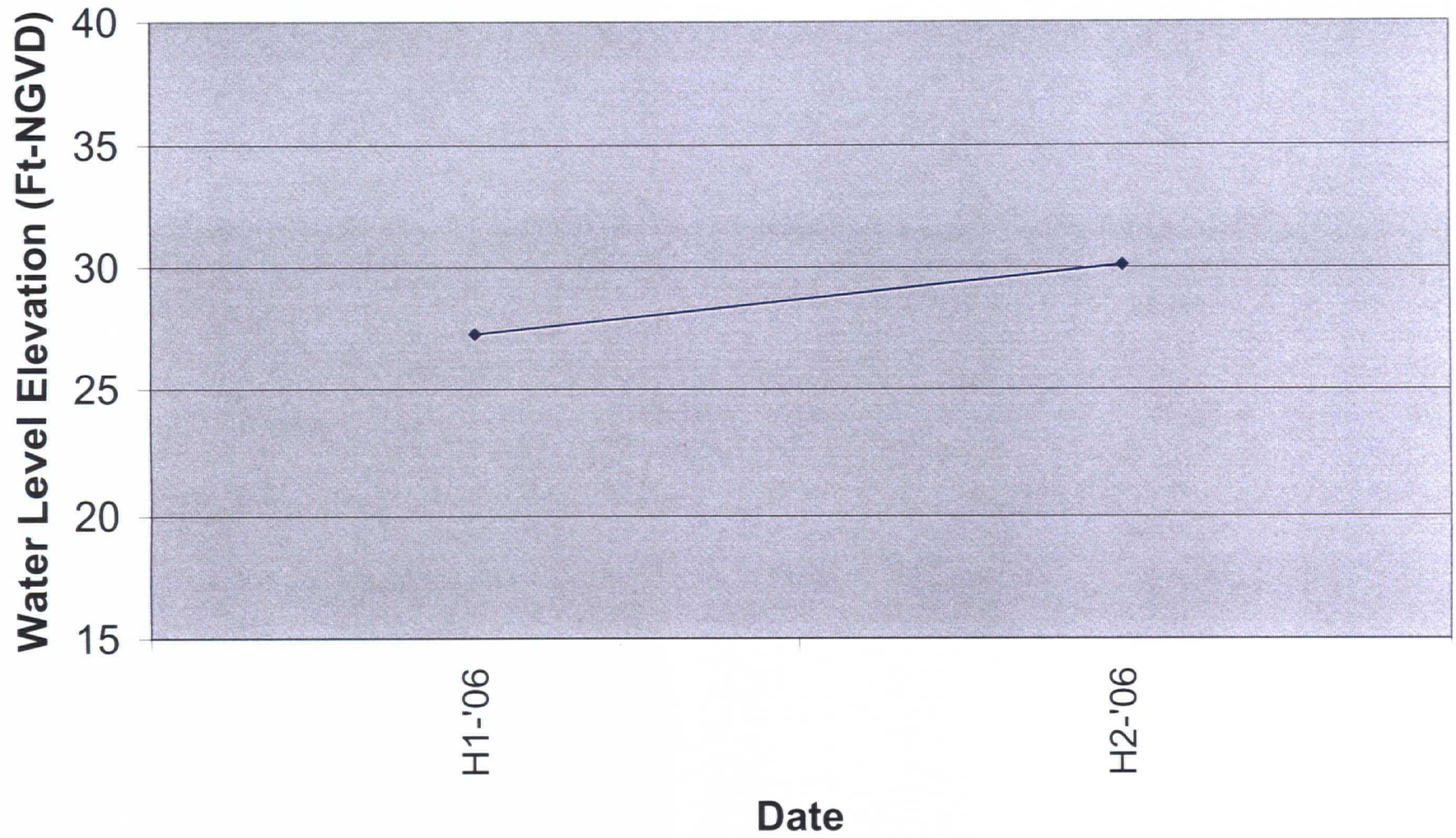


## Hydrograph - GW-8



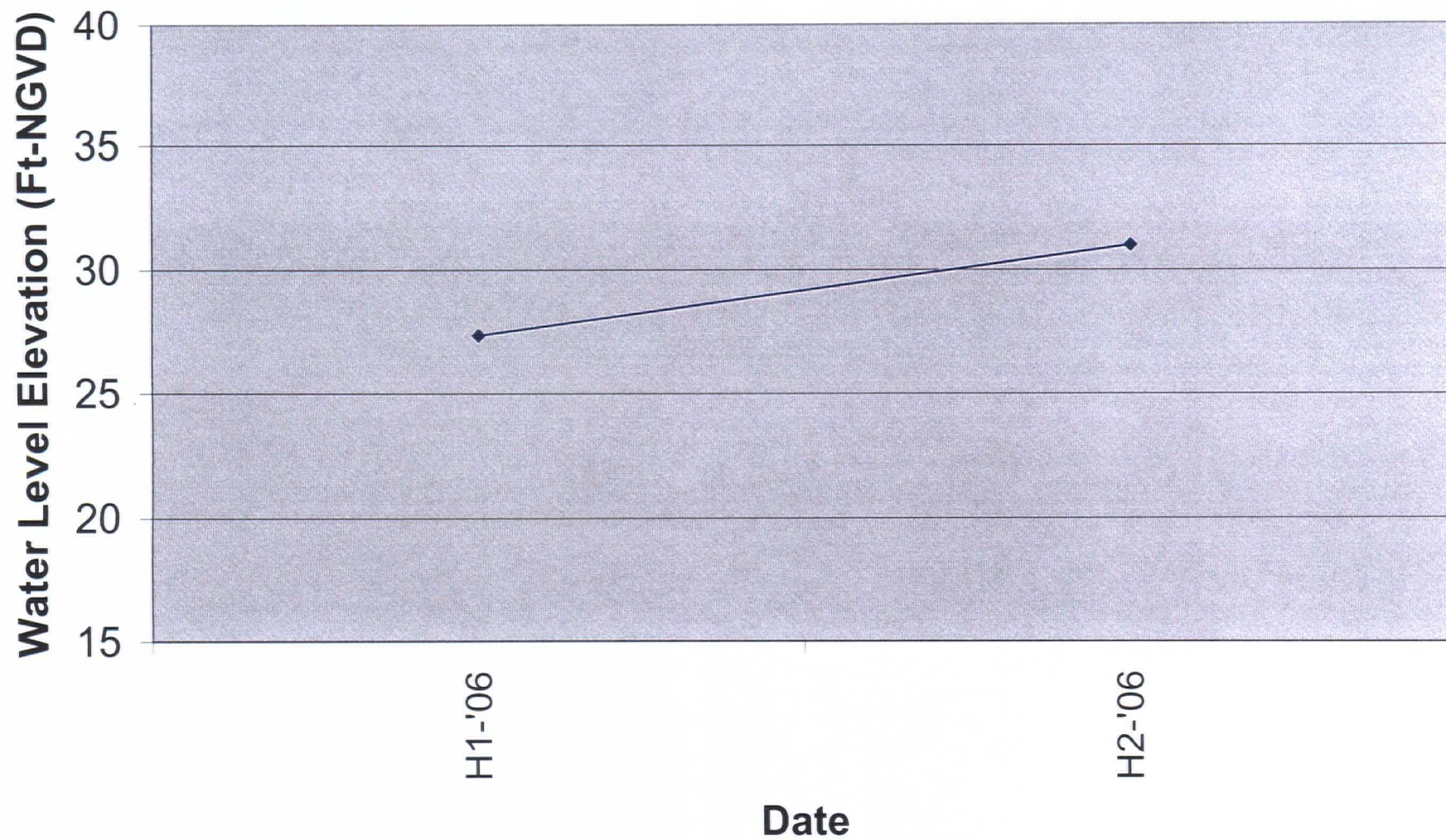


## Hydrograph - GW-9



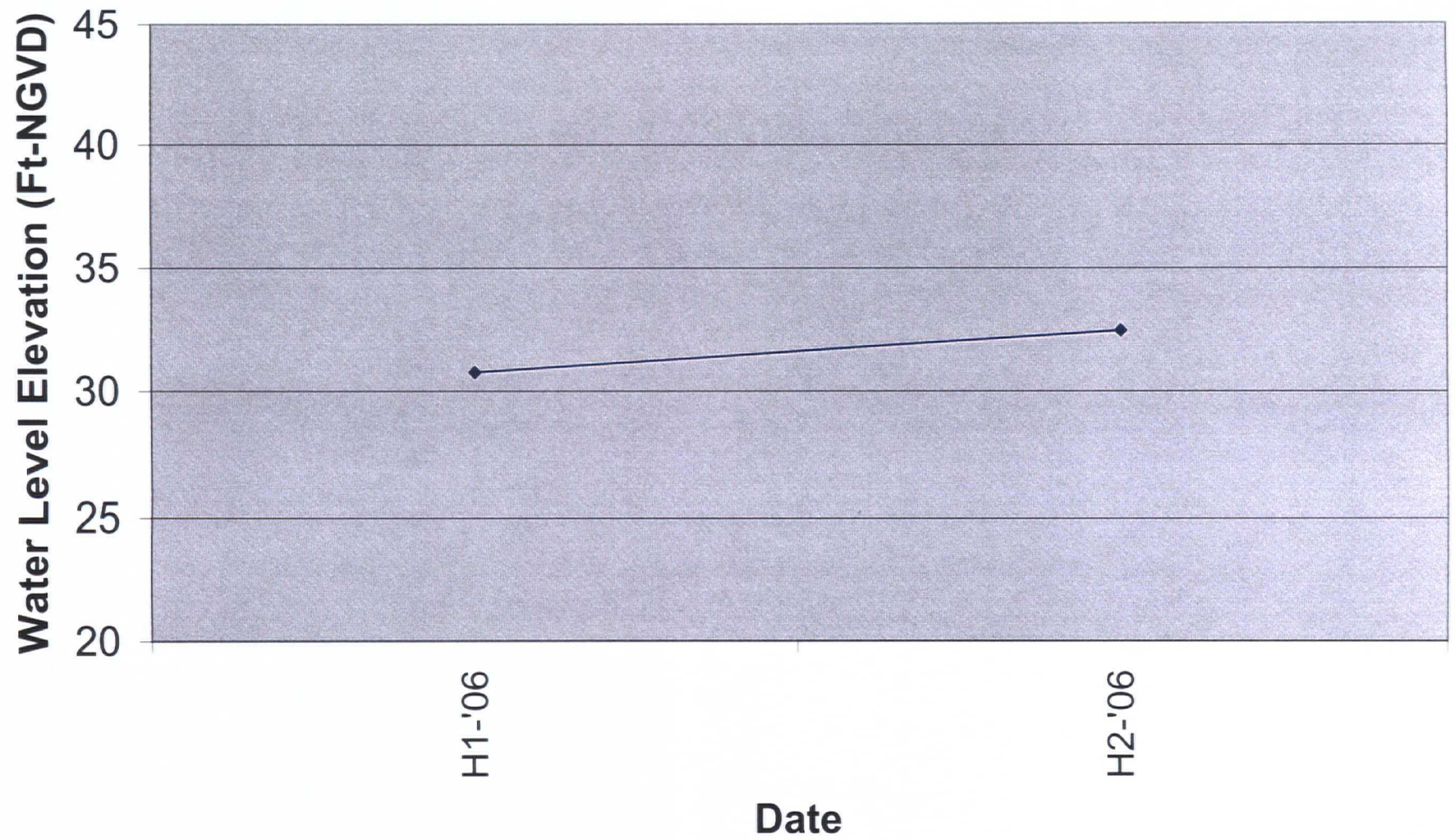


## Hydrograph - GW-10



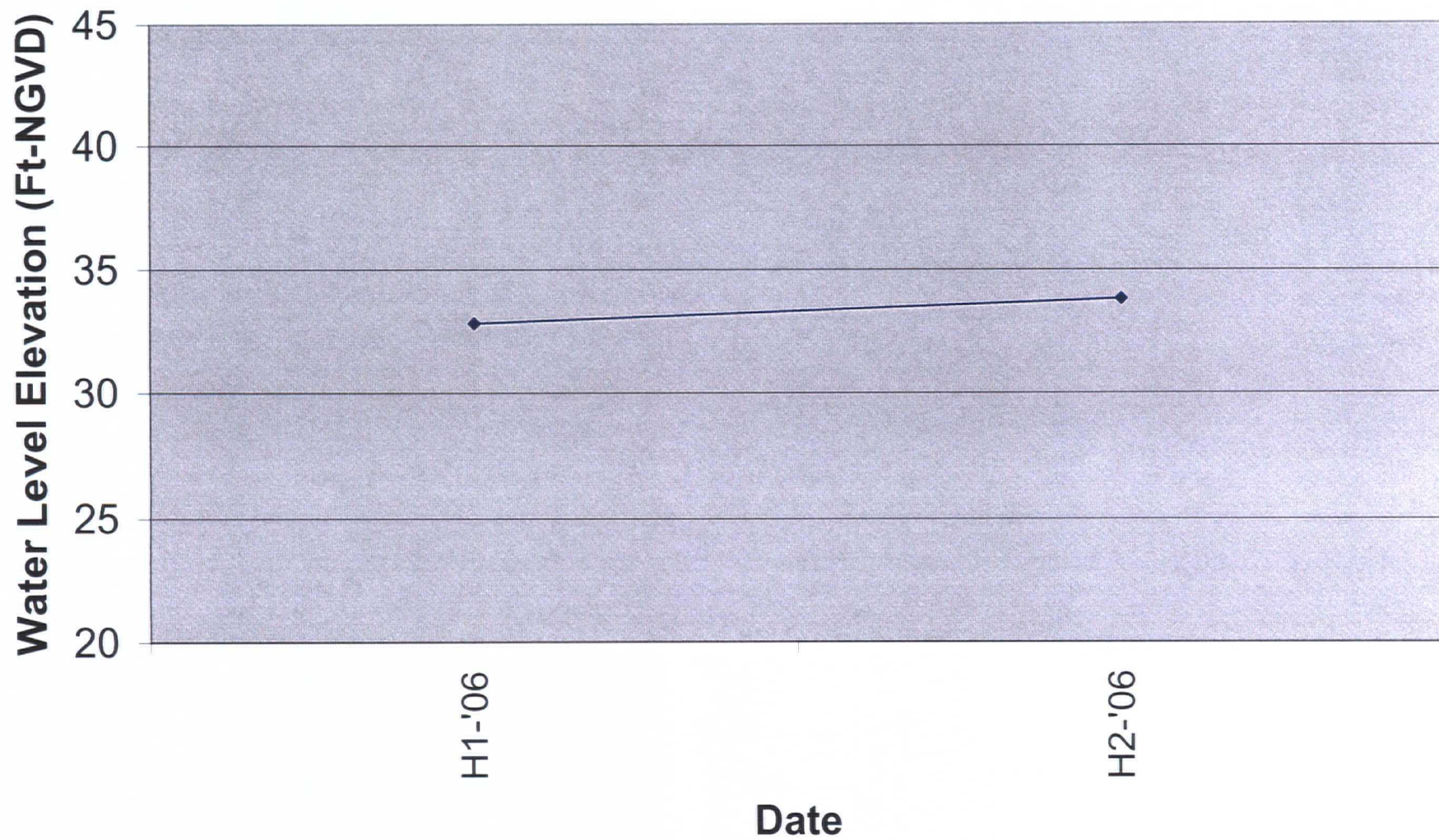


## Hydrograph - GW-12



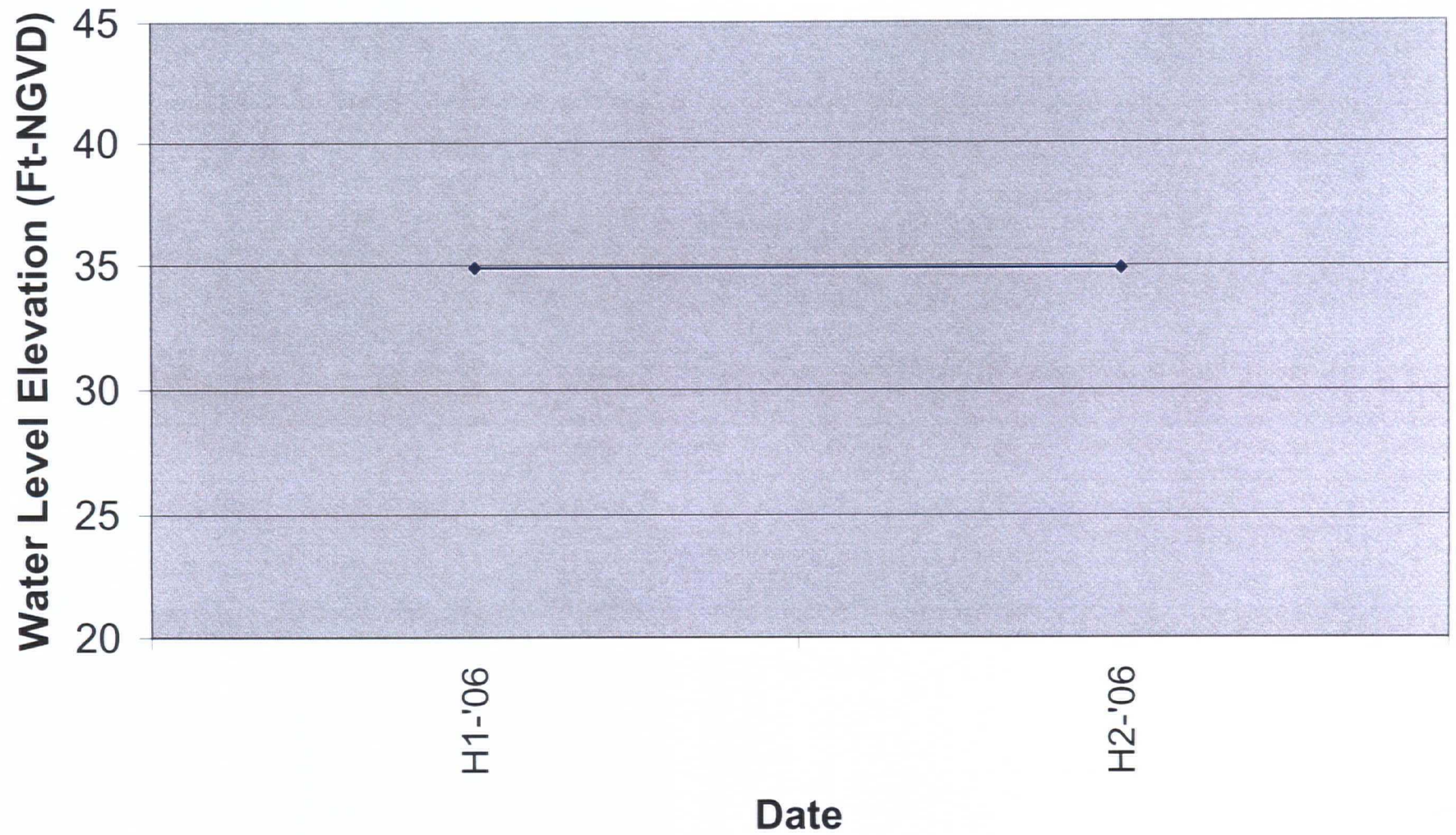


## Hydrograph - GW-13

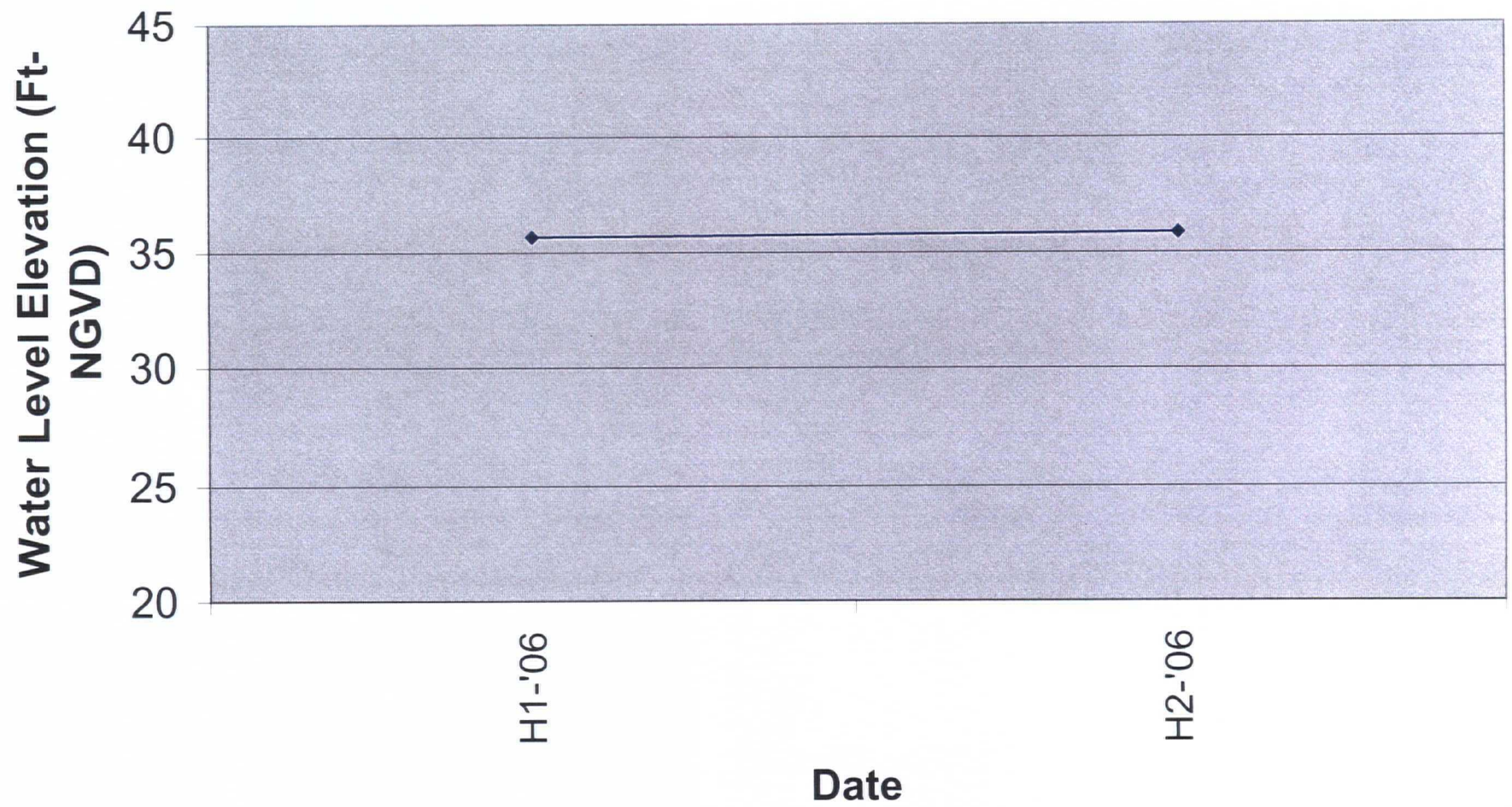




## Hydrograph - GW-14

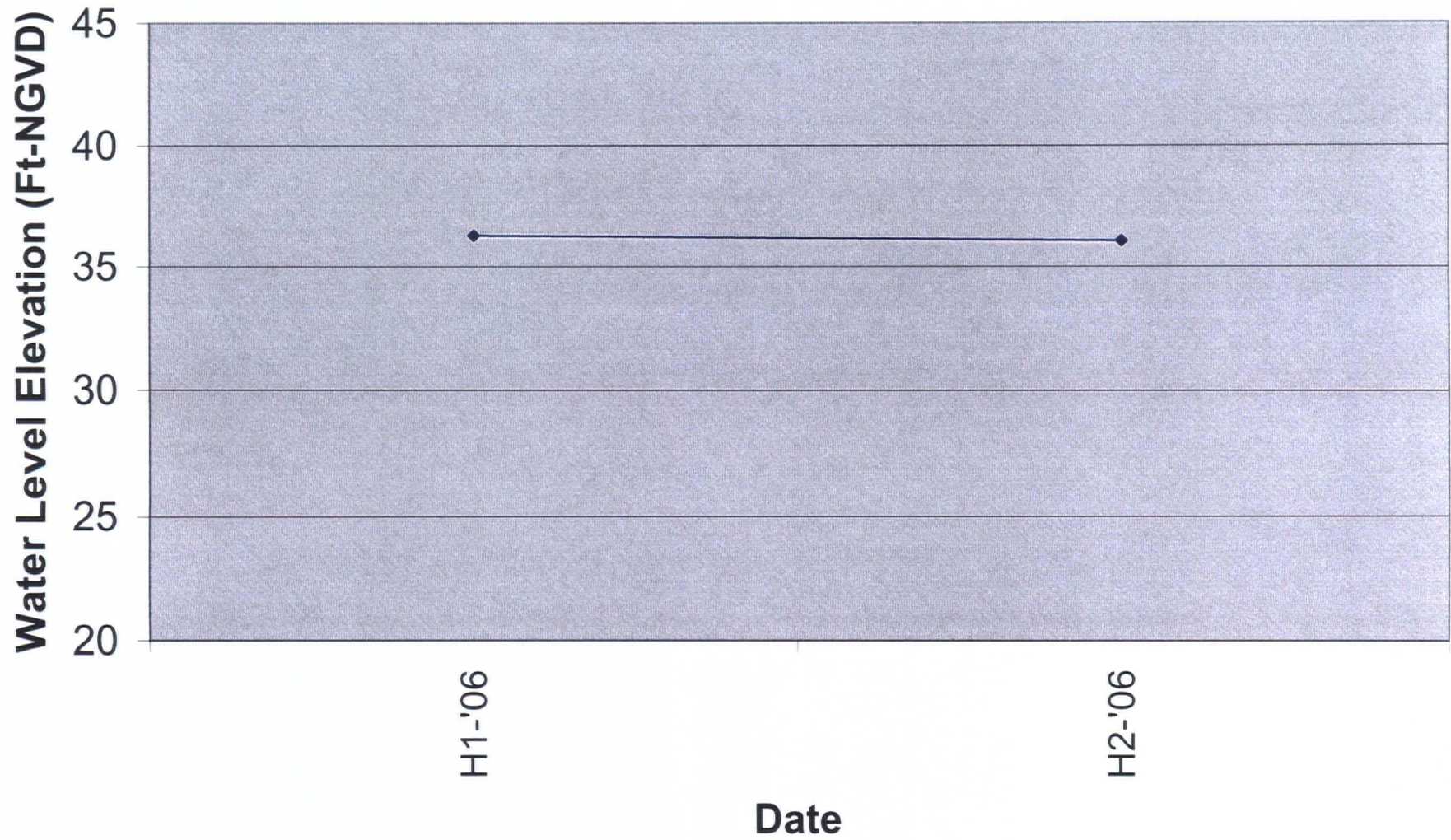


## Hydrograph - GW-15

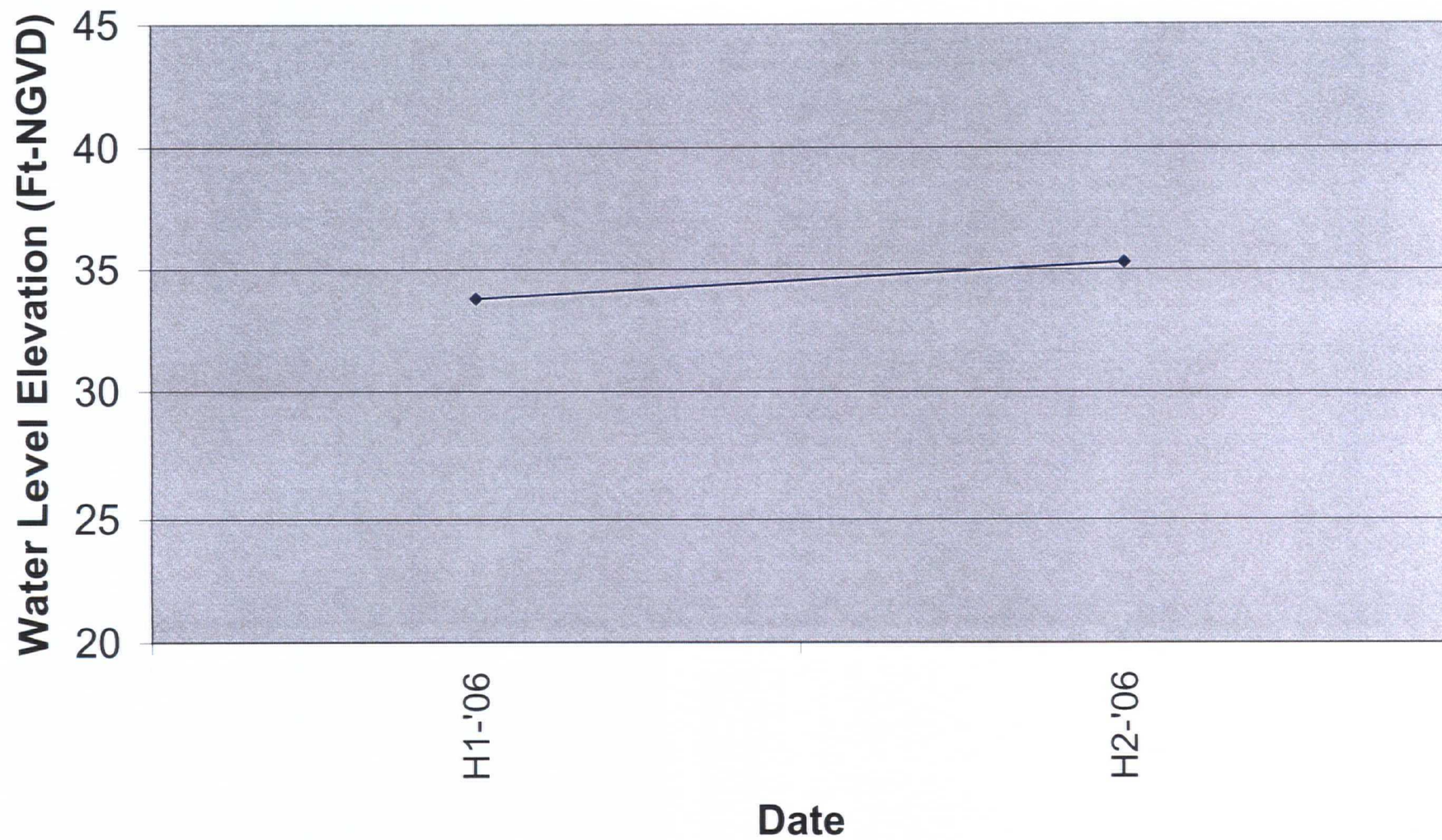




## Hydrograph - GW-16

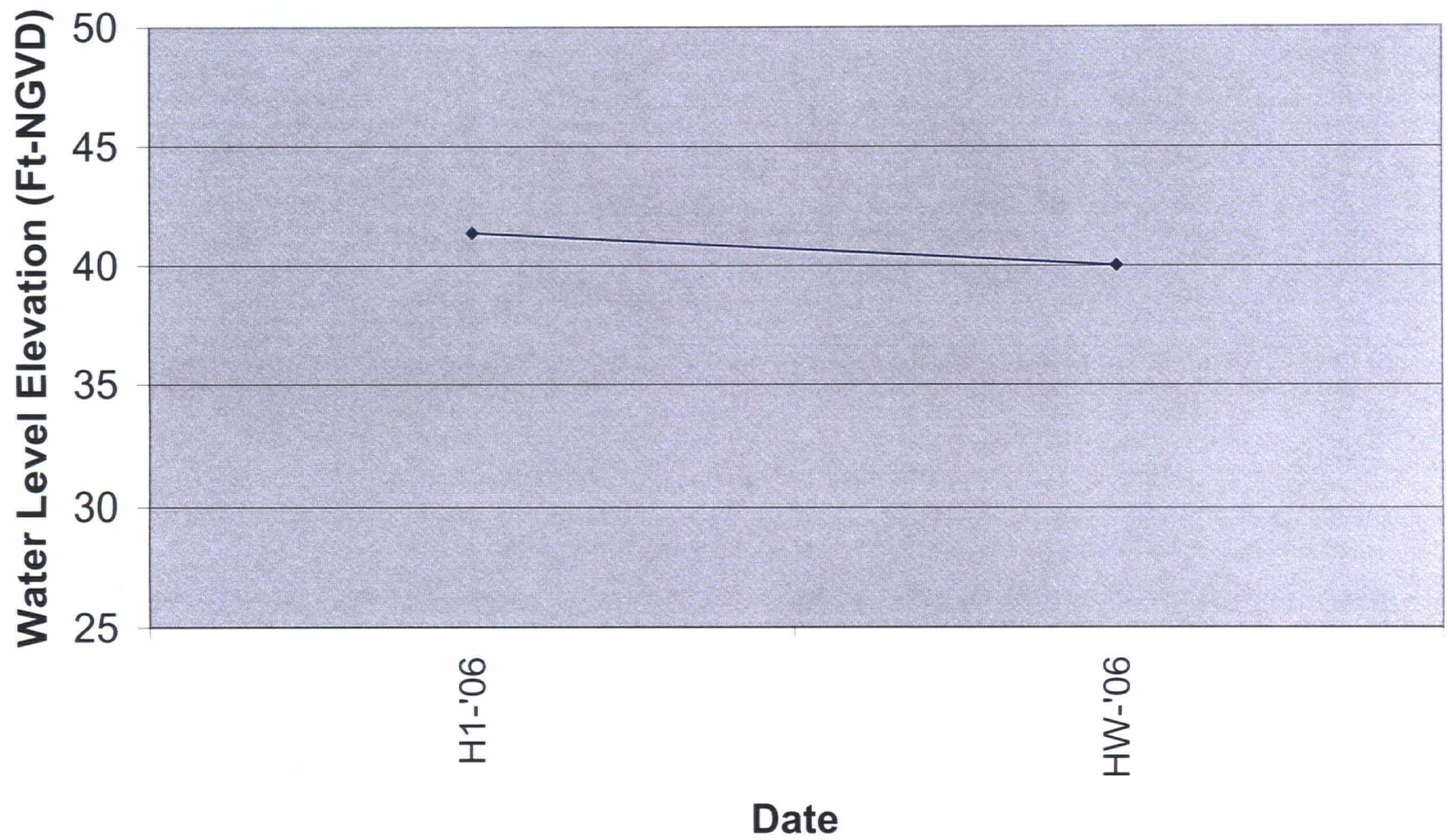


## Hydrograph - GW-17





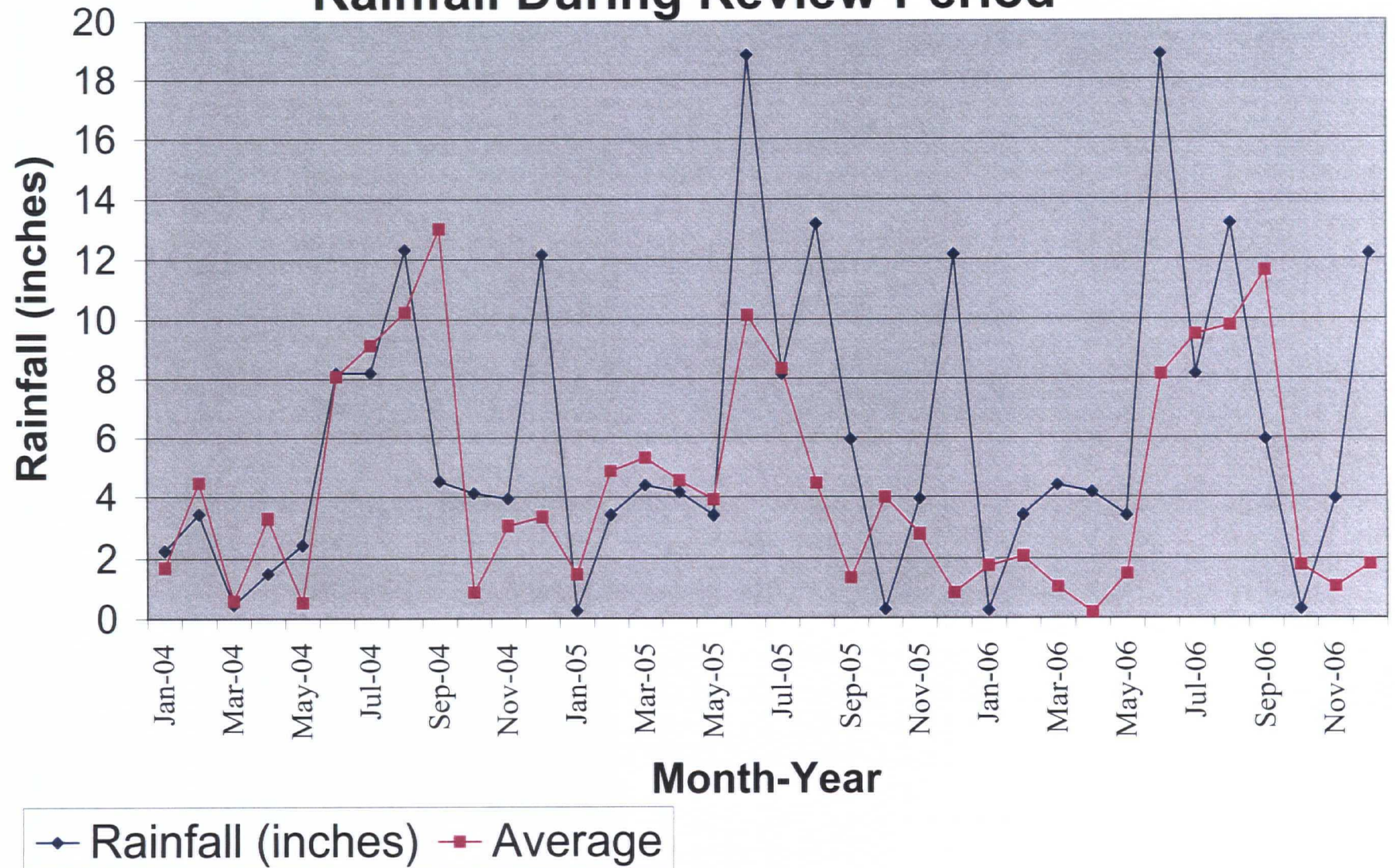
## Hydrograph - BGW-1





**APPENDIX E**  
**Rainfall Graph**

## Rainfall During Review Period



## **APPENDIX F**

### **Groundwater Gradient Data**

Manatee County Lena Road Landfill  
Groundwater Gradient  
January 2004

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.11                    | <i>inward</i>    | MW-5               | 39.88              | 31.00                    |
| PZ-2           | 42.47              | 30.17                    | <i>inward</i>    | MW-2               | 41.13              | 31.11                    |
| PZ-3A          | 44.90              | 29.11                    | <i>inward</i>    | MW-1               | 42.58              | 32.28                    |
| PZ-4A          | 47.73              | 30.48                    | <i>inward</i>    | CW-4               | 37.48              | 34.57                    |
| PZ-5           | 43.94              | 30.25                    | <i>inward</i>    | CW-5A              | 41.18              | 37.15                    |
| PZ-6           | 44.73              | 31.23                    | <i>inward</i>    | SG-1               |                    | 33.40                    |
| PZ-7           | 47.76              | 29.98                    | <i>inward</i>    | MW-6               | 39.29              | 33.05                    |
| PZ-19          | 45.87              | 28.71                    | <i>inward</i>    | PZ-11              | 38.94              | 33.40                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 33.83 | <i>outward</i> | LRII-5 | 36.75 | 29.45 |
| PZ-9            | 39.20 | 33.82 | <i>outward</i> | LRII-4 | 33.85 | 26.45 |
| PZ-10           | 37.05 | 33.82 | <i>outward</i> | LRII-2 | 36.48 | 29.34 |
| PZ-11           | 38.94 | 33.71 | <i>outward</i> | LRII-1 | 37.97 | 31.85 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 28.45 | <i>inward</i> | GC-2   | 38.15 | 31.22 |
| PZ-13            | 35.36 | 25.31 | <i>inward</i> | GC-3   | 35.02 | 26.99 |
| PZ-14A           | 34.58 | 19.89 | <i>inward</i> | GC-4A  | 34.96 | 28.99 |
| PZ-15C           | 40.46 | 19.98 | <i>inward</i> | PZ-15A | 39.79 | 30.34 |
| PZ-16B           | 40.22 | 20.92 | <i>inward</i> | PZ-16A | 39.05 | 29.25 |
| PZ-17            | 40.57 | 28.51 | <i>inward</i> | SG-2   |       | 29.74 |
| PZ-18            | 40.16 | 27.93 | <i>inward</i> | SG-3   |       | 33.84 |

Dry 28.90

Dry 33.64

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <b>Stage I</b>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 30.17 | <i>inward</i>  | MW-3   | 42.32 | 31.86 |
| <b>Stage II</b>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 33.82 | <i>outward</i> | LRII-3 | 33.47 | 26.04 |
| <b>Stage III</b>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 19.98 | <i>inward</i>  | GC-1A  | 31.75 | 26.95 |
| PZ-16B                                     | 40.22 | 20.92 | <i>inward</i>  | GC-5   | 36.46 | 29.86 |
| PZ-17                                      | 40.57 | 28.51 | <i>inward</i>  | GC-6   | 39.02 | 30.46 |

Notes: The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (dated Aug. 10, 1999). Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002. PZ-12A and GC-4A were resurveyed in April 2003.

Stage I Landfill - 132 acres (Closed - 30 ac., Intermediate - 92 ac., Open - 10 ac.) \*

Stage II Landfill - 118 acres (Closed - 0 ac., Intermediate - 0 ac., Open - 0 ac. No waste in Stage II.) \*

Stage III Landfill - 66 acres (Closed - 0 ac., Intermediate - 66 ac., Open - 0 ac.) \*

\* Revised August 25, 2004

Data Collection: January 6, 2004

Manatee County Lena Road Landfill  
Groundwater Gradient  
February 2004

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.12                    | <i>inward</i>    | MW-5               | 39.88              | 30.14                    |
| PZ-2           | 42.47              | 30.17                    | <i>inward</i>    | MW-2               | 41.13              | 31.34                    |
| PZ-3A          | 44.90              | 29.10                    | <i>inward</i>    | MW-1               | 42.58              | 32.18                    |
| PZ-4A          | 47.73              | 29.95                    | <i>inward</i>    | CW-4               | 37.48              | 34.93                    |
| PZ-5           | 43.94              | 30.27                    | <i>inward</i>    | CW-5A              | 41.18              | 38.08                    |
| PZ-6           | 44.73              | 31.30                    | <i>inward</i>    | SG-1               |                    | 33.54                    |
| PZ-7           | 47.76              | 30.01                    | <i>inward</i>    | MW-6               | 39.29              | 33.14                    |
| PZ-19          | 45.87              | 28.67                    | <i>inward</i>    | PZ-11              | 38.94              | 33.89                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 33.80 | <i>outward</i> | LRII-5 | 36.75 | 29.36 |
| PZ-9            | 39.20 | 33.73 | <i>outward</i> | LRII-4 | 33.85 | 26.17 |
| PZ-10           | 37.05 | 33.80 | <i>outward</i> | LRII-2 | 36.48 | 28.96 |
| PZ-11           | 38.94 | 33.89 | <i>outward</i> | LRII-1 | 37.97 | 31.97 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 28.43 | <i>inward</i> | GC-2   | 38.15 | 31.43 |
| PZ-13            | 35.36 | 24.96 | <i>inward</i> | GC-3   | 35.02 | 27.03 |
| PZ-14A           | 34.58 | 19.83 | <i>inward</i> | GC-4A  | 34.96 | 29.14 |
| PZ-15C           | 40.46 | 19.95 | <i>inward</i> | PZ-15A | 39.79 | 30.89 |
| PZ-16B           | 40.22 | 20.86 | <i>inward</i> | PZ-16A | 39.05 | 29.38 |
| PZ-17            | 40.57 | 28.53 | <i>inward</i> | SG-2   |       | 30.48 |
| PZ-18            | 40.16 | 28.96 | <i>inward</i> | SG-3   |       | 33.86 |

Dry 28.90  
Dry 33.64

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <b>Stage I</b>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 30.17 | <i>inward</i>  | MW-3   | 42.32 | 31.21 |
| <b>Stage II</b>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 33.73 | <i>outward</i> | LRII-3 | 33.47 | 25.86 |
| <b>Stage III</b>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 19.95 | <i>inward</i>  | GC-1A  | 31.75 | 27.08 |
| PZ-16B                                     | 40.22 | 20.86 | <i>inward</i>  | GC-5   | 36.46 | 28.91 |
| PZ-17                                      | 40.57 | 28.53 | <i>inward</i>  | GC-6   | 39.02 | 30.76 |

Notes: The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (dated Aug. 10, 1992). Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002. PZ-12A and GC-4A were resurveyed in April 2003.

Stage I Landfill - 132 acres (Closed - 30 ac., Intermediate - 92 ac., Open - 10 ac.) \*

Stage II Landfill - 118 acres (Closed - 0 ac., Intermediate - 0 ac., Open - 0 ac. No waste in Stage II.) \*

Stage III Landfill - 66 acres (Closed - 0 ac., Intermediate - 66 ac., Open - 0 ac.) \*

\* Revised August 25, 2004

Data Collection: February 11, 2004

Manatee County Lena Road Landfill  
Groundwater Gradient  
March 2004

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.11                    | <i>inward</i>    | MW-5               | 39.88              | 31.23                    |
| PZ-2           | 42.47              | 30.07                    | <i>inward</i>    | MW-2               | 41.13              | 31.61                    |
| PZ-3A          | 44.90              | 28.99                    | <i>inward</i>    | MW-1               | 42.58              | 32.83                    |
| PZ-4A          | 47.73              | 29.83                    | <i>inward</i>    | CW-4               | 37.48              | 35.06                    |
| PZ-5           | 43.94              | 30.14                    | <i>inward</i>    | CW-5A              | 41.18              | 38.58                    |
| PZ-6           | 44.73              | 31.26                    | <i>inward</i>    | SG-1               |                    | 33.84                    |
| PZ-7           | 47.76              | 29.95                    | <i>inward</i>    | MW-6               | 39.29              | 33.48                    |
| PZ-19          | 45.87              | 28.58                    | <i>inward</i>    | PZ-11              | 38.94              | 33.89                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 33.91 | <i>outward</i> | LRII-5 | 36.75 | 30.41 |
| PZ-9            | 39.20 | 33.86 | <i>outward</i> | LRII-4 | 33.85 | 27.08 |
| PZ-10           | 37.05 | 34.00 | <i>outward</i> | LRII-2 | 36.48 | 29.91 |
| PZ-11           | 38.94 | 33.89 | <i>outward</i> | LRII-1 | 37.97 | 33.32 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 28.65 | <i>inward</i> | GC-2   | 38.15 | 31.77 |
| PZ-13            | 35.36 | 25.93 | <i>inward</i> | GC-3   | 35.02 | 27.72 |
| PZ-14A           | 34.58 | 20.03 | <i>inward</i> | GC-4A  | 34.96 | 29.37 |
| PZ-15C           | 40.46 | 20.05 | <i>inward</i> | PZ-15A | 39.79 | 31.38 |
| PZ-16B           | 40.22 | 20.96 | <i>inward</i> | PZ-16A | 39.05 | 29.38 |
| PZ-17            | 40.57 | 28.57 | <i>inward</i> | SG-2   |       | 30.72 |
| PZ-18            | 40.16 | 29.06 | <i>inward</i> | SG-3   |       | 33.90 |

Dry 28.90  
Dry 33.64

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <u>Stage I</u>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 30.07 | <i>inward</i>  | MW-3   | 42.32 | 32.34 |
| <u>Stage II</u>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 33.86 | <i>outward</i> | LRII-3 | 33.47 | 26.78 |
| <u>Stage III</u>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 20.05 | <i>inward</i>  | GC-1A  | 31.75 | 27.15 |
| PZ-16B                                     | 40.22 | 20.96 | <i>inward</i>  | GC-5   | 36.46 | 29.05 |
| PZ-17                                      | 40.57 | 28.57 | <i>inward</i>  | GC-6   | 39.02 | 31.06 |

Notes: The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999).  
Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.  
PZ-12A and GC-4A were resurveyed in April 2003.

Stage I Landfill - 132 acres (Closed - 30 ac., Intermediate - 92 ac., Open - 10 ac.) \*

Stage II Landfill - 118 acres (Closed - 0 ac., Intermediate - 0 ac., Open - 0 ac. No waste in Stage II.) \*

Stage III Landfill - 66 acres (Closed - 0 ac., Intermediate - 66 ac., Open - 0 ac.) \*

\* Revised August 25, 2004

Data Collection: March 10, 2004

Manatee County Lena Road Landfill  
Groundwater Gradient  
April 2004

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.15                    | <i>inward</i>    | MW-5               | 39.88              | 31.18                    |
| PZ-2           | 42.47              | 29.95                    | <i>inward</i>    | MW-2               | 41.13              | 31.55                    |
| PZ-3A          | 44.90              | 29.09                    | <i>inward</i>    | MW-1               | 42.58              | 32.52                    |
| PZ-4A          | 47.73              | 29.88                    | <i>inward</i>    | CW-4               | 37.48              | 34.81                    |
| PZ-5           | 43.94              | 30.19                    | <i>inward</i>    | CW-5A              | 41.18              | 38.38                    |
| PZ-6           | 44.73              | 30.92                    | <i>inward</i>    | SG-1               |                    | 33.28                    |
| PZ-7           | 47.76              | 30.00                    | <i>inward</i>    | MW-6               | 39.29              | 32.93                    |
| PZ-19          | 45.87              | 28.59                    | <i>inward</i>    | PZ-11              | 38.94              | 33.48                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 33.49 | <i>outward</i> | LRII-5 | 36.75 | 29.60 |
| PZ-9            | 39.20 | 33.59 | <i>outward</i> | LRII-4 | 33.85 | 26.28 |
| PZ-10           | 37.05 | 33.47 | <i>outward</i> | LRII-2 | 36.48 | 28.93 |
| PZ-11           | 38.94 | 33.48 | <i>outward</i> | LRII-1 | 37.97 | 31.92 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 28.45 | <i>inward</i> | GC-2   | 38.15 | 30.86 |
| PZ-13            | 35.36 | 25.40 | <i>inward</i> | GC-3   | 35.02 | 27.70 |
| PZ-14A           | 34.58 | 19.93 | <i>inward</i> | GC-4A  | 34.96 | 29.18 |
| PZ-15C           | 40.46 | 20.03 | <i>inward</i> | PZ-15A | 39.79 | 31.49 |
| PZ-16B           | 40.22 | 20.84 | <i>inward</i> | PZ-16A | 39.05 | 29.33 |
| PZ-17            | 40.57 | 28.62 | <i>inward</i> | SG-2   |       | 30.40 |
| PZ-18            | 40.16 | 28.89 | <i>inward</i> | SG-3   |       | 33.50 |

Dry 28.90

Dry 33.50

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <b>Stage I</b>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 29.95 | <i>inward</i>  | MW-3   | 42.32 | 32.02 |
| <b>Stage II</b>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 33.59 | <i>outward</i> | LRII-3 | 33.47 | 25.84 |
| <b>Stage III</b>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 20.03 | <i>inward</i>  | GC-1A  | 31.75 | 26.65 |
| PZ-16B                                     | 40.22 | 20.84 | <i>inward</i>  | GC-5   | 36.46 | 28.88 |
| PZ-17                                      | 40.57 | 28.62 | <i>inward</i>  | GC-6   | 39.02 | 30.50 |

Notes: The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999).  
Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.  
PZ-12A and GC-4A were resurveyed in April 2003.

Stage I Landfill - 132 acres (Closed - 30 ac., Intermediate - 92 ac., Open - 10 ac.) \*

Stage II Landfill - 118 acres (Closed - 0 ac., Intermediate - 0 ac., Open - 0 ac. No waste in Stage II.) \*

Stage III Landfill - 66 acres (Closed - 0 ac., Intermediate - 66 ac., Open - 0 ac.) \*

\* Revised August 25, 2004

Data Collection: April 1, 2004

Manatee County Lena Road Landfill  
Groundwater Gradient  
May 2004

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow      | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|------------|--------------------|--------------------------|-----------------------|--------------------|--------------------|--------------------------|
|            |                    |                          | <b><u>STAGE I</u></b> |                    |                    |                          |
| PZ-1       | 42.55              | 29.08                    | <i>inward</i>         | MW-5               | 39.88              | 31.12                    |
| PZ-2       | 42.47              | 30.12                    | <i>inward</i>         | MW-2               | 41.13              | 31.69                    |
| PZ-3A      | 44.90              | 29.08                    | <i>inward</i>         | MW-1               | 42.58              | 32.39                    |
| PZ-4A      | 47.73              | 29.88                    | <i>inward</i>         | CW-4               | 37.48              | 34.18                    |
| PZ-5       | 43.94              | 30.16                    | <i>inward</i>         | CW-5A              | 41.18              | 37.58                    |
| PZ-6       | 44.73              | 30.88                    | <i>inward</i>         | SG-1               |                    | 33.25                    |
| PZ-7       | 47.76              | 29.86                    | <i>inward</i>         | MW-6               | 39.29              | 32.91                    |
| PZ-19      | 45.87              | 28.50                    | <i>inward</i>         | PZ-11              | 38.94              | 33.45                    |

Dry 32.80

|       |       |       |                        |        |       |       |
|-------|-------|-------|------------------------|--------|-------|-------|
|       |       |       | <b><u>STAGE II</u></b> |        |       |       |
| PZ-8  | 37.63 | 33.38 | <i>outward</i>         | LRII-5 | 36.75 | 29.13 |
| PZ-9  | 39.20 | 33.49 | <i>outward</i>         | LRII-4 | 33.85 | 25.90 |
| PZ-10 | 37.05 | 33.49 | <i>outward</i>         | LRII-2 | 36.48 | 28.48 |
| PZ-11 | 38.94 | 33.45 | <i>outward</i>         | LRII-1 | 37.97 | 32.13 |

|        |       |       |                         |        |       |       |
|--------|-------|-------|-------------------------|--------|-------|-------|
|        |       |       | <b><u>STAGE III</u></b> |        |       |       |
| PZ-12A | 38.48 | 28.29 | <i>inward</i>           | GC-2   | 38.15 | 31.15 |
| PZ-13  | 35.36 | 25.06 | <i>inward</i>           | GC-3   | 35.02 | 26.29 |
| PZ-14A | 34.58 | 19.85 | <i>inward</i>           | GC-4A  | 34.96 | 28.60 |
| PZ-15C | 40.46 | 19.99 | <i>inward</i>           | PZ-15A | 39.79 | 31.29 |
| PZ-16B | 40.22 | 20.80 | <i>inward</i>           | PZ-16A | 39.05 | 29.27 |
| PZ-17  | 40.57 | 28.46 | <i>inward</i>           | SG-2   |       | 30.35 |
| PZ-18  | 40.16 | 28.76 | <i>inward</i>           | SG-3   |       | 33.50 |

Dry 28.90

Dry 33.50

| <b><u>Additional In-House Monitoring Data</u></b> |       |       |                |        |       |       |
|---------------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <b><u>Stage I</u></b>                             |       |       |                |        |       |       |
| PZ-2                                              | 42.47 | 30.12 | <i>inward</i>  | MW-3   | 42.32 | 32.49 |
| <b><u>Stage II</u></b>                            |       |       |                |        |       |       |
| PZ-9                                              | 39.20 | 33.49 | <i>outward</i> | LRII-3 | 33.47 | 25.52 |
| <b><u>Stage III</u></b>                           |       |       |                |        |       |       |
| PZ-15C                                            | 40.46 | 19.99 | <i>inward</i>  | GC-1A  | 31.75 | 26.57 |
| PZ-16B                                            | 40.22 | 20.80 | <i>inward</i>  | GC-5   | 36.46 | 28.76 |
| PZ-17                                             | 40.57 | 28.46 | <i>inward</i>  | GC-6   | 39.02 | 30.79 |

Notes: The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999).

Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.

PZ-12A and GC-4A were resurveyed in April 2003.

Stage I Landfill - 132 acres (Closed - 30 ac., Intermediate - 102 ac., Open - 0 ac.)

Stage II Landfill - 118 acres (Closed - 0 ac., Intermediate - 0 ac., Open - 0 ac. No waste in Stage II.) \*

Stage III Landfill - 66 acres (Closed - 0 ac., Intermediate - 39 ac., Open - 27 ac.) \*

\* Revised August 25, 2004

Data Collection: May 6, 2004



Manatee County Lena Road Landfill  
Groundwater Gradient  
June 2004

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow      | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|------------|--------------------|--------------------------|-----------------------|--------------------|--------------------|--------------------------|
|            |                    |                          | <b><u>STAGE I</u></b> |                    |                    |                          |
| PZ-1       | 42.55              | 29.15                    | <i>inward</i>         | MW-5               | 39.88              | 31.36                    |
| PZ-2       | 42.47              | 30.23                    | <i>inward</i>         | MW-2               | 41.13              | 31.18                    |
| PZ-3A      | 44.90              | 29.09                    | <i>inward</i>         | MW-1               | 42.58              | 32.04                    |
| PZ-4A      | 47.73              | 29.88                    | <i>inward</i>         | CW-4               | 37.48              | 33.66                    |
| PZ-5       | 43.94              | 31.14                    | <i>inward</i>         | CW-5A              | 41.18              | 34.55                    |
| PZ-6       | 44.73              | 31.02                    | <i>inward</i>         | SG-1               |                    | 34.58                    |
| PZ-7       | 47.76              | 29.92                    | <i>inward</i>         | MW-6               | 39.29              | 33.11                    |
| PZ-19      | 45.87              | 28.62                    | <i>inward</i>         | PZ-11              | 38.94              | 33.09                    |

Dry 32.80

|       |       |       |                        |        |       |       |
|-------|-------|-------|------------------------|--------|-------|-------|
|       |       |       | <b><u>STAGE II</u></b> |        |       |       |
| PZ-8  | 37.63 | 33.48 | <i>outward</i>         | LRII-5 | 36.75 | 28.01 |
| PZ-9  | 39.20 | 33.20 | <i>outward</i>         | LRII-4 | 33.85 | 24.97 |
| PZ-10 | 37.05 | 33.74 | <i>outward</i>         | LRII-2 | 36.48 | 28.00 |
| PZ-11 | 38.94 | 33.09 | <i>outward</i>         | LRII-1 | 37.97 | 32.66 |

|        |       |       |                         |        |       |       |
|--------|-------|-------|-------------------------|--------|-------|-------|
|        |       |       | <b><u>STAGE III</u></b> |        |       |       |
| PZ-12A | 38.48 | 28.65 | <i>inward</i>           | GC-2   | 38.15 | 32.22 |
| PZ-13  | 35.36 | 25.01 | <i>inward</i>           | GC-3   | 35.02 | 26.49 |
| PZ-14A | 34.58 | 21.48 | <i>inward</i>           | GC-4A  | 34.96 | 28.89 |
| PZ-15C | 40.46 | 20.45 | <i>inward</i>           | PZ-15A | 39.79 | 32.23 |
| PZ-16B | 40.22 | 21.67 | <i>inward</i>           | PZ-16A | 39.05 | 29.52 |
| PZ-17  | 40.57 | 28.47 | <i>inward</i>           | SG-2   |       | 30.10 |
| PZ-18  | 40.16 | 29.12 | <i>inward</i>           | SG-3   |       | 34.30 |

Dry 28.90

Dry 33.50

| <b><u>Additional In-House Monitoring Data</u></b> |       |       |                |        |       |       |
|---------------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <b><u>Stage I</u></b>                             |       |       |                |        |       |       |
| PZ-2                                              | 42.47 | 30.23 | <i>inward</i>  | MW-3   | 42.32 | 31.59 |
| <b><u>Stage II</u></b>                            |       |       |                |        |       |       |
| PZ-9                                              | 39.20 | 33.20 | <i>outward</i> | LRII-3 | 33.47 | 24.65 |
| <b><u>Stage III</u></b>                           |       |       |                |        |       |       |
| PZ-15C                                            | 40.46 | 20.45 | <i>inward</i>  | GC-1A  | 31.75 | 28.03 |
| PZ-16B                                            | 40.22 | 21.67 | <i>inward</i>  | GC-5   | 36.46 | 29.78 |
| PZ-17                                             | 40.57 | 28.47 | <i>inward</i>  | GC-6   | 39.02 | 32.07 |

Notes: The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999).

Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.

PZ-12A and GC-4A were resurveyed in April 2003.

Stage I Landfill - 132 acres (Closed - 30 ac., Intermediate - 102 ac., Open - 0 ac.)

Stage II Landfill - 118 acres (Closed - 0 ac., Intermediate - 0 ac., Open - 0 ac. No waste in Stage II.) \*

Stage III Landfill - 66 acres (Closed - 0 ac., Intermediate - 39 ac., Open - 27 ac.) \*

\* Revised August 25, 2004

Data Collection: June 14, 2004

Manatee County Lena Road Landfill  
Groundwater Gradient  
July 2004

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow      | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|------------|--------------------|--------------------------|-----------------------|--------------------|--------------------|--------------------------|
|            |                    |                          | <b><u>STAGE I</u></b> |                    |                    |                          |
| PZ-1       | 42.55              | 29.50                    | <i>inward</i>         | MW-5               | 39.88              | 31.38                    |
| PZ-2       | 42.47              | 30.07                    | <i>inward</i>         | MW-2               | 41.13              | 31.53                    |
| PZ-3A      | 44.90              | 29.20                    | <i>inward</i>         | MW-1               | 42.58              | 33.52                    |
| PZ-4A      | 47.73              | 29.94                    | <i>inward</i>         | CW-4               | 37.48              | 34.20                    |
| PZ-5       | 43.94              | 31.20                    | <i>inward</i>         | CW-5A              | 41.18              | 35.92                    |
| PZ-6       | 44.73              | 30.98                    | <i>inward</i>         | SG-1               |                    | 33.64                    |
| PZ-7       | 47.76              | 30.06                    | <i>inward</i>         | MW-6               | 39.29              | 32.32                    |
| PZ-19      | 45.87              | 29.51                    | <i>inward</i>         | PZ-11              | 38.94              | 33.54                    |

Dry 32.80

|       |       |       |                        |        |       |       |
|-------|-------|-------|------------------------|--------|-------|-------|
|       |       |       | <b><u>STAGE II</u></b> |        |       |       |
| PZ-8  | 37.63 | 33.58 | <i>outward</i>         | LRII-5 | 36.75 | 29.28 |
| PZ-9  | 39.20 | 33.62 | <i>outward</i>         | LRII-4 | 33.85 | 26.35 |
| PZ-10 | 37.05 | 33.76 | <i>outward</i>         | LRII-2 | 36.48 | 29.03 |
| PZ-11 | 38.94 | 33.54 | <i>outward</i>         | LRII-1 | 37.97 | 33.41 |

|        |       |       |                         |        |       |       |
|--------|-------|-------|-------------------------|--------|-------|-------|
|        |       |       | <b><u>STAGE III</u></b> |        |       |       |
| PZ-12A | 38.48 | 28.75 | <i>inward</i>           | GC-2   | 38.15 | 32.57 |
| PZ-13  | 35.36 | 25.84 | <i>inward</i>           | GC-3   | 35.02 | 27.30 |
| PZ-14A | 34.58 | 20.42 | <i>inward</i>           | GC-4A  | 34.96 | 28.79 |
| PZ-15C | 40.46 | 20.39 | <i>inward</i>           | PZ-15A | 39.79 | 31.52 |
| PZ-16B | 40.22 | 21.25 | <i>inward</i>           | PZ-16A | 39.05 | 29.18 |
| PZ-17  | 40.57 | 28.69 | <i>inward</i>           | SG-2   |       | 29.26 |
| PZ-18  | 40.16 | 29.04 | <i>inward</i>           | SG-3   |       | 33.60 |

Dry 28.90  
Dry 33.50

| <b><u>Additional In-House Monitoring Data</u></b> |       |       |                |        |       |       |
|---------------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <b><u>Stage I</u></b>                             |       |       |                |        |       |       |
| PZ-2                                              | 42.47 | 30.07 | <i>inward</i>  | MW-3   | 42.32 | 33.43 |
| <b><u>Stage II</u></b>                            |       |       |                |        |       |       |
| PZ-9                                              | 39.20 | 33.62 | <i>outward</i> | LRII-3 | 33.47 | 25.79 |
| <b><u>Stage III</u></b>                           |       |       |                |        |       |       |
| PZ-15C                                            | 40.46 | 20.39 | <i>inward</i>  | GC-1A  | 31.75 | 27.12 |
| PZ-16B                                            | 40.22 | 21.25 | <i>inward</i>  | GC-5   | 36.46 | 29.51 |
| PZ-17                                             | 40.57 | 28.69 | <i>inward</i>  | GC-6   | 39.02 | 30.81 |

Notes: The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999).  
Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.  
PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: July 7, 2004

**Manatee County Lena Road Landfill  
Groundwater Gradient  
August 2004**

| <b>Inside Slurry Wall</b>                         |                    |                          |                  | <b>Outside Slurry Wall</b> |                    |                          |
|---------------------------------------------------|--------------------|--------------------------|------------------|----------------------------|--------------------|--------------------------|
| Piezometer                                        | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well         | Riser<br>Elevation | Groundwater<br>Elevation |
| <b><u>STAGE I</u></b>                             |                    |                          |                  |                            |                    |                          |
| PZ-1                                              | 42.55              | 29.36                    | <i>inward</i>    | MW-5                       | 39.88              | 32.82                    |
| PZ-2                                              | 42.47              | 29.95                    | <i>inward</i>    | MW-2                       | 41.13              | 33.71                    |
| PZ-3A                                             | 44.90              | 29.17                    | <i>inward</i>    | MW-1                       | 42.58              | 34.68                    |
| PZ-4A                                             | 47.73              | 29.84                    | <i>inward</i>    | CW-4                       | 37.48              | 35.14                    |
| PZ-5                                              | 43.94              | 30.26                    | <i>inward</i>    | CW-5A                      | 41.18              | 38.11                    |
| PZ-6                                              | 44.73              | 31.65                    | <i>inward</i>    | SG-1                       |                    | 34.08                    |
| PZ-7                                              | 47.76              | 30.25                    | <i>inward</i>    | MW-6                       | 39.29              | 35.98                    |
| PZ-19                                             | 45.87              | 28.69                    | <i>inward</i>    | PZ-11                      | 38.94              | 34.54                    |
| <b><u>STAGE II</u></b>                            |                    |                          |                  |                            |                    |                          |
| PZ-8                                              | 37.63              | 34.63                    | <i>outward</i>   | LRII-5                     | 36.75              | 32.56                    |
| PZ-9                                              | 39.20              | 34.37                    | <i>outward</i>   | LRII-4                     | 33.85              | 28.70                    |
| PZ-10                                             | 37.05              | 34.34                    | <i>outward</i>   | LRII-2                     | 36.48              | 32.10                    |
| PZ-11                                             | 38.94              | 34.54                    | <i>outward</i>   | LRII-1                     | 37.97              | 34.35                    |
| <b><u>STAGE III</u></b>                           |                    |                          |                  |                            |                    |                          |
| PZ-12A                                            | 38.48              | 30.14                    | <i>inward</i>    | GC-2                       | 38.15              | 34.00                    |
| PZ-13                                             | 35.36              | 28.34                    | <i>inward</i>    | GC-3                       | 35.02              | 30.52                    |
| PZ-14A                                            | 34.58              | 25.95                    | <i>inward</i>    | GC-4A                      | 34.96              | 31.96                    |
| PZ-15C                                            | 40.46              | 24.75                    | <i>inward</i>    | PZ-15A                     | 39.79              | 33.01                    |
| PZ-16B                                            | 40.22              | 26.97                    | <i>inward</i>    | PZ-16A                     | 39.05              | 29.86                    |
| PZ-17                                             | 40.57              | 29.15                    | <i>inward</i>    | SG-2                       |                    | 30.60                    |
| PZ-18                                             | 40.16              | 29.66                    | <i>inward</i>    | SG-3                       |                    | 34.00                    |
| <b><u>Additional In-House Monitoring Data</u></b> |                    |                          |                  |                            |                    |                          |
| <u>Stage I</u><br>PZ-2                            | 42.47              | 29.95                    | <i>inward</i>    | MW-3                       | 42.32              | 35.32                    |
| <u>Stage II</u><br>PZ-9                           | 39.20              | 34.37                    | <i>outward</i>   | LRII-3                     | 33.47              | 28.52                    |
| <u>Stage III</u><br>PZ-15C                        | 40.46              | 24.75                    | <i>inward</i>    | GC-1A                      | 31.75              | 28.31                    |
| PZ-16B                                            | 40.22              | 26.97                    | <i>inward</i>    | GC-5                       | 36.46              | 31.21                    |
| PZ-17                                             | 40.57              | 29.15                    | <i>inward</i>    | GC-6                       | 39.02              | 32.55                    |

Notes:

The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999). Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002. PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: August 6, 2004

Manatee County Lena Road Landfill  
Groundwater Gradient  
September 2004

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.15                    | <i>inward</i>    | MW-5               | 39.88              | 31.57                    |
| PZ-2           | 42.47              | 29.95                    | <i>inward</i>    | MW-2               | 41.13              | 32.13                    |
| PZ-3A          | 44.90              | 29.15                    | <i>inward</i>    | MW-1               | 42.58              | 33.78                    |
| PZ-4A          | 47.73              | 29.88                    | <i>inward</i>    | CW-4               | 37.48              | 34.48                    |
| PZ-5           | 43.94              | 30.19                    | <i>inward</i>    | CW-5A              | 41.18              | 37.68                    |
| PZ-6           | 44.73              | 30.95                    | <i>inward</i>    | SG-1               |                    | 33.60                    |
| PZ-7           | 47.76              | 30.76                    | <i>inward</i>    | MW-6               | 39.29              | 33.44                    |
| PZ-19          | 45.87              | 28.67                    | <i>inward</i>    | PZ-11              | 38.94              | 33.06                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 32.93 | <i>outward</i> | LRII-5 | 36.75 | 31.41 |
| PZ-9            | 39.20 | 33.30 | <i>outward</i> | LRII-4 | 33.85 | 28.37 |
| PZ-10           | 37.05 | 32.91 | <i>outward</i> | LRII-2 | 36.48 | 31.07 |
| PZ-11           | 38.94 | 33.06 | <i>outward</i> | LRII-1 | 37.97 | 32.95 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 29.09 | <i>inward</i> | GC-2   | 38.15 | 32.66 |
| PZ-13            | 35.36 | 28.05 | <i>inward</i> | GC-3   | 35.02 | 29.38 |
| PZ-14A           | 34.58 | 21.28 | <i>inward</i> | GC-4A  | 34.96 | 29.91 |
| PZ-15C           | 40.46 | 20.74 | <i>inward</i> | PZ-15A | 39.79 | 31.48 |
| PZ-16B           | 40.22 | 21.32 | <i>inward</i> | PZ-16A | 39.05 | 28.85 |
| PZ-17            | 40.57 | 28.78 | <i>inward</i> | SG-2   |       | 30.24 |
| PZ-18            | 40.16 | 28.90 | <i>inward</i> | SG-3   |       | 33.50 |

Dry 28.90

Dry 33.50

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <u>Stage I</u>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 29.95 | <i>inward</i>  | MW-3   | 42.32 | 33.72 |
| <u>Stage II</u>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 33.30 | <i>outward</i> | LRII-3 | 33.47 | 28.05 |
| <u>Stage III</u>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 20.74 | <i>inward</i>  | GC-1A  | 31.75 | 26.95 |
| PZ-16B                                     | 40.22 | 21.32 | <i>inward</i>  | GC-5   | 36.46 | 29.28 |
| PZ-17                                      | 40.57 | 28.78 | <i>inward</i>  | GC-6   | 39.02 | 31.12 |

**Notes:**

The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10,1999).

Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.

PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: September 1, 2004

Manatee County Lena Road Landfill  
Groundwater Gradient  
October 2004

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow      | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|------------|--------------------|--------------------------|-----------------------|--------------------|--------------------|--------------------------|
|            |                    |                          | <b><u>STAGE I</u></b> |                    |                    |                          |
| PZ-1       | 42.55              | 29.11                    | <i>inward</i>         | MW-5               | 39.88              | 31.63                    |
| PZ-2       | 42.47              | 30.06                    | <i>inward</i>         | MW-2               | 41.13              | 32.20                    |
| PZ-3A      | 44.90              | 29.81                    | <i>inward</i>         | MW-1               | 42.58              | 33.95                    |
| PZ-4A      | 47.73              | 29.97                    | <i>inward</i>         | CW-4               | 37.48              | 35.10                    |
| PZ-5       | 43.94              | 30.21                    | <i>inward</i>         | CW-5A              | 41.18              | 38.68                    |
| PZ-6       | 44.73              | 30.98                    | <i>inward</i>         | SG-1               |                    | 33.41                    |
| PZ-7       | 47.76              | 30.06                    | <i>inward</i>         | MW-6               | 39.29              | 33.63                    |
| PZ-19      | 45.87              | 28.65                    | <i>inward</i>         | PZ-11              | 38.94              | 33.74                    |

Dry 32.80

|       |       |       |                        |        |       |       |
|-------|-------|-------|------------------------|--------|-------|-------|
|       |       |       | <b><u>STAGE II</u></b> |        |       |       |
| PZ-8  | 37.63 | 33.78 | <i>outward</i>         | LRII-5 | 36.75 | 31.66 |
| PZ-9  | 39.20 | 33.84 | <i>outward</i>         | LRII-4 | 33.85 | 28.88 |
| PZ-10 | 37.05 | 33.85 | <i>outward</i>         | LRII-2 | 36.48 | 31.31 |
| PZ-11 | 38.94 | 33.74 | <i>outward</i>         | LRII-1 | 37.97 | 32.77 |

|        |       |       |                         |        |       |       |
|--------|-------|-------|-------------------------|--------|-------|-------|
|        |       |       | <b><u>STAGE III</u></b> |        |       |       |
| PZ-12A | 38.48 | 29.35 | <i>inward</i>           | GC-2   | 38.15 | 32.30 |
| PZ-13  | 35.36 | 28.34 | <i>inward</i>           | GC-3   | 35.02 | 29.26 |
| PZ-14A | 34.58 | 24.99 | <i>inward</i>           | GC-4A  | 34.96 | 29.74 |
| PZ-15C | 40.46 | 24.22 | <i>inward</i>           | PZ-15A | 39.79 | 32.03 |
| PZ-16B | 40.22 | 25.03 | <i>inward</i>           | PZ-16A | 39.05 | 28.63 |
| PZ-17  | 40.57 | 28.85 | <i>inward</i>           | SG-2   |       | 29.48 |
| PZ-18  | 40.16 | 28.92 | <i>inward</i>           | SG-3   |       | 33.50 |

Dry 28.90

Dry 33.50

| <b><u>Additional In-House Monitoring Data</u></b> |       |       |                |        |       |       |
|---------------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <b><u>Stage I</u></b><br>PZ-2                     | 42.47 | 30.06 | <i>inward</i>  | MW-3   | 42.32 | 33.74 |
| <b><u>Stage II</u></b><br>PZ-9                    | 39.20 | 33.84 | <i>outward</i> | LRII-3 | 33.47 | 28.22 |
| <b><u>Stage III</u></b><br>PZ-15C                 | 40.46 | 24.22 | <i>inward</i>  | GC-1A  | 31.75 | 27.18 |
| PZ-16B                                            | 40.22 | 25.03 | <i>inward</i>  | GC-5   | 36.46 | 28.99 |
| PZ-17                                             | 40.57 | 28.85 | <i>inward</i>  | GC-6   | 39.02 | 31.27 |

**Notes:**

The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999).

Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.

PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: October 7 and 14, 2004.

Manatee County Lena Road Landfill  
Groundwater Gradient  
November 2004

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.15                    | <i>inward</i>    | MW-5               | 39.88              | 31.32                    |
| PZ-2           | 42.47              | 29.97                    | <i>inward</i>    | MW-2               | 41.13              | 31.80                    |
| PZ-3A          | 44.90              | 29.40                    | <i>inward</i>    | MW-1               | 42.58              | 33.33                    |
| PZ-4A          | 47.73              | 29.95                    | <i>inward</i>    | CW-4               | 37.48              | 35.08                    |
| PZ-5           | 43.94              | 30.30                    | <i>inward</i>    | CW-5A              | 41.18              | 38.59                    |
| PZ-6           | 44.73              | 30.97                    | <i>inward</i>    | SG-1               |                    | 32.80                    |
| PZ-7           | 47.76              | 30.10                    | <i>inward</i>    | MW-6               | 39.29              | 32.98                    |
| PZ-19          | 45.87              | 28.64                    | <i>inward</i>    | PZ-11              | 38.94              | 33.44                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 33.36 | <i>outward</i> | LRII-5 | 36.75 | 30.39 |
| PZ-9            | 39.20 | 33.45 | <i>outward</i> | LRII-4 | 33.85 | 27.63 |
| PZ-10           | 37.05 | 33.34 | <i>outward</i> | LRII-2 | 36.48 | 30.21 |
| PZ-11           | 38.94 | 33.44 | <i>outward</i> | LRII-1 | 37.97 | 31.97 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 28.69 | <i>inward</i> | GC-2   | 38.15 | 32.55 |
| PZ-13            | 35.36 | 27.35 | <i>inward</i> | GC-3   | 35.02 | 29.32 |
| PZ-14A           | 34.58 | 21.18 | <i>inward</i> | GC-4A  | 34.96 | 29.75 |
| PZ-15C           | 40.46 | 20.82 | <i>inward</i> | PZ-15A | 39.79 | 32.06 |
| PZ-16B           | 40.22 | 21.21 | <i>inward</i> | PZ-16A | 39.05 | 28.83 |
| PZ-17            | 40.57 | 28.54 | <i>inward</i> | SG-2   |       | 29.53 |
| PZ-18            | 40.16 | 28.82 | <i>inward</i> | SG-3   |       | 33.32 |

Dry 28.90

Dry 33.50

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <u>Stage I</u>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 29.97 | <i>inward</i>  | MW-3   | 42.32 | 32.98 |
| <u>Stage II</u>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 33.45 | <i>outward</i> | LRII-3 | 33.47 | 26.97 |
| <u>Stage III</u>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 20.82 | <i>inward</i>  | GC-1A  | 31.75 | 27.04 |
| PZ-16B                                     | 40.22 | 21.21 | <i>inward</i>  | GC-5   | 36.46 | 28.88 |
| PZ-17                                      | 40.57 | 28.54 | <i>inward</i>  | GC-6   | 39.02 | 30.61 |

**Notes:**

The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10,1999).

Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.

PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: November 5, 2004

Manatee County Lena Road Landfill  
Groundwater Gradient  
December 2004

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow      | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|------------|--------------------|--------------------------|-----------------------|--------------------|--------------------|--------------------------|
|            |                    |                          | <b><u>STAGE I</u></b> |                    |                    |                          |
| PZ-1       | 42.55              | 29.17                    | <i>inward</i>         | MW-5               | 39.88              | 31.24                    |
| PZ-2       | 42.47              | 29.98                    | <i>inward</i>         | MW-2               | 41.13              | 31.65                    |
| PZ-3A      | 44.90              | 29.82                    | <i>inward</i>         | MW-1               | 42.58              | 32.97                    |
| PZ-4A      | 47.73              | 30.07                    | <i>inward</i>         | CW-4               | 37.48              | 35.02                    |
| PZ-5       | 43.94              | 30.25                    | <i>inward</i>         | CW-5A              | 41.18              | 38.65                    |
| PZ-6       | 44.73              | 30.99                    | <i>inward</i>         | SG-1               |                    | 33.41                    |
| PZ-7       | 47.76              | 30.02                    | <i>inward</i>         | MW-6               | 39.29              | 33.10                    |
| PZ-19      | 45.87              | 28.72                    | <i>inward</i>         | PZ-11              | 38.94              | 33.43                    |

Dry 32.80

|       |       |       |                        |        |       |       |
|-------|-------|-------|------------------------|--------|-------|-------|
|       |       |       | <b><u>STAGE II</u></b> |        |       |       |
| PZ-8  | 37.63 | 33.40 | <i>outward</i>         | LRII-5 | 36.75 | 29.87 |
| PZ-9  | 39.20 | 33.40 | <i>outward</i>         | LRII-4 | 33.85 | 27.10 |
| PZ-10 | 37.05 | 33.40 | <i>outward</i>         | LRII-2 | 36.48 | 29.95 |
| PZ-11 | 38.94 | 33.43 | <i>outward</i>         | LRII-1 | 37.97 | 32.01 |

|        |       |       |                         |        |       |       |
|--------|-------|-------|-------------------------|--------|-------|-------|
|        |       |       | <b><u>STAGE III</u></b> |        |       |       |
| PZ-12A | 38.48 | 28.50 | <i>inward</i>           | GC-2   | 38.15 | 32.23 |
| PZ-13  | 35.36 | 26.85 | <i>inward</i>           | GC-3   | 35.02 | 29.18 |
| PZ-14A | 34.58 | 20.86 | <i>inward</i>           | GC-4A  | 34.96 | 29.94 |
| PZ-15C | 40.46 | 20.62 | <i>inward</i>           | PZ-15A | 39.79 | 31.57 |
| PZ-16B | 40.22 | 21.10 | <i>inward</i>           | PZ-16A | 39.05 | 28.82 |
| PZ-17  | 40.57 | 28.43 | <i>inward</i>           | SG-2   |       | 29.35 |
| PZ-18  | 40.16 | 28.81 | <i>inward</i>           | SG-3   |       | 33.50 |

Dry 28.90

Dry 33.50

| <b><u>Additional In-House Monitoring Data</u></b> |       |       |                |        |       |       |
|---------------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <b><u>Stage I</u></b>                             |       |       |                |        |       |       |
| PZ-2                                              | 42.47 | 29.98 | <i>inward</i>  | MW-3   | 42.32 | 32.68 |
| <b><u>Stage II</u></b>                            |       |       |                |        |       |       |
| PZ-9                                              | 39.20 | 33.40 | <i>outward</i> | LRII-3 | 33.47 | 26.44 |
| <b><u>Stage III</u></b>                           |       |       |                |        |       |       |
| PZ-15C                                            | 40.46 | 20.62 | <i>inward</i>  | GC-1A  | 31.75 | 27.91 |
| PZ-16B                                            | 40.22 | 21.10 | <i>inward</i>  | GC-5   | 36.46 | 29.13 |
| PZ-17                                             | 40.57 | 28.43 | <i>inward</i>  | GC-6   | 39.02 | 30.50 |

Notes: The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999). Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002. PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: December 1, 2004

Manatee County Lena Road Landfill  
Groundwater Gradient  
January 2005

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.07                    | <i>inward</i>    | MW-5               | 39.88              | 31.50                    |
| PZ-2           | 42.47              | 29.95                    | <i>inward</i>    | MW-2               | 41.13              | 31.80                    |
| PZ-3A          | 44.90              | 29.13                    | <i>inward</i>    | MW-1               | 42.58              | 33.56                    |
| PZ-4A          | 47.73              | 29.93                    | <i>inward</i>    | CW-4               | 37.48              | 35.16                    |
| PZ-5           | 43.94              | 30.23                    | <i>inward</i>    | CW-5A              | 41.18              | 38.83                    |
| PZ-6           | 44.73              | 30.98                    | <i>inward</i>    | SG-1               |                    | 33.60                    |
| PZ-7           | 47.76              | 30.00                    | <i>inward</i>    | MW-6               | 39.29              | 33.48                    |
| PZ-19          | 45.87              | 28.62                    | <i>inward</i>    | PZ-11              | 38.94              | 33.53                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 33.45 | <i>outward</i> | LRII-5 | 36.75 | 30.15 |
| PZ-9            | 39.20 | 33.51 | <i>outward</i> | LRII-4 | 33.85 | 27.09 |
| PZ-10           | 37.05 | 33.48 | <i>outward</i> | LRII-2 | 36.48 | 30.18 |
| PZ-11           | 38.94 | 33.53 | <i>outward</i> | LRII-1 | 37.97 | 32.47 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 28.60 | <i>inward</i> | GC-2   | 38.15 | 32.87 |
| PZ-13            | 35.36 | 26.27 | <i>inward</i> | GC-3   | 35.02 | 29.43 |
| PZ-14A           | 34.58 | 21.09 | <i>inward</i> | GC-4A  | 34.96 | 30.16 |
| PZ-15C           | 40.46 | 20.78 | <i>inward</i> | PZ-15A | 39.79 | 31.03 |
| PZ-16B           | 40.22 | 21.16 | <i>inward</i> | PZ-16A | 39.05 | 28.95 |
| PZ-17            | 40.57 | 28.47 | <i>inward</i> | SG-2   |       | 29.10 |
| PZ-18            | 40.16 | 28.97 | <i>inward</i> | SG-3   |       | 33.50 |

Dry 28.90

Dry 33.50

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <u>Stage I</u>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 29.95 | <i>inward</i>  | MW-3   | 42.32 | 33.58 |
| <u>Stage II</u>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 33.51 | <i>outward</i> | LRII-3 | 33.47 | 26.62 |
| <u>Stage III</u>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 20.78 | <i>inward</i>  | GC-1A  | 31.75 | 28.12 |
| PZ-16B                                     | 40.22 | 21.16 | <i>inward</i>  | GC-5   | 36.46 | 29.22 |
| PZ-17                                      | 40.57 | 28.47 | <i>inward</i>  | GC-6   | 39.02 | 30.72 |

**Notes:**

The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999).

Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.

PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: January 7, 2005



Manatee County Lena Road Landfill  
Groundwater Gradient  
February 2005

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.16                    | <i>inward</i>    | MW-5               | 39.88              | 31.35                    |
| PZ-2           | 42.47              | 29.96                    | <i>inward</i>    | MW-2               | 41.13              | 31.78                    |
| PZ-3A          | 44.90              | 29.15                    | <i>inward</i>    | MW-1               | 42.58              | 33.79                    |
| PZ-4A          | 47.73              | 29.95                    | <i>inward</i>    | CW-4               | 37.48              | 35.22                    |
| PZ-5           | 43.94              | 30.24                    | <i>inward</i>    | CW-5A              | 41.18              | 38.84                    |
| PZ-6           | 44.73              | 31.10                    | <i>inward</i>    | SG-1               |                    | 33.83                    |
| PZ-7           | 47.76              | 30.01                    | <i>inward</i>    | MW-6               | 39.29              | 33.30                    |
| PZ-19          | 45.87              | 28.71                    | <i>inward</i>    | PZ-11              | 38.94              | 33.22                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 33.20 | <i>outward</i> | LRII-5 | 36.75 | 29.70 |
| PZ-9            | 39.20 | 33.26 | <i>outward</i> | LRII-4 | 33.85 | 26.55 |
| PZ-10           | 37.05 | 33.13 | <i>outward</i> | LRII-2 | 36.48 | 29.33 |
| PZ-11           | 38.94 | 33.22 | <i>outward</i> | LRII-1 | 37.97 | 31.85 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 28.44 | <i>inward</i> | GC-2   | 38.15 | 31.98 |
| PZ-13            | 35.36 | 26.00 | <i>inward</i> | GC-3   | 35.02 | 29.23 |
| PZ-14A           | 34.58 | 20.79 | <i>inward</i> | GC-4A  | 34.96 | 29.88 |
| PZ-15C           | 40.46 | 20.66 | <i>inward</i> | PZ-15A | 39.79 | 31.77 |
| PZ-16B           | 40.22 | 21.13 | <i>inward</i> | PZ-16A | 39.05 | 28.94 |
| PZ-17            | 40.57 | 28.38 | <i>inward</i> | SG-2   |       | 29.40 |
| PZ-18            | 40.16 | 28.79 | <i>inward</i> | SG-3   |       | 33.50 |

Dry 28.90

Dry 33.50

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <u>Stage I</u>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 29.96 | <i>inward</i>  | MW-3   | 42.32 | 33.55 |
| <u>Stage II</u>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 33.26 | <i>outward</i> | LRII-3 | 33.47 | 26.10 |
| <u>Stage III</u>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 20.66 | <i>inward</i>  | GC-1A  | 31.75 | 27.96 |
| PZ-16B                                     | 40.22 | 21.13 | <i>inward</i>  | GC-5   | 36.46 | 28.77 |
| PZ-17                                      | 40.57 | 28.38 | <i>inward</i>  | GC-6   | 39.02 | 30.57 |

Notes: The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999). Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002. PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: February 17, 2005

Manatee County Lena Road Landfill  
Groundwater Gradient  
March 2005

| Inside Slurry Wall                         |                    |                          |                  | Outside Slurry Wall |                    |                          |
|--------------------------------------------|--------------------|--------------------------|------------------|---------------------|--------------------|--------------------------|
| Piezometer                                 | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well  | Riser<br>Elevation | Groundwater<br>Elevation |
| <b>STAGE I</b>                             |                    |                          |                  |                     |                    |                          |
| PZ-1                                       | 42.55              | 29.21                    | <i>inward</i>    | MW-5                | 39.88              | 32.20                    |
| PZ-2                                       | 42.47              | 29.92                    | <i>inward</i>    | MW-2                | 41.13              | 33.00                    |
| PZ-3A                                      | 44.90              | 29.17                    | <i>inward</i>    | MW-1                | 42.58              | 35.07                    |
| PZ-4A                                      | 47.73              | 29.98                    | <i>inward</i>    | CW-4                | 37.48              | 35.84                    |
| PZ-5                                       | 43.94              | 31.29                    | <i>inward</i>    | CW-5A               | 41.18              | 39.46                    |
| PZ-6                                       | 44.73              | 31.03                    | <i>inward</i>    | SG-1                |                    | 36.14                    |
| PZ-7                                       | 47.76              | 30.11                    | <i>inward</i>    | MW-6                | 39.29              | 36.63                    |
| PZ-19                                      | 45.87              | 28.73                    | <i>inward</i>    | PZ-11               | 38.94              | 34.35                    |
| <b>STAGE II</b>                            |                    |                          |                  |                     |                    |                          |
| PZ-8                                       | 37.63              | 34.55                    | <i>outward</i>   | LRII-5              | 36.75              | 33.24                    |
| PZ-9                                       | 39.20              | 34.45                    | <i>outward</i>   | LRII-4              | 33.85              | 29.04                    |
| PZ-10                                      | 37.05              | 34.44                    | <i>outward</i>   | LRII-2              | 36.48              | 33.17                    |
| PZ-11                                      | 38.94              | 34.35                    | <i>inward</i>    | LRII-1              | 37.97              | 34.78                    |
| <b>STAGE III</b>                           |                    |                          |                  |                     |                    |                          |
| PZ-12A                                     | 38.48              | 29.45                    | <i>inward</i>    | GC-2                | 38.15              | 34.30                    |
| PZ-13                                      | 35.36              | 26.94                    | <i>inward</i>    | GC-3                | 35.02              | 30.78                    |
| PZ-14A                                     | 34.58              | 24.39                    | <i>inward</i>    | GC-4A               | 34.96              | 31.99                    |
| PZ-15C                                     | 40.46              | 24.94                    | <i>inward</i>    | PZ-15A              | 39.79              | 32.41                    |
| PZ-16B                                     | 40.22              | 25.52                    | <i>inward</i>    | PZ-16A              | 39.05              | 30.15                    |
| PZ-17                                      | 40.57              | 28.62                    | <i>inward</i>    | SG-2                |                    | 30.50                    |
| PZ-18                                      | 40.16              | 29.43                    | <i>inward</i>    | SG-3                |                    | 33.90                    |
| <b>Additional In-House Monitoring Data</b> |                    |                          |                  |                     |                    |                          |
| <u>Stage I</u><br>PZ-2                     | 42.47              | 29.92                    | <i>inward</i>    | MW-3                | 42.32              | 34.73                    |
| <u>Stage II</u><br>PZ-9                    | 39.20              | 34.45                    | <i>outward</i>   | LRII-3              | 33.47              | 28.86                    |
| <u>Stage III</u><br>PZ-15C                 | 40.46              | 24.94                    | <i>inward</i>    | GC-1A               | 31.75              | 29.58                    |
| PZ-16B                                     | 40.22              | 25.52                    | <i>inward</i>    | GC-5                | 36.46              | 30.54                    |
| PZ-17                                      | 40.57              | 28.62                    | <i>inward</i>    | GC-6                | 39.02              | 33.21                    |

Dry 32.80

Dry 28.90  
Dry 33.50

Notes:

The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999). Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002. PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: March 17, 2005

Manatee County Lena Road Landfill  
Groundwater Gradient  
April 2005

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.07                    | <i>inward</i>    | MW-5               | 39.88              | 31.72                    |
| PZ-2           | 42.47              | 29.93                    | <i>inward</i>    | MW-2               | 41.13              | 32.53                    |
| PZ-3A          | 44.90              | 29.10                    | <i>inward</i>    | MW-1               | 42.58              | 34.43                    |
| PZ-4A          | 47.73              | 29.85                    | <i>inward</i>    | CW-4               | 37.48              | 35.24                    |
| PZ-5           | 43.94              | 30.20                    | <i>inward</i>    | CW-5A              | 41.18              | 38.68                    |
| PZ-6           | 44.73              | 30.96                    | <i>inward</i>    | SG-1               |                    | 34.06                    |
| PZ-7           | 47.76              | 30.00                    | <i>inward</i>    | MW-6               | 39.29              | 34.15                    |
| PZ-19          | 45.87              | 28.64                    | <i>inward</i>    | PZ-11              | 38.94              | 32.49                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 32.39 | <i>outward</i> | LRII-5 | 36.75 | 32.24 |
| PZ-9            | 39.20 | 32.70 | <i>outward</i> | LRII-4 | 33.85 | 28.51 |
| PZ-10           | 37.05 | 32.69 | <i>outward</i> | LRII-2 | 36.48 | 31.55 |
| PZ-11           | 38.94 | 32.49 | <i>inward</i>  | LRII-1 | 37.97 | 33.68 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 28.59 | <i>inward</i> | GC-2   | 38.15 | 33.34 |
| PZ-13            | 35.36 | 27.19 | <i>inward</i> | GC-3   | 35.02 | 29.85 |
| PZ-14A           | 34.58 | 21.57 | <i>inward</i> | GC-4A  | 34.96 | 30.83 |
| PZ-15C           | 40.46 | 21.04 | <i>inward</i> | PZ-15A | 39.79 | 32.04 |
| PZ-16B           | 40.22 | 21.06 | <i>inward</i> | PZ-16A | 39.05 | 28.97 |
| PZ-17            | 40.57 | 28.53 | <i>inward</i> | SG-2   |       | 30.82 |
| PZ-18            | 40.16 | 28.87 | <i>inward</i> | SG-3   |       | 33.80 |

Dry 28.90

Dry 33.50

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <u>Stage I</u>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 29.93 | <i>inward</i>  | MW-3   | 42.32 | 34.21 |
| <u>Stage II</u>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 32.70 | <i>outward</i> | LRII-3 | 33.47 | 27.98 |
| <u>Stage III</u>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 21.04 | <i>inward</i>  | GC-1A  | 31.75 | 27.65 |
| PZ-16B                                     | 40.22 | 21.06 | <i>inward</i>  | GC-5   | 36.46 | 29.36 |
| PZ-17                                      | 40.57 | 28.53 | <i>inward</i>  | GC-6   | 39.02 | 31.09 |

Notes:

The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10,1999).

Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.

PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: April 15, 2005

Manatee County Lena Road Landfill  
Groundwater Gradient  
May 2005

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.07                    | <i>inward</i>    | MW-5               | 39.88              | 31.72                    |
| PZ-2           | 42.47              | 29.93                    | <i>inward</i>    | MW-2               | 41.13              | 32.53                    |
| PZ-3A          | 44.90              | 29.10                    | <i>inward</i>    | MW-1               | 42.58              | 34.43                    |
| PZ-4A          | 47.73              | 29.85                    | <i>inward</i>    | CW-4               | 37.48              | 35.24                    |
| PZ-5           | 43.94              | 30.20                    | <i>inward</i>    | CW-5A              | 41.18              | 38.68                    |
| PZ-6           | 44.73              | 30.96                    | <i>inward</i>    | SG-1               |                    | 34.06                    |
| PZ-7           | 47.76              | 30.00                    | <i>inward</i>    | MW-6               | 39.29              | 34.15                    |
| PZ-19          | 45.87              | 28.64                    | <i>inward</i>    | PZ-11              | 38.94              | 32.49                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 32.39 | <i>outward</i> | LRII-5 | 36.75 | 32.24 |
| PZ-9            | 39.20 | 32.70 | <i>outward</i> | LRII-4 | 33.85 | 28.51 |
| PZ-10           | 37.05 | 32.69 | <i>outward</i> | LRII-2 | 36.48 | 31.55 |
| PZ-11           | 38.94 | 32.49 | <i>inward</i>  | LRII-1 | 37.97 | 33.68 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 28.59 | <i>inward</i> | GC-2   | 38.15 | 33.34 |
| PZ-13            | 35.36 | 27.19 | <i>inward</i> | GC-3   | 35.02 | 29.85 |
| PZ-14A           | 34.58 | 21.57 | <i>inward</i> | GC-4A  | 34.96 | 30.83 |
| PZ-15C           | 40.46 | 21.04 | <i>inward</i> | PZ-15A | 39.79 | 32.04 |
| PZ-16B           | 40.22 | 21.06 | <i>inward</i> | PZ-16A | 39.05 | 28.97 |
| PZ-17            | 40.57 | 28.53 | <i>inward</i> | SG-2   |       | 30.82 |
| PZ-18            | 40.16 | 28.87 | <i>inward</i> | SG-3   |       | 33.80 |

Dry 28.90

Dry 33.50

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <u>Stage I</u>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 29.93 | <i>inward</i>  | MW-3   | 42.32 | 34.21 |
| <u>Stage II</u>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 32.70 | <i>outward</i> | LRII-3 | 33.47 | 27.98 |
| <u>Stage III</u>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 21.04 | <i>inward</i>  | GC-1A  | 31.75 | 27.65 |
| PZ-16B                                     | 40.22 | 21.06 | <i>inward</i>  | GC-5   | 36.46 | 29.36 |
| PZ-17                                      | 40.57 | 28.53 | <i>inward</i>  | GC-6   | 39.02 | 31.09 |

Notes:

The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999).

Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.

PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: May 5, 2005

**Manatee County Lena Road Landfill  
Groundwater Gradient  
June 2005**

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.23                    | <i>inward</i>    | MW-5               | 39.88              | 32.45                    |
| PZ-2           | 42.47              | 29.02                    | <i>inward</i>    | MW-2               | 41.13              | 33.23                    |
| PZ-3A          | 44.90              | 29.20                    | <i>inward</i>    | MW-1               | 42.58              | 34.68                    |
| PZ-4A          | 47.73              | 29.97                    | <i>inward</i>    | CW-4               | 37.48              | 35.30                    |
| PZ-5           | 43.94              | 26.24                    | <i>inward</i>    | CW-5A              | 41.18              | 38.79                    |
| PZ-6           | 44.73              | 31.20                    | <i>inward</i>    | SG-1               |                    | 34.05                    |
| PZ-7           | 47.76              | 30.08                    | <i>inward</i>    | MW-6               | 39.29              | 34.91                    |
| PZ-19          | 45.87              | 28.73                    | <i>inward</i>    | PZ-11              | 38.94              | 33.29                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 33.25 | <i>outward</i> | LR11-5 | 36.75 | 32.81 |
| PZ-9            | 39.20 | 33.48 | <i>outward</i> | LR11-4 | 33.85 | 29.36 |
| PZ-10           | 37.05 | 33.42 | <i>outward</i> | LR11-2 | 36.48 | 32.08 |
| PZ-11           | 38.94 | 33.29 | <i>inward</i>  | LR11-1 | 37.97 | 33.95 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 28.95 | <i>inward</i> | GC-2   | 38.15 | 32.36 |
| PZ-13            | 35.36 | 29.18 | <i>inward</i> | GC-3   | 35.02 | 29.93 |
| PZ-14A           | 34.58 | 22.93 | <i>inward</i> | GC-4A  | 34.96 | 30.80 |
| PZ-15C           | 40.46 | 21.38 | <i>inward</i> | PZ-15A | 39.79 | 32.17 |
| PZ-16B           | 40.22 | 21.20 | <i>inward</i> | PZ-16A | 39.05 | 28.93 |
| PZ-17            | 40.57 | 29.01 | <i>inward</i> | SG-2   |       | 29.40 |
| PZ-18            | 40.16 | 29.23 | <i>inward</i> | SG-3   |       | 33.36 |

Dry 28.90

Dry 33.50

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <u>Stage I</u>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 30.02 | <i>inward</i>  | MW-3   | 42.32 | 34.64 |
| <u>Stage II</u>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 33.48 | <i>outward</i> | LR11-3 | 33.47 | 27.67 |
| <u>Stage III</u>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 21.38 | <i>inward</i>  | GC-1A  | 31.75 | 28.73 |
| PZ-16B                                     | 40.22 | 21.20 | <i>inward</i>  | GC-5   | 36.46 | 29.27 |
| PZ-17                                      | 40.57 | 29.01 | <i>inward</i>  | GC-6   | 39.02 | 31.43 |

**Notes:**

The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999).

Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.

PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: June 16, 2005

**Manatee County Lena Road Landfill  
Groundwater Gradient  
July 2005**

**Inside Slurry Wall**

**Outside Slurry Wall**

| Piezometer     | Riser<br>Elevation | Groundwater<br>Elevation | Gradient<br>Flow | Monitoring<br>Well | Riser<br>Elevation | Groundwater<br>Elevation |
|----------------|--------------------|--------------------------|------------------|--------------------|--------------------|--------------------------|
| <b>STAGE I</b> |                    |                          |                  |                    |                    |                          |
| PZ-1           | 42.55              | 29.09                    | <i>inward</i>    | MW-5               | 39.88              | 29.16                    |
| PZ-2           | 42.47              | 29.98                    | <i>inward</i>    | MW-2               | 41.13              | 32.30                    |
| PZ-3A          | 44.90              | 29.15                    | <i>inward</i>    | MW-1               | 42.58              | 34.30                    |
| PZ-4A          | 47.73              | 29.90                    | <i>inward</i>    | CW-4               | 37.48              | 35.49                    |
| PZ-5           | 43.94              | 30.15                    | <i>inward</i>    | CW-5A              | 41.18              | 38.80                    |
| PZ-6           | 44.73              | 31.06                    | <i>inward</i>    | SG-1               |                    | 34.15                    |
| PZ-7           | 47.76              | 30.17                    | <i>inward</i>    | MW-6               | 39.29              | 34.96                    |
| PZ-19          | 45.87              | 28.72                    | <i>inward</i>    | PZ-11              | 38.94              | 33.31                    |

Dry 32.80

|                 |       |       |                |        |       |       |
|-----------------|-------|-------|----------------|--------|-------|-------|
| <b>STAGE II</b> |       |       |                |        |       |       |
| PZ-8            | 37.63 | 33.35 | <i>outward</i> | LRII-5 | 36.75 | 33.08 |
| PZ-9            | 39.20 | 33.49 | <i>outward</i> | LRII-4 | 33.85 | 29.62 |
| PZ-10           | 37.05 | 33.50 | <i>outward</i> | LRII-2 | 36.48 | 32.17 |
| PZ-11           | 38.94 | 33.31 | <i>inward</i>  | LRII-1 | 37.97 | 33.55 |

|                  |       |       |               |        |       |       |
|------------------|-------|-------|---------------|--------|-------|-------|
| <b>STAGE III</b> |       |       |               |        |       |       |
| PZ-12A           | 38.48 | 28.98 | <i>inward</i> | GC-2   | 38.15 | 33.76 |
| PZ-13            | 35.36 | 29.39 | <i>inward</i> | GC-3   | 35.02 | 30.08 |
| PZ-14A           | 34.58 | 23.02 | <i>inward</i> | GC-4A  | 34.96 | 31.18 |
| PZ-15C           | 40.46 | 21.37 | <i>inward</i> | PZ-15A | 39.79 | 32.58 |
| PZ-16B           | 40.22 | 21.12 | <i>inward</i> | PZ-16A | 39.05 | 28.95 |
| PZ-17            | 40.57 | 28.97 | <i>inward</i> | SG-2   |       | 29.50 |
| PZ-18            | 40.16 | 29.35 | <i>inward</i> | SG-3   |       | 33.70 |

Dry 28.90

Dry 33.50

| <b>Additional In-House Monitoring Data</b> |       |       |                |        |       |       |
|--------------------------------------------|-------|-------|----------------|--------|-------|-------|
| <u>Stage I</u>                             |       |       |                |        |       |       |
| PZ-2                                       | 42.47 | 29.98 | <i>inward</i>  | MW-3   | 42.32 | 34.19 |
| <u>Stage II</u>                            |       |       |                |        |       |       |
| PZ-9                                       | 39.20 | 33.49 | <i>outward</i> | LRII-3 | 33.47 | 30.27 |
| <u>Stage III</u>                           |       |       |                |        |       |       |
| PZ-15C                                     | 40.46 | 21.37 | <i>inward</i>  | GC-1A  | 31.75 | 27.85 |
| PZ-16B                                     | 40.22 | 21.12 | <i>inward</i>  | GC-5   | 36.46 | 29.56 |
| PZ-17                                      | 40.57 | 28.97 | <i>inward</i>  | GC-6   | 39.02 | 32.04 |

Notes: The table is arranged so any piezometer can be compared to its corresponding monitoring point. For example, PZ-1 is located on the opposite side of the slurry wall from MW-5. Thus data from PZ-1 are compared to data from MW-5.

Report includes riser elevations determined by certified survey conducted by County Staff (Aug. 10, 1999).

Riser elevations for MW-1, MW-3, PZ-9, PZ-11 and PZ-19 were resurveyed on November 13, 2002.

PZ-12A and GC-4A were resurveyed in April 2003.

Data Collection: July 18, 2005

FIGURE L-7

Manatee County Lena Road Landfill

## Monthly Groundwater Gradient Report

Month and Year: SEPTEMBER 2005

| Piezometers<br>Inside Slurry Wall |                    |                       |                  | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation | Gradient<br>Flow | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.43                 | <i>inward</i>    | GW-1                                                | 38.68              | 31.65                    |
| P-2                               | 42.32              | 28.46                 | <i>inward</i>    | GW-2                                                | 40.92              | 31.10                    |
| P-3 *                             | 42.32              | 28.46                 | <i>inward</i>    | GW-3                                                | 39.40              | 32.39                    |
| P-4 *                             | 42.32              | 28.46                 | <i>inward</i>    | GW-4                                                | 40.53              | 31.47                    |
| P-5 *                             | 42.32              | 28.46                 | <i>inward</i>    | GW-5                                                | 39.90              | 31.10                    |
| P-6 *                             | 42.32              | 28.46                 | <i>inward</i>    | GW-6                                                | 38.95              | 30.26                    |
| P-7 (PZ-13) *                     | 35.36              | 24.51                 | <i>inward</i>    | GW-7                                                | 39.49              | 28.21                    |
| P-8                               | 40.21              | 21.92                 | <i>inward</i>    | GW-8                                                | 39.75              | 26.98                    |
| P-9                               | 39.97              | 20.22                 | <i>inward</i>    | GW-9                                                | 39.65              | 27.38                    |
| P-10                              | 39.86              | 20.55                 | <i>inward</i>    | GW-10                                               | 38.34              | 28.78                    |
| P-11(PZ-17) **                    | 40.57              | 28.32                 | <i>inward</i>    | GW-11 (GC-6)**                                      | 39.02              | 30.17                    |
| P-12                              | 43.28              | 29.37                 | <i>inward</i>    | GW-12                                               | 42.09              | 30.50                    |
| P-13                              | 44.78              | 30.23                 | <i>inward</i>    | GW-13                                               | 44.79              | 34.61                    |
| P-14                              | 45.09              | 29.78                 | <i>inward</i>    | GW-14                                               | 39.63              | 34.64                    |
| P-15                              | 45.57              | 30.87                 | <i>inward</i>    | GW-15                                               | 42.33              | 36.23                    |
| P-16                              | 44.67              | 31.02                 | <i>inward</i>    | GW-16                                               | 44.41              | 37.00                    |
| P-17                              | 44.28              | 29.83                 | <i>inward</i>    | GW-17                                               | 42.19              | 34.28                    |

Comments:

\* Piezometers P-3, P-4, P-5, P-6 and P-7 could not be installed due to construction in this area.

The reading from P-2 was used to compare water levels to GW-3, GW-4, GW-5 and GW-6, and PZ-13 for GW-7.

\*\* P-11 and GW-11 could not be installed due to construction in this area.

PZ-17 and GC-6 were left in-place and used to measure the gradient in this area.

Date Data Collected: September 14, 2005

Form Revised December 6, 2004

FIGURE L-7

Manatee County Lena Road Landfill

## Monthly Groundwater Gradient Report

Month and Year: OCTOBER 2005

| Piezometers<br>Inside Slurry Wall |                    |                       |                  | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation | Gradient<br>Flow | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.37                 | <i>inward</i>    | GW-1                                                | 38.68              | 31.00                    |
| P-2                               | 42.32              | 28.40                 | <i>inward</i>    | GW-2                                                | 40.92              | 30.44                    |
| P-3 *                             | 42.32              | 28.40                 | <i>inward</i>    | GW-3                                                | 39.40              | 31.72                    |
| P-4 (PZ-12A)                      | 38.48              | 28.19                 | <i>inward</i>    | GW-4                                                | 40.53              | 30.91                    |
| P-5 *                             | 38.48              | 28.19                 | <i>inward</i>    | GW-5                                                | 39.90              | 30.42                    |
| P-6 *                             | 35.36              | 25.69                 | <i>inward</i>    | GW-6                                                | 38.95              | 29.58                    |
| P-7 (PZ-13)                       | 35.36              | 25.69                 | <i>inward</i>    | GW-7                                                | 39.49              | 27.45                    |
| P-8                               | 40.21              | 21.37                 | <i>inward</i>    | GW-8                                                | 39.75              | 26.39                    |
| P-9                               | 39.97              | 20.19                 | <i>inward</i>    | GW-9                                                | 39.65              | 26.53                    |
| P-10                              | 39.86              | 20.52                 | <i>inward</i>    | GW-10                                               | 38.34              | 26.73                    |
| P-11(PZ_17) **                    | 40.57              | 28.21                 | <i>inward</i>    | GW-11 (GC-6)**                                      | 39.02              | 30.14                    |
| P-12                              | 43.28              | 29.36                 | <i>inward</i>    | GW-12                                               | 42.09              | 30.57                    |
| P-13                              | 44.78              | 30.21                 | <i>inward</i>    | GW-13                                               | 44.79              | 34.37                    |
| P-14                              | 45.09              | 29.76                 | <i>inward</i>    | GW-14                                               | 39.63              | 34.61                    |
| P-15                              | 45.57              | 30.88                 | <i>inward</i>    | GW-15                                               | 42.33              | 36.11                    |
| P-16                              | 44.67              | 31.07                 | <i>inward</i>    | GW-16                                               | 44.41              | 36.87                    |
| P-17                              | 44.28              | 29.79                 | <i>inward</i>    | GW-17                                               | 42.19              | 34.17                    |

Comments:

\* Piezometers P-3, P-4, P-5, P-6 and P-7 could not be installed due to construction in this area.

The reading from P-2 was used to compare water levels to GW-2 & GW-3; PZ-12A for GW-4 & GW-5; and PZ-13 for GW-6 & GW-7.

\*\* P-11 and GW-11 could not be installed due to construction in this area.

PZ-17 and GC-6 were left in-place and used to measure the gradient in this area.

Date Data Collected: October 17, 2005

Form Revised December 6, 2004



FIGURE L-7

Manatee County Lena Road Landfill

## Monthly Groundwater Gradient Report

Month and Year: NOVEMBER 2005

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.45                 | <i>inward</i>    | GW-1                                                | 38.68              | 31.53                    |
| P-2                               | 42.32              | 28.50                 | <i>inward</i>    | GW-2                                                | 40.92              | 31.15                    |
| P-3 *                             | 42.32              | 30.36                 | <i>inward</i>    | GW-3                                                | 39.40              | 32.95                    |
| P-4 (PZ-12A)                      | 38.48              | 26.52                 | <i>inward</i>    | GW-4                                                | 40.53              | 32.24                    |
| P-5 *                             | 38.48              | 26.52                 | <i>inward</i>    | GW-5                                                | 39.90              | 31.46                    |
| P-6 *                             | 35.36              | 21.91                 | <i>inward</i>    | GW-6                                                | 38.95              | 31.34                    |
| P-7 (PZ-13)                       | 35.36              | 21.91                 | <i>inward</i>    | GW-7                                                | 39.49              | 28.28                    |
| P-8                               | 40.21              | 17.92                 | <i>inward</i>    | GW-8                                                | 39.75              | 27.28                    |
| P-9                               | 39.97              | 19.84                 | <i>inward</i>    | GW-9                                                | 39.65              | 26.99                    |
| P-10                              | 39.86              | 20.58                 | <i>inward</i>    | GW-10                                               | 38.34              | 27.27                    |
| P-11(PZ-17) **                    | 40.57              | 28.44                 | <i>inward</i>    | GW-11 (GC-6)**                                      | 39.02              | 30.55                    |
| P-12                              | 43.28              | 29.39                 | <i>inward</i>    | GW-12                                               | 42.09              | 30.73                    |
| P-13                              | 44.78              | 30.18                 | <i>inward</i>    | GW-13                                               | 44.79              | 34.47                    |
| P-14                              | 45.09              | 29.79                 | <i>inward</i>    | GW-14                                               | 39.63              | 34.80                    |
| P-15                              | 45.57              | 30.93                 | <i>inward</i>    | GW-15                                               | 42.33              | 36.17                    |
| P-16                              | 44.67              | 31.02                 | <i>inward</i>    | GW-16                                               | 44.41              | 36.94                    |
| P-17                              | 44.28              | 29.85                 | <i>inward</i>    | GW-17                                               | 42.19              | 34.46                    |

Comments:

\* Piezometers P-3, P-4, P-5, P-6 and P-7 could not be installed due to construction in this area.

The reading from P-2 was used to compare water levels to GW-2 & GW-3; PZ-12A for GW-4 & GW-5; and PZ-13 for GW-6 & GW-7.

\*\* P-11 and GW-11 could not be installed due to construction in this area.

PZ-17 and GC-6 were left in-place and used to measure the gradient in this area.

Date Data Collected: November 18, 2005

Form Revised December 6, 2004

FIGURE L-7

Manatee County Lena Road Landfill

# Monthly Groundwater Gradient Report

Month and Year: DECEMBER 2005

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.36                 | inward           | GW-1                                                | 38.68              | 30.53                    |
| P-2                               | 42.32              | 28.41                 | inward           | GW-2                                                | 40.92              | 30.50                    |
| P-3 *                             | 42.32              | 28.84                 | inward           | GW-3                                                | 39.40              | 32.43                    |
| P-4 (PZ-12A)#                     | 38.48              | 25.00                 | inward           | GW-4                                                | 40.53              | 31.96                    |
| P-5 *                             | 38.48              | 25.00                 | inward           | GW-5                                                | 39.90              | 31.09                    |
| P-6 *                             | 35.36              | 21.88                 | inward           | GW-6                                                | 38.95              | 30.05                    |
| P-7 (PZ-13)                       | 35.36              | 21.57                 | inward           | GW-7                                                | 39.49              | 27.76                    |
| P-8                               | 40.21              | 18.93                 | inward           | GW-8                                                | 39.75              | 26.83                    |
| P-9                               | 39.97              | 19.78                 | inward           | GW-9                                                | 39.65              | 26.86                    |
| P-10                              | 39.86              | 20.60                 | inward           | GW-10                                               | 38.34              | 27.05                    |
| P-11(PZ-17) **                    | 40.57              | 28.17                 | inward           | GW-11 (GC-6)**                                      | 39.02              | 30.35                    |
| P-12                              | 43.28              | 29.34                 | inward           | GW-12                                               | 42.09              | 30.67                    |
| P-13                              | 44.78              | 30.22                 | inward           | GW-13                                               | 44.79              | 33.64                    |
| P-14                              | 45.09              | 29.76                 | inward           | GW-14                                               | 39.63              | 34.49                    |
| P-15                              | 45.57              | 30.89                 | inward           | GW-15                                               | 42.33              | 35.77                    |
| P-16                              | 44.67              | 31.09                 | inward           | GW-16                                               | 44.41              | 36.22                    |
| P-17                              | 44.28              | 29.83                 | inward           | GW-17                                               | 42.19              | 33.81                    |

Comments:

\* Piezometers P-3, P-4, P-5, P-6 and P-7 could not be installed due to construction in this area.

The reading from P-2 was used to compare water levels to GW-2 & GW-3; PZ-12A for GW-4 & GW-5; and PZ-13 for GW-6 & GW-7.

\*\* P-11 and GW-11 could not be installed due to construction in this area.

PZ-17 and GC-6 were left in-place and used to measure the gradient in this area.

# = Obstruction in well; could not get water reading; thick mud on probe which required cleaning.

Date Data Collected: December 21, 2005

Form Revised December 6, 2004

FIGURE L-7

Manatee County Lena Road Landfill

# Monthly Groundwater Gradient Report

Month and Year: JANUARY 2006

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.42                 | <i>inward</i>    | GW-1                                                | 38.68              | 30.46                    |
| P-2                               | 42.32              | 28.44                 | <i>inward</i>    | GW-2                                                | 40.92              | 30.45                    |
| P-3*                              | 42.32              | 28.44                 | <i>inward</i>    | GW-3                                                | 39.40              | 32.29                    |
| P-4*                              | 42.32              | 28.44                 | <i>inward</i>    | GW-4                                                | 40.53              | 31.66                    |
| P-5 *                             | 42.32              | 28.44                 | <i>inward</i>    | GW-5                                                | 39.90              | 30.89                    |
| P-6 *                             | 35.36              | 20.71                 | <i>inward</i>    | GW-6                                                | 38.95              | 29.83                    |
| P-7 (PZ-13)                       | 35.36              | 20.71                 | <i>inward</i>    | GW-7                                                | 39.49              | 27.60                    |
| P-8                               | 40.21              | 18.79                 | <i>inward</i>    | GW-8                                                | 39.75              | 26.79                    |
| P-9                               | 39.97              | 19.71                 | <i>inward</i>    | GW-9                                                | 39.65              | 26.82                    |
| P-10                              | 39.86              | 20.53                 | <i>inward</i>    | GW-10                                               | 38.34              | 27.10                    |
| P-11(PZ_17) **                    | 40.57              | 24.90                 | <i>inward</i>    | GW-11 (GC-6)**                                      | 39.02              | 30.35                    |
| P-12                              | 43.28              | 29.36                 | <i>inward</i>    | GW-12                                               | 42.09              | 30.85                    |
| P-13                              | 44.78              | 30.21                 | <i>inward</i>    | GW-13                                               | 44.79              | 33.71                    |
| P-14                              | 45.09              | 29.77                 | <i>inward</i>    | GW-14                                               | 39.63              | 34.47                    |
| P-15                              | 45.57              | 30.93                 | <i>inward</i>    | GW-15                                               | 42.33              | 35.74                    |
| P-16                              | 44.67              | 31.09                 | <i>inward</i>    | GW-16                                               | 44.41              | 36.06                    |
| P-17                              | 44.28              | 29.89                 | <i>inward</i>    | GW-17                                               | 42.19              | 33.82                    |

Comments:

\* Piezometers P-3, P-4, P-5, P-6 and P-7 could not be installed due to construction in this area.

The reading from P-2 was used to compare water levels to GW-2, GW-3, GW-4 & GW-5; and PZ-13 for GW-6 & GW-7.

\*\* P-11 and GW-11 could not be installed due to construction in this area.

PZ-17 and GC-6 were left in-place and used to measure the gradient in this area.

Date Data Collected: January 17, 2006

Form Revised December 6, 2004

FIGURE L-7

Manatee County Lena Road Landfill

# Monthly Groundwater Gradient Report

Month and Year: FEBRUARY 2006

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.34                 | inward           | GW-1                                                | 38.68              | 30.11                    |
| P-2                               | 42.32              | 28.40                 | inward           | GW-2                                                | 40.92              | 30.10                    |
| P-3*                              | 42.32              | 28.40                 | inward           | GW-3                                                | 39.40              | 32.01                    |
| P-4*                              | 42.32              | 28.40                 | inward           | GW-4                                                | 40.53              | 31.51                    |
| P-5 *                             | 42.32              | 28.40                 | inward           | GW-5                                                | 39.90              | 30.66                    |
| P-6 *                             | 35.36              | 20.35                 | inward           | GW-6                                                | 38.95              | 29.62                    |
| P-7 (PZ-13)                       | 35.36              | 20.35                 | inward           | GW-7                                                | 39.49              | 27.40                    |
| P-8                               | 40.21              | 18.68                 | inward           | GW-8                                                | 39.75              | 26.66                    |
| P-9                               | 39.97              | 19.60                 | inward           | GW-9                                                | 39.65              | 26.91                    |
| P-10                              | 39.86              | 20.45                 | inward           | GW-10                                               | 38.34              | 27.03                    |
| P-11(PZ_17) **                    | 40.57              | 24.60                 | inward           | GW-11 (GC-6)**                                      | 39.02              | 30.22                    |
| P-12                              | 43.28              | 29.36                 | inward           | GW-12                                               | 42.09              | 30.77                    |
| P-13                              | 44.78              | 30.22                 | inward           | GW-13                                               | 44.79              | 33.39                    |
| P-14                              | 45.09              | 29.80                 | inward           | GW-14                                               | 39.63              | 34.46                    |
| P-15                              | 45.57              | 30.89                 | inward           | GW-15                                               | 42.33              | 35.70                    |
| P-16                              | 44.67              | 31.09                 | inward           | GW-16                                               | 44.41              | 36.38                    |
| P-17                              | 44.28              | 29.83                 | inward           | GW-17                                               | 42.19              | 33.64                    |

Comments:

\* Piezometers P-3, P-4, P-5, P-6 and P-7 could not be installed due to construction in this area.

The reading from P-2 was used to compare water levels to GW-2, GW-3, GW-4 & GW-5; and PZ-13 for GW-6 & GW-7.

\*\* P-11 and GW-11 could not be installed due to construction in this area.

PZ-17 and GC-6 were left in-place and used to measure the gradient in this area.

Date Data Collected: February 21, 2006

Form Revised December 6, 2004

FIGURE L-7

Manatee County Lena Road Landfill

## Monthly Groundwater Gradient Report

Month and Year: MARCH 2006

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.38                 | inward           | GW-1                                                | 38.68              | 29.83                    |
| P-2                               | 42.32              | 28.44                 | inward           | GW-2                                                | 40.92              | 29.81                    |
| P-3 (P-2)*                        | 42.32              | 28.44                 | inward           | GW-3                                                | 39.40              | 31.46                    |
| P-4 (P-2)*                        | 42.32              | 28.44                 | inward           | GW-4                                                | 40.53              | 30.79                    |
| P-5 (P-2)*                        | 42.32              | 28.44                 | inward           | GW-5                                                | 39.90              | 30.10                    |
| P-6 (P-2) *                       | 42.32              | 28.44                 | inward           | GW-6                                                | 38.95              | 29.17                    |
| P-7 (P-8)*                        | 40.21              | 18.65                 | inward           | GW-7                                                | 39.49              | 27.06                    |
| P-8                               | 40.21              | 18.65                 | inward           | GW-8                                                | 39.75              | 26.30                    |
| P-9                               | 39.97              | 19.56                 | inward           | GW-9                                                | 39.65              | 26.54                    |
| P-10                              | 39.86              | 20.44                 | inward           | GW-10                                               | 38.34              | 26.53                    |
| P-11(PZ-17) **                    | 40.57              | 24.42                 | inward           | GW-11 (GC-6)**                                      | 39.02              | 29.94                    |
| P-12                              | 43.28              | 29.36                 | inward           | GW-12                                               | 42.09              | 30.50                    |
| P-13                              | 44.78              | 30.18                 | inward           | GW-13                                               | 44.79              | 31.94                    |
| P-14                              | 45.09              | 29.78                 | inward           | GW-14                                               | 39.63              | 34.10                    |
| P-15                              | 45.57              | 30.90                 | inward           | GW-15                                               | 42.33              | 35.68                    |
| P-16                              | 44.67              | 31.07                 | inward           | GW-16                                               | 44.41              | 36.18                    |
| P-17                              | 44.28              | 29.90                 | inward           | GW-17                                               | 42.19              | 33.52                    |

Comments:

\* Piezometers P-3, P-4, P-5, P-6 and P-7 could not be installed due to construction in this area.

The reading from P-2 was used to compare water levels to GW-2, GW-3, GW-4, GW-5 & GW-6; and P-8 for GW-7.

\*\* P-11 and GW-11 could not be installed due to construction in this area.

PZ-17 and GC-6 were left in-place and used to measure the gradient in this area.

Date Data Collected: March 20, 2006

Form Revised December 6, 2004

FIGURE L-7

Manatee County Lena Road Landfill

## Monthly Groundwater Gradient Report

Month and Year: April 2006

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.27                 | <i>inward</i>    | GW-1                                                | 38.68              | 29.38                    |
| P-2                               | 42.32              | 28.31                 | <i>inward</i>    | GW-2                                                | 40.92              | 29.35                    |
| P-3 *                             | 42.32              | 28.24                 | <i>inward</i>    | GW-3                                                | 39.40              | 30.89                    |
| P-4 *                             | 42.32              | 23.95                 | <i>inward</i>    | GW-4                                                | 40.53              | 30.22                    |
| P-5 *                             | 42.32              | 22.93                 | <i>inward</i>    | GW-5                                                | 39.90              | 29.53                    |
| P-6 *                             | 42.32              | 21.45                 | <i>inward</i>    | GW-6                                                | 38.95              | 28.64                    |
| P-7*                              | 42.32              | 20.62                 | <i>inward</i>    | GW-7                                                | 39.49              | 26.54                    |
| P-8                               | 40.21              | 18.62                 | <i>inward</i>    | GW-8                                                | 39.75              | 25.78                    |
| P-9                               | 39.97              | 19.48                 | <i>inward</i>    | GW-9                                                | 39.65              | 26.25                    |
| P-10                              | 39.86              | 19.33                 | <i>inward</i>    | GW-10                                               | 38.34              | 26.15                    |
| P-11**                            | 40.57              | 23.02                 | <i>inward</i>    | GW-11 **                                            | 39.02              | 30.22                    |
| P-12                              | 43.28              | 29.29                 | <i>inward</i>    | GW-12                                               | 42.09              | 29.67                    |
| P-13                              | 44.78              | 30.20                 | <i>inward</i>    | GW-13                                               | 44.79              | 31.88                    |
| P-14                              | 45.09              | 29.79                 | <i>inward</i>    | GW-14                                               | 39.63              | 33.91                    |
| P-15                              | 45.57              | 30.89                 | <i>inward</i>    | GW-15                                               | 42.33              | 35.42                    |
| P-16                              | 44.67              | 30.99                 | <i>inward</i>    | GW-16                                               | 44.41              | 35.15                    |
| P-17                              | 44.28              | 29.81                 | <i>inward</i>    | GW-17                                               | 42.19              | 33.00                    |

Comments:

\* Piezometers P-3, P-4, P-5, P-6 and P-7 were installed but not surveyed. Riser elevations estimated based on P-2.

\*\* P-11 and GW-11 were installed, but not surveyed. Riser elevations were estimated based on dike elevations.

Date Data Collected: April 21, 2006

Form Revised December 6, 2004

**FIGURE L-7**

Manatee County Lena Road Landfill

# **Monthly Groundwater Gradient Report**

**Month and Year: May 2006**

| Piezometers<br>Inside Slurry Wall |                    |                       |                  | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation | Gradient<br>Flow | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.27                 | <i>inward</i>    | GW-1                                                | 38.68              | 29.28                    |
| P-2                               | 42.32              | 28.49                 | <i>inward</i>    | GW-2                                                | 40.92              | 30.02                    |
| P-3 *                             | 42.32              | 27.95                 | <i>inward</i>    | GW-3                                                | 39.40              | 30.49                    |
| P-4 *                             | 42.32              | 23.97                 | <i>inward</i>    | GW-4                                                | 40.53              | 30.83                    |
| P-5 *                             | 42.32              | 22.90                 | <i>inward</i>    | GW-5                                                | 39.90              | 29.15                    |
| P-6 *                             | 42.32              | 20.46                 | <i>inward</i>    | GW-6                                                | 38.95              | 28.29                    |
| P-7*                              | 42.32              | 20.64                 | <i>inward</i>    | GW-7                                                | 39.49              | 26.13                    |
| P-8                               | 40.21              | 18.62                 | <i>inward</i>    | GW-8                                                | 39.75              | 25.45                    |
| P-9                               | 39.97              | 19.54                 | <i>inward</i>    | GW-9                                                | 39.65              | 26.05                    |
| P-10                              | 39.86              | 19.32                 | <i>inward</i>    | GW-10                                               | 38.34              | 25.80                    |
| P-11**                            | 40.57              | 23.07                 | <i>inward</i>    | GW-11 **                                            | 39.02              | 30.00                    |
| P-12                              | 43.28              | 29.29                 | <i>inward</i>    | GW-12                                               | 42.09              | 29.67                    |
| P-13                              | 44.78              | 30.17                 | <i>inward</i>    | GW-13                                               | 44.79              | 31.97                    |
| P-14                              | 45.09              | 29.90                 | <i>inward</i>    | GW-14                                               | 39.63              | 33.59                    |
| P-15                              | 45.57              | 30.97                 | <i>inward</i>    | GW-15                                               | 42.33              | 35.19                    |
| P-16                              | 44.67              | 31.18                 | <i>inward</i>    | GW-16                                               | 44.41              | 34.41                    |
| P-17                              | 44.28              | 29.94                 | <i>inward</i>    | GW-17                                               | 42.19              | 32.81                    |

Comments:

\* Piezometers P-3, P-4, P-5, P-6 and P-7 were installed but not surveyed. Riser elevations estimated based on P-2.

\*\* P-11 and GW-11 were installed, but not surveyed. Riser elevations were estimated based on dike elevations.

**Date Data Collected: May 11, 2006**

Form Revised December 6, 2004

**FIGURE L-7**

Manatee County Lena Road Landfill

# **Monthly Groundwater Gradient Report**

**Month and Year: June 2006**

| Piezometers<br>Inside Slurry Wall |                    |                       |                  | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation | Gradient<br>Flow | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.23                 | <i>inward</i>    | GW-1                                                | 38.68              | 30.61                    |
| P-2                               | 42.32              | 28.26                 | <i>inward</i>    | GW-2                                                | 40.92              | 30.19                    |
| P-3                               | 40.36              | 27.67                 | <i>inward</i>    | GW-3                                                | 39.40              | 32.23                    |
| P-4                               | 40.78              | 22.56                 | <i>inward</i>    | GW-4                                                | 40.53              | 33.01                    |
| P-5                               | 40.73              | 21.42                 | <i>inward</i>    | GW-5                                                | 39.90              | 31.24                    |
| P-6                               | 40.74              | 19.99                 | <i>inward</i>    | GW-6                                                | 38.95              | 31.04                    |
| P-7                               | 40.60              | 19.03                 | <i>inward</i>    | GW-7                                                | 39.49              | 29.36                    |
| P-8                               | 40.21              | 18.74                 | <i>inward</i>    | GW-8                                                | 39.75              | 29.57                    |
| P-9                               | 39.97              | 19.82                 | <i>inward</i>    | GW-9                                                | 39.65              | 28.91                    |
| P-10                              | 39.86              | 19.42                 | <i>inward</i>    | GW-10                                               | 38.34              | 30.12                    |
| P-11                              | 40.52              | 22.95                 | <i>inward</i>    | GW-11                                               | 38.26              | 31.05                    |
| P-12                              | 43.28              | 29.34                 | <i>inward</i>    | GW-12                                               | 42.09              | 31.61                    |
| P-13                              | 44.78              | 30.24                 | <i>inward</i>    | GW-13                                               | 44.79              | 32.92                    |
| P-14                              | 45.09              | 29.84                 | <i>inward</i>    | GW-14                                               | 39.63              | 34.54                    |
| P-15                              | 45.57              | 30.90                 | <i>inward</i>    | GW-15                                               | 42.33              | 35.46                    |
| P-16                              | 44.67              | 31.01                 | <i>inward</i>    | GW-16                                               | 44.41              | 34.11                    |
| P-17                              | 44.28              | 29.85                 | <i>inward</i>    | GW-17                                               | 42.19              | 34.19                    |

Comments:

Date Data Collected: June 15, 2006

Form Revised December 6, 2004



FIGURE L-7

Manatee County Lena Road Landfill

# Monthly Groundwater Gradient Report

Month and Year: July 2006

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.34                 | inward           | GW-1                                                | 38.68              | 31.33                    |
| P-2                               | 42.32              | 28.49                 | inward           | GW-2                                                | 40.92              | 31.20                    |
| P-3                               | 40.36              | 28.02                 | inward           | GW-3                                                | 39.40              | 33.22                    |
| P-4                               | 40.78              | 22.52                 | inward           | GW-4                                                | 40.53              | 32.85                    |
| P-5                               | 40.73              | 21.32                 | inward           | GW-5                                                | 39.90              | 31.68                    |
| P-6                               | 40.74              | 20.00                 | inward           | GW-6                                                | 38.95              | 31.03                    |
| P-7                               | 40.60              | 19.03                 | inward           | GW-7                                                | 39.49              | 30.22                    |
| P-8                               | 40.21              | 18.77                 | inward           | GW-8                                                | 39.75              | 29.79                    |
| P-9                               | 39.97              | 19.49                 | inward           | GW-9                                                | 39.65              | 28.79                    |
| P-10                              | 39.86              | 19.36                 | inward           | GW-10                                               | 38.34              | 29.96                    |
| P-11                              | 40.52              | 22.90                 | inward           | GW-11                                               | 38.26              | 31.30                    |
| P-12                              | 43.28              | 29.38                 | inward           | GW-12                                               | 42.09              | 31.75                    |
| P-13                              | 44.78              | 30.22                 | inward           | GW-13                                               | 44.79              | 33.46                    |
| P-14                              | 45.09              | 29.78                 | inward           | GW-14                                               | 39.63              | 34.14                    |
| P-15                              | 45.57              | 30.89                 | inward           | GW-15                                               | 42.33              | 35.13                    |
| P-16                              | 44.67              | 31.18                 | inward           | GW-16                                               | 44.41              | 34.47                    |
| P-17                              | 44.28              | 29.91                 | inward           | GW-17                                               | 42.19              | 34.11                    |

Comments:

Date Data Collected: July 18, 2006

Form Revised December 6, 2004

FIGURE L-7

Manatee County Lena Road Landfill

## Monthly Groundwater Gradient Report

Month and Year: August 2006

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.44                 | <i>inward</i>    | GW-1                                                | 38.68              | 33.50                    |
| P-2                               | 42.32              | 28.53                 | <i>inward</i>    | GW-2                                                | 40.92              | 33.28                    |
| P-3                               | 40.36              | 28.18                 | <i>inward</i>    | GW-3                                                | 39.40              | 35.38                    |
| P-4                               | 40.78              | 22.67                 | <i>inward</i>    | GW-4                                                | 40.53              | 33.89                    |
| P-5                               | 40.73              | 21.46                 | <i>inward</i>    | GW-5                                                | 39.90              | 33.05                    |
| P-6                               | 40.74              | 20.07                 | <i>inward</i>    | GW-6                                                | 38.95              | 32.41                    |
| P-7                               | 40.60              | 19.11                 | <i>inward</i>    | GW-7                                                | 39.49              | 31.46                    |
| P-8                               | 40.21              | 18.89                 | <i>inward</i>    | GW-8                                                | 39.75              | 30.41                    |
| P-9                               | 39.97              | 19.65                 | <i>inward</i>    | GW-9                                                | 39.65              | 29.95                    |
| P-10                              | 39.86              | 19.38                 | <i>inward</i>    | GW-10                                               | 38.34              | 30.81                    |
| P-11                              | 40.52              | 22.93                 | <i>inward</i>    | GW-11                                               | 38.26              | 32.07                    |
| P-12                              | 43.28              | 29.42                 | <i>inward</i>    | GW-12                                               | 42.09              | 32.44                    |
| P-13                              | 44.78              | 30.21                 | <i>inward</i>    | GW-13                                               | 44.79              | 33.74                    |
| P-14                              | 45.09              | 29.81                 | <i>inward</i>    | GW-14                                               | 39.63              | 34.85                    |
| P-15                              | 45.57              | 30.92                 | <i>inward</i>    | GW-15                                               | 42.33              | 35.81                    |
| P-16                              | 44.67              | 30.97                 | <i>inward</i>    | GW-16                                               | 44.41              | 35.96                    |
| P-17                              | 44.28              | 29.92                 | <i>inward</i>    | GW-17                                               | 42.19              | 35.23                    |

Comments:

Date Data Collected: August 22, 2006

Form Revised December 6, 2004

**FIGURE L-7**

Manatee County Lena Road Landfill

# **Monthly Groundwater Gradient Report**

**Month and Year: September 2006**

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.70                 | <i>inward</i>    | GW-1                                                | 38.68              | 30.43                    |
| P-2                               | 42.32              | 28.81                 | <i>inward</i>    | GW-2                                                | 40.92              | 30.37                    |
| P-3                               | 40.36              | 28.15                 | <i>inward</i>    | GW-3                                                | 39.40              | 35.25                    |
| P-4                               | 40.78              | 22.75                 | <i>inward</i>    | GW-4                                                | 40.53              | 33.94                    |
| P-5                               | 40.73              | 21.70                 | <i>inward</i>    | GW-5                                                | 39.90              | 33.03                    |
| P-6                               | 40.74              | 20.19                 | <i>inward</i>    | GW-6                                                | 38.95              | 32.39                    |
| P-7                               | 40.60              | 19.45                 | <i>inward</i>    | GW-7                                                | 39.49              | 30.59                    |
| P-8                               | 40.21              | 19.56                 | <i>inward</i>    | GW-8                                                | 39.75              | 28.93                    |
| P-9                               | 39.97              | 20.35                 | <i>inward</i>    | GW-9                                                | 39.65              | 29.50                    |
| P-10                              | 39.86              | 19.74                 | <i>inward</i>    | GW-10                                               | 38.34              | 30.15                    |
| P-11                              | 40.52              | 23.01                 | <i>inward</i>    | GW-11                                               | 38.26              | 31.98                    |
| P-12                              | 43.28              | 29.60                 | <i>inward</i>    | GW-12                                               | 42.09              | 31.66                    |
| P-13                              | 44.78              | 30.36                 | <i>inward</i>    | GW-13                                               | 44.79              | 33.60                    |
| P-14                              | 45.09              | 30.30                 | <i>inward</i>    | GW-14                                               | 39.63              | 34.72                    |
| P-15                              | 45.57              | 31.02                 | <i>inward</i>    | GW-15                                               | 42.33              | 35.14                    |
| P-16                              | 44.67              | 31.09                 | <i>inward</i>    | GW-16                                               | 44.41              | 36.62                    |
| P-17                              | 44.28              | 29.94                 | <i>inward</i>    | GW-17                                               | 42.19              | 35.52                    |

Comments:

Date Data Collected: September 19, 2006

Form Revised December 6, 2004

**FIGURE L-7**

Manatee County Lena Road Landfill

# **Monthly Groundwater Gradient Report**

**Month and Year: October 2006**

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.54                 | inward           | GW-1                                                | 38.68              | 31.10                    |
| P-2                               | 42.32              | 28.55                 | inward           | GW-2                                                | 40.92              | 31.11                    |
| P-3                               | 40.36              | 27.94                 | inward           | GW-3                                                | 39.40              | 32.83                    |
| P-4                               | 40.78              | 22.41                 | inward           | GW-4                                                | 40.53              | 31.94                    |
| P-5                               | 40.73              | 21.21                 | inward           | GW-5                                                | 39.90              | 31.57                    |
| P-6                               | 40.74              | 19.85                 | inward           | GW-6                                                | 38.95              | 30.73                    |
| P-7                               | 40.60              | 18.91                 | inward           | GW-7                                                | 39.49              | 28.70                    |
| P-8                               | 40.21              | 18.70                 | inward           | GW-8                                                | 39.75              | 27.69                    |
| P-9                               | 39.97              | 19.42                 | inward           | GW-9                                                | 39.65              | 28.27                    |
| P-10                              | 39.86              | 19.25                 | inward           | GW-10                                               | 38.34              | 28.71                    |
| P-11                              | 40.52              | 22.84                 | inward           | GW-11                                               | 38.26              | 30.55                    |
| P-12                              | 43.28              | 29.39                 | inward           | GW-12                                               | 42.09              | 30.89                    |
| P-13                              | 44.78              | 30.24                 | inward           | GW-13                                               | 44.79              | 32.13                    |
| P-14                              | 45.09              | 29.76                 | inward           | GW-14                                               | 39.63              | 33.98                    |
| P-15                              | 45.57              | 30.92                 | inward           | GW-15                                               | 42.33              | 35.25                    |
| P-16                              | 44.67              | 30.93                 | inward           | GW-16                                               | 44.41              | 36.24                    |
| P-17                              | 44.28              | 29.89                 | inward           | GW-17                                               | 42.19              | 33.65                    |

Comments:

Date Data Collected: October 12, 2006

Form Revised December 6, 2004

FIGURE L-7

Manatee County Lena Road Landfill

# Monthly Groundwater Gradient Report

Month and Year: November 2006

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.47                 | inward           | GW-1                                                | 38.68              | 30.44                    |
| P-2                               | 42.32              | 28.58                 | inward           | GW-2                                                | 40.92              | 30.43                    |
| P-3                               | 40.36              | 27.50                 | inward           | GW-3                                                | 39.40              | 32.19                    |
| P-4                               | 40.78              | 22.91                 | inward           | GW-4                                                | 40.53              | 31.56                    |
| P-5                               | 40.73              | 22.48                 | inward           | GW-5                                                | 39.90              | 31.01                    |
| P-6                               | 40.74              | 22.35                 | inward           | GW-6                                                | 38.95              | 30.29                    |
| P-7                               | 40.60              | 22.09                 | inward           | GW-7                                                | 39.49              | 28.20                    |
| P-8                               | 40.21              | 22.13                 | inward           | GW-8                                                | 39.75              | 27.30                    |
| P-9                               | 39.97              | 21.62                 | inward           | GW-9                                                | 39.65              | 26.83                    |
| P-10                              | 39.86              | 21.37                 | inward           | GW-10                                               | 38.34              | 26.87                    |
| P-11                              | 40.52              | 23.06                 | inward           | GW-11                                               | 38.26              | 30.17                    |
| P-12                              | 43.28              | 29.47                 | inward           | GW-12                                               | 42.09              | 30.76                    |
| P-13                              | 44.78              | 30.38                 | inward           | GW-13                                               | 44.79              | 32.27                    |
| P-14                              | 45.09              | 29.83                 | inward           | GW-14                                               | 39.63              | 34.04                    |
| P-15                              | 45.57              | 30.94                 | inward           | GW-15                                               | 42.33              | 35.24                    |
| P-16                              | 44.67              | 30.99                 | inward           | GW-16                                               | 44.41              | 35.68                    |
| P-17                              | 44.28              | 29.97                 | inward           | GW-17                                               | 42.19              | 33.52                    |

Comments:

Date Data Collected: November 9, 2006

Form Revised December 6, 2004

FIGURE L-7

Manatee County Lena Road Landfill

## Monthly Groundwater Gradient Report

Month and Year: December 2006

| Piezometers<br>Inside Slurry Wall |                    |                       | Gradient<br>Flow | Groundwater Monitoring Wells<br>Outside Slurry Wall |                    |                          |
|-----------------------------------|--------------------|-----------------------|------------------|-----------------------------------------------------|--------------------|--------------------------|
| Piezometer                        | Riser<br>Elevation | Leachate<br>Elevation |                  | Monitoring<br>Well                                  | Riser<br>Elevation | Groundwater<br>Elevation |
| P-1                               | 42.68              | 29.41                 | inward           | GW-1                                                | 38.68              | 30.03                    |
| P-2                               | 42.32              | 28.50                 | inward           | GW-2                                                | 40.92              | 29.98                    |
| P-3                               | 40.36              | 26.13                 | inward           | GW-3                                                | 39.40              | 31.30                    |
| P-4                               | 40.78              | 22.19                 | inward           | GW-4                                                | 40.53              | 30.70                    |
| P-5                               | 40.73              | 21.11                 | inward           | GW-5                                                | 39.90              | 30.15                    |
| P-6                               | 40.74              | 19.85                 | inward           | GW-6                                                | 38.95              | 29.33                    |
| P-7                               | 40.60              | 18.92                 | inward           | GW-7                                                | 39.49              | 27.26                    |
| P-8                               | 40.21              | 18.62                 | inward           | GW-8                                                | 39.75              | 26.26                    |
| P-9                               | 39.97              | 19.54                 | inward           | GW-9                                                | 39.65              | 26.56                    |
| P-10                              | 39.86              | 19.37                 | inward           | GW-10                                               | 38.34              | 26.57                    |
| P-11                              | 40.52              | 22.80                 | inward           | GW-11                                               | 38.26              | 29.57                    |
| P-12                              | 43.28              | 29.45                 | inward           | GW-12                                               | 42.09              | 29.50                    |
| P-13                              | 44.78              | 30.37                 | inward           | GW-13                                               | 44.79              | 32.22                    |
| P-14                              | 45.09              | 29.85                 | inward           | GW-14                                               | 39.63              | 34.03                    |
| P-15                              | 45.57              | 30.97                 | inward           | GW-15                                               | 42.33              | 35.33                    |
| P-16                              | 44.67              | 31.05                 | inward           | GW-16                                               | 44.41              | 35.10                    |
| P-17                              | 44.28              | 29.93                 | inward           | GW-17                                               | 42.19              | 33.46                    |

Comments:

Date Data Collected: December 20, 2006

Form Revised December 20, 2004