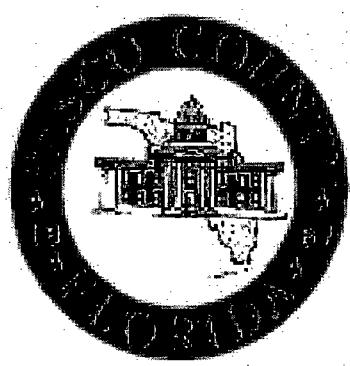


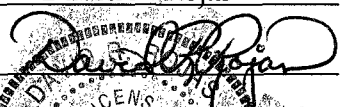
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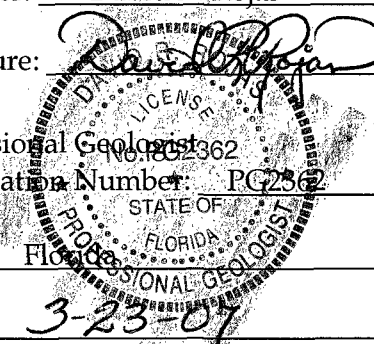
Department of Environmental Protection  
Water Quality Monitoring Plan Evaluation  
2005 - 2006  
West Pasco County Class I Landfill  
March 2007  
MAR 26 2007  
Southwest District



CERTIFICATION

I hereby certify that I have examined the site, and being familiar with the provisions of 62-701, F.A.C., attest that this evaluation has been prepared in accordance with good engineering practices.

Engineer: David R. Rojas  
Signature:   
Professional Geologist  
Registration Number: PG2362  
State: Florida  
Date: 3-23-07



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# Section 1

## Introduction

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### 1.1 Background

The West Pasco Class I Landfill is located in northwest Pasco County on Hays Road, approximately 2.5 miles north of State Road 52. The Class I Landfill is located adjacent to the Pasco County Resource Recovery facility and the West Pasco Class III Landfill. The Class I Landfill is permitted separately from the Class III Landfill. Although at build out the landfill will consist of 16 ten-acre cells, currently only four cells have been constructed, cells A-1, A-2, A-3 and SW-1. Cell SW-1 is used for the disposal of municipal solid waste (MSW) whenever the MSW cannot be combusted in the resource recovery facility. By-passed MSW is removed from the cell when capacity is available at the resource recovery facility. Cells A-1, A-2, and A-3 are used for the disposal of ash produced from the combustion of MSW at the adjacent resource recovery facility. Cells A-1 and A-2 have received intermediate closure and Cell A-3 is currently open.

Since May 1997, collected leachate has been treated on-site for the removal of total dissolved solids (TDS) prior to being pumped to the cooling towers at the adjacent resource recovery facility for disposal. The TDS, primarily sodium chloride, removed by evaporation from the leachate during the treatment process, are transported off-site for disposal at an approved landfill.

### 1.2 Water Quality Monitoring Plan

A revised water quality monitoring plan (WQMP) for the West Pasco County Class I Landfill was prepared by CDM as part of the documents associated with the application to construct disposal unit A-3. The revised WQMP was submitted to the Florida Department of Environmental Protection (FDEP) March 29, 2001. This plan was generated as a revision to the Water Quality Monitoring Plan for the Class I Landfill dated 1994 that was approved by the FDEP. The original plan was presented in Section 9.0 of a submittal entitled Engineering Report and Application to Construct Disposal Unit A-2, prepared by Law Environmental, revised January 5, 1995. The primary revisions to the original plan included the addition of new and proposed monitor wells and leachate collection systems. However, the water quality data collected at the Class I Landfill to date, and evaluated in this report, have been produced in association with the approved plan.

#### 1.2.1 Groundwater Sampling and Analysis

Groundwater samples are collected from all background, detection, and compliance monitor wells designated in the WQMP and any future monitor wells to be installed in association with the Class I landfill at this facility. At least one water sample is collected and analyzed from each background well installed. This sample is analyzed for the parameters listed in Chapter 62-701.510(8)a and Chapter 62-701.510(8)d, F.A.C.

Chapter 62-701.510 does not mandate the frequency and analytical requirements of subsequent groundwater samples collected from the background monitor wells. Any new monitor wells installed in association with the Class I landfill will also be analyzed for the parameters listed in Chapter 62-701.518(8)a and Chapter 62-701.510(8)d, F.A.C. for the initial sampling event. Groundwater samples from all of the detection and downgradient compliance wells designated in the WQMP and any future detection and downgradient compliance monitor wells to be installed in association with the Class I landfill at this facility are collected and analyzed on a semi-annual basis. These samples are analyzed for the parameters listed in Chapter 62-701.510(8)a.

The approved plan consists of periodic monitoring of seven surficial aquifer wells (2MW-1, 2MW-2, 2MW-4, 2MW-5, 2MW-6, 2MW-13D, and 2MW-17S) and fourteen Floridan Aquifer wells (4MW-1, 4MW-2, 4MW-4, 4MW-5, 4MW-6, 4MW-11D, 4MW-12D, 4MW-13D, 4MW-14D, 4MW-15AD, 4MW-16D, 2MW-18D, 2MW-19D, and 2MW-20D) which are identified in Figure 1-1.

### 1.2.2 Leachate Sampling and Analysis

Currently, two separate leachate samples are collected and analyzed from the leachate collection system. One of these samples is collected from a lift station receiving leachate from both the primary and secondary leachate collection systems of solid waste cells SW-1 and SW-2. The other sample is collected from a lift station receiving leachate from both the primary and secondary leachate collection systems of disposal cells A-1, A-2, and A-3. These samples are collected by lowering a decontaminated Teflon bailer into the manhole of each of the new lift stations. The leachate samples have historically been, and will continue to be sampled semi-annually and analyzed for the parameters listed in Chapter 62-701.510(8)c. In addition, annually the leachate samples are analyzed for the parameters listed in Chapter 62-701.510(8)d.

### 1.2.3 Surface Water Sampling and Analysis

There are no surface water discharges or sample monitoring locations designated in association with the facility. However, in the event that a discharge to surface water from the facility should occur, at least one sample will be collected at the point of discharge from the property.

If the discharge is into a flowing body of water located outside the boundary of the facility, a sufficient number of upgradient and downgradient sample locations will be used to allow the effect of the discharge from the landfill to be measured. These samples will be analyzed for the parameters listed in Chapter 62-701.510(8)b.

The revised water quality monitoring plan includes an evaluation of the adequacy of the water quality monitoring frequency and sampling locations; and provides an evaluation of groundwater flow rates. Therefore, discussions regarding these aspects of the water quality monitoring plan are not repeated in this report.

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## Section 2

# Groundwater Quality and Level Data

### 2.1 Data Tabulation

The last groundwater monitoring plan review for the Class I Landfill, which was submitted to FDEP in March 2005, evaluated data collected from 2003 and 2004. Tables 2-1 through 2-20 present the results of routine (bi-annual) monitoring conducted during the 2005 -2006 reporting period on the wells identified in the water quality monitoring plan. The routine sampling events conducted during the 2005 - 2006 reporting period were conducted in the first quarter of 2005, third quarter of 2005, first quarter of 2006, and the third quarter of 2006. Water level measurements and water quality data are available from all or part of the reporting period for all the Floridan Aquifer monitor wells and four of the seven surficial aquifer monitor wells. Three of the surficial aquifer monitor wells (2MW-4, 2MW-5, and 2MW-13) were dry throughout the entire 2005 -2006 reporting period. Therefore, no water level measurements or water quality data are available for these three surficial aquifer monitor wells throughout the 2005 - 2006 monitoring period.

### 2.2 Sampling Activities and Laboratory Analyses

The Pasco County Environmental Laboratory conducts the required groundwater and leachate sampling and analysis for the West Pasco County Landfill as established in the facility's Water Quality Monitoring Plan (WQMP). All fieldwork and laboratory work done in connection with the WQMP is conducted in accordance with the Standard Operating Procedures (SOPs) referenced in Chapter 62-160, F.A.C., or in accordance with procedures and methods approved by the Florida Department of Health. Chemical analyses that are not performed at the county laboratory are contracted out under an agreement with other state-approved laboratories.

### 2.3 Graphical Presentations

Figures 2-1 through 2-54 present graphical trends of data for which a monitoring parameter was measured or detected during the 2005 – 2006 reporting period. Each figure presents the detected concentrations of a particular parameter for either the designated detection monitor wells or the compliance/background monitor wells. Graphical presentations were only generated for one of the volatile organic contaminant (VOC) parameters analyzed, benzene. Although several other VOC parameters were detected during the reporting period, only benzene was detected at concentrations exceeding the established groundwater cleanup target level (GCTL). Due to the inability to collect data from the three surficial aquifer monitor wells that were consistently dry throughout the reporting period, no laboratory or field data was graphically presented for these wells.

## 2.4 Groundwater Quality Interpretation

The groundwater quality results of the sampling activities performed during the 2005 – 2006 reporting period were compared to established criteria including Maximum Contaminant Levels, Secondary Drinking Water Standards, and Groundwater Cleanup Target Levels. Each exceedance of these criteria is summarized and evaluated in the following subsections.

### 2.4.1 Exceedance of Maximum Contaminant Levels

Maximum contaminant levels (MCLs) for various inorganic compounds are established in Table 1 of Chapter 62-550 of the Florida Administrative Code (F.A.C.). The MCLs for one parameter was exceeded in groundwater monitoring wells sampled at the West Pasco Class I Landfill during the 2005 – 2006 reporting period. This parameter was:

- Nitrate - detected above 10 mg/L in two wells; 2MW-2 and 2MW-17.

Nitrate was detected only slightly above 10 mg/L in monitor wells 2MW-2 (11.3 mg/L) and 2MW-17 (11.2 mg/L) during third quarter of 2005. The concentrations of nitrate detected in these two surficial aquifer monitor wells during the previous sampling event (in the first quarter of 2005) and the following two sampling events (in 2006) were below 10 mg/L. Monitor well 2MW-2 is a background monitor well located in the southeast portion of the site, upgradient of the A-1, A-2, and A-3 ash cells. Monitor well 2MW-17 is a detection well located north of the solid waste cell SW-1.

### 2.4.2 Exceedance of Secondary Drinking Water Standards

Secondary drinking water standards (SDWSs) for various contaminants are established in Table 4 of Chapter 62-550 F.A.C. The SDWSs for three parameters were exceeded in groundwater monitoring wells sampled at the West Pasco Class I Landfill during the 2005 - 2006 reporting period. These parameters were:

- pH - detected outside the range of 6.5 – 8.5 s.u. in all four of the shallow monitor wells that were sampled; 2MW-1, 2MW-2, 2MW-6, and 2MW-17;
- TDS - detected above 500 mg/L in three wells: 4MW-1, 4MW-5, and 2MW-6; and
- Iron - detected above 0.3 mg/L in two wells: 2MW-1 and 4MW-4.

Of these detections that exceeded the SDWSs during the 2005 – 2006 reporting period, two of the three parameters detected at concentrations exceeding or outside the established range of their SDWSs were detected more than once in at least one well. However, iron was only detected in one of the sampling events during the 2005 – 2006 reporting period in the two wells where it was detected above the established SDWS. The concentration of iron detected in both of the wells during subsequent sampling events was below the SDWS.

In all of the groundwater samples collected from the shallow monitor wells, pH was detected below 6.5 s.u. The pH remained relatively consistent throughout the reporting period for each of the shallow monitor wells except 2MW-2. Although the pH of the groundwater collected from background monitor well 2MW-2 increased from 5.08 s.u. during the 1<sup>st</sup> quarter of 2006 to 5.98 s.u. during the 3<sup>rd</sup> quarter of 2006, this increase does not appear to warrant cause for concern. The low pH concentrations observed in the shallow monitor wells are not considered abnormal for the surficial aquifer.

TDS was detected above 500 mg/L in groundwater from monitor well 4MW-1 on all four sampling occasions, but in groundwater from monitor wells 4MW-5 and 2MW-6 only during the 3<sup>rd</sup> quarter 2005 sampling event. The exceedance of the SDWS for TDS in the Florida Aquifer monitoring well 4MW-1, located upgradient of the Class I landfill, is associated with a known contaminant plume, the source of which is not associated with the Class I landfill. However, the TDS concentrations detected in 4MW-1 have shown a decreasing trend over the 2005 – 2006 monitoring period. There is also a direct relationship between the concentrations of TDS detected and both the measured conductivity and chlorides of the groundwater collected from monitor well 4MW-1 over the monitoring period.

### 2.4.3 Exceedance of Groundwater Cleanup Target Levels

Groundwater Cleanup Target Levels (GCTLs) for various contaminants are established in Table 1 of Chapter 62-777 F.A.C. The GCTLs for two parameters were exceeded in groundwater monitoring wells sampled at the West Pasco Class I Landfill during the 2005 - 2006 reporting period. These parameters were:

- Ammonia - detected above 2.8 mg/L in the downgradient compliance well 4MW-5; and
- Benzene - detected above 1.0 ug/L in two wells: 2MW-1 and 2MW-6.

The exceedance of the GCTL for ammonia occurred in the Florida Aquifer monitoring well 4MW-5. Ammonia was detected at 6.86 mg/L during the 3<sup>rd</sup> quarter of 2006. The concentrations of ammonia detected in this well during the three previous sampling events of the 2005 – 2006 reporting period were all below 0.13 mg/L. Therefore, the concentration detected during the 3<sup>rd</sup> quarter of 2006 is a significant increase and may represent either an analytical error or a developing condition that may warrant further attention and evaluation. However, the absence of elevated concentrations of ammonia in the detection wells located between the landfill cells and monitor well 4MW-5 suggests that the landfill cells are not the source of the elevated concentration detected in 4MW-5.

Benzene was detected above 1.0 ug/L in groundwater from the surficial aquifer background monitor wells 2MW-1 and 2MW-6 during the 3<sup>rd</sup> quarter of 2005. The results of resampling activities performed on the two wells in December 2005

indicated that although benzene was still detected, it was below the GCTL in both wells. Groundwater samples were not collected from these two wells during the subsequent sampling events performed in 2006 because both wells were dry. The benzene in the surficial aquifer background monitor well 2MW-1, located upgradient of the Class I landfill, is associated with a known contaminant plume, the source of which is not associated with the Class I landfill. Although the source of the benzene detected in 2MW-6 has not been identified, the fact that this well is located on the east side of the site, upgradient of the solid waste cells, would suggest that the source is not associated with the Class I landfill.

## 2.5 Groundwater Level Interpretation

Water level measurements were collected during the sampling events conducted during the 2005 – 2006 reporting period. These measurements are presented in Tables 2-1 through 2-20 and groundwater elevation maps generated using these measurements are presented as **Figures 2-55 through 2-62**. The water level data collected at each well is presented as feet above the National Geodetic Vertical Datum (NGVD) in the tables and figures associated with this evaluation. Water level measurements were collected at all of the Floridan Aquifer wells and the surficial aquifer wells 2MW-1, 2MW-2, 2MW-6, and 2MW-17. No water level measurements are available for the other three surficial aquifer wells (2MW-4, 2MW-5, and 2MW-13) because these wells were consistently dry throughout the 2005 – 2006 reporting period.

The groundwater elevation maps of the Floridan Aquifer and the surficial aquifer at the West Pasco County Landfill indicate the groundwater flow direction in both aquifers to be to the northwest. This conforms to the regional interpretation of groundwater flow. Based on the relatively consistent spacing of the contours in the groundwater elevation maps generated for the previous groundwater elevation interpretations, the hydraulic gradient ( $i$ ) in both the Floridan Aquifer and the surficial aquifer appear to be approximately the same as previously calculated, (approximately 1.5 feet per 1,000 feet or  $1.5 \times 10^{-3}$  feet/foot). Based on the results of pumping tests performed in 2001 on two Floridan Aquifer wells at the site, a conservative hydraulic conductivity ( $K$ ) value of 9.0 feet per day was calculated. Combining these values with the assumption that the effective porosity ( $n$ ) of the Floridan Aquifer is 15% and using the equation  $V = Ki/n$ , the groundwater flow velocity ( $V$ ) in the Floridan Aquifer is approximately 0.1 feet per day or just over 16 feet per 6 months. Although local hydraulic conductivity values have not been determined for the surficial aquifer at the site, it is assumed that they would be significantly lower than the hydraulic conductivity value generated for the Floridan Aquifer. Therefore, the groundwater flow velocity in the surficial aquifer would be expected to be significantly lower than the flow velocity calculated for the Floridan Aquifer.

Hydrographs comparing the water level measurements of each of the monitor wells are provided as Figures 2-25 and 2-26. The hydrographs reveal a general decline of

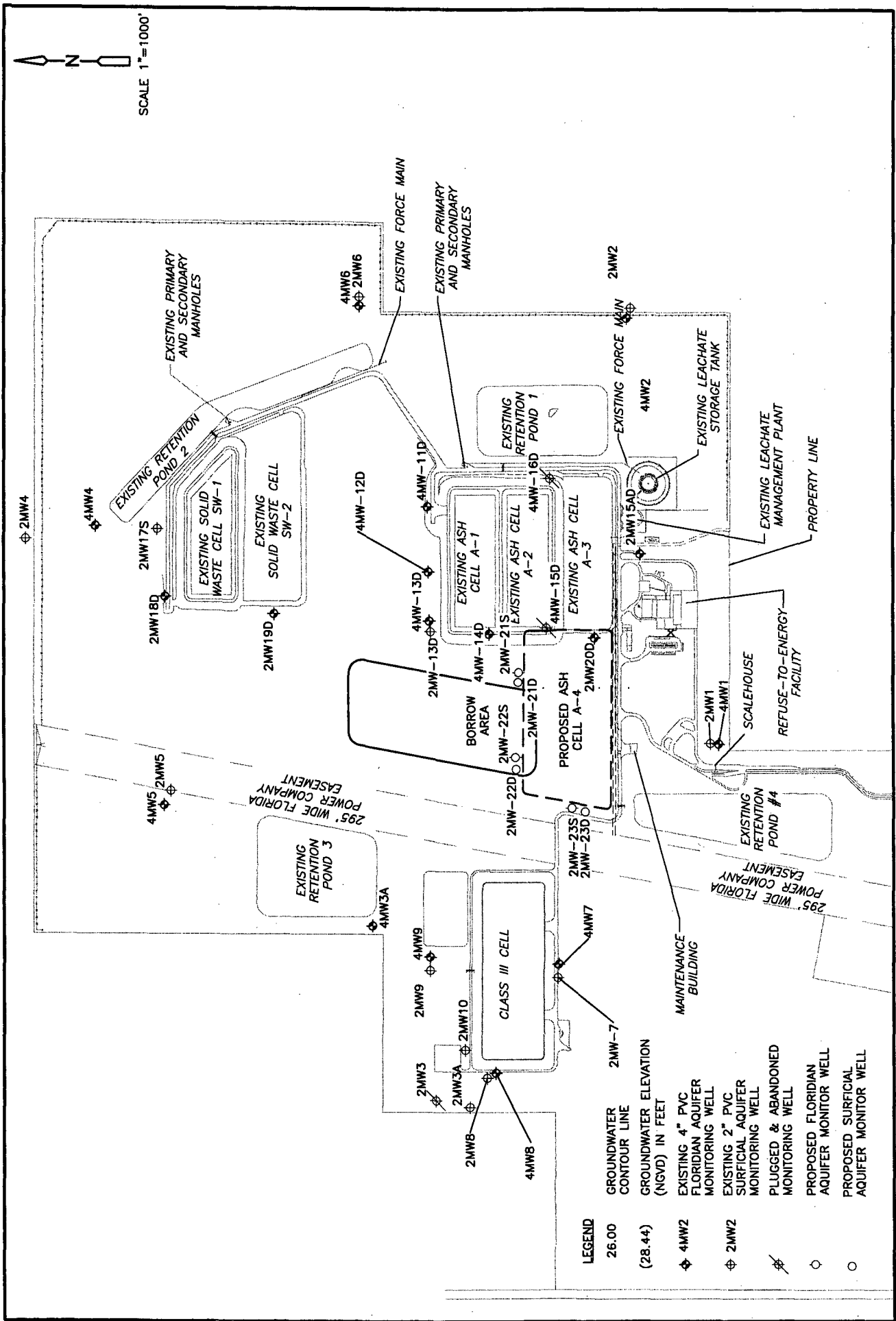
the piezometric surface of the Floridan Aquifer and the water table of the surficial aquifer over the monitoring period from 2005 to 2006. This trend is probably related to the compounding impact of the drought conditions that were present during this period.

## 2.6 Groundwater Monitoring Plan Review

As noted, three shallow monitor wells (2MW-4, 2MW-5, and 2MW-13) are included in the WQMP; however, these wells have been dry since 1995. As such, it appears that these wells do not provide useful groundwater quality data for the implementation of this plan. Nevertheless, monitoring of these wells should continue, and in the event the water levels in the wells increase, sampling of the wells will be reinstated.

Based on the groundwater quality data collected at the landfill during this monitoring period, the current Groundwater Monitoring Plan appears adequate. However, several wells should be carefully monitored to evaluate anomalously elevated concentrations of particular parameters detected during the 2005 – 2006 reporting period. These include ammonia in 4MW-5 and benzene in 2MW-1 and 2MW-6.

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West Pasco Landfill And  
Resource Recovery Facility  
Pasco County Board Of County Commissioners  
Utilities Services Branch, Pasco County, Florida

Figure - 1-1  
Monitor Wells at the West  
Pasco County Landfill



Figure 2-1: Detection Wells - Conductivity

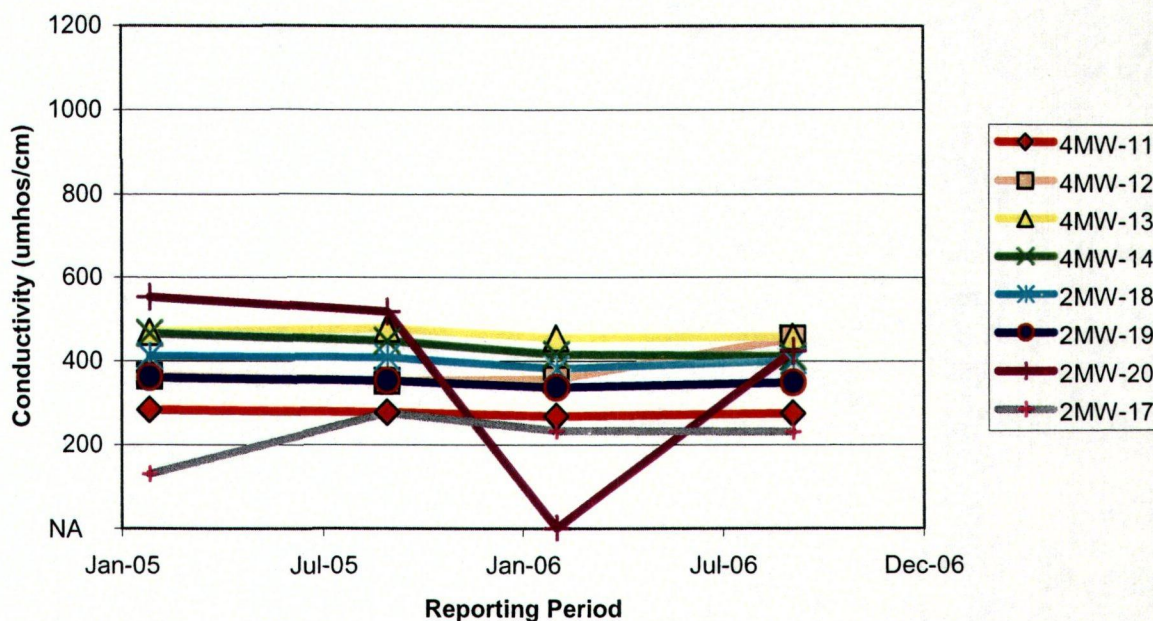
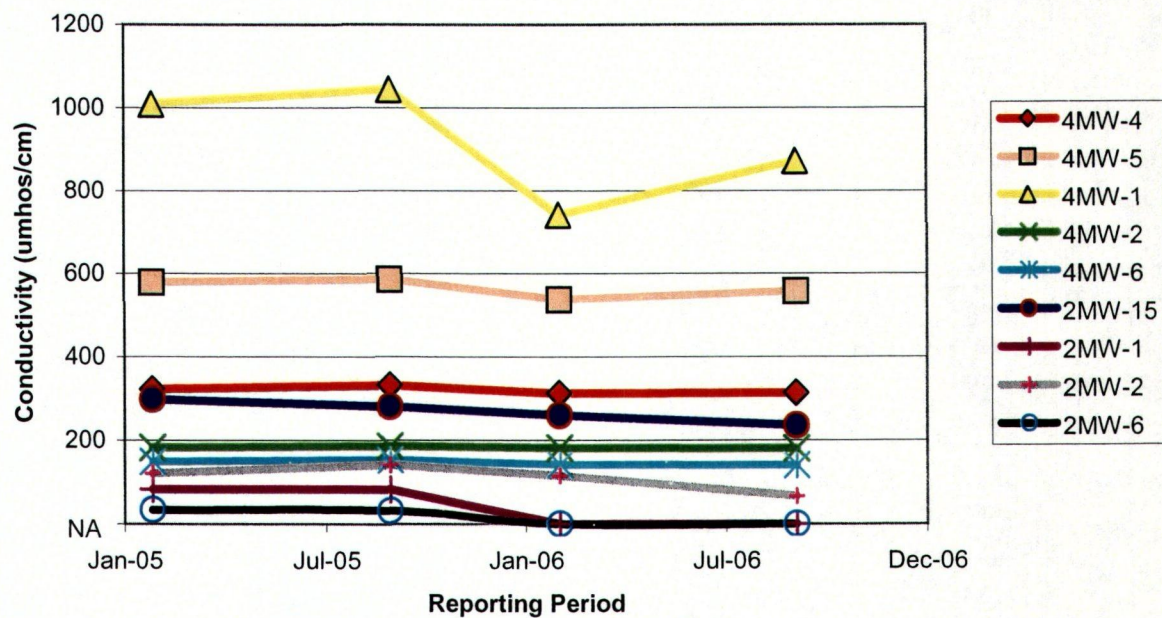


Figure 2-2: Downgradient & Background Wells - Conductivity



Notes: 1. NA represents "Not Analyzed" due to dry well conditions

Figure 2-3: Detection Wells - pH

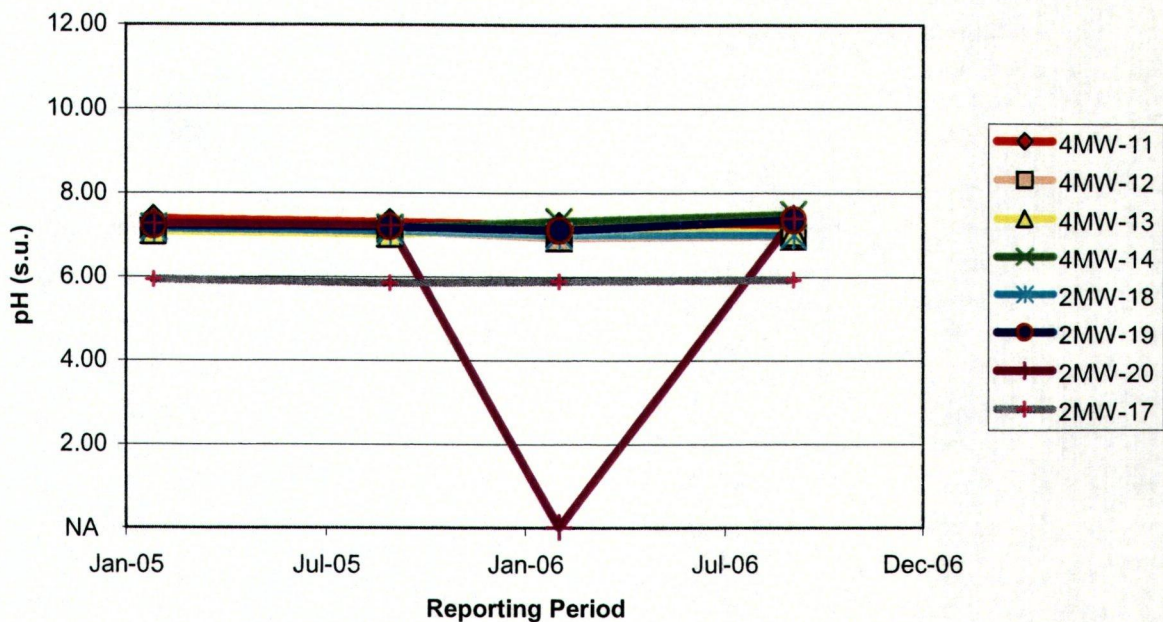
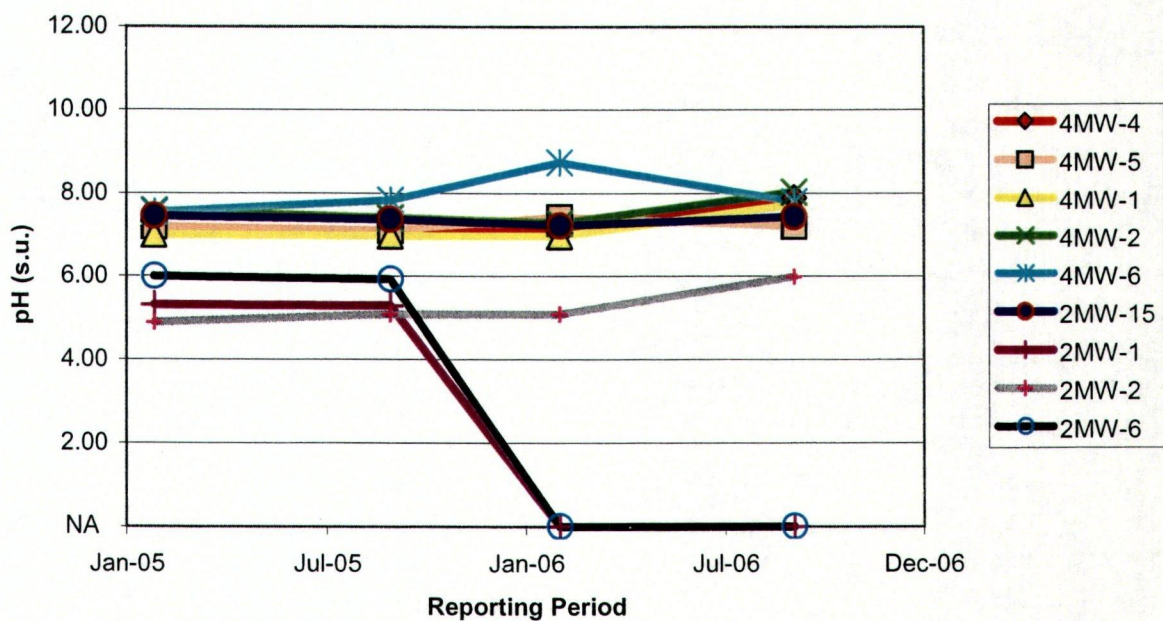
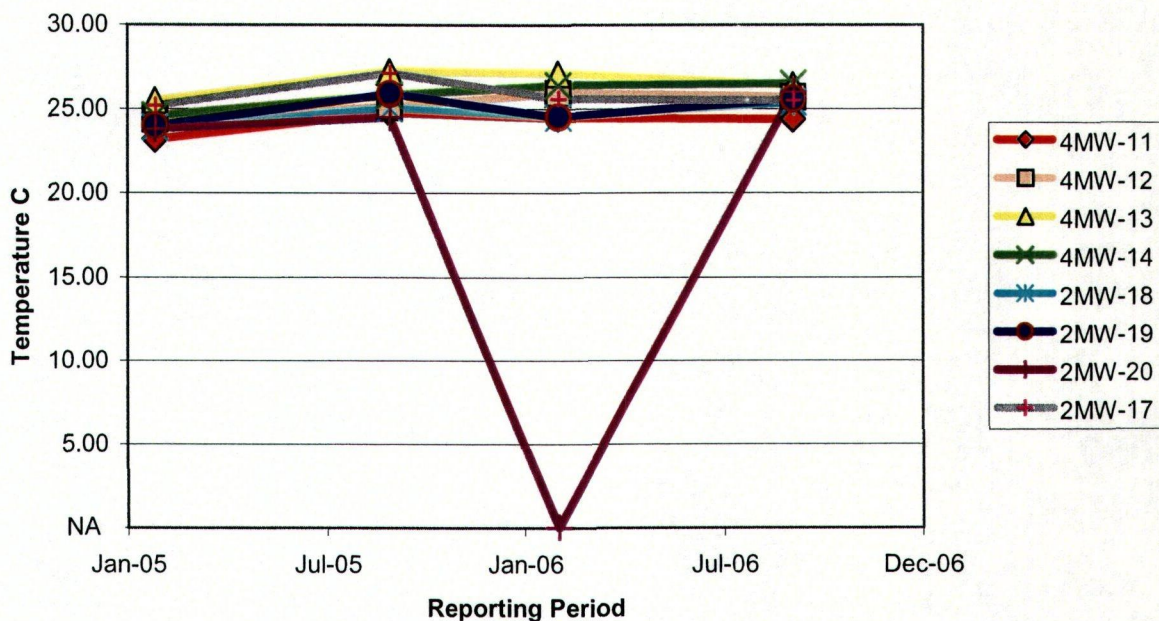


Figure 2-4: Downgradient & Background Wells - pH

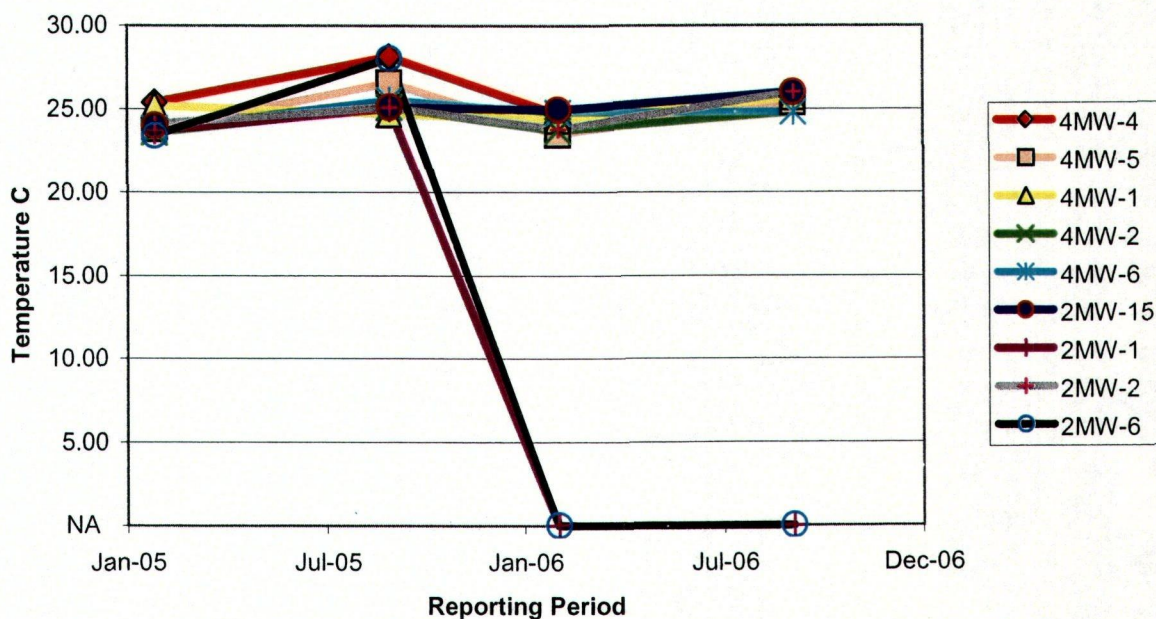


Notes: 1. NA represents "Not Analyzed" due to dry well conditions

**Figure 2-5: Detection Wells - Temperature**

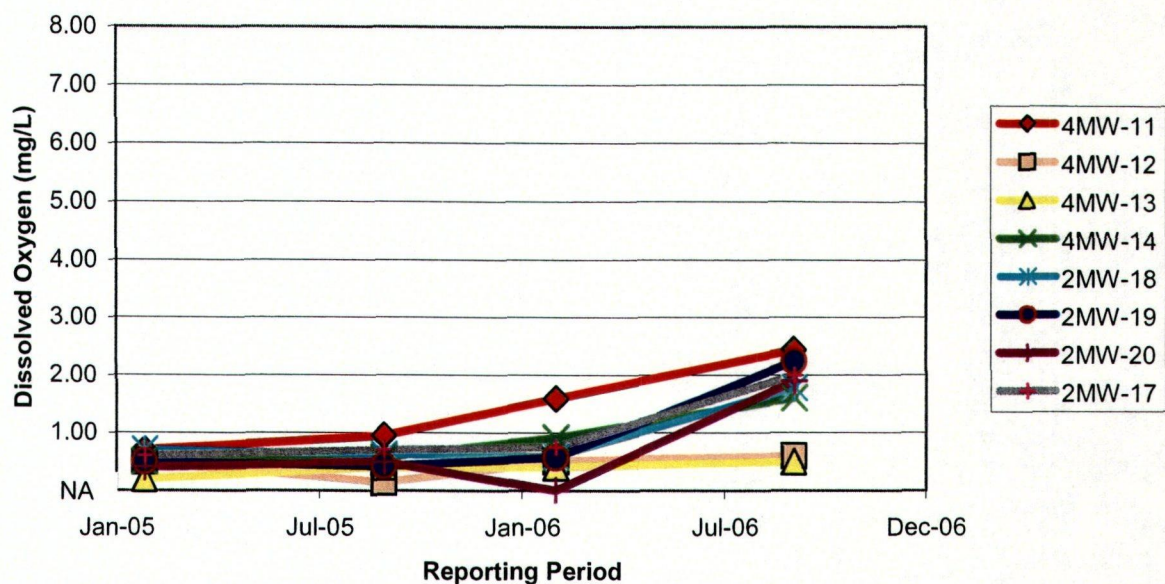


**Figure 2-6: Downgradient & Background Wells - Temperature**

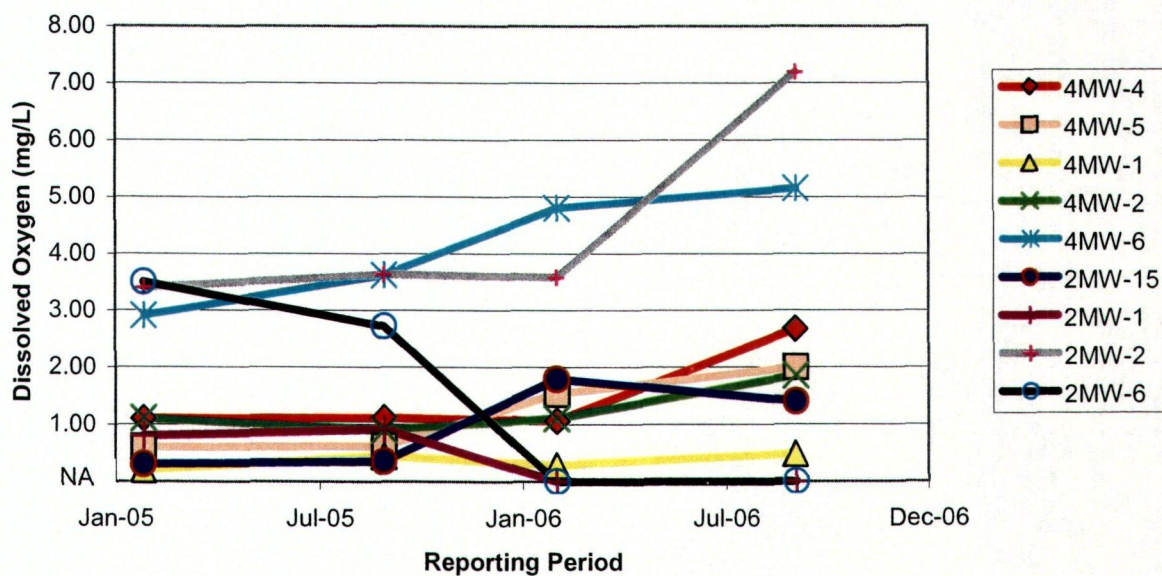


Notes: 1. NA represents "Not Analyzed" due to dry well conditions

**Figure 2-7: Detection Wells -  
Dissolved Oxygen**

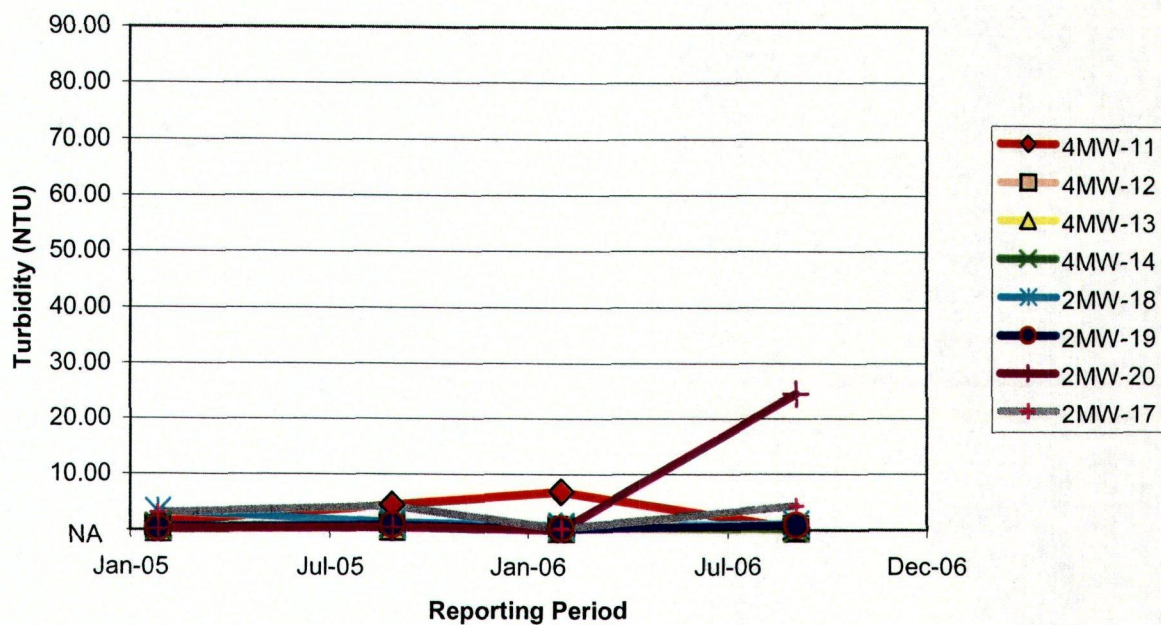


**Figure 2-8: Downgradient & Background Wells -  
Dissolved Oxygen**

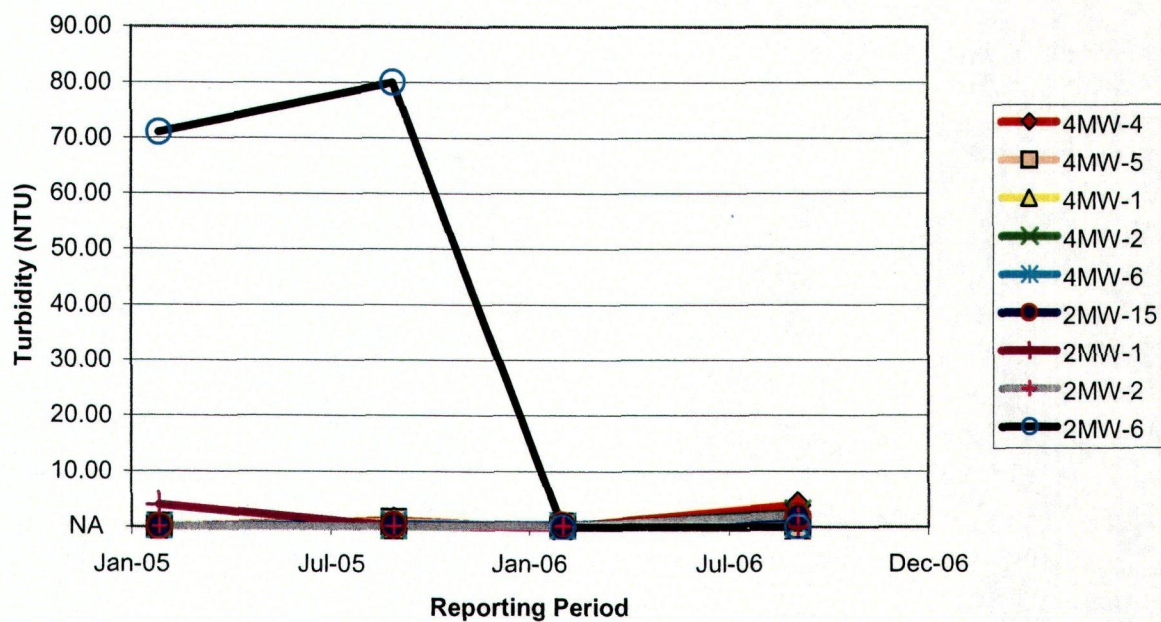


- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

**Figure 2-9: Detection Wells - Turbidity**



**Figure 2-10: Downgradient & Background Wells - Turbidity**



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-11: Detection Wells - Total Ammonia

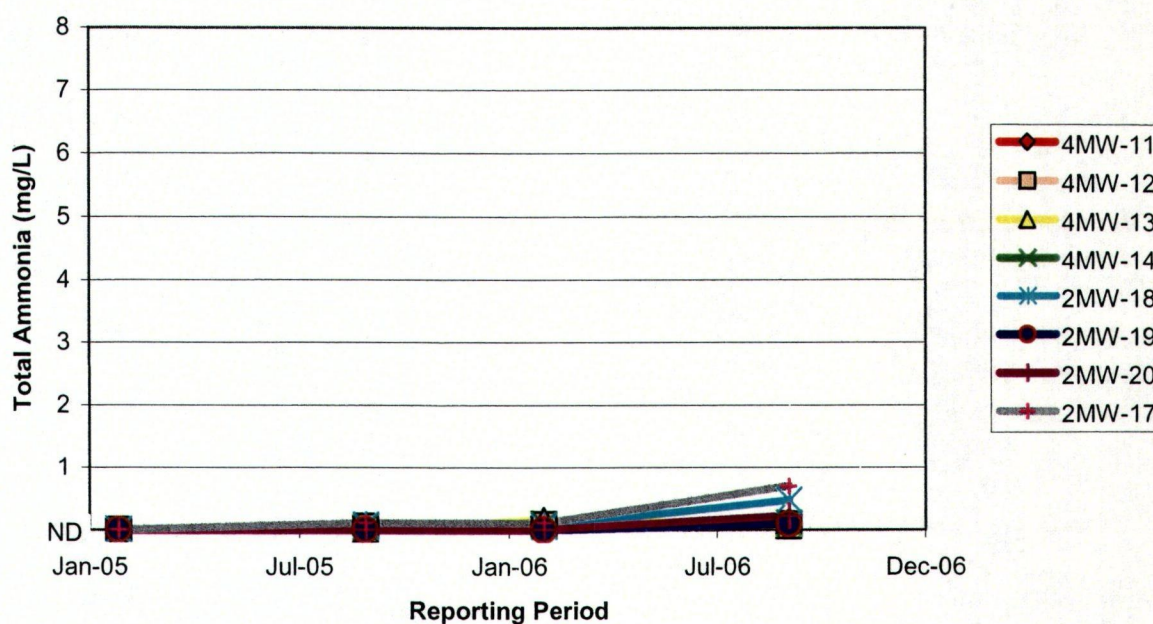
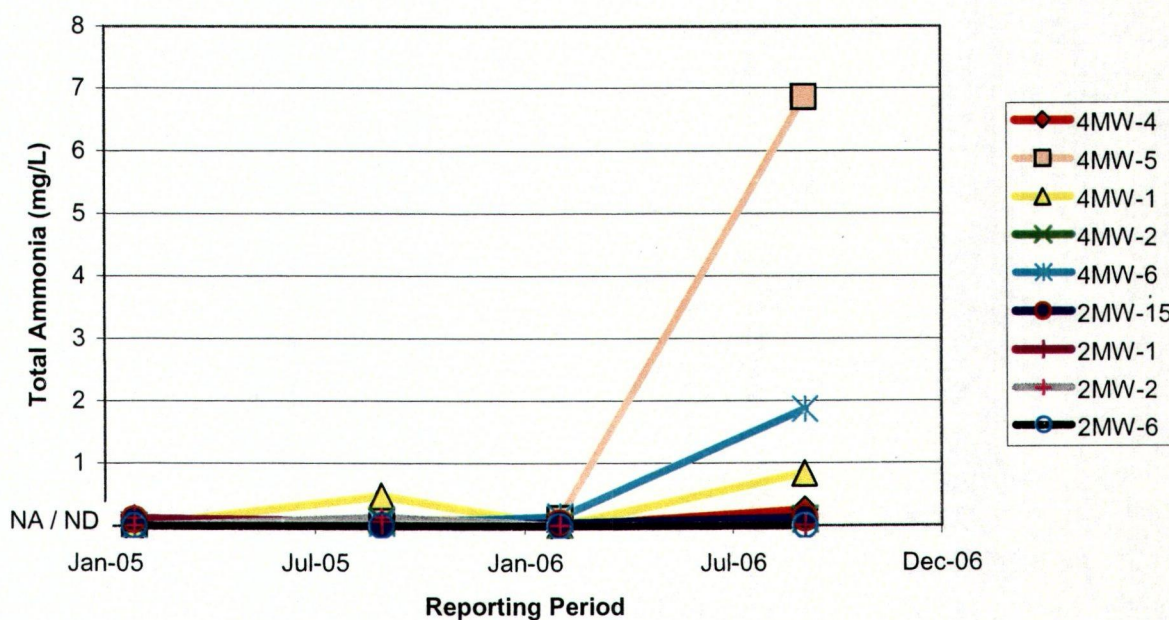


Figure 2-12: Downgradient & Background Wells - Total Ammonia



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-13: Detection Wells - Chlorides

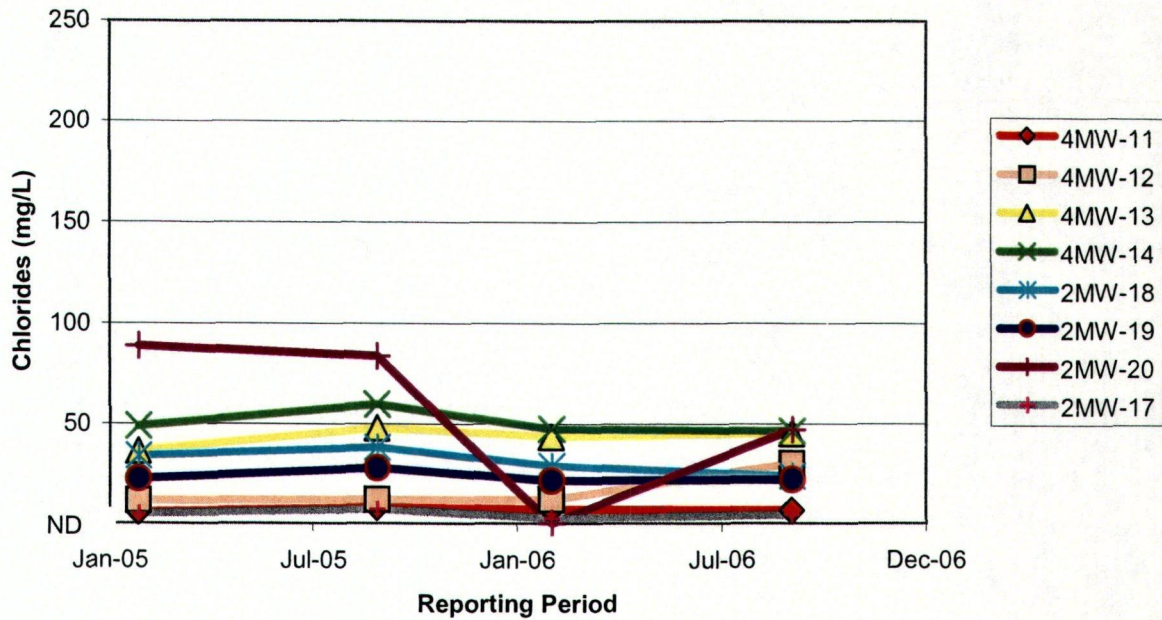
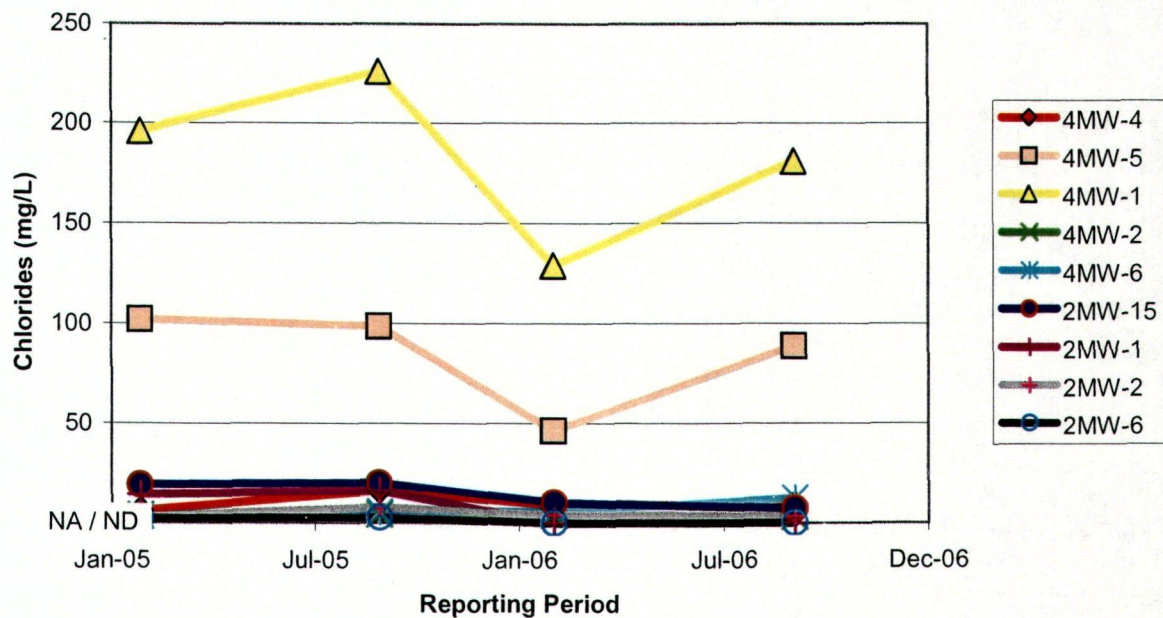


Figure 2-14: Downgradient & Background Wells - Chlorides



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-15: Detection Wells - Iron

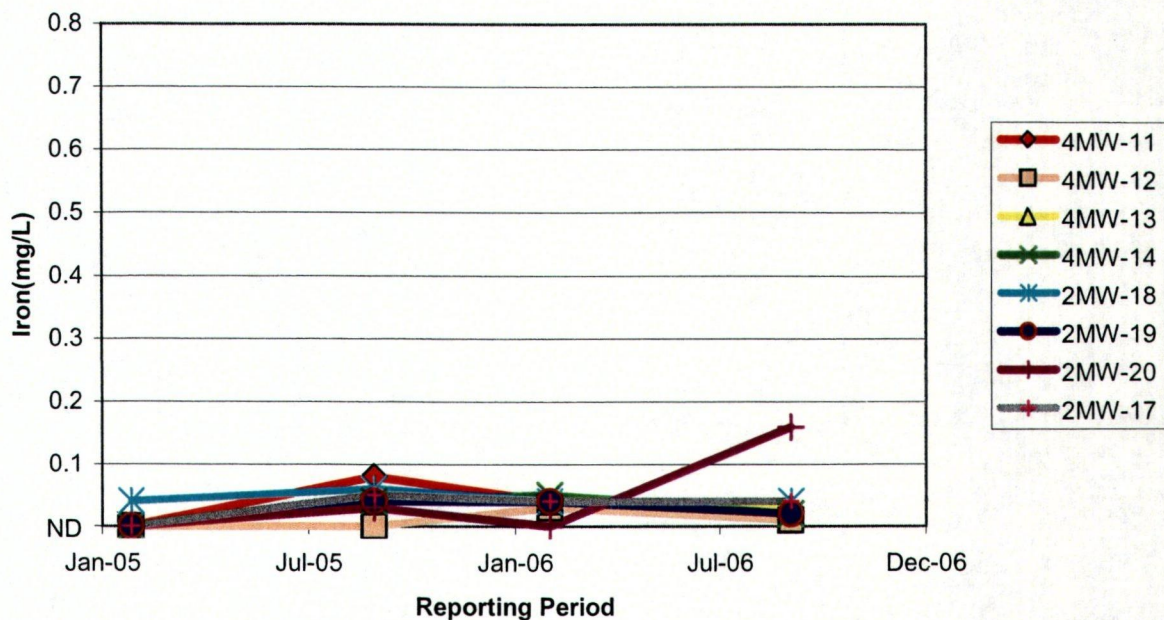
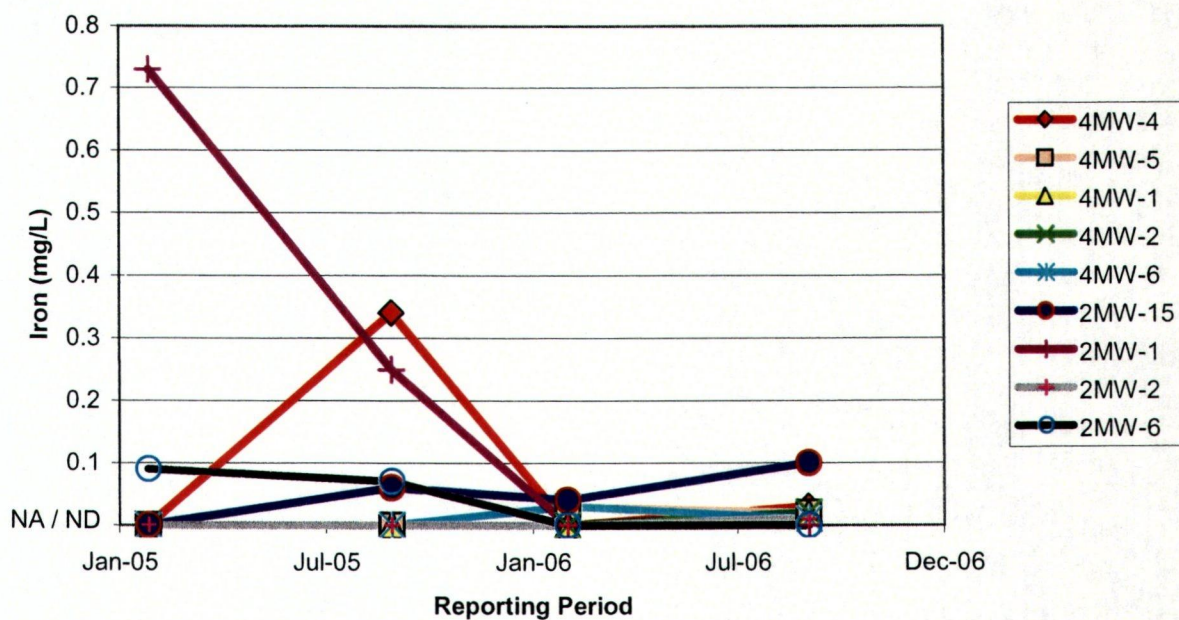


Figure 2-16: Downgradient & Background Wells - Iron



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-17: Detection Wells - Mercury

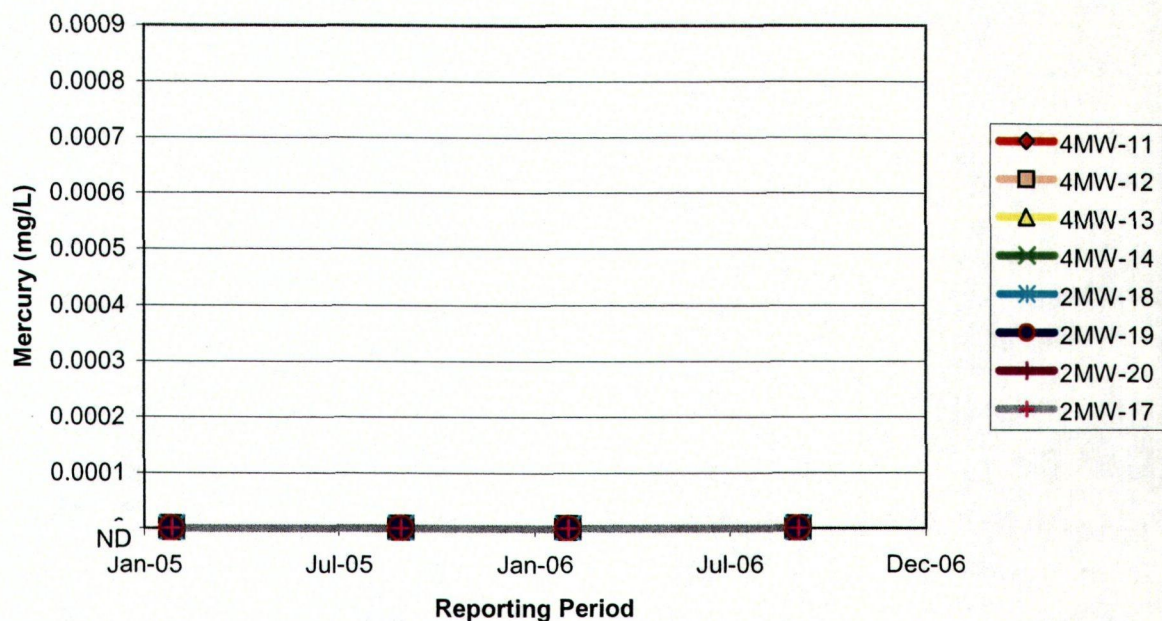
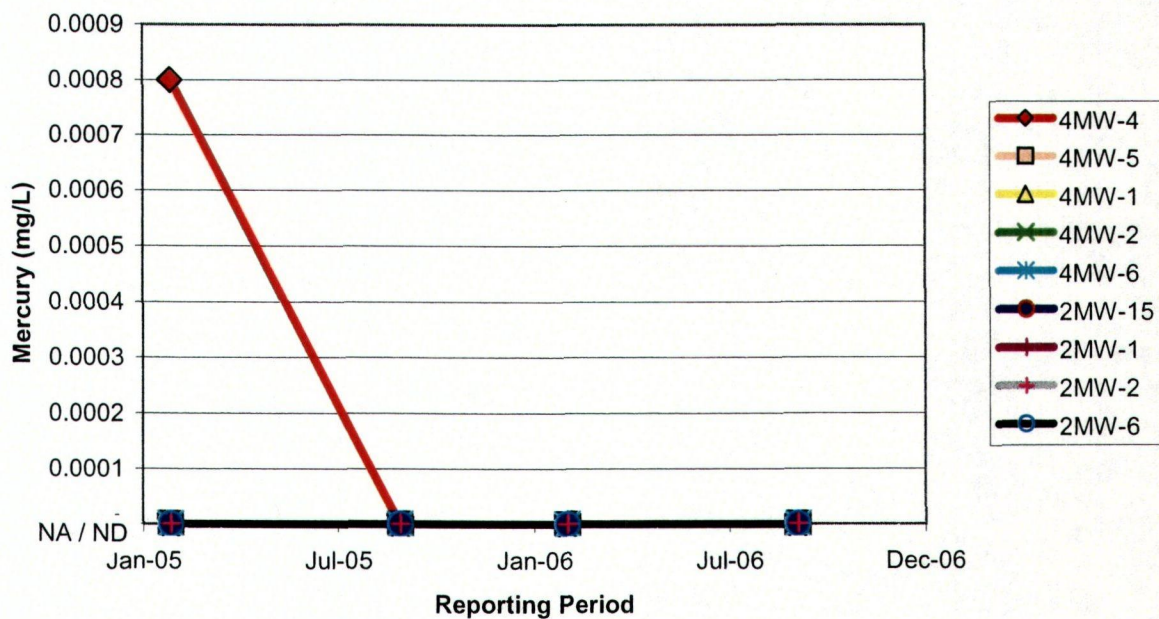


Figure 2-18: Downgradient & Background Wells - Mercury



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-19: Detection Wells - Nitrate

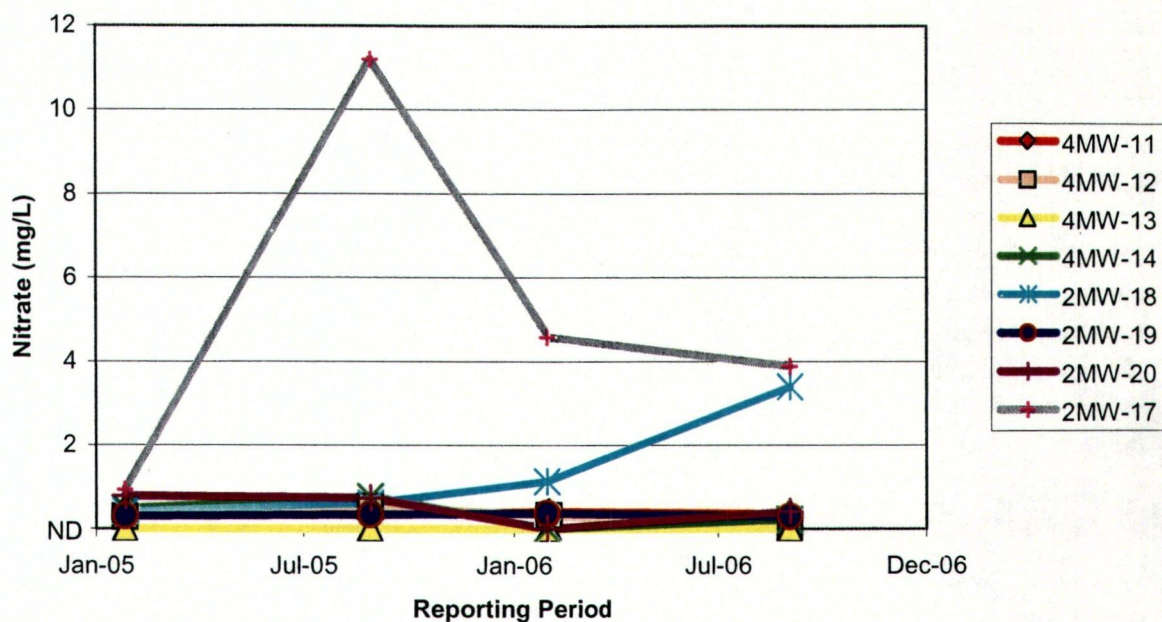
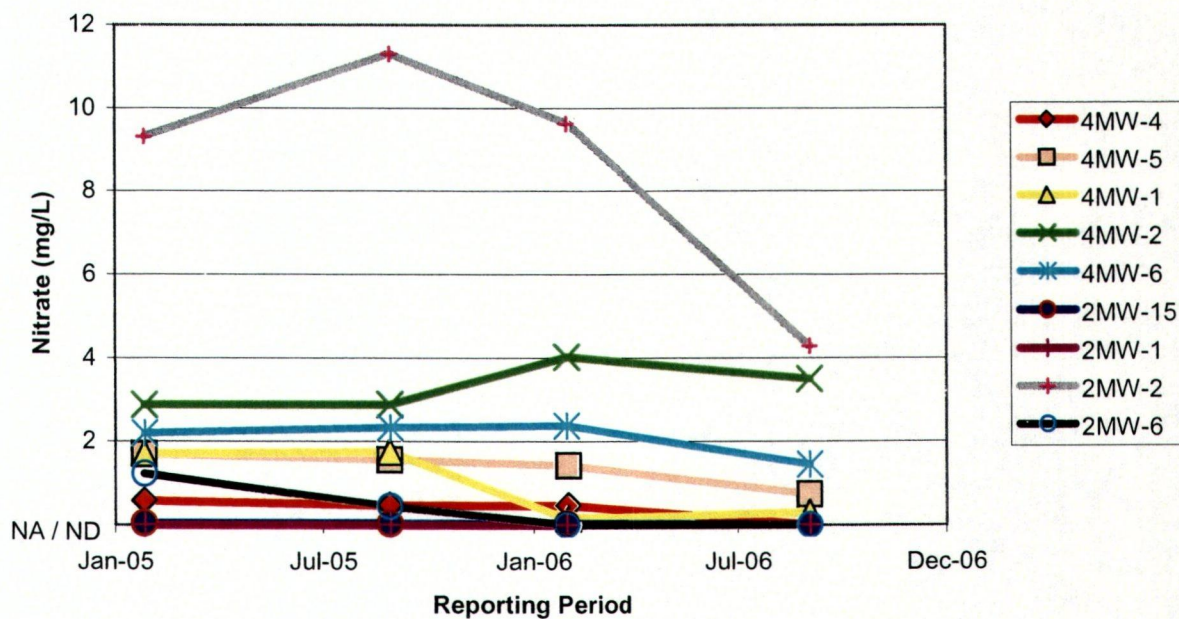


Figure 2-20: Downgradient & Background Wells - Nitrate



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-21: Detection Wells - Sodium

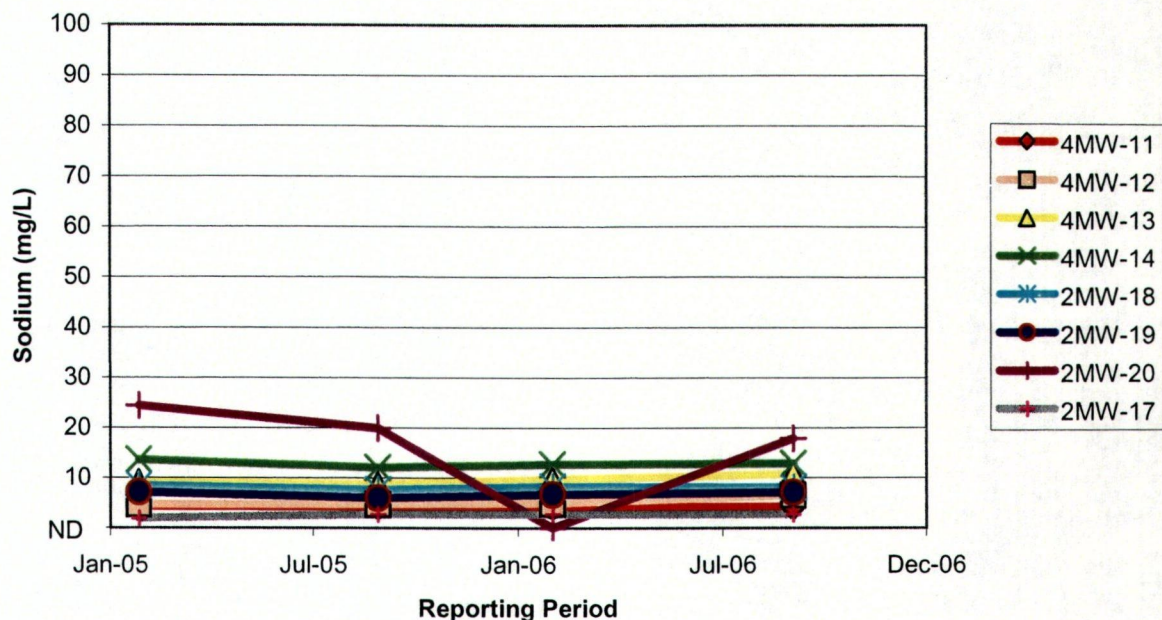
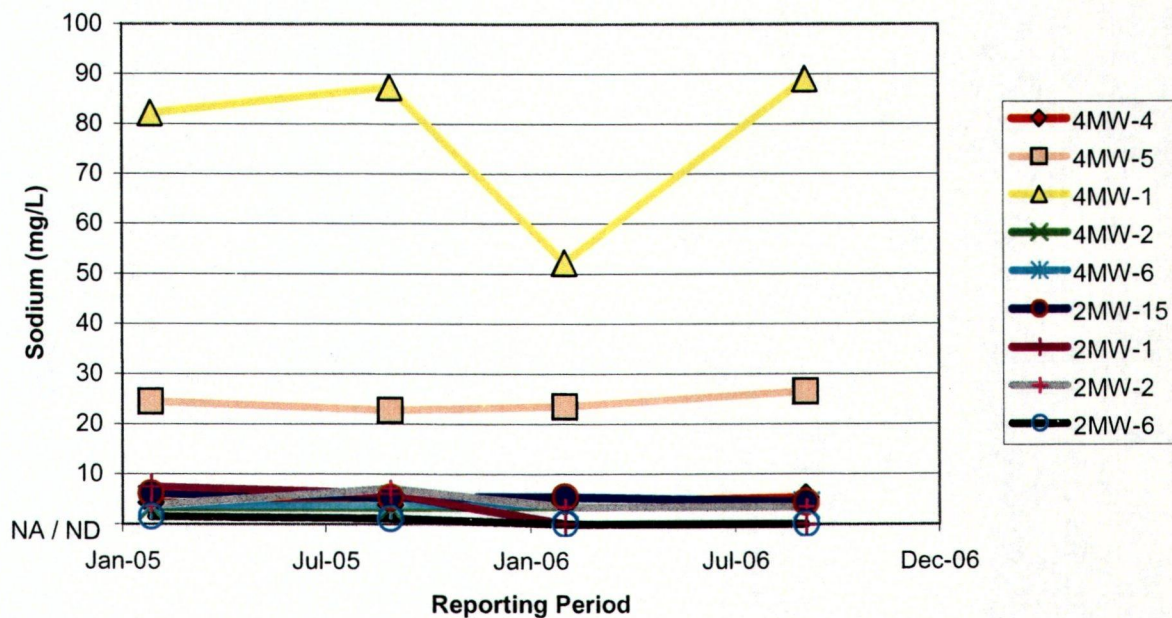


Figure 2-22: Downgradient & Background Wells - Sodium



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-23: Detection Wells - TDS

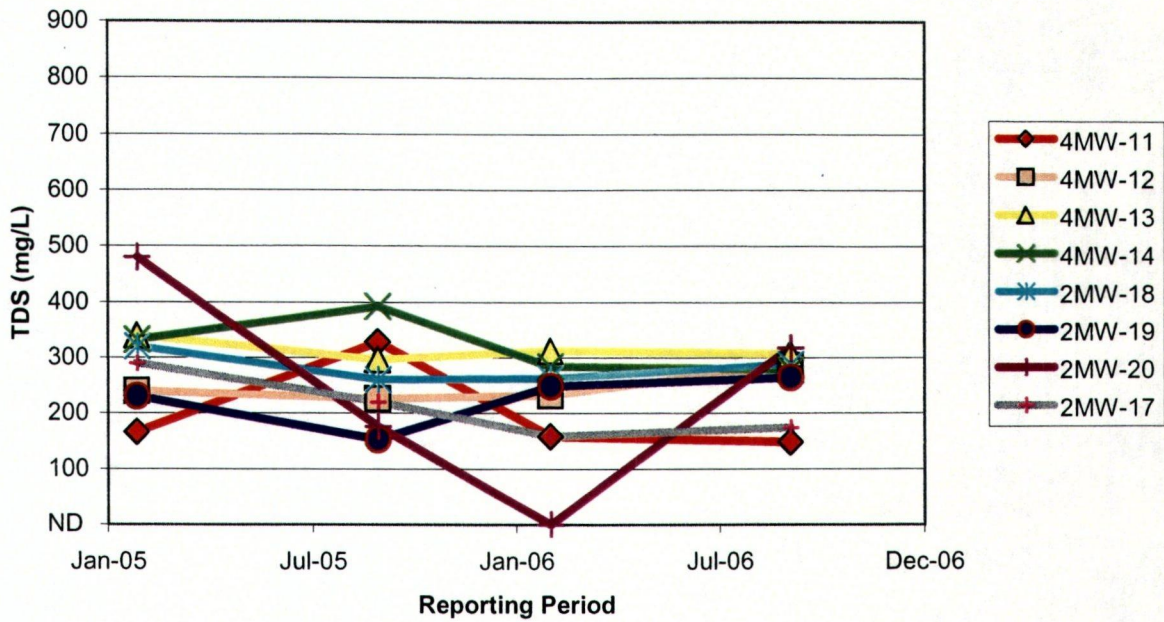
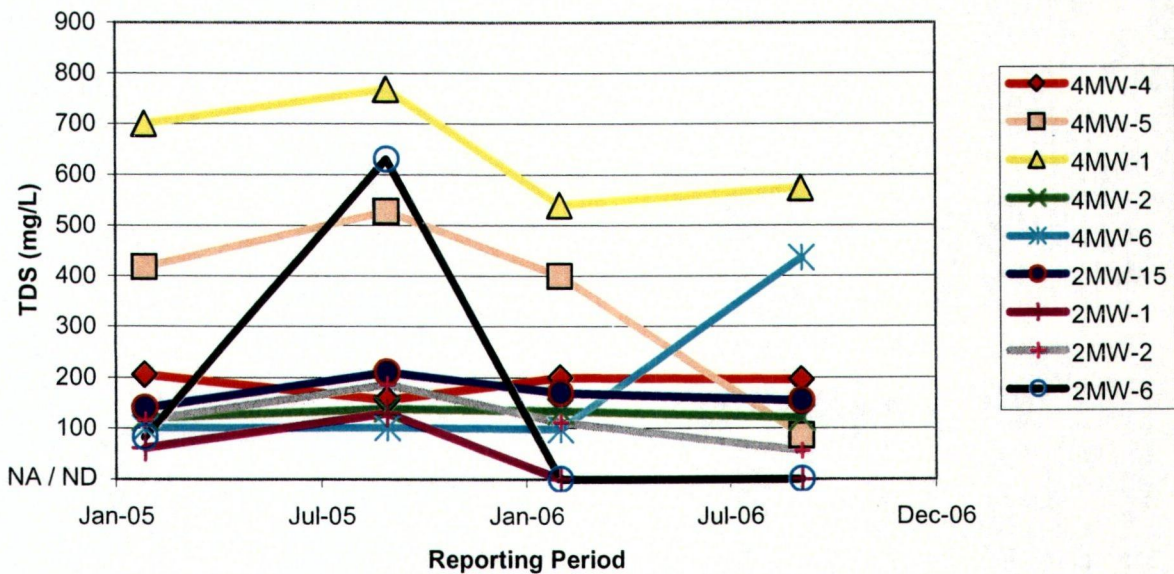


Figure 2-24: Downgradient & Background Wells - TDS



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-25: Detection Wells - Water Level

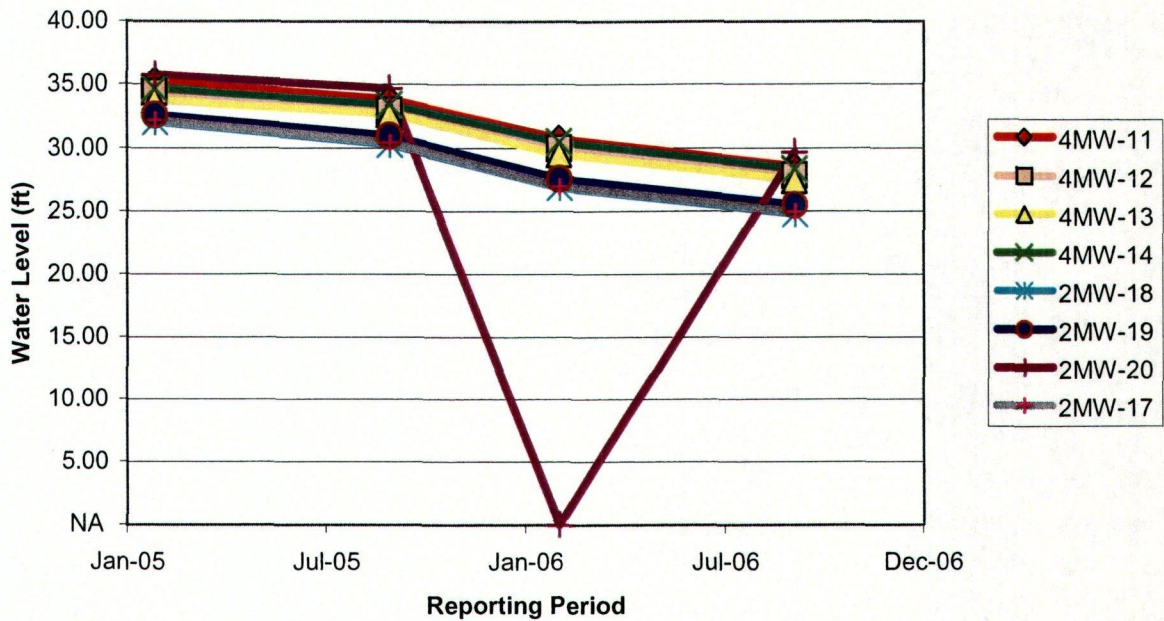
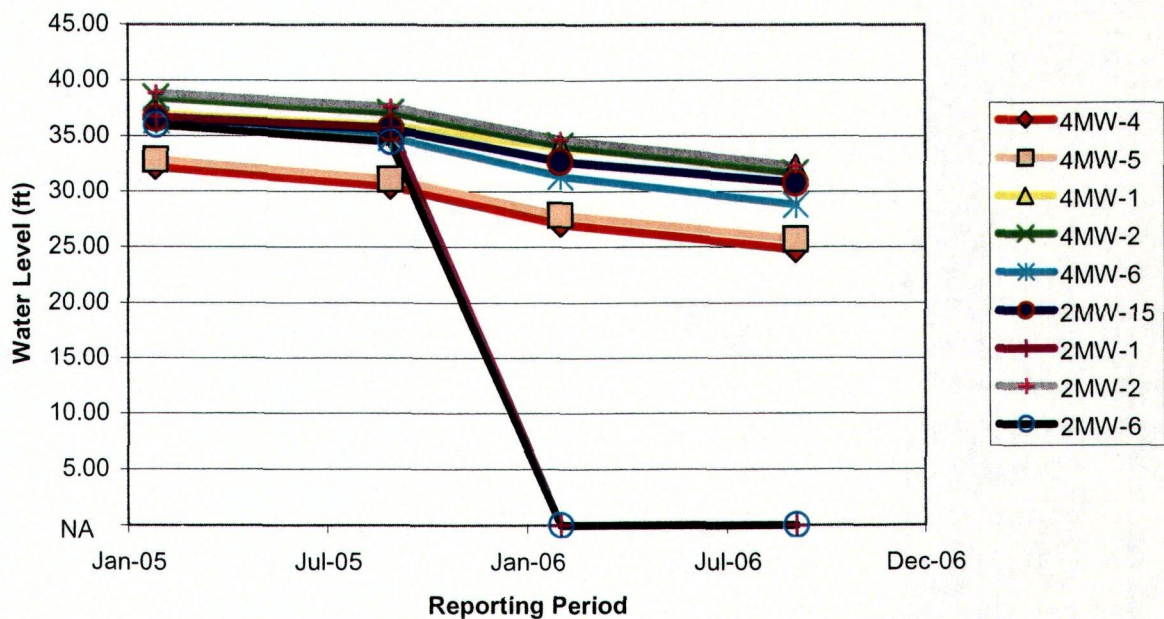


Figure 2-26: Downgradient & Background Wells - Water Level



Notes: 1. NA represents "Not Analyzed" due to dry well conditions

Figure 2-27: Detection Wells - Arsenic

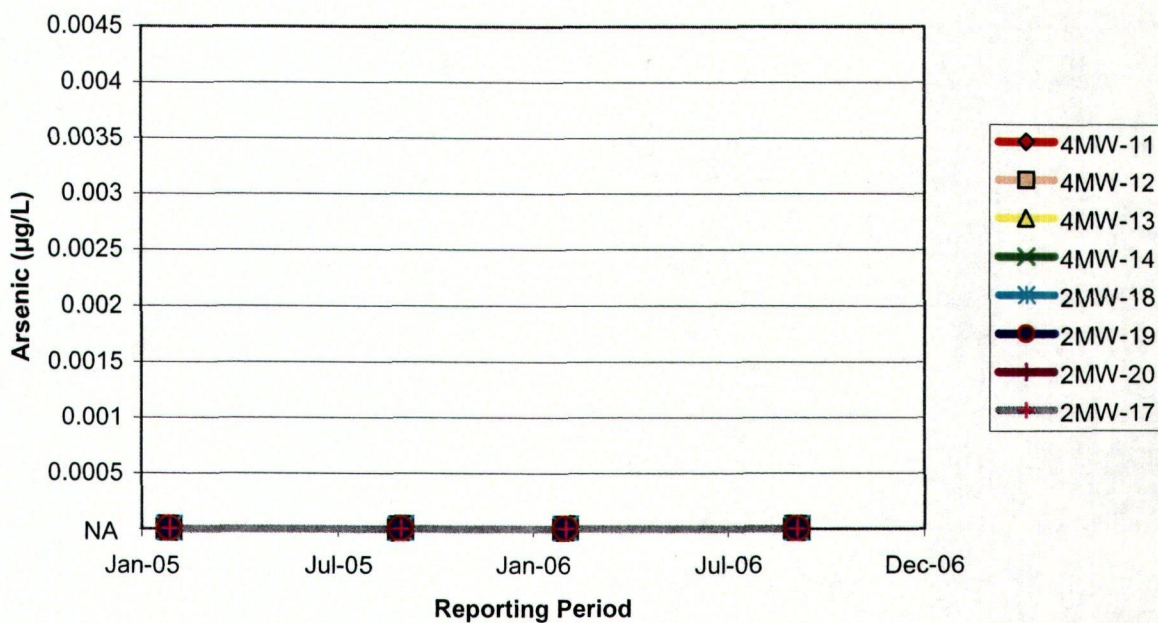
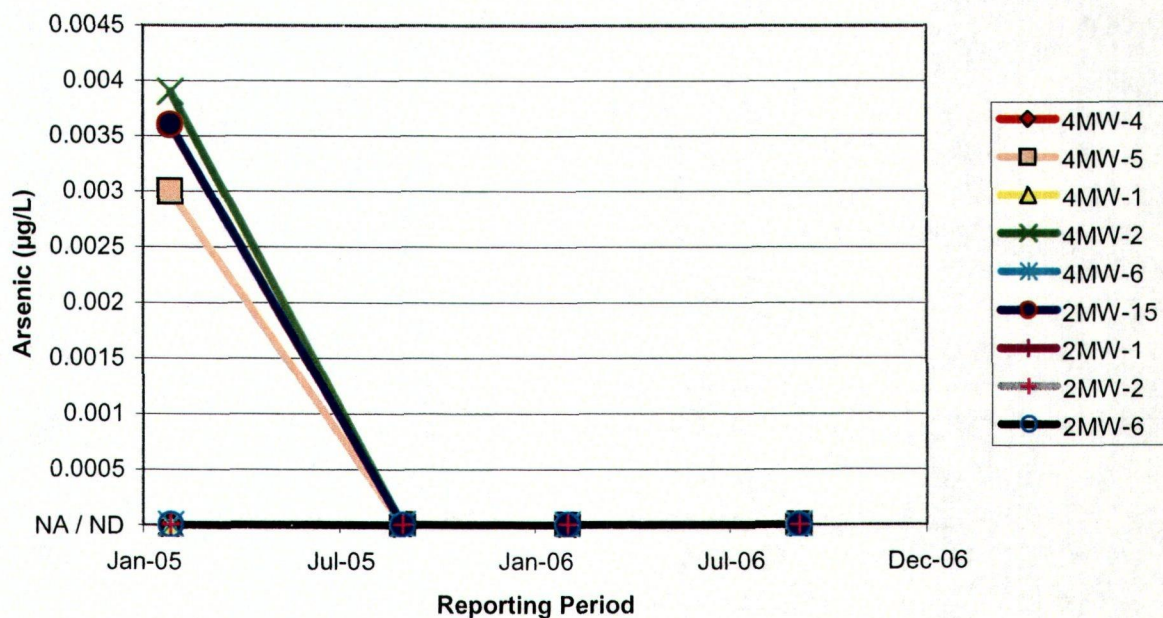


Figure 2-28: Downgradient & Background Wells - Arsenic



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-29: Detection Wells - Barium

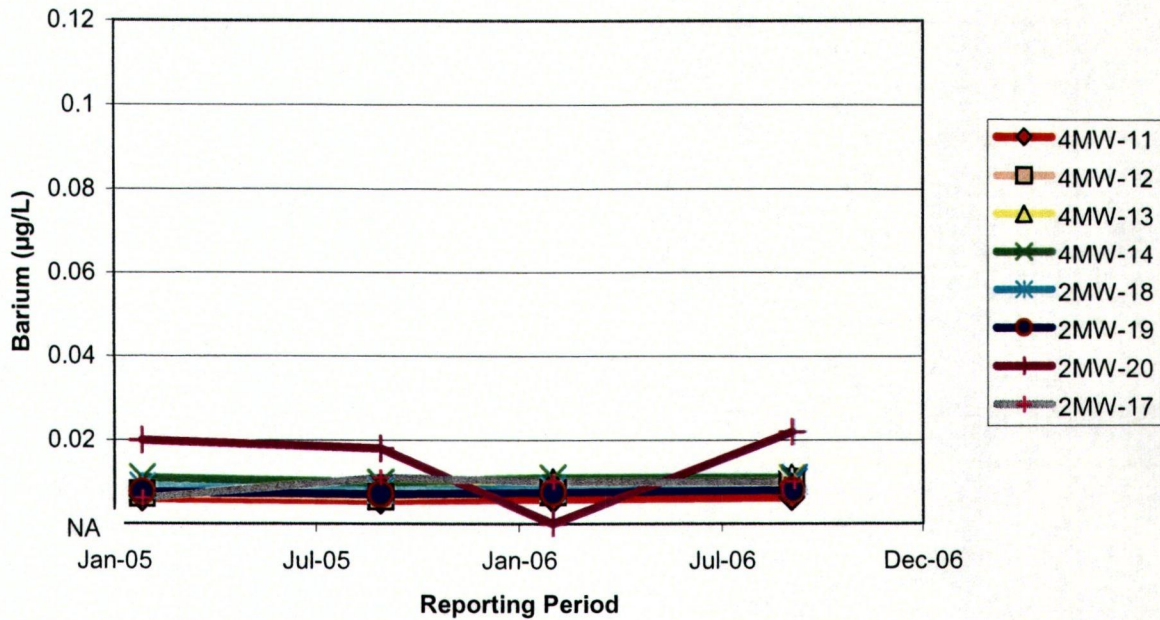
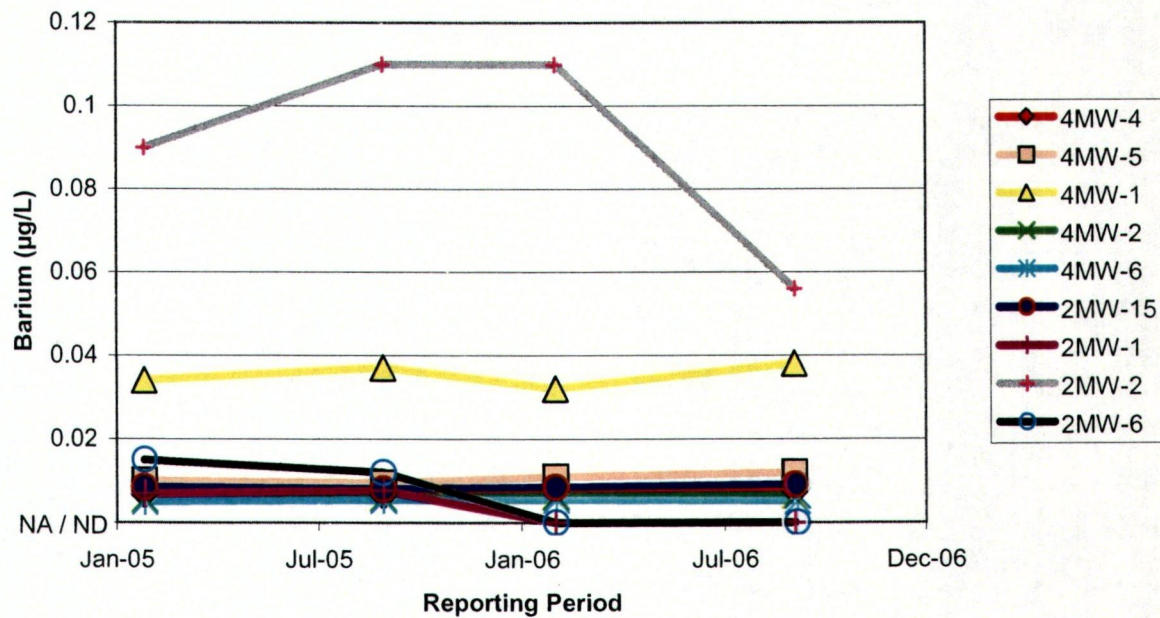


Figure 2-30: Downgradient & Background Wells - Barium



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-31: Detection Wells - Beryllium

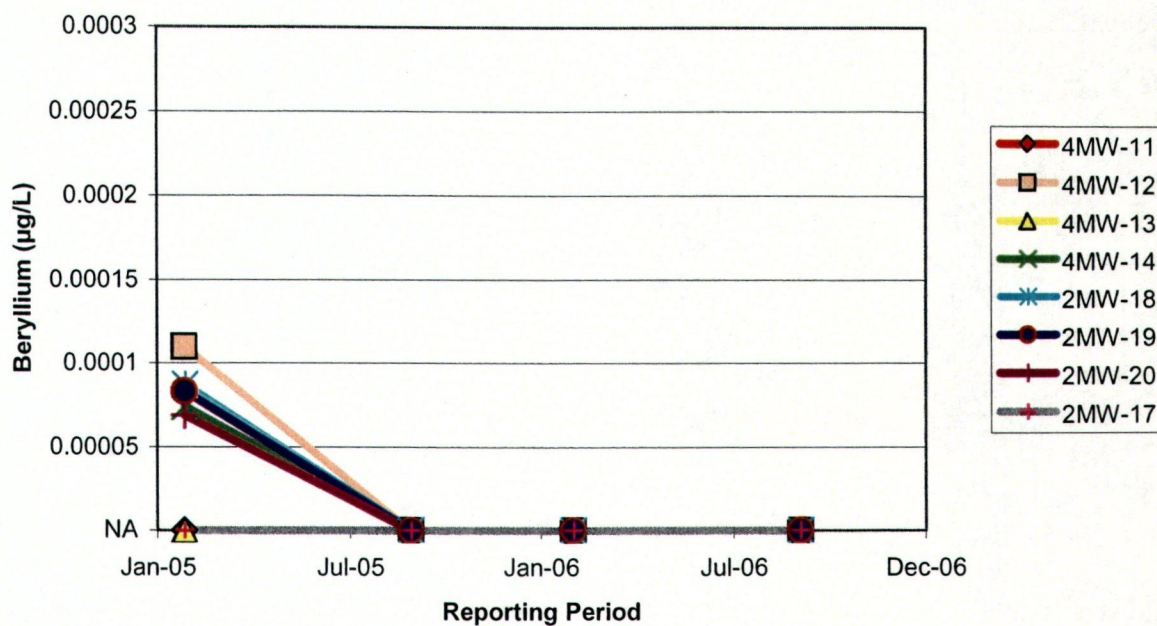
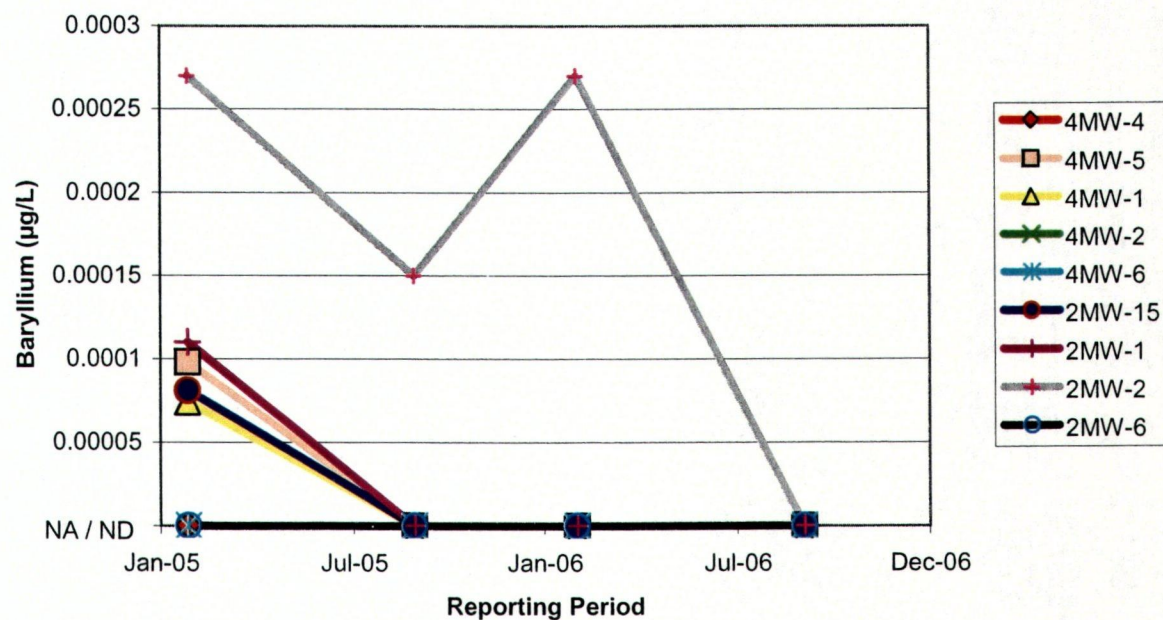


Figure 2-32: Downgradient & Background Wells - Beryllium



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-33: Detection Wells - Cadmium

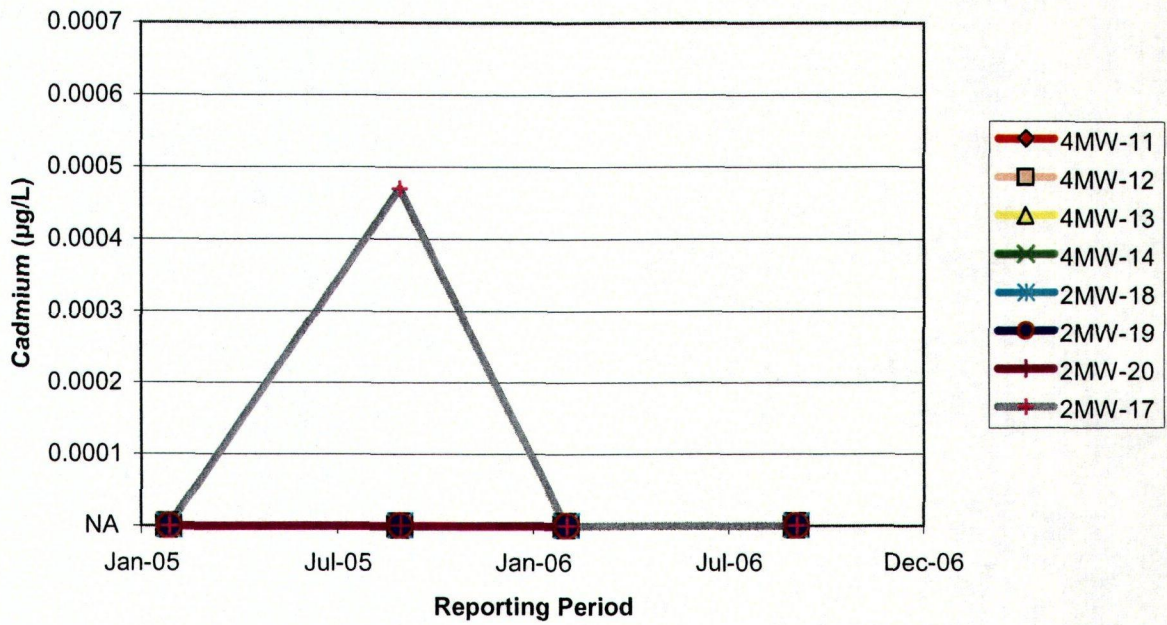
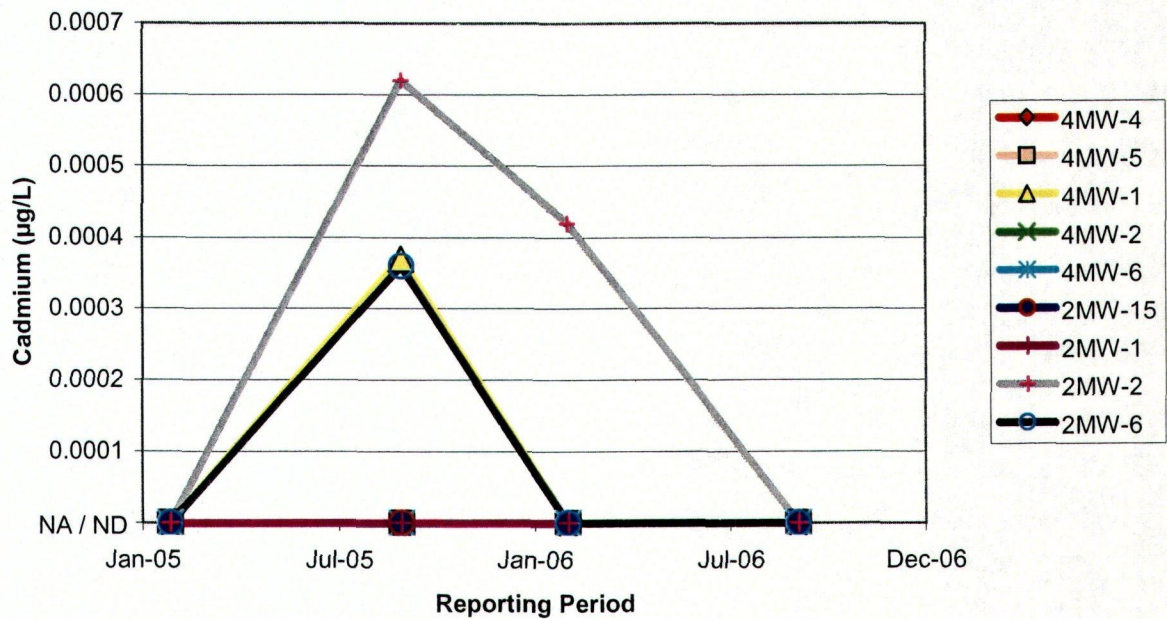


Figure 2-34: Downgradient & Background Wells - Cadmium



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-35: Detection Wells - Chromium

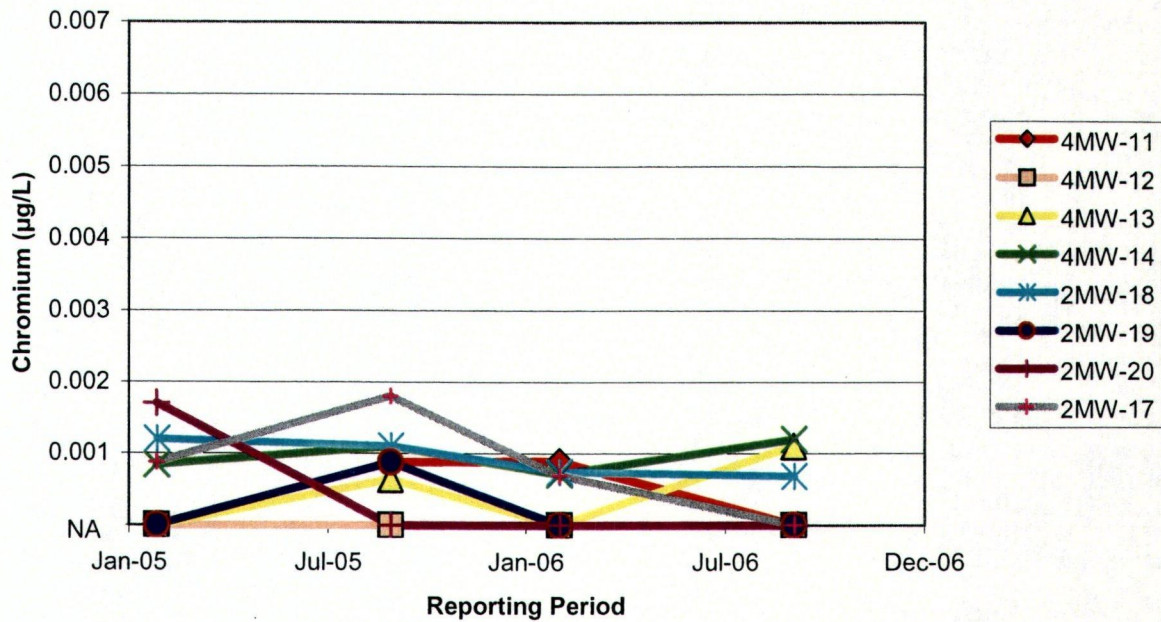
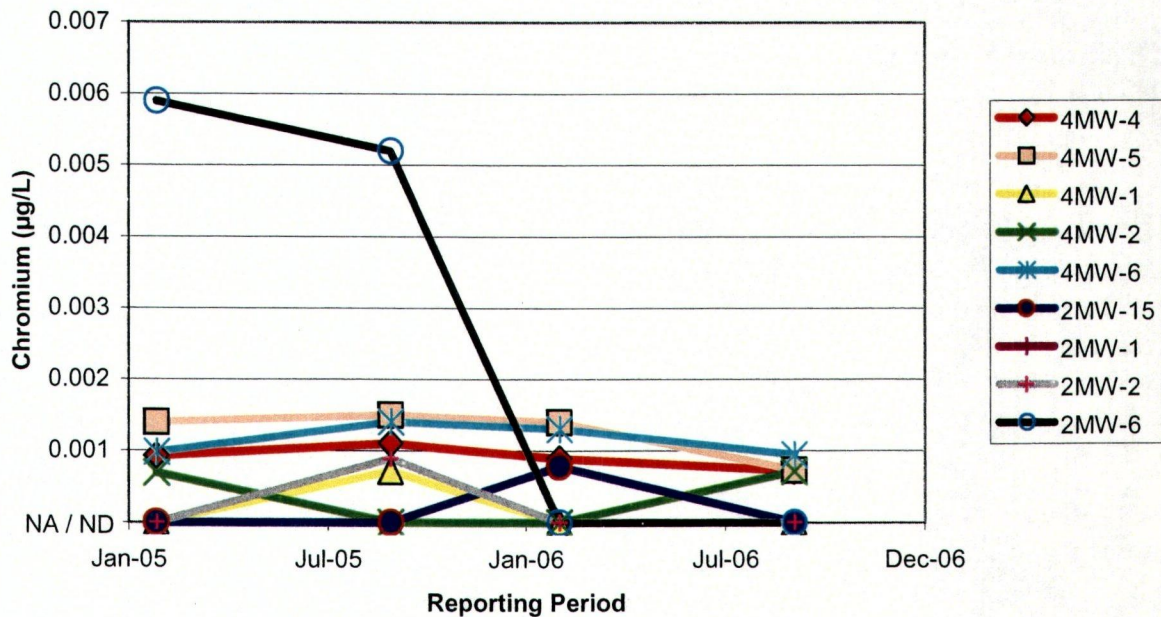


Figure 2-36: Downgradient & Background Wells - Chromium



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-37: Detection Wells - Cobalt

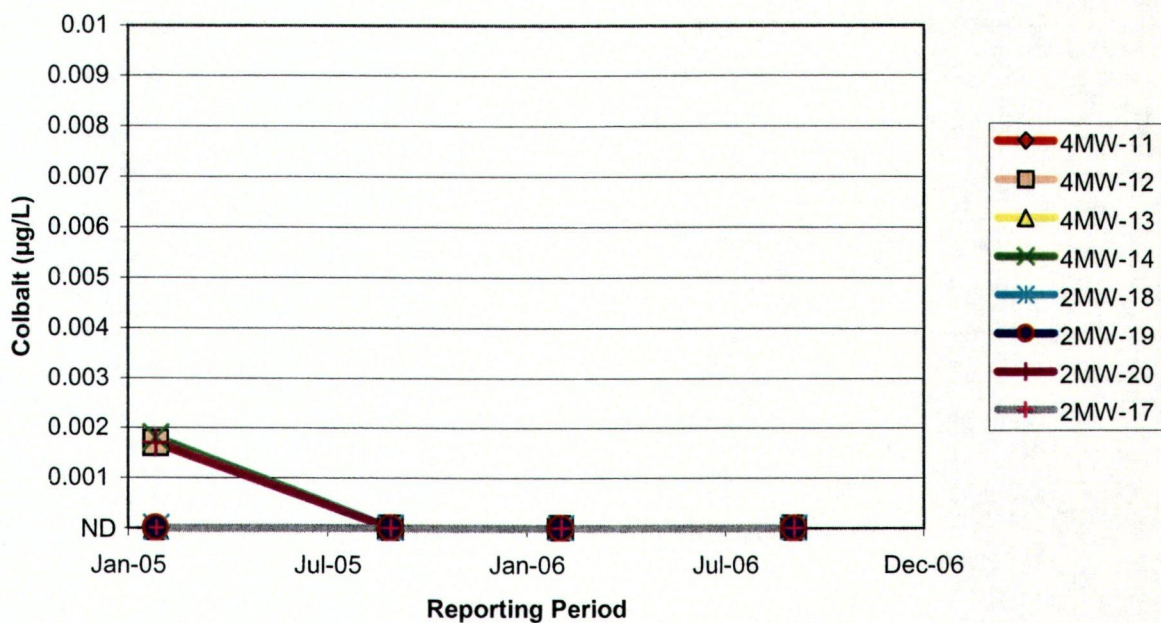
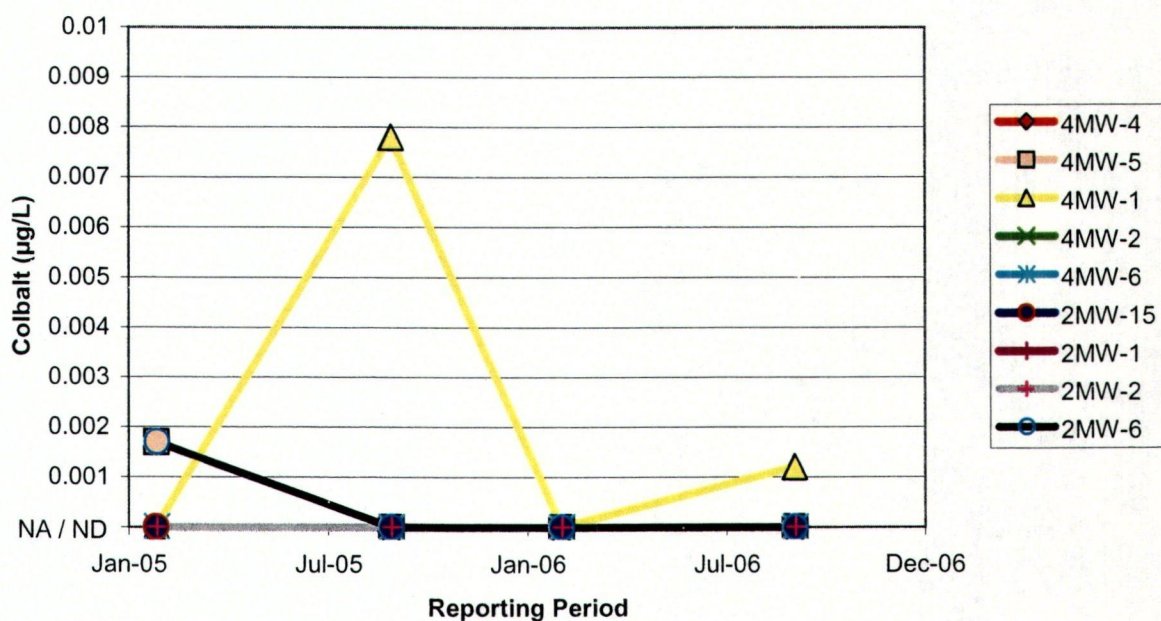


Figure 2-38: Downgradient & Background Wells - Cobalt



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-39: Detection Wells - Copper

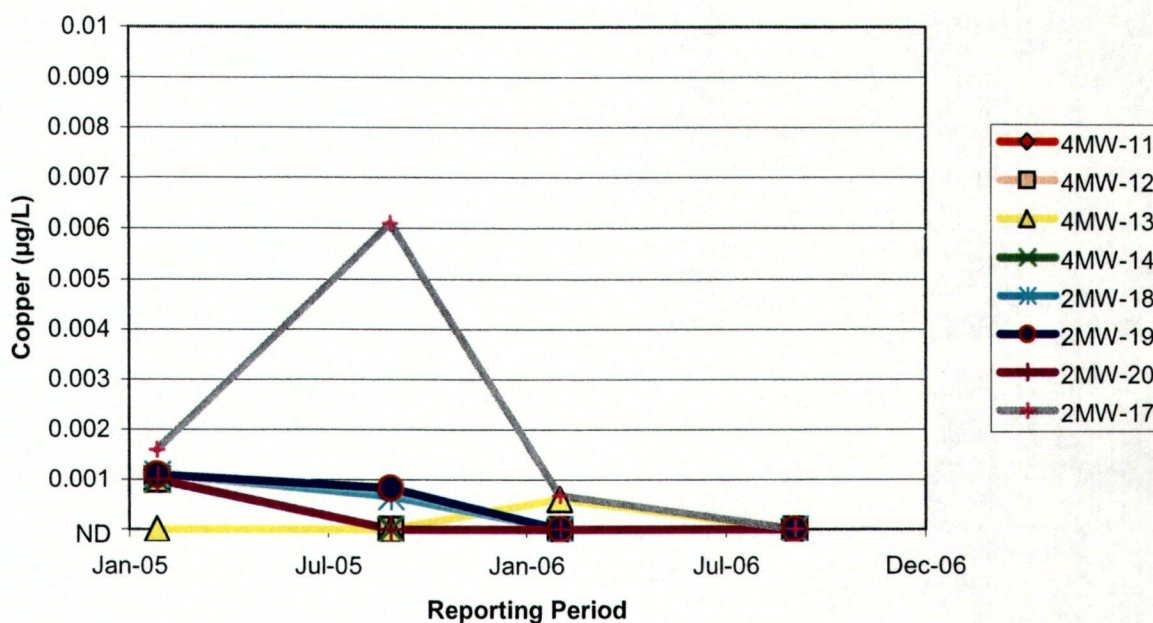
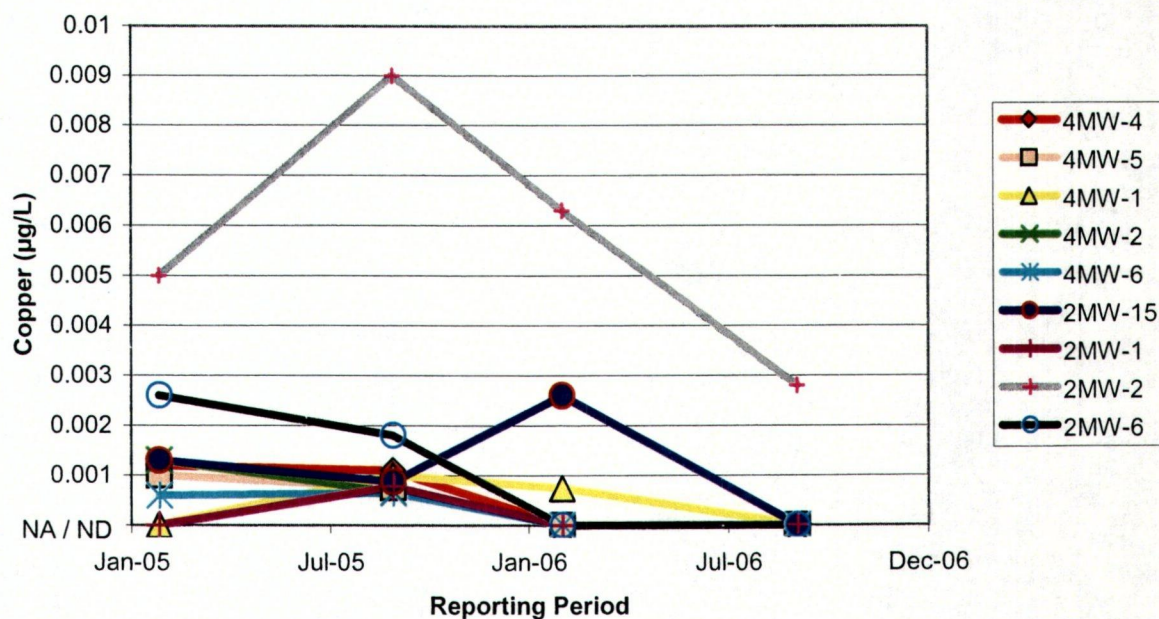


Figure 2-40: Downgradient & Background Wells - Copper



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-41: Detection Wells - Lead

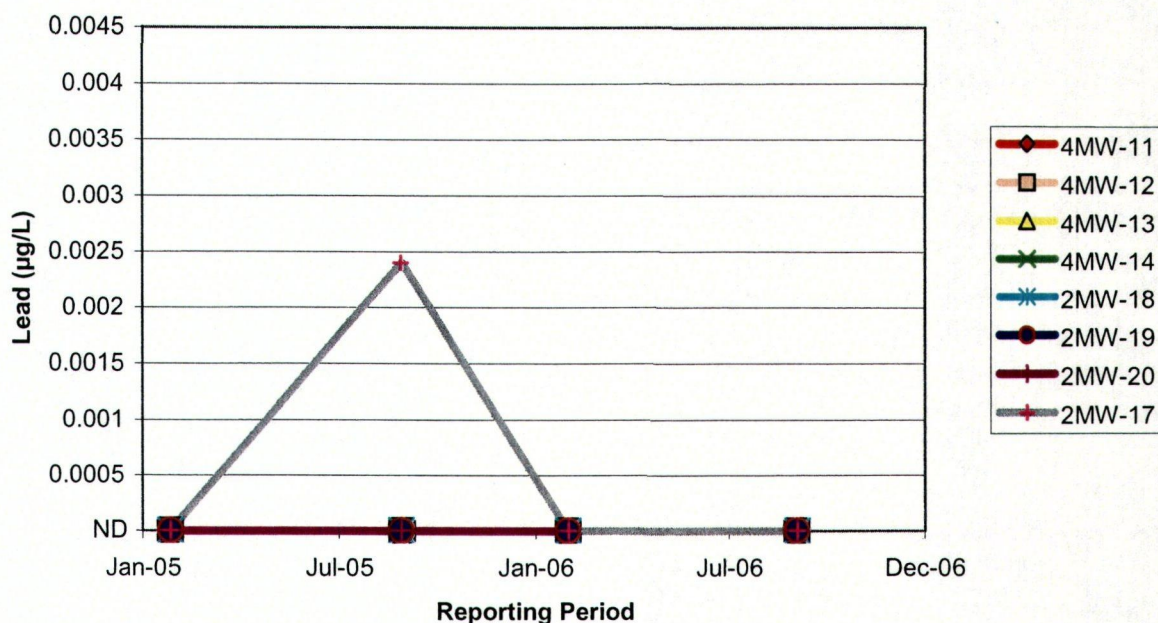
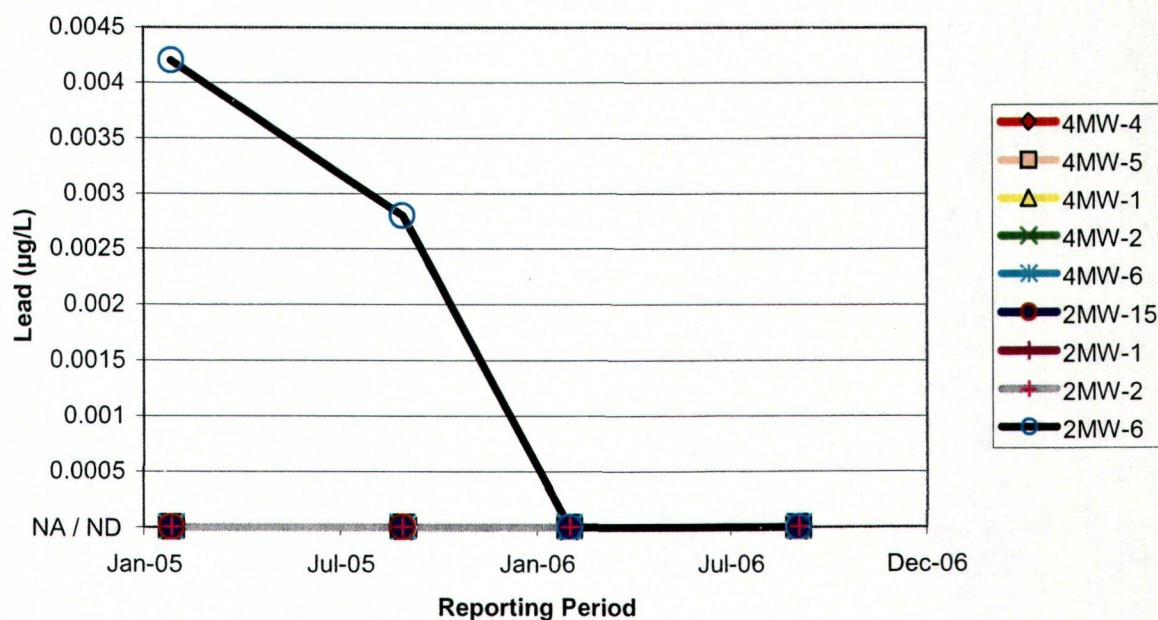


Figure 2-42: Downgradient & Background Wells - Lead



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-43: Detection Wells - Nickel

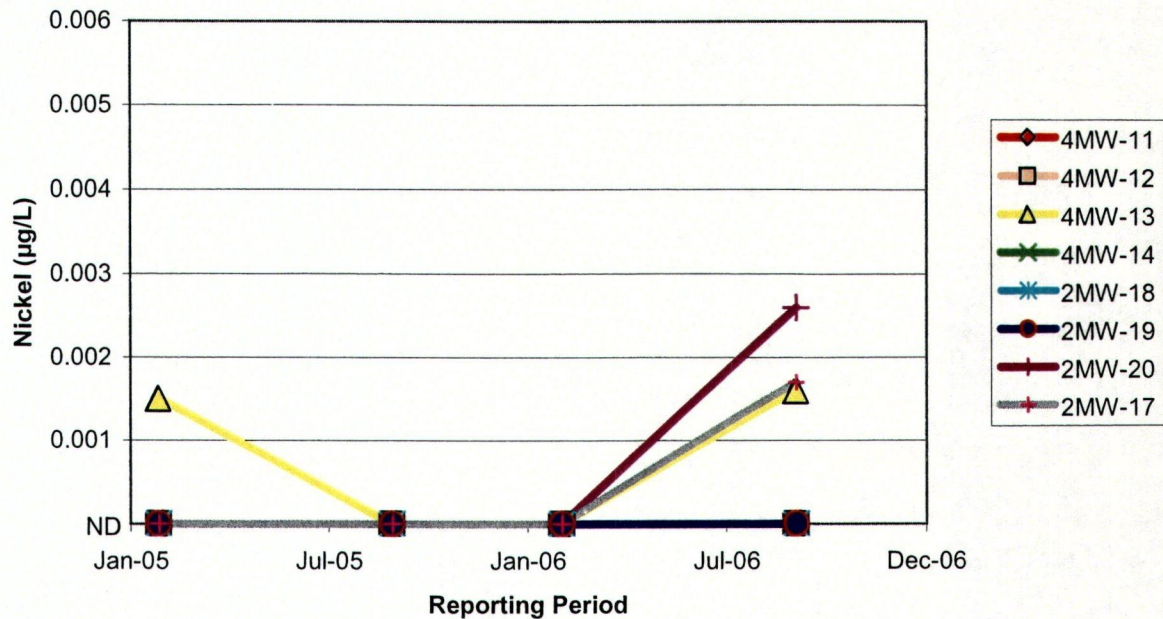
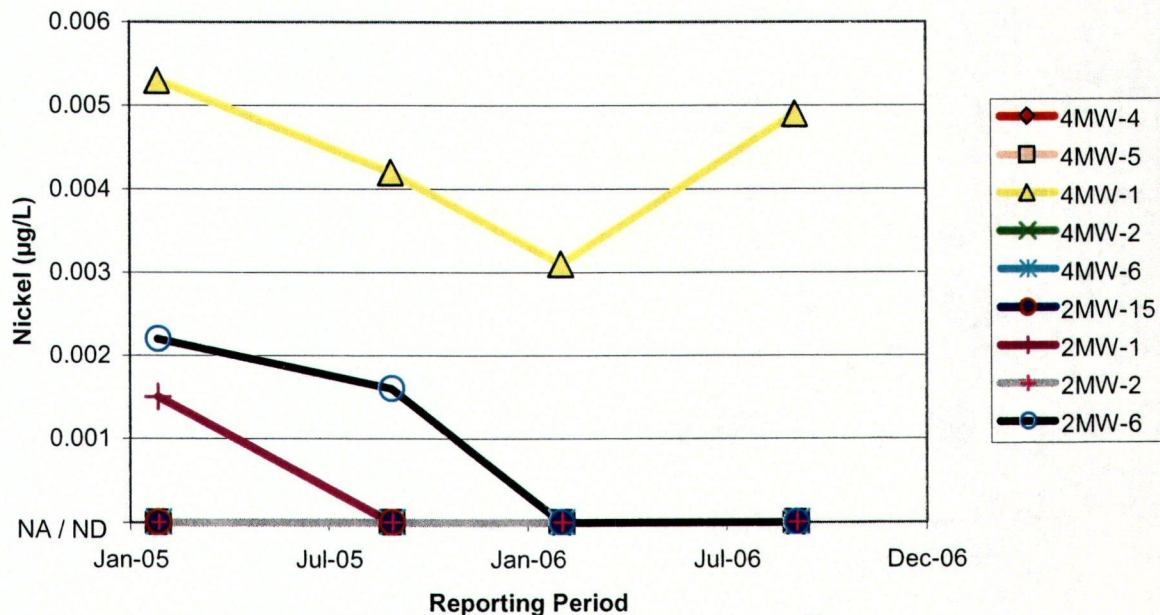


Figure 2-44: Downgradient & Background Wells - Nickel



Notes: 1. NA represents "Not Analyzed" due to dry well conditions  
2. ND represents "Not Detected" ie, below the MDL

Dept. of Environmental  
Protection

MAR 26 2007

Southwest District

Figure 2-45: Detection Wells - Selenium

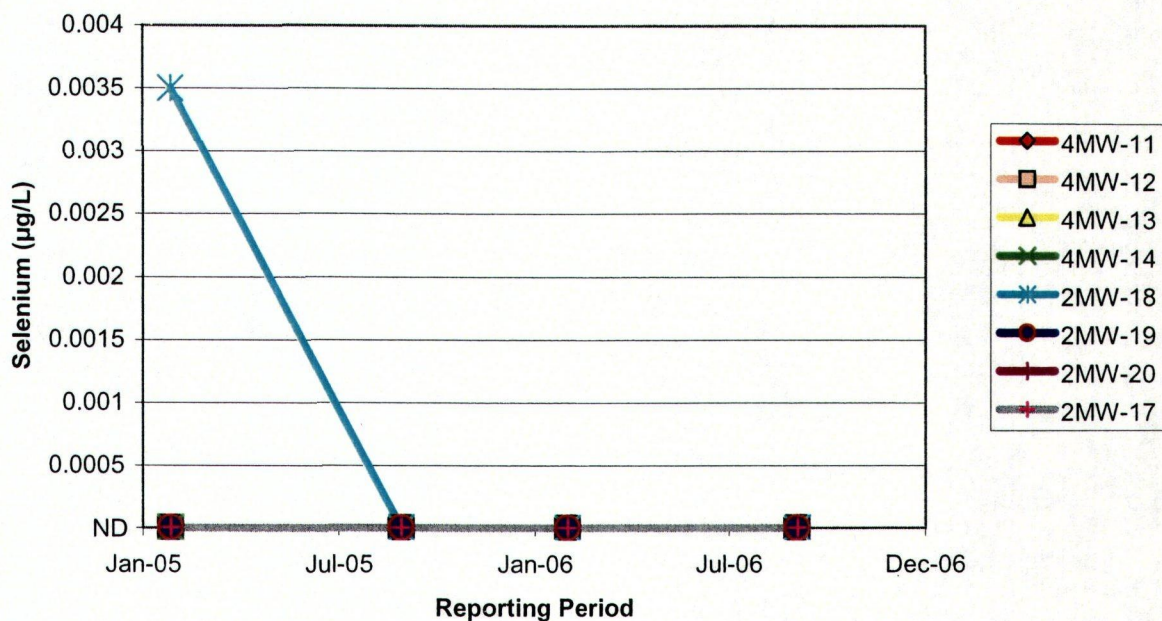
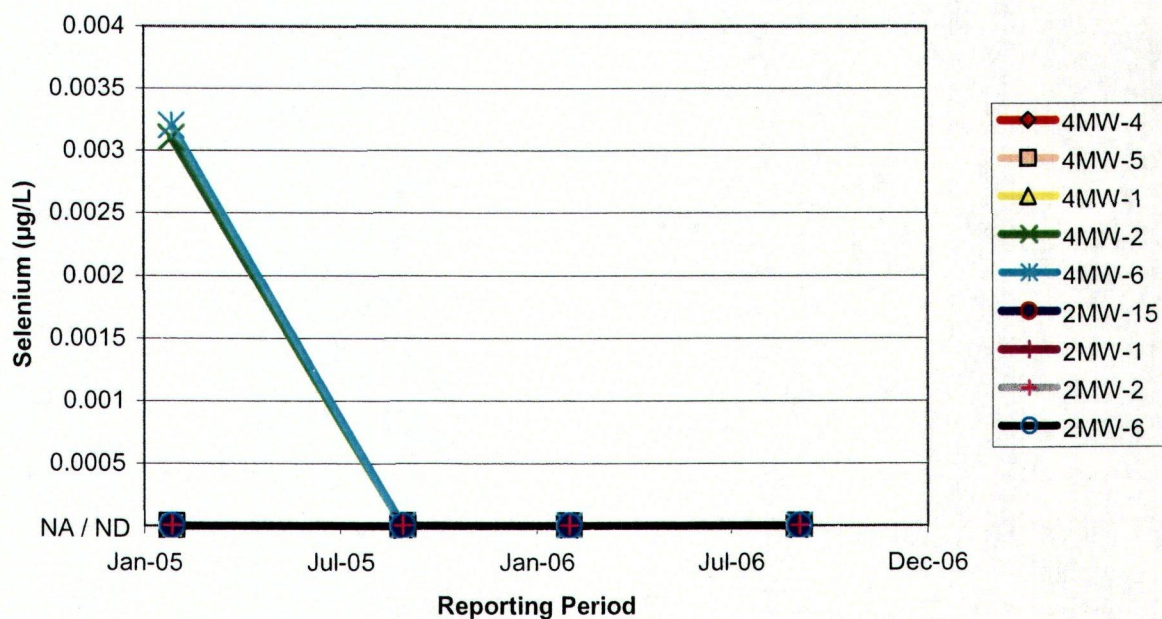


Figure 2-46: Downgradient & Background Wells - Selenium



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-47: Detection Wells - Silver

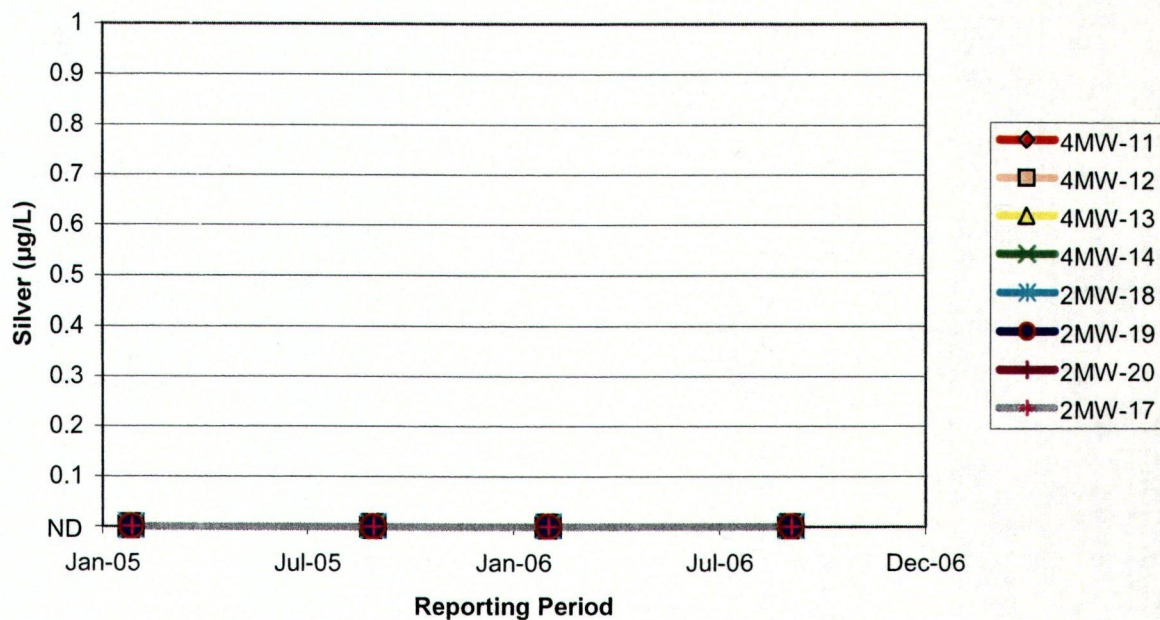
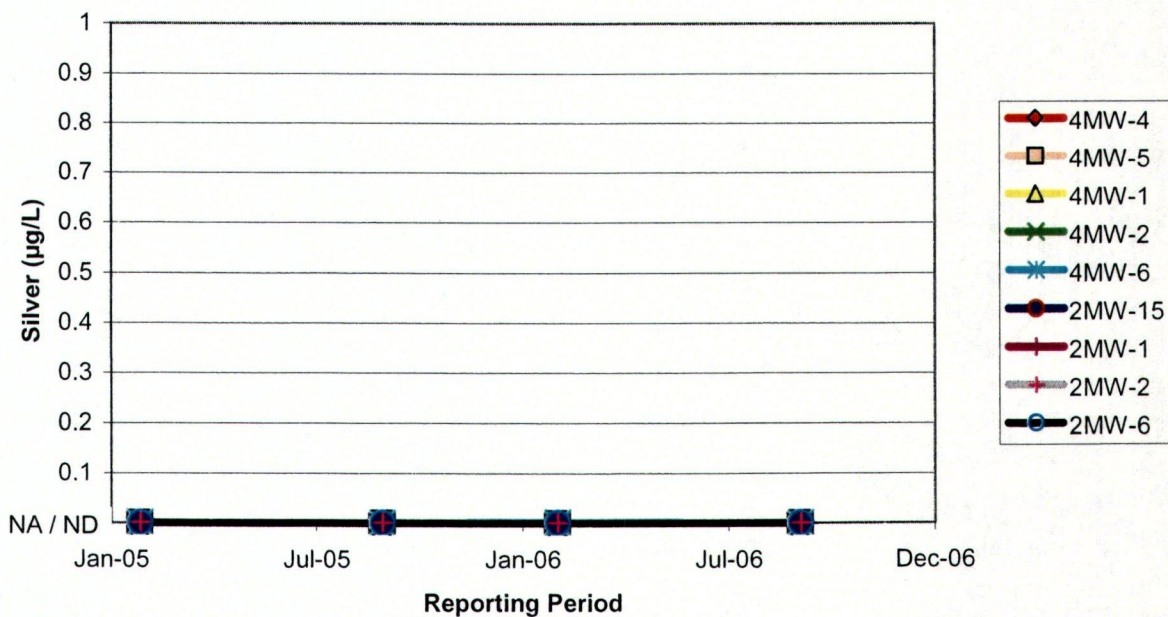


Figure 2-48: Downgradient & Background Wells - Silver



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-49: Detection Wells - Vanadium

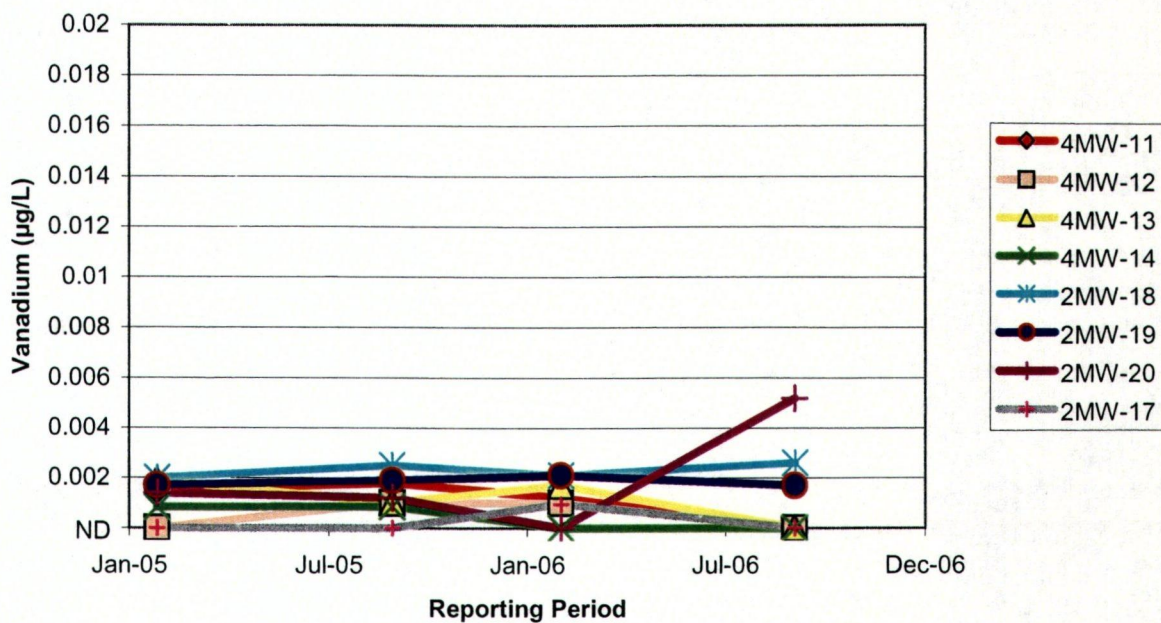
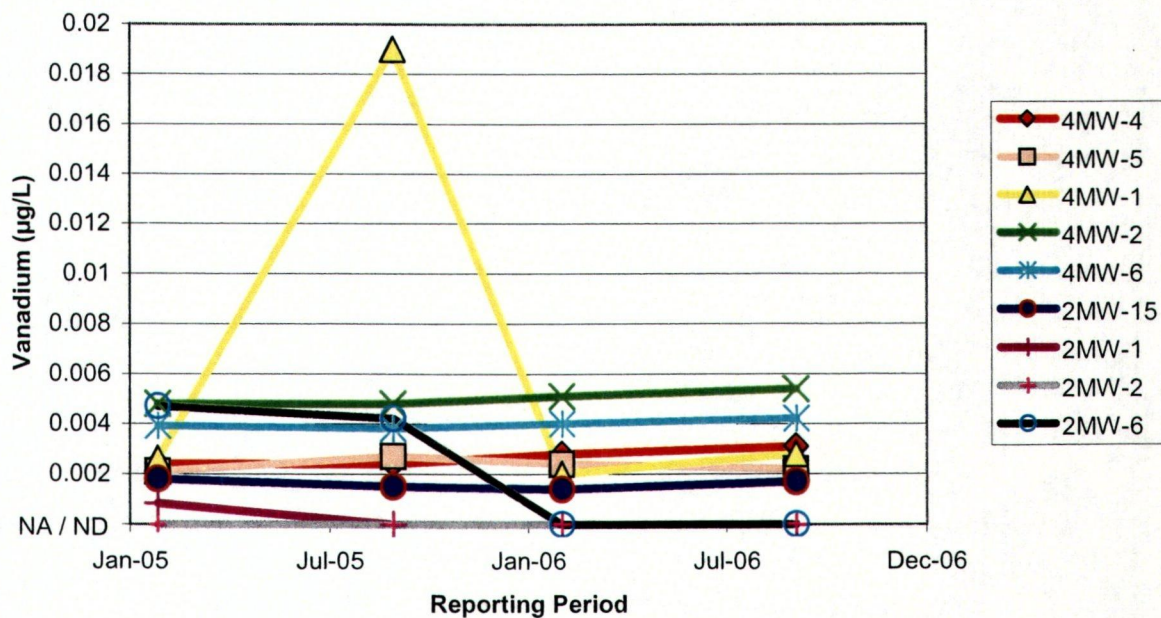


Figure 2-50: Downgradient & Background Wells - Vanadium



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-51: Detection Wells - Zinc

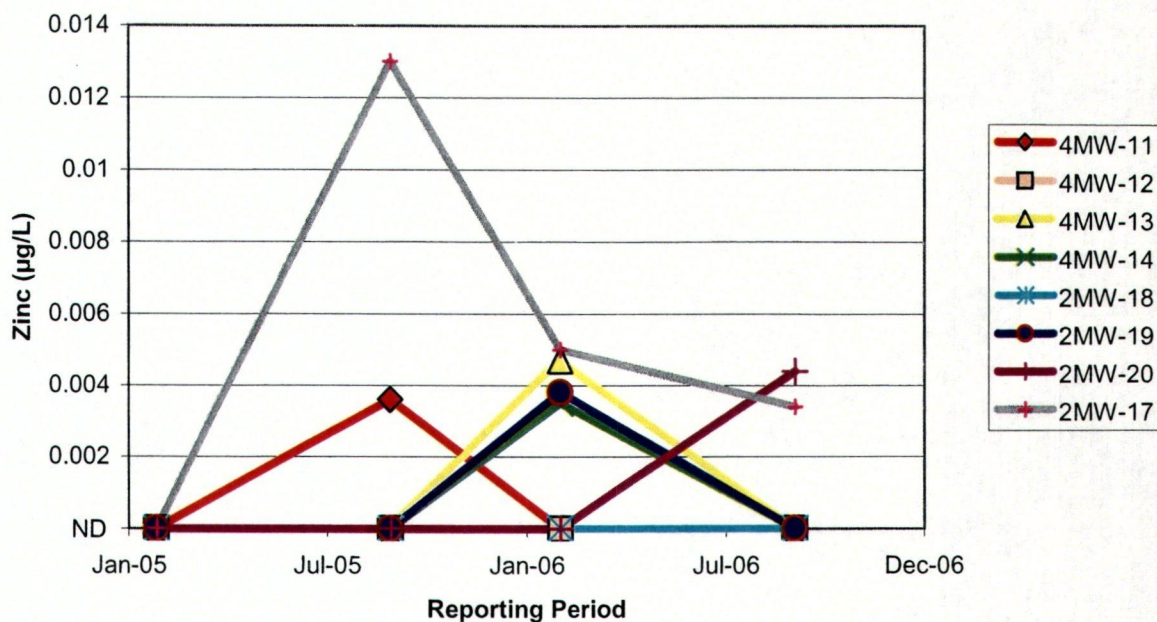
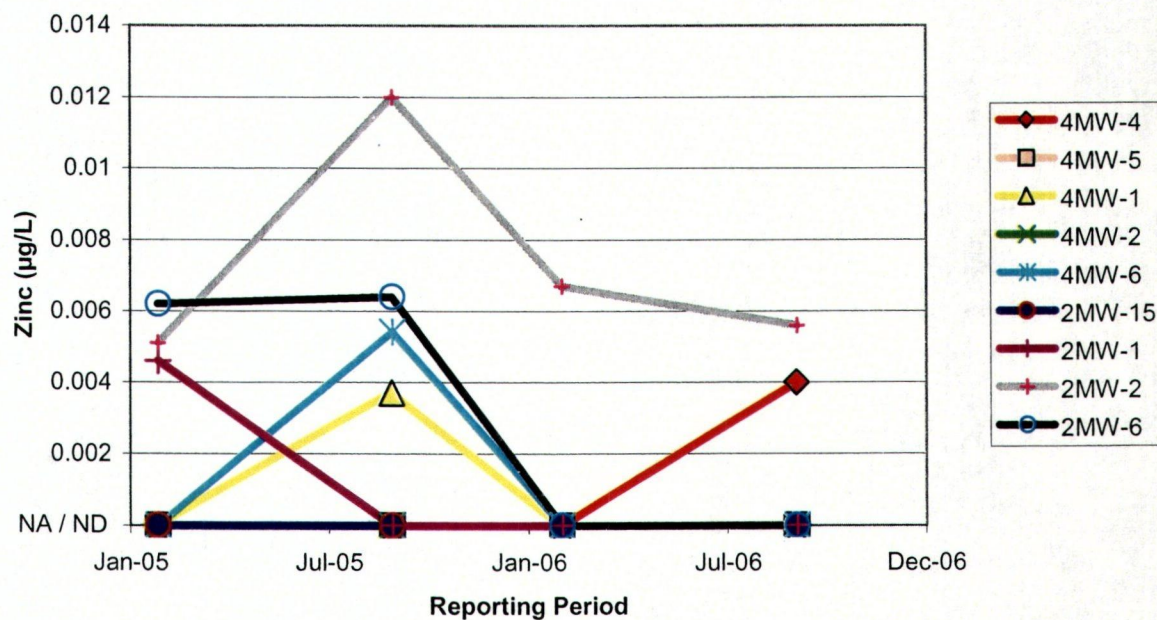


Figure 2-52: Downgradient & Background Wells - Zinc



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL

Figure 2-53: Detection Wells - Benzene

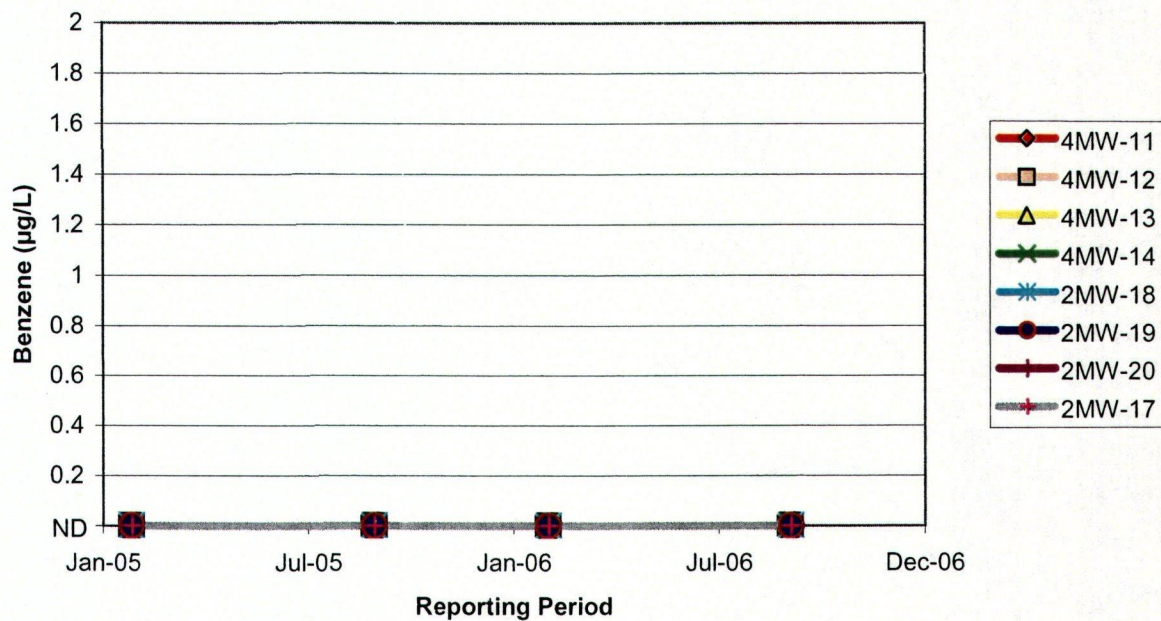
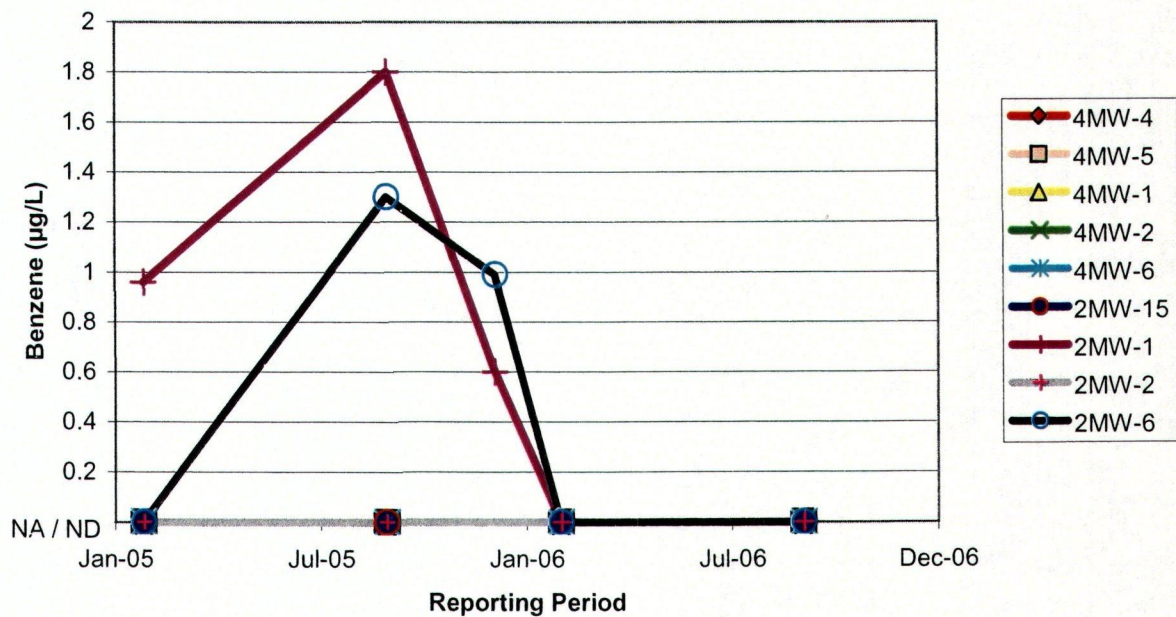
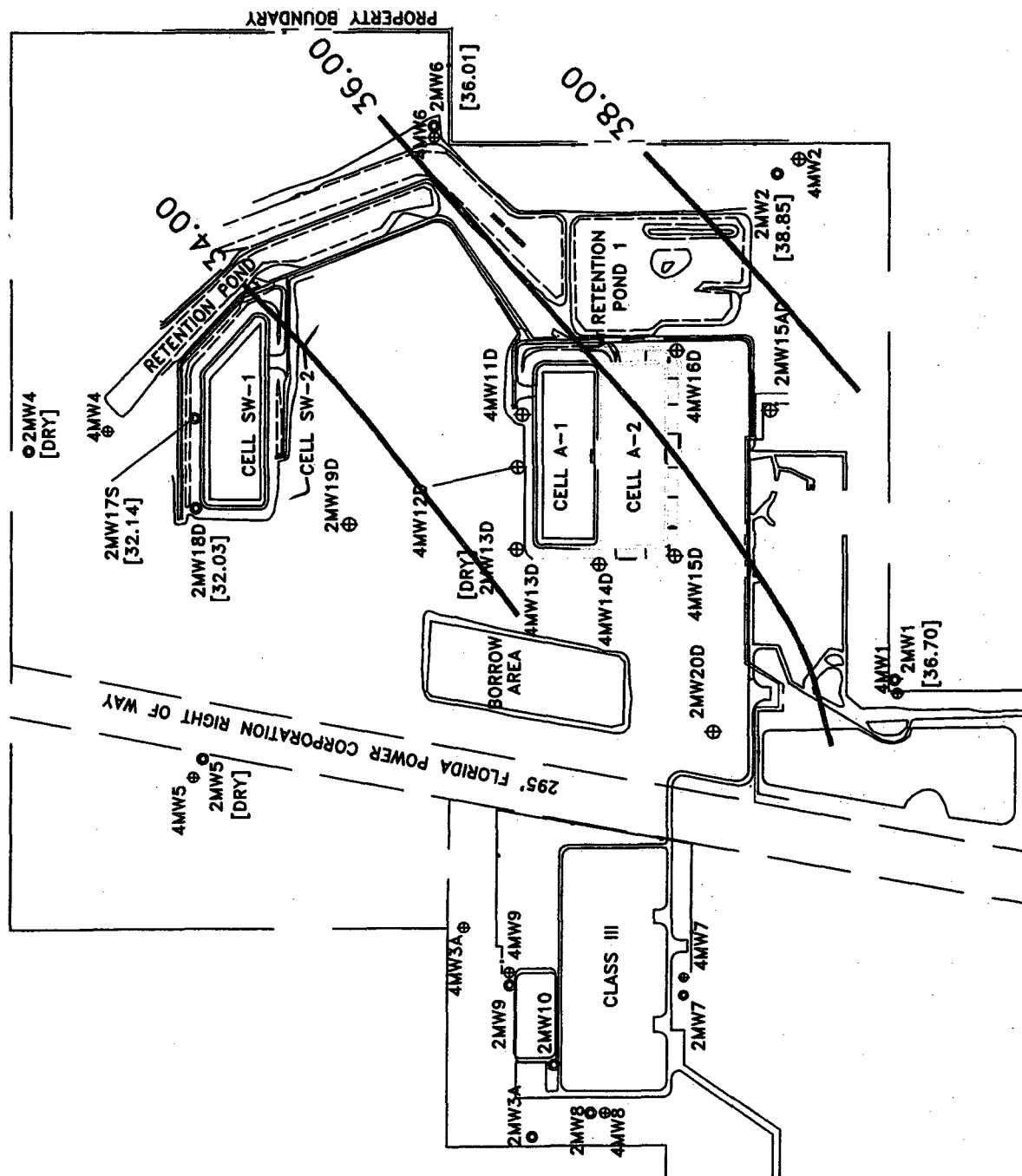


Figure 2-54: Downgradient & Background Wells - Benzene



- Notes:
1. NA represents "Not Analyzed" due to dry well conditions
  2. ND represents "Not Detected" ie, below the MDL



# **EXPLANATION**

- 4MW2 ⊕ FLORIDAN AQUIFER MONITORING WELL
- 2MW2 ⊙ SURFICIAL AQUIFER MONITORING WELL
- (4MW) 4" PVC WELL
- (2MW) 2" PVC WELL
- [36.07] GROUNDWATER ELEVATION (IN FEET, NGVD)
- 37.00- GROUNDWATER CONTOUR LINE

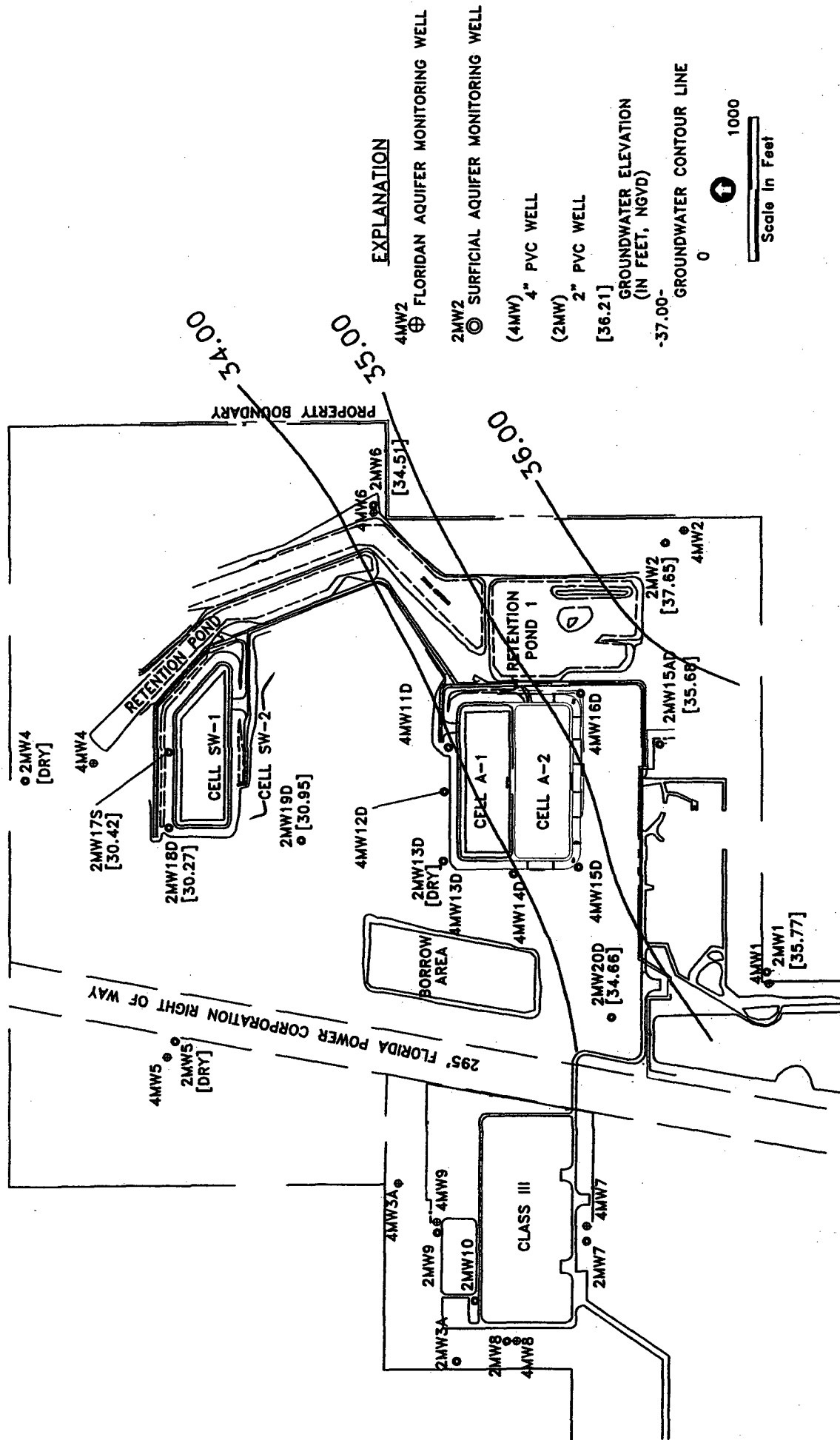


Prepared/Date: JT 02/28/05  
Checked/Date: *[Signature]* 3/1/05  
*FL Reg. No. 1398*

PASCO COUNTY RESOURCE RECOVERY FACILITY  
PASCO COUNTY  
BOARD OF COUNTY COMMISSIONERS  
UTILITY SERVICES BRANCH  
PASCO COUNTY, FLORIDA



GROUNDWATER MONITORING  
SURFICIAL AQUIFER WATER TABLE  
YEAR 2005, QUARTER I  
FEBRUARY 2005  
Project 6515-04-0147 **Figure 2-55**

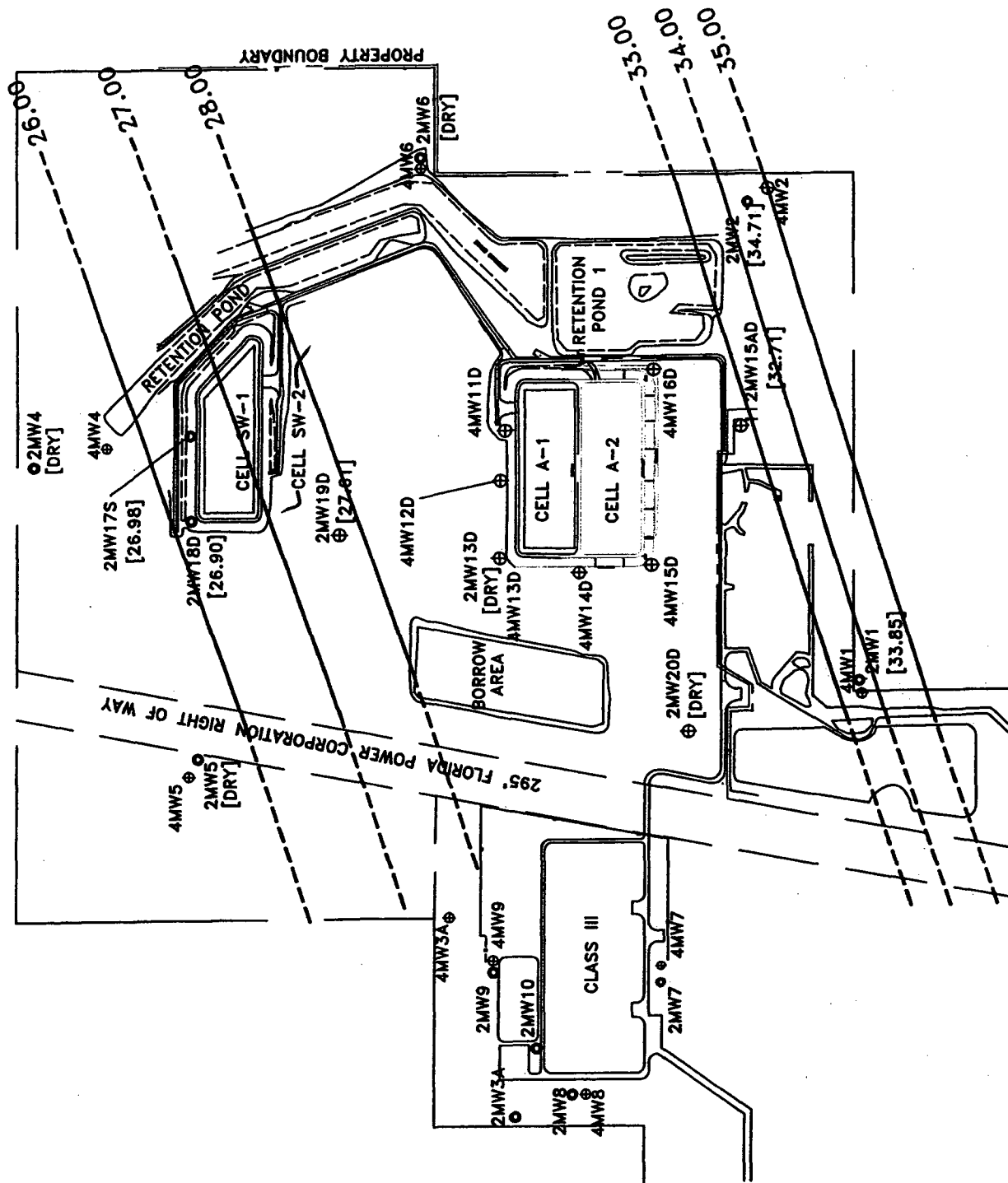


Prepared/Date: JT 11/11/05  
 Checked/Date: *cm 11/18/05*

GROUNDWATER MONITORING  
 SURFICIAL AQUIFER WATER TABLE  
 SURFACE MAP - 2" MW's  
 QUARTER III/SEPTEMBER 28, 2005  
 Project 6515-04-0147 Figure 2-56



PASCO COUNTY RESOURCE RECOVERY FACILITY  
 PASCO COUNTY  
 BOARD OF COUNTY COMMISSIONERS  
 UTILITY SERVICES BRANCH  
 PASCO COUNTY, FLORIDA



# EXPLANATION

- 4MW2
- ⊕ FLORIDAN AQUIFER MONITORING WELL
- 2MW2
- ⊙ SURFICIAL AQUIFER MONITORING WELL
- (4MW)
- 4" PVC WELL
- (2MW)
- 2" PVC WELL
- [36.21]
- GROUNDWATER ELEVATION (IN FEET, NGVD)
- 36.00-
- GROUNDWATER CONTOUR LINE
- 1 FEET - CONTOUR INTERVAL
- 0 1000
- Scale In Feet

Prepared/Date: JT 06/06/06  
Checked/Date: *cm 6/12/06*

PASCO COUNTY RESOURCE RECOVERY FACILITY  
PASCO COUNTY  
BOARD OF COUNTY COMMISSIONERS  
UTILITY SERVICES BRANCH  
PASCO COUNTY, FLORIDA



GROUNDWATER MONITORING  
SURFICIAL AQUIFER WATER TABLE  
YEAR 2006, QUARTER I  
FEBRUARY 2006  
Project 6515-04-0147 Figure 2-57

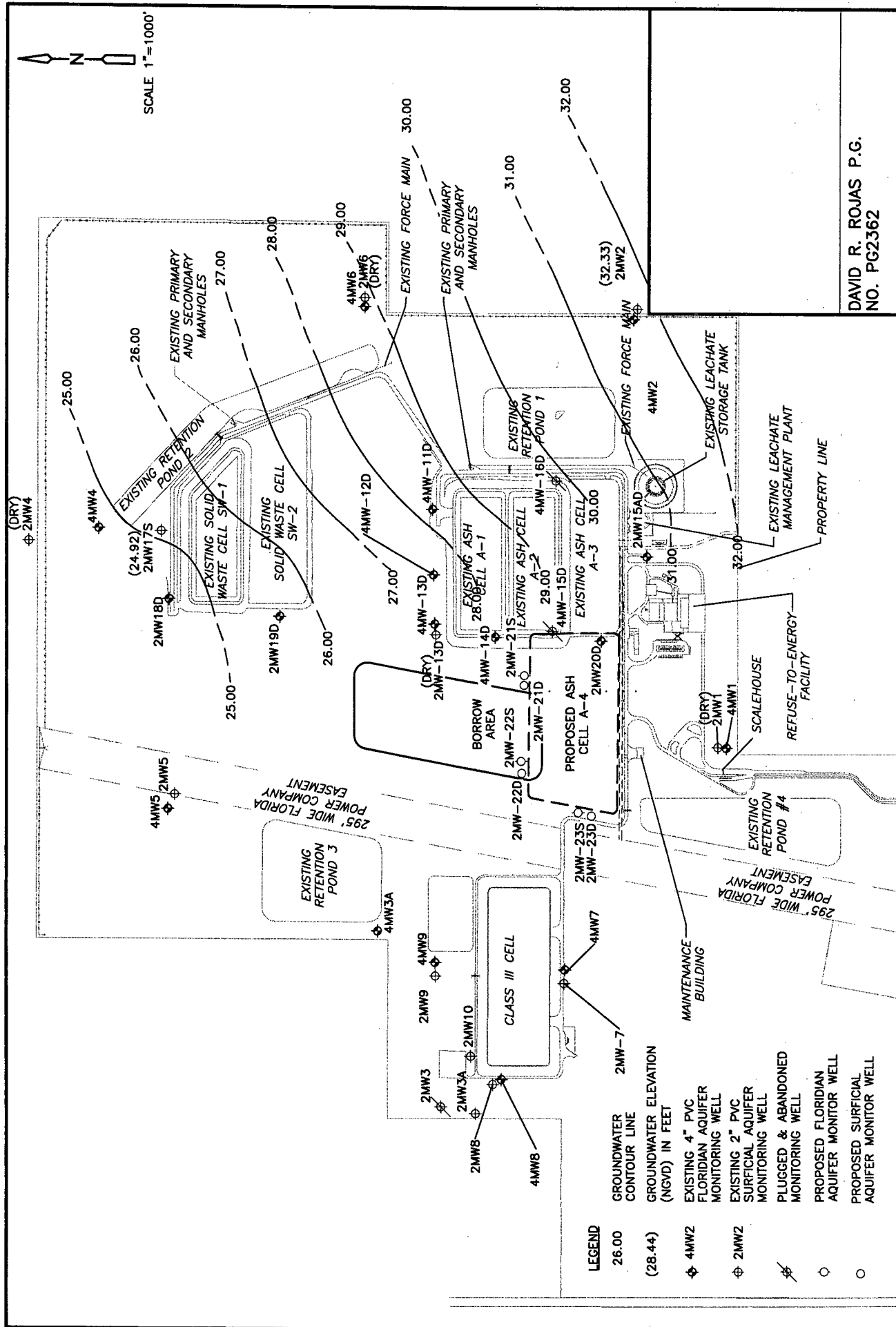
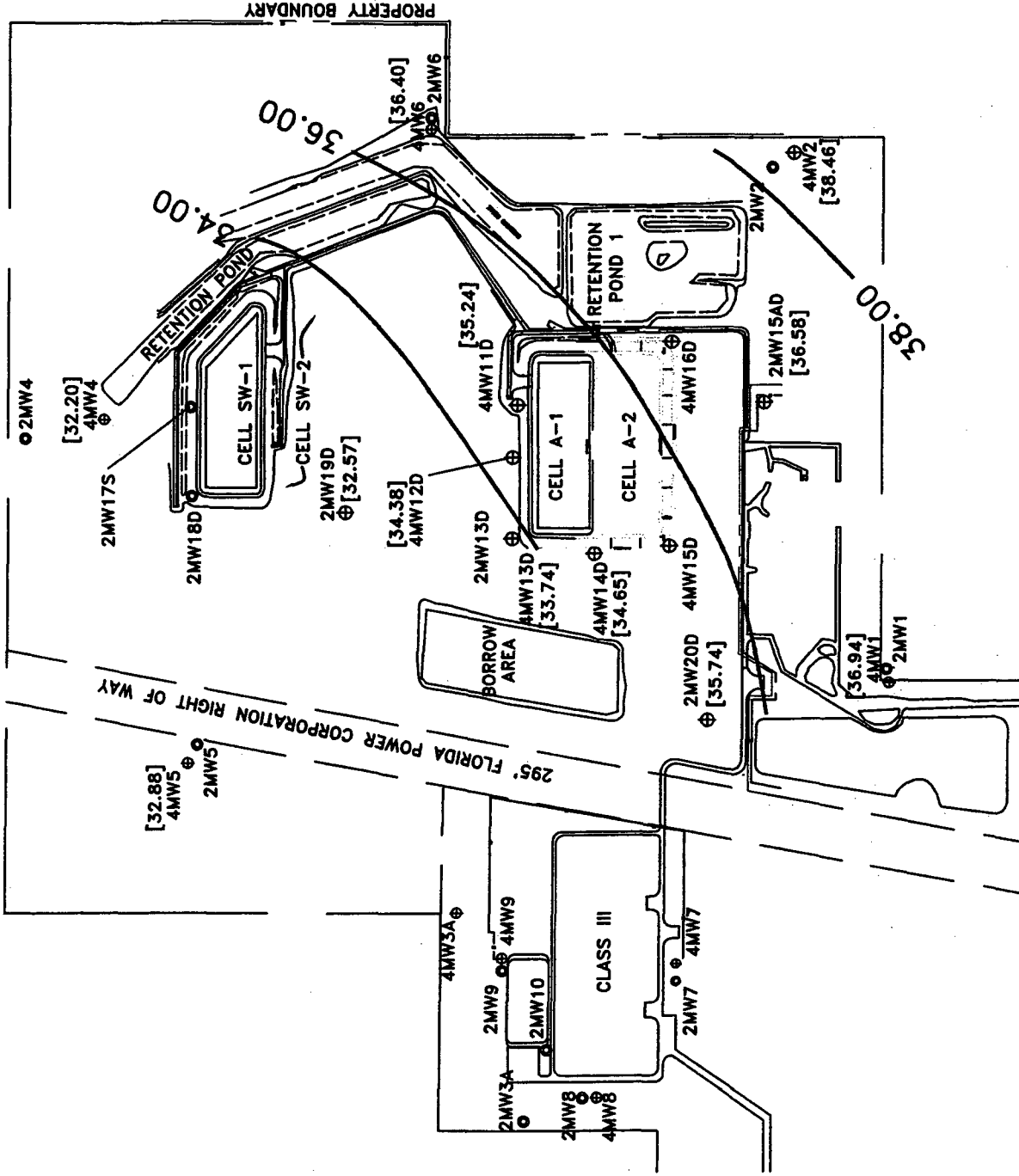


Figure 2-58  
 Surficial Aquifer Watertable  
 Based On Water Level Measurements  
 Obtained By Pasco County On  
 October 2, 2006

West Pasco Landfill And  
 Resource Recovery Facility  
 Pasco County Board Of County Commissioners  
 Utilities Services Branch, Pasco County, Florida

DAVID R. ROJAS P.G.  
 NO. PG2362



### EXPLANATION

- 4MW2 ⊕ FLORIDAN AQUIFER MONITORING WELL
- 2MW2 ⊙ SURFICIAL AQUIFER MONITORING WELL
- (4MW) 4" PVC WELL
- (2MW) 2" PVC WELL
- [36.21] GROUNDWATER ELEVATION (IN FEET, NGVD)
- 36.00- GROUNDWATER CONTOUR LINE



Prepared Date: JT 02/28/05

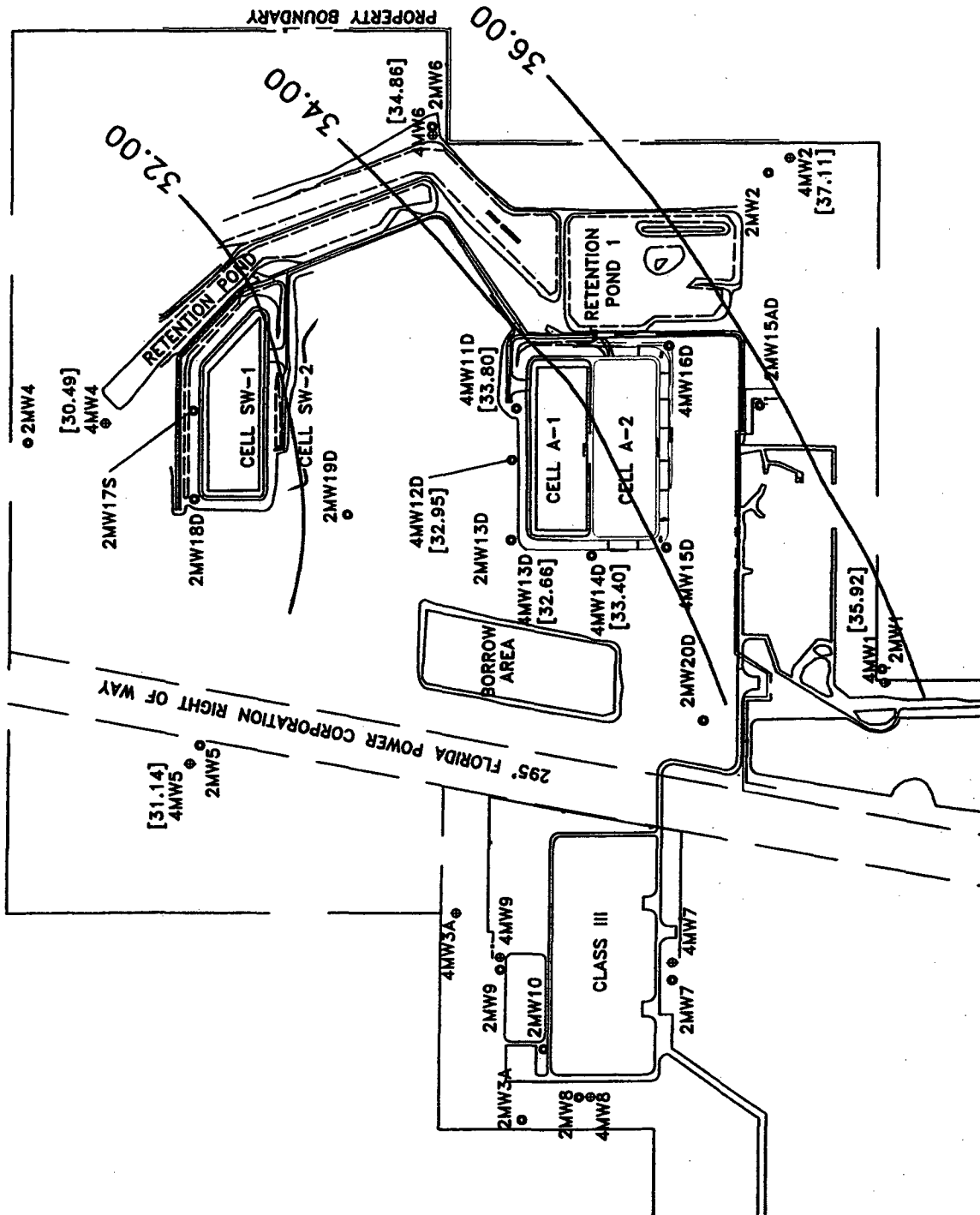
Checked Date: 3/1/05

FL Reg No. 1398

PASCO COUNTY RESOURCE RECOVERY FACILITY  
PASCO COUNTY  
BOARD OF COUNTY COMMISSIONERS  
UTILITY SERVICES BRANCH  
PASCO COUNTY, FLORIDA



GROUNDWATER MONITORING  
FLORIDAN AQUIFER  
PIEZOMETRIC SURFACE  
YEAR 2005, QUARTER I, FEB. 2005  
Project 6515-04-0147 Figure 2-59



# EXPLANATION

- 4MW2 FLORIDAN AQUIFER MONITORING WELL
- 2MW2 SURFICIAL AQUIFER MONITORING WELL
- (4MW) 4" PVC WELL
- (2MW) 2" PVC WELL
- [36.21] GROUNDWATER ELEVATION (IN FEET, NGVD)
- 37.00- GROUNDWATER CONTOUR LINE

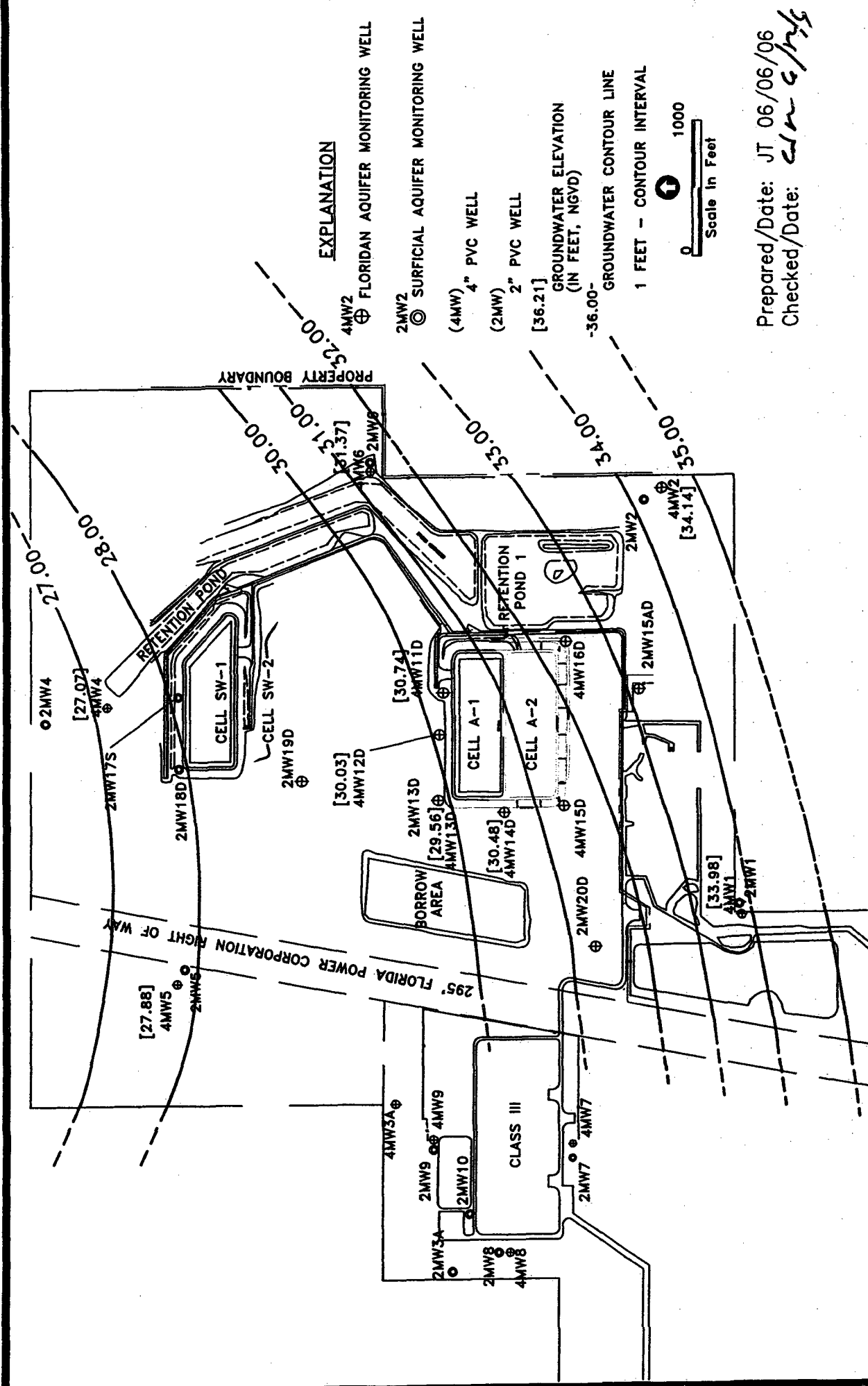
0 1000  
Scale in Feet

Prepared/Date: JT 11/11/05  
Checked/Date: *CL* 11/18/05

GROUNDWATER MONITORING  
FLORIDAN AQUIFER POTENTIOMETRIC  
SURFACE MAP - 4" MW's  
QUARTER III/SEPTEMBER 28, 2005  
Project 6515-04-0147 Figure 2-60



PASCO COUNTY RESOURCE RECOVERY FACILITY  
PASCO COUNTY  
BOARD OF COUNTY COMMISSIONERS  
UTILITY SERVICES BRANCH  
PASCO COUNTY, FLORIDA



PASCO COUNTY RESOURCE RECOVERY FACILITY  
PASCO COUNTY  
BOARD OF COUNTY COMMISSIONERS  
UTILITY SERVICES BRANCH  
PASCO COUNTY, FLORIDA

MACTEC

GROUNDWATER MONITORING  
FLORIDAN AQUIFER  
YEAR 2006, QUARTER I  
FEBRUARY 2006

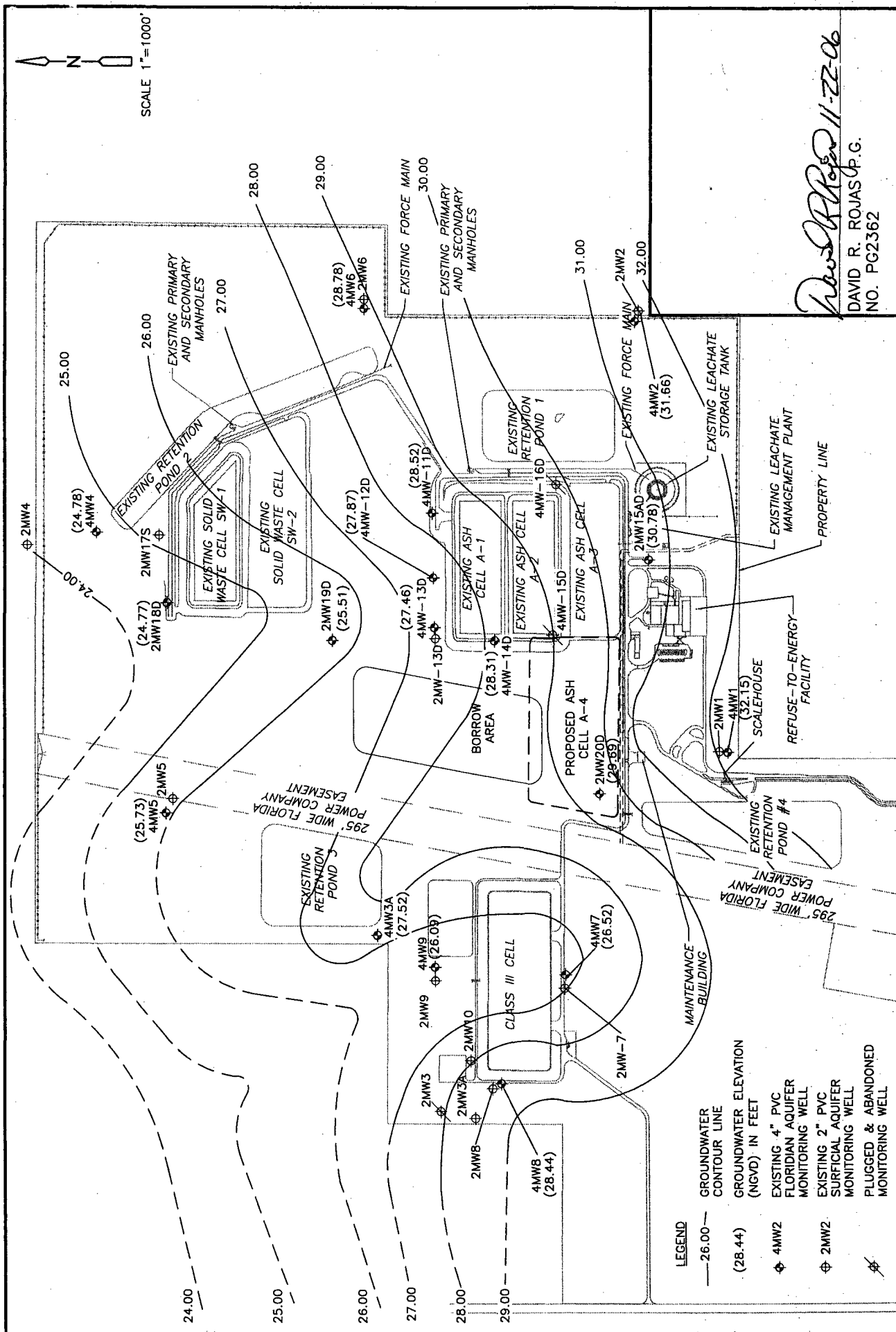
Project 6515-04-0147  
Figure 2-61

Prepared/Date: JT 06/06/06  
Checked/Date: *clm 6/15/06*

**EXPLANATION**

- 4MW2 ⊕ FLORIDAN AQUIFER MONITORING WELL
- 2MW2 ⊙ SURFICIAL AQUIFER MONITORING WELL
- (4MW) 4" PVC WELL
- (2MW) 2" PVC WELL
- [36.21] GROUNDWATER ELEVATION (IN FEET, NGVD)
- 36.00- GROUNDWATER CONTOUR LINE
- 1 FEET - CONTOUR INTERVAL





CDM

**West Pasco Class III Landfill And  
Resource Recovery Facility  
Pasco County Board Of County Commissioners  
Utilities Services Branch, Pasco County, Florida**

**Figure 2-62**  
**Florida Aquifer Groundwater Contours**  
**Based On Water Level Measurements**  
**Obtained By Pasco County On**  
**October 2, 2006**

David R. Rojas P.G.  
NO. PG2362

**Table 2-1**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 2MW-1**

Test Site ID #: 4051A16506

Well Name: **2MW-1**

Classification of Groundwater: Surficial

| parameter                   | units    | 2005       |            |                        | 2006       |            |
|-----------------------------|----------|------------|------------|------------------------|------------|------------|
|                             |          | Jan - June | July - Dec | Resample<br>July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 83         | 82         | NA                     | DRY        | DRY        |
| pH                          | s.u.     | 5.31       | 5.28       | NA                     | DRY        | DRY        |
| temperature                 | ° C      | 23.70      | 25.04      | NA                     | DRY        | DRY        |
| dissolved oxygen            | mg/l     | 0.80       | 0.91       | NA                     | DRY        | DRY        |
| turbidity                   | NTU      | 4.00       | 0.20       | NA                     | DRY        | DRY        |
| total ammonia               | mg/l     | 0.12       | 0.07       | NA                     | DRY        | DRY        |
| chlorides                   | mg/l     | 14.2       | 16.1       | NA                     | DRY        | DRY        |
| iron                        | mg/l     | 0.73       | 0.25       | NA                     | DRY        | DRY        |
| mercury                     | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| nitrate                     | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| sodium                      | mg/l     | 7.4        | 6.1        | NA                     | DRY        | DRY        |
| TDS                         | mg/l     | 62         | 130        | NA                     | DRY        | DRY        |
| Water Level                 | feet     | 36.70      | 35.77      | NA                     | DRY        | DRY        |
| arsenic                     | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| barium                      | mg/l     | 0.0068     | 0.0076     | NA                     | DRY        | DRY        |
| beryllium                   | mg/l     | 0.00011    | ND         | NA                     | DRY        | DRY        |
| cadmium                     | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| chromium                    | mg/l     | 0.00064    | 0.00070    | NA                     | DRY        | DRY        |
| cobalt                      | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| copper                      | mg/l     | ND         | 0.00077    | NA                     | DRY        | DRY        |
| lead                        | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| nickel                      | mg/l     | 0.0015     | ND         | NA                     | DRY        | DRY        |
| selenium                    | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| silver                      | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| vanadium                    | mg/l     | 0.00083    | ND         | NA                     | DRY        | DRY        |
| zinc                        | mg/l     | 0.0046     | ND         | NA                     | DRY        | DRY        |
| antimony                    | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| thallium                    | mg/l     | 0.00018    | ND         | NA                     | DRY        | DRY        |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Ethylene Dibromide          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| acetone                     | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| acrylonitrile               | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| benzene                     | ug/l     | 0.96       | 1.80       | 0.60                   | DRY        | DRY        |
| bromochloromethane          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| bromodichloromethane        | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| bromoform                   | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| bromomethane                | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 2-Butanone                  | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| carbon disulfide            | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| carbon tetrachloride        | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| chlorobenzene               | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| chloroethane                | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| chloroform                  | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| chloromethane               | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| dibromochloromethane        | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| dibromomethane              | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Ethylbenzene                | ug/l     | 0.84       | 0.62       | NA                     | DRY        | DRY        |
| 2-Hexanone                  | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| iodomethane                 | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Methylene chloride          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Styrene                     | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Tetrachloroethene           | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Toluene                     | ug/l     | 4.0        | 5.2        | NA                     | DRY        | DRY        |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Trichloroethene             | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Vinyl acetate               | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Vinyl chloride              | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Xylenes, Total              | ug/l     | 3.2        | 3.4        | NA                     | DRY        | DRY        |

**Table 2-2**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 2MW-2**

Test Site ID #: 4051A16507

Well Name: 2MW-2

Classification of Groundwater: Surficial

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 121        | 141        | 115        | 67         |
| pH                          | s.u.     | 4.88       | 5.08       | 5.08       | 5.98       |
| temperature                 | ° C      | 24.10      | 25.11      | 23.77      | 26.00      |
| dissolved oxygen            | mg/l     | 3.40       | 3.63       | 3.58       | 7.20       |
| turbidity                   | NTU      | 0.08       | 0.10       | 0.23       | 2.00       |
| total ammonia               | mg/l     | ND         | 0.13       | ND         | 0.73       |
| chlorides                   | mg/l     | 3.05       | 7.89       | 3.71       | 3.27       |
| iron                        | mg/l     | ND         | ND         | ND         | 0.01       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | 9.32       | 11.30      | 9.63       | 4.29       |
| sodium                      | mg/l     | 3.81       | 7.03       | 3.42       | 3.41       |
| TDS                         | mg/l     | 116        | 186        | 112        | 56         |
| Water Level                 | feet     | 38.85      | 37.65      | 34.71      | 32.33      |
| arsenic                     | mg/l     | ND         | ND         | ND         | ND         |
| barium                      | mg/l     | 0.09       | 0.11       | 0.11       | 0.056      |
| beryllium                   | mg/l     | 0.00027    | 0.00015    | 0.00027    | ND         |
| cadmium                     | mg/l     | ND         | 0.00062    | 0.00042    | ND         |
| chromium                    | mg/l     | ND         | 0.00089    | ND         | ND         |
| cobalt                      | mg/l     | ND         | ND         | ND         | ND         |
| copper                      | mg/l     | 0.005      | 0.009      | 0.0063     | 0.0028     |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | ND         | ND         | ND         | ND         |
| selenium                    | mg/l     | ND         | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | ND         | ND         | ND         | ND         |
| zinc                        | mg/l     | 0.0051     | 0.012      | 0.0067     | 0.0056     |
| antimony                    | mg/l     | ND         | ND         | ND         | 0.00041    |
| thallium                    | mg/l     | 0.0003     | ND         | ND         | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| Iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

**Table 2-3**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 2MW-4**

Test Site ID #: 4051A16508

Well Name: 2MW-4

Classification of Groundwater: Surficial

| parameter        | units    | 2005       |            | 2006       |            |
|------------------|----------|------------|------------|------------|------------|
|                  |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity     | umhos/cm | DRY        | DRY        | DRY        | DRY        |
| pH               | s.u.     | DRY        | DRY        | DRY        | DRY        |
| temperature      | ° C      | DRY        | DRY        | DRY        | DRY        |
| dissolved oxygen | mg/l     | DRY        | DRY        | DRY        | DRY        |
| turbidity        | NTU      | DRY        | DRY        | DRY        | DRY        |
| total ammonia    | mg/l     | DRY        | DRY        | DRY        | DRY        |
| chlorides        | mg/l     | DRY        | DRY        | DRY        | DRY        |
| iron             | mg/l     | DRY        | DRY        | DRY        | DRY        |
| mercury          | mg/l     | DRY        | DRY        | DRY        | DRY        |
| nitrate          | mg/l     | DRY        | DRY        | DRY        | DRY        |
| sodium           | mg/l     | DRY        | DRY        | DRY        | DRY        |
| TDS              | mg/l     | DRY        | DRY        | DRY        | DRY        |
| Water Level      | feet     | DRY        | DRY        | DRY        | DRY        |

**Table 2-4**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 2MW-5**

Test Site ID #: 4051A16509

Well Name: 2MW-5

Classification of Groundwater: Surficial

| parameter        | units    | 2005       |            | 2006       |            |
|------------------|----------|------------|------------|------------|------------|
|                  |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity     | umhos/cm | DRY        | DRY        | DRY        | DRY        |
| pH               | s.u.     | DRY        | DRY        | DRY        | DRY        |
| temperature      | °C       | DRY        | DRY        | DRY        | DRY        |
| dissolved oxygen | mg/l     | DRY        | DRY        | DRY        | DRY        |
| turbidity        | NTU      | DRY        | DRY        | DRY        | DRY        |
| total ammonia    | mg/l     | DRY        | DRY        | DRY        | DRY        |
| chlorides        | mg/l     | DRY        | DRY        | DRY        | DRY        |
| iron             | mg/l     | DRY        | DRY        | DRY        | DRY        |
| mercury          | mg/l     | DRY        | DRY        | DRY        | DRY        |
| nitrate          | mg/l     | DRY        | DRY        | DRY        | DRY        |
| sodium           | mg/l     | DRY        | DRY        | DRY        | DRY        |
| TDS              | mg/l     | DRY        | DRY        | DRY        | DRY        |
| Water Level      | feet     | DRY        | DRY        | DRY        | DRY        |

Table 2-5  
Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 2MW-6

Test Site ID #: 4051A16510

Well Name: 2MW-6

Classification of Groundwater: Surficial

| parameter                   | units    | 2005       |            |                        | 2006       |            |
|-----------------------------|----------|------------|------------|------------------------|------------|------------|
|                             |          | Jan - June | July - Dec | Resample<br>July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 34         | 32         | NA                     | DRY        | DRY        |
| pH                          | s.u.     | 5.99       | 5.92       | NA                     | DRY        | DRY        |
| temperature                 | ° C      | 23.40      | 28.03      | NA                     | DRY        | DRY        |
| dissolved oxygen            | mg/l     | 3.50       | 2.72       | NA                     | DRY        | DRY        |
| turbidity                   | NTU      | 71.00      | 80.00      | NA                     | DRY        | DRY        |
| total ammonia               | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| chlorides                   | mg/l     | 2.07       | 2.74       | NA                     | DRY        | DRY        |
| iron                        | mg/l     | 0.09       | 0.07       | NA                     | DRY        | DRY        |
| mercury                     | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| nitrate                     | mg/l     | 1.22       | 0.45       | NA                     | DRY        | DRY        |
| sodium                      | mg/l     | 1.53       | 1.08       | NA                     | DRY        | DRY        |
| TDS                         | mg/l     | 82         | 630        | NA                     | DRY        | DRY        |
| Water Level                 | feet     | 36.01      | 34.51      | NA                     | DRY        | DRY        |
| arsenic                     | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| barium                      | mg/l     | 0.015      | 0.012      | NA                     | DRY        | DRY        |
| beryllium                   | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| cadmium                     | mg/l     | ND         | 0.00036    | NA                     | DRY        | DRY        |
| chromium                    | mg/l     | 0.0059     | 0.0052     | NA                     | DRY        | DRY        |
| cobalt                      | mg/l     | 0.0017     | ND         | NA                     | DRY        | DRY        |
| copper                      | mg/l     | 0.0026     | 0.0018     | NA                     | DRY        | DRY        |
| lead                        | mg/l     | 0.0042     | 0.0028     | NA                     | DRY        | DRY        |
| nickel                      | mg/l     | 0.0022     | 0.0016     | NA                     | DRY        | DRY        |
| selenium                    | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| silver                      | mg/l     | ND         | ND         | NA                     | DRY        | DRY        |
| vanadium                    | mg/l     | 0.0047     | 0.0042     | NA                     | DRY        | DRY        |
| zinc                        | mg/l     | 0.0062     | 0.0064     | NA                     | DRY        | DRY        |
| antimony                    | mg/l     | 0.00089    | ND         | NA                     | DRY        | DRY        |
| thallium                    | mg/l     | ND         | 0.00016    | NA                     | DRY        | DRY        |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Ethylene Dibromide          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| acetone                     | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| acrylonitrile               | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| benzene                     | ug/l     | ND         | 1.3        | 0.99                   | DRY        | DRY        |
| bromochloromethane          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| bromodichloromethane        | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| bromoform                   | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| bromomethane                | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 2-Butanone                  | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| carbon disulfide            | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| carbon tetrachloride        | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| chlorobenzene               | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| chloroethane                | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| chloroform                  | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| chloromethane               | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| dibromochloromethane        | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| dibromomethane              | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Ethylbenzene                | ug/l     | 0.50       | 0.74       | NA                     | DRY        | DRY        |
| 2-Hexanone                  | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| iodomethane                 | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Methylene chloride          | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Styrene                     | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Tetrachloroethene           | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Toluene                     | ug/l     | 2.8        | 6.3        | NA                     | DRY        | DRY        |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Trichloroethene             | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Vinyl acetate               | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Vinyl chloride              | ug/l     | ND         | ND         | NA                     | DRY        | DRY        |
| Xylenes, Total              | ug/l     | 2.6        | 4.2        | NA                     | DRY        | DRY        |

**Table 2-6**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 2MW-13D**

Test Site ID #:

**Well Name: 2MW-13D**

Classification of Groundwater: Surficial

| parameter        | units    | 2005       |            | 2006       |            |
|------------------|----------|------------|------------|------------|------------|
|                  |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity     | umhos/cm | DRY        | DRY        | DRY        | DRY        |
| pH               | s.u.     | DRY        | DRY        | DRY        | DRY        |
| temperature      | ° C      | DRY        | DRY        | DRY        | DRY        |
| dissolved oxygen | mg/l     | DRY        | DRY        | DRY        | DRY        |
| turbidity        | NTU      | DRY        | DRY        | DRY        | DRY        |
| total ammonia    | mg/l     | DRY        | DRY        | DRY        | DRY        |
| chlorides        | mg/l     | DRY        | DRY        | DRY        | DRY        |
| iron             | mg/l     | DRY        | DRY        | DRY        | DRY        |
| mercury          | mg/l     | DRY        | DRY        | DRY        | DRY        |
| nitrate          | mg/l     | DRY        | DRY        | DRY        | DRY        |
| sodium           | mg/l     | DRY        | DRY        | DRY        | DRY        |
| TDS              | mg/l     | DRY        | DRY        | DRY        | DRY        |
| Water Level      | feet     | DRY        | DRY        | DRY        | DRY        |

**Table 2-7**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 2MW-17S**

Test Site ID #:

Well Name: **2MW-17S**

Classification of Groundwater: **Surficial**

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 130        | 276        | 234        | 231        |
| pH                          | s.u.     | 5.93       | 5.85       | 5.89       | 5.93       |
| temperature                 | ° C      | 25.20      | 27.11      | 25.60      | 25.50      |
| dissolved oxygen            | mg/l     | 0.60       | 0.70       | 0.75       | 2.00       |
| turbidity                   | NTU      | 3.10       | 4.37       | 0.30       | 4.36       |
| total ammonia               | mg/l     | ND         | 0.11       | 0.11       | 0.70       |
| chlorides                   | mg/l     | 4.69       | 7.00       | 2.53       | 4.07       |
| iron                        | mg/l     | ND         | 0.05       | 0.04       | 0.04       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | 0.93       | 11.20      | 4.58       | 3.89       |
| sodium                      | mg/l     | 1.89       | 2.70       | 2.76       | 2.70       |
| TDS                         | mg/l     | 290        | 220        | 158        | 174        |
| Water Level                 | feet     | 32.14      | 30.42      | 26.98      | 24.92      |
| arsenic                     | mg/l     | ND         | ND         | ND         | ND         |
| barium                      | mg/l     | 0.006      | 0.011      | 0.010      | 0.010      |
| beryllium                   | mg/l     | ND         | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | 0.00047    | ND         | ND         |
| chromium                    | mg/l     | 0.00088    | 0.0018     | 0.00069    | ND         |
| cobalt                      | mg/l     | ND         | ND         | ND         | ND         |
| copper                      | mg/l     | 0.0016     | 0.0061     | 0.00068    | ND         |
| lead                        | mg/l     | ND         | 0.0024     | ND         | ND         |
| nickel                      | mg/l     | ND         | ND         | ND         | 0.0017     |
| selenium                    | mg/l     | ND         | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | ND         | ND         | 0.00096    | ND         |
| zinc                        | mg/l     | ND         | 0.013      | 0.0050     | 0.0034     |
| antimony                    | mg/l     | ND         | ND         | ND         | ND         |
| thallium                    | mg/l     | ND         | ND         | ND         | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | 3.5        |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

**Table 2-8**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 4MW-1**

Test Site ID #: 4051A16511

Well Name: **4MW-1**

Classification of Groundwater: **Floridan**

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 1009       | 1044       | 741        | 872        |
| pH                          | s.u.     | 6.99       | 6.97       | 6.96       | 7.74       |
| temperature                 | ° C      | 25.20      | 24.68      | 24.31      | 25.70      |
| dissolved oxygen            | mg/l     | 0.20       | 0.44       | 0.28       | 0.48       |
| turbidity                   | NTU      | 0.10       | 0.10       | 0.12       | 1.65       |
| total ammonia               | mg/l     | ND         | 0.47       | ND         | 0.83       |
| chlorides                   | mg/l     | 196        | 226        | 129        | 181        |
| iron                        | mg/l     | ND         | ND         | ND         | 0.02       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | 1.70       | 1.74       | 0.16       | 0.29       |
| sodium                      | mg/l     | 82.2       | 87.3       | 52.2       | 89.0       |
| TDS                         | mg/l     | 700        | 768        | 540        | 574        |
| Water Level                 | feet     | 36.94      | 35.92      | 33.98      | 32.15      |
| arsenic                     | mg/l     | ND         | ND         | ND         | ND         |
| barium                      | mg/l     | 0.034      | 0.037      | 0.032      | 0.038      |
| beryllium                   | mg/l     | 0.000074   | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | 0.00037    | ND         | ND         |
| chromium                    | mg/l     | ND         | 0.00072    | ND         | ND         |
| cobalt                      | mg/l     | ND         | 0.0078     | ND         | 0.0012     |
| copper                      | mg/l     | ND         | 0.001      | 0.00074    | ND         |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | 0.0053     | 0.0042     | 0.0031     | 0.0049     |
| selenium                    | mg/l     | ND         | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | 0.0026     | 0.019      | 0.0020     | 0.0028     |
| zinc                        | mg/l     | ND         | 0.0037     | ND         | ND         |
| antimony                    | mg/l     | 0.00097    | ND         | ND         | ND         |
| thallium                    | mg/l     | ND         | 0.00016    | 0.00022    | 0.00032    |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | 2.2        | 2.4        | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

**Table 2-9**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 4MW-2**

Test Site ID #: 4051A16512

Well Name: **4MW-2**

Classification of Groundwater: Floridan

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 182        | 186        | 181        | 180        |
| pH                          | s.u.     | 7.57       | 7.40       | 7.27       | 8.03       |
| temperature                 | ° C      | 23.60      | 25.10      | 23.70      | 24.80      |
| dissolved oxygen            | mg/l     | 1.10       | 0.90       | 1.10       | 1.85       |
| turbidity                   | NTU      | 0.05       | 0.10       | 0.11       | 2.41       |
| total ammonia               | mg/l     | ND         | 0.09       | ND         | 0.10       |
| chlorides                   | mg/l     | 3.62       | 4.48       | 4.04       | 3.11       |
| iron                        | mg/l     | ND         | ND         | ND         | 0.02       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | 2.87       | 2.88       | 4.02       | 3.49       |
| sodium                      | mg/l     | 3.30       | 3.24       | 3.52       | 3.67       |
| TDS                         | mg/l     | 120        | 138        | 134        | 120        |
| Water Level                 | feet     | 38.46      | 37.11      | 34.14      | 31.66      |
| arsenic                     | mg/l     | 0.0039     | ND         | ND         | ND         |
| barium                      | mg/l     | 0.0055     | 0.0058     | 0.0063     | 0.0064     |
| beryllium                   | mg/l     | ND         | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | ND         | ND         | ND         |
| chromium                    | mg/l     | 0.00069    | ND         | ND         | 0.00071    |
| cobalt                      | mg/l     | ND         | ND         | ND         | ND         |
| copper                      | mg/l     | 0.0013     | 0.00065    | ND         | ND         |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | ND         | ND         | ND         | ND         |
| selenium                    | mg/l     | 0.0031     | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | 0.0048     | 0.0048     | 0.0051     | 0.0054     |
| zinc                        | mg/l     | ND         | ND         | ND         | ND         |
| antimony                    | mg/l     | ND         | ND         | ND         | ND         |
| thallium                    | mg/l     | ND         | ND         | ND         | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| Iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

**Table 2-10**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 4MW-4**

Test Site ID #: 4051A16513

Well Name: **4MW-4**

Classification of Groundwater: **Floridan**

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 322        | 332        | 312        | 314        |
| pH                          | s.u.     | 7.19       | 7.10       | 7.04       | 7.89       |
| temperature                 | ° C      | 25.40      | 28.11      | 24.68      | 26.00      |
| dissolved oxygen            | mg/l     | 1.10       | 1.11       | 1.06       | 2.67       |
| turbidity                   | NTU      | 0.07       | 1.09       | 0.05       | 3.93       |
| total ammonia               | mg/l     | ND         | 0.05       | ND         | 0.25       |
| chlorides                   | mg/l     | 5.97       | 16.30      | 8.96       | 9.05       |
| iron                        | mg/l     | ND         | 0.34       | ND         | 0.03       |
| mercury                     | mg/l     | 0.0008     | ND         | ND         | ND         |
| nitrate                     | mg/l     | 0.58       | 0.47       | 0.47       | ND         |
| sodium                      | mg/l     | 4.24       | 3.84       | 4.47       | 5.30       |
| TDS                         | mg/l     | 206        | 156        | 200        | 196        |
| Water Level                 | feet     | 32.20      | 30.49      | 27.07      | 24.78      |
| arsenic                     | mg/l     | ND         | ND         | ND         | ND         |
| barium                      | mg/l     | 0.0066     | 0.0064     | 0.0075     | 0.0074     |
| beryllium                   | mg/l     | ND         | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | ND         | ND         | ND         |
| chromium                    | mg/l     | 0.00093    | 0.0011     | 0.00089    | 0.00072    |
| cobalt                      | mg/l     | ND         | ND         | ND         | ND         |
| copper                      | mg/l     | 0.0012     | 0.0011     | ND         | ND         |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | ND         | ND         | ND         | ND         |
| selenium                    | mg/l     | ND         | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | 0.0024     | 0.0024     | 0.0028     | 0.0031     |
| zinc                        | mg/l     | ND         | ND         | ND         | 0.0040     |
| antimony                    | mg/l     | ND         | ND         | ND         | ND         |
| thallium                    | mg/l     | ND         | ND         | ND         | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | 3.3        |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

Table 2-11  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 4MW-5**  
 Test Site ID #: 4051A16514      Well Name: **4MW-5**      Classification of Groundwater: **Floridan**

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 579        | 586        | 537        | 558        |
| pH                          | s.u.     | 7.19       | 7.10       | 7.42       | 7.20       |
| temperature                 | ° C      | 23.80      | 26.57      | 23.47      | 25.40      |
| dissolved oxygen            | mg/l     | 0.60       | 0.62       | 1.53       | 2.00       |
| turbidity                   | NTU      | 0.03       | 0.92       | 0.21       | 0.25       |
| total ammonia               | mg/l     | ND         | 0.09       | 0.12       | 6.86       |
| chlorides                   | mg/l     | 102        | 98.6       | 46.4       | 88.9       |
| iron                        | mg/l     | ND         | ND         | 0.03       | 0.02       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | 1.69       | 1.56       | 1.43       | 0.74       |
| sodium                      | mg/l     | 24.5       | 22.7       | 23.5       | 26.5       |
| TDS                         | mg/l     | 418        | 528        | 400        | 86         |
| Water Level                 | feet     | 32.88      | 31.14      | 27.88      | 25.73      |
| arsenic                     | mg/l     | 0.003      | ND         | ND         | ND         |
| barium                      | mg/l     | 0.010      | 0.0095     | 0.011      | 0.012      |
| beryllium                   | mg/l     | 0.000098   | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | ND         | ND         | ND         |
| chromium                    | mg/l     | 0.0014     | 0.0015     | 0.0014     | 0.00073    |
| cobalt                      | mg/l     | 0.0017     | ND         | ND         | ND         |
| copper                      | mg/l     | 0.001      | 0.00076    | ND         | ND         |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | ND         | ND         | ND         | ND         |
| selenium                    | mg/l     | ND         | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | 0.0021     | 0.0027     | 0.0024     | 0.0022     |
| zinc                        | mg/l     | ND         | ND         | ND         | ND         |
| antimony                    | mg/l     | ND         | ND         | ND         | ND         |
| thallium                    | mg/l     | ND         | 0.00015    | ND         | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

Table 2-12  
Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 4MW-6

Test Site ID #: 4051A16515      Well Name: 4MW-6      Classification of Groundwater: Floridan

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 148        | 153        | 141        | 140        |
| pH                          | s.u.     | 7.54       | 7.83       | 8.74       | 7.80       |
| temperature                 | ° C      | 23.80      | 25.51      | 24.76      | 24.80      |
| dissolved oxygen            | mg/l     | 2.90       | 3.62       | 4.80       | 5.15       |
| turbidity                   | NTU      | 0.02       | 0.50       | 0.17       | 0.40       |
| total ammonia               | mg/l     | ND         | 0.04       | 0.14       | 1.86       |
| chlorides                   | mg/l     | 3.22       | 5.35       | 5.69       | 12.30      |
| iron                        | mg/l     | ND         | ND         | 0.03       | 0.01       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | 2.19       | 2.32       | 2.37       | 1.44       |
| sodium                      | mg/l     | 3.69       | 3.71       | 3.81       | 3.71       |
| TDS                         | mg/l     | 100        | 101        | 98         | 436        |
| Water Level                 | feet     | 36.40      | 34.86      | 31.37      | 28.78      |
| arsenic                     | mg/l     | ND         | ND         | ND         | ND         |
| barium                      | mg/l     | 0.0049     | 0.0053     | 0.0054     | 0.0051     |
| beryllium                   | mg/l     | ND         | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | ND         | ND         | ND         |
| chromium                    | mg/l     | 0.00098    | 0.0014     | 0.0013     | 0.00094    |
| cobalt                      | mg/l     | ND         | ND         | ND         | ND         |
| copper                      | mg/l     | 0.00059    | 0.00064    | ND         | ND         |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | ND         | ND         | ND         | ND         |
| selenium                    | mg/l     | 0.0032     | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | 0.0011     | ND         |
| vanadium                    | mg/l     | 0.0039     | 0.0038     | 0.004      | 0.0042     |
| zinc                        | mg/l     | ND         | 0.0054     | ND         | ND         |
| antimony                    | mg/l     | ND         | ND         | ND         | ND         |
| thallium                    | mg/l     | ND         | 0.00018    | 0.00014    | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

**Table 2-13**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 4MW-11D**

Test Site ID #:

**Well Name: 4MW-11D**

Classification of Groundwater: Floridan

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 284        | 278        | 268        | 275        |
| pH                          | s.u.     | 7.39       | 7.31       | 7.24       | 7.17       |
| temperature                 | ° C      | 23.20      | 24.78      | 24.48      | 24.40      |
| dissolved oxygen            | mg/l     | 0.70       | 0.95       | 1.59       | 2.44       |
| turbidity                   | NTU      | 1.40       | 4.50       | 6.90       | 0.31       |
| total ammonia               | mg/l     | ND         | 0.05       | 0.09       | 0.12       |
| chlorides                   | mg/l     | 5.61       | 7.77       | 6.95       | 6.30       |
| iron                        | mg/l     | ND         | 0.08       | 0.04       | 0.01       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | 0.44       | 0.33       | 0.41       | 0.35       |
| sodium                      | mg/l     | 4.36       | 4.22       | 4.24       | 4.24       |
| TDS                         | mg/l     | 166        | 328        | 158        | 148        |
| Water Level                 | feet     | 35.24      | 33.80      | 30.74      | 28.52      |
| arsenic                     | mg/l     | ND         | ND         | ND         | ND         |
| barium                      | mg/l     | 0.006      | 0.0055     | 0.0059     | 0.0063     |
| beryllium                   | mg/l     | ND         | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | ND         | ND         | ND         |
| chromium                    | mg/l     | ND         | 0.00088    | 0.00089    | ND         |
| cobalt                      | mg/l     | ND         | ND         | ND         | ND         |
| copper                      | mg/l     | 0.001      | ND         | ND         | ND         |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | ND         | ND         | ND         | ND         |
| selenium                    | mg/l     | ND         | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | 0.0015     | 0.0018     | 0.0012     | ND         |
| zinc                        | mg/l     | ND         | 0.0036     | ND         | ND         |
| antimony                    | mg/l     | ND         | ND         | ND         | ND         |
| thallium                    | mg/l     | ND         | 0.00015    | ND         | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

**Table 2-14**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 4MW-12D**

Test Site ID #:

Well Name: **4MW-12D**

Classification of Groundwater: **Floridan**

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 365        | 353        | 357        | 454        |
| pH                          | s.u.     | 7.15       | 7.10       | 6.94       | 6.98       |
| temperature                 | ° C      | 24.40      | 25.13      | 25.93      | 25.70      |
| dissolved oxygen            | mg/l     | 0.50       | 0.14       | 0.51       | 0.60       |
| turbidity                   | NTU      | 0.10       | 0.50       | 0.20       | 0.26       |
| total ammonia               | mg/l     | ND         | 0.06       | 0.09       | 0.09       |
| chlorides                   | mg/l     | 11.4       | 11.9       | 12.0       | 30.0       |
| iron                        | mg/l     | ND         | ND         | 0.03       | 0.01       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | 0.28       | 0.53       | 0.32       | ND         |
| sodium                      | mg/l     | 4.72       | 4.71       | 4.87       | 6.52       |
| TDS                         | mg/l     | 240        | 226        | 232        | 286        |
| Water Level                 | feet     | 34.38      | 32.95      | 30.03      | 27.87      |
| arsenic                     | mg/l     | ND         | ND         | ND         | ND         |
| barium                      | mg/l     | 0.0071     | 0.0064     | 0.0075     | 0.010      |
| beryllium                   | mg/l     | 0.00011    | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | ND         | ND         | ND         |
| chromium                    | mg/l     | ND         | ND         | ND         | ND         |
| cobalt                      | mg/l     | 0.0017     | ND         | ND         | ND         |
| copper                      | mg/l     | 0.0010     | ND         | ND         | ND         |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | ND         | ND         | ND         | ND         |
| selenium                    | mg/l     | ND         | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | ND         | 0.0010     | 0.0010     | ND         |
| zinc                        | mg/l     | ND         | ND         | ND         | ND         |
| antimony                    | mg/l     | ND         | 0.00063    | ND         | ND         |
| thallium                    | mg/l     | ND         | ND         | ND         | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

**Table 2-15**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 4MW-13D**  
 Test Site ID #: \_\_\_\_\_ Well Name: **4MW-13D** Classification of Groundwater: **Floridan**

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 469        | 477        | 455        | 458        |
| pH                          | s.u.     | 7.09       | 7.03       | 7.14       | 7.07       |
| temperature                 | ° C      | 25.50      | 27.20      | 27.08      | 26.40      |
| dissolved oxygen            | mg/l     | 0.20       | 0.41       | 0.40       | 0.50       |
| turbidity                   | NTU      | 0.09       | 0.52       | 0.75       | 0.41       |
| total ammonia               | mg/l     | ND         | ND         | 0.15       | 0.07       |
| chlorides                   | mg/l     | 36.3       | 47.8       | 43.5       | 45.1       |
| iron                        | mg/l     | ND         | 0.05       | 0.04       | 0.03       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | ND         | ND         | ND         | ND         |
| sodium                      | mg/l     | 9.01       | 8.65       | 9.65       | 10.7       |
| TDS                         | mg/l     | 340        | 296        | 312        | 306        |
| Water Level                 | feet     | 33.74      | 32.66      | 29.56      | 27.46      |
| arsenic                     | mg/l     | ND         | ND         | ND         | ND         |
| barium                      | mg/l     | 0.0087     | 0.0089     | 0.010      | 0.011      |
| beryllium                   | mg/l     | ND         | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | ND         | ND         | ND         |
| chromium                    | mg/l     | ND         | 0.00064    | ND         | 0.0011     |
| cobalt                      | mg/l     | ND         | ND         | ND         | ND         |
| copper                      | mg/l     | ND         | ND         | 0.00061    | ND         |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | 0.0015     | ND         | ND         | 0.0016     |
| selenium                    | mg/l     | ND         | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | 0.0019     | 0.0010     | 0.0017     | ND         |
| zinc                        | mg/l     | ND         | ND         | 0.0047     | ND         |
| antimony                    | mg/l     | ND         | ND         | ND         | ND         |
| thallium                    | mg/l     | ND         | ND         | ND         | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

Test Site ID #:

**Well Name: 4MW-14D**

### Classification of Groundwater: Floridan

| parameter                   | units    | Jan - June | July - Dec | Jan - June | July - Dec |
|-----------------------------|----------|------------|------------|------------|------------|
| conductivity                | umhos/cm | 466        | 448        | 416        | 411        |
| pH                          | s.u.     | 7.19       | 7.18       | 7.33       | 7.49       |
| temperature                 | ° C      | 24.60      | 25.81      | 26.40      | 26.50      |
| dissolved oxygen            | mg/l     | 0.50       | 0.57       | 0.91       | 1.60       |
| turbidity                   | NTU      | 0.50       | 0.80       | 0.45       | 0.10       |
| total ammonia               | mg/l     | ND         | 0.06       | 0.08       | 0.10       |
| chlorides                   | mg/l     | 48.9       | 59.6       | 47.4       | 46.2       |
| iron                        | mg/l     | ND         | 0.04       | 0.05       | 0.02       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | 0.48       | 0.76       | ND         | 0.22       |
| sodium                      | mg/l     | 13.6       | 12.0       | 12.7       | 12.9       |
| TDS                         | mg/l     | 332        | 392        | 284        | 278        |
| Water Level                 | feet     | 34.65      | 33.40      | 30.48      | 28.31      |
| arsenic                     | mg/l     | ND         | ND         | ND         | ND         |
| barium                      | mg/l     | 0.011      | 0.0098     | 0.011      | 0.011      |
| beryllium                   | mg/l     | 0.000074   | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | ND         | ND         | ND         |
| chromium                    | mg/l     | 0.00084    | 0.0011     | 0.00071    | 0.0012     |
| cobalt                      | mg/l     | 0.0018     | ND         | ND         | ND         |
| copper                      | mg/l     | 0.00099    | ND         | ND         | ND         |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | ND         | ND         | ND         | ND         |
| selenium                    | mg/l     | ND         | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | 0.00082    | 0.00085    | ND         | ND         |
| zinc                        | mg/l     | ND         | ND         | 0.0035     | ND         |
| antimony                    | mg/l     | ND         | ND         | ND         | ND         |
| thallium                    | mg/l     | ND         | ND         | ND         | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

**Table 2-17**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 2MW-15D**

Test Site ID #:

Well Name: **2MW-15D**

Classification of Groundwater: Floridan

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 298        | 281        | 260        | 235        |
| pH                          | s.u.     | 7.45       | 7.37       | 7.21       | 7.43       |
| temperature                 | ° C      | 24.00      | 25.11      | 24.94      | 26.00      |
| dissolved oxygen            | mg/l     | 0.30       | 0.35       | 1.79       | 1.40       |
| turbidity                   | NTU      | 0.04       | 0.34       | 0.35       | 1.78       |
| total ammonia               | mg/l     | 0.1        | ND         | 0.04       | 0.12       |
| chlorides                   | mg/l     | 19.1       | 20.0       | 10.1       | 7.26       |
| iron                        | mg/l     | ND         | 0.06       | 0.04       | 0.10       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | 0.04       | 0.03       | 0.03       | <0.02      |
| sodium                      | mg/l     | 6.08       | 5.28       | 5.39       | 4.36       |
| TDS                         | mg/l     | 140        | 210        | 170        | 154        |
| Water Level                 | feet     | 36.58      | 35.68      | 32.71      | 30.78      |
| arsenic                     | mg/l     | 0.0036     | ND         | ND         | ND         |
| barium                      | mg/l     | 0.0085     | 0.008      | 0.0085     | 0.0090     |
| beryllium                   | mg/l     | 0.000081   | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | ND         | ND         | ND         |
| chromium                    | mg/l     | ND         | ND         | 0.00078    | ND         |
| cobalt                      | mg/l     | ND         | ND         | ND         | ND         |
| copper                      | mg/l     | 0.0013     | 0.00087    | 0.0026     | ND         |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | ND         | ND         | ND         | ND         |
| selenium                    | mg/l     | ND         | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | 0.0018     | 0.0015     | 0.0014     | 0.0017     |
| zinc                        | mg/l     | ND         | ND         | ND         | ND         |
| antimony                    | mg/l     | ND         | ND         | ND         | ND         |
| thallium                    | mg/l     | 0.00028    | ND         | ND         | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

**Table 2-18**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 2MW-18D**

Test Site ID #:

Well Name: 2MW-18D

Classification of Groundwater: Surficial

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 412        | 408        | 382        | 401        |
| pH                          | s.u.     | 7.16       | 7.09       | 6.99       | 7.01       |
| temperature                 | ° C      | 23.90      | 25.02      | 24.50      | 25.40      |
| dissolved oxygen            | mg/l     | 0.70       | 0.62       | 0.59       | 1.78       |
| turbidity                   | NTU      | 3.30       | 1.42       | 0.75       | 1.11       |
| total ammonia               | mg/l     | ND         | 0.08       | 0.06       | 0.47       |
| chlorides                   | mg/l     | 33.8       | 38.0       | 28.7       | 23.5       |
| iron                        | mg/l     | 0.04       | 0.06       | 0.04       | 0.04       |
| mercury                     | mg/l     | ND         | ND         | ND         | ND         |
| nitrate                     | mg/l     | 0.41       | 0.60       | 1.13       | 3.39       |
| sodium                      | mg/l     | 8.49       | 7.64       | 8.30       | 8.13       |
| TDS                         | mg/l     | 320        | 260        | 262        | 288        |
| Water Level                 | feet     | 32.03      | 30.27      | 26.90      | 24.77      |
| arsenic                     | mg/l     | ND         | ND         | ND         | ND         |
| barium                      | mg/l     | 0.0089     | 0.008      | 0.0085     | 0.010      |
| beryllium                   | mg/l     | 0.000087   | ND         | ND         | ND         |
| cadmium                     | mg/l     | ND         | ND         | ND         | ND         |
| chromium                    | mg/l     | 0.0012     | 0.0011     | 0.00074    | 0.00068    |
| cobalt                      | mg/l     | ND         | ND         | ND         | ND         |
| copper                      | mg/l     | 0.0011     | 0.00065    | ND         | ND         |
| lead                        | mg/l     | ND         | ND         | ND         | ND         |
| nickel                      | mg/l     | ND         | ND         | ND         | ND         |
| selenium                    | mg/l     | 0.0035     | ND         | ND         | ND         |
| silver                      | mg/l     | ND         | ND         | ND         | ND         |
| vanadium                    | mg/l     | 0.0020     | 0.0025     | 0.0021     | 0.0026     |
| zinc                        | mg/l     | ND         | ND         | ND         | ND         |
| antimony                    | mg/l     | ND         | ND         | ND         | ND         |
| thallium                    | mg/l     | ND         | ND         | ND         | ND         |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | ND         | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | ND         | ND         |
| acetone                     | ug/l     | ND         | ND         | ND         | 2.7        |
| acrylonitrile               | ug/l     | ND         | ND         | ND         | ND         |
| benzene                     | ug/l     | ND         | ND         | ND         | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | ND         | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| bromoform                   | ug/l     | ND         | ND         | ND         | ND         |
| bromomethane                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | ND         | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | ND         | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | ND         | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | ND         | ND         |
| chloroethane                | ug/l     | ND         | ND         | ND         | ND         |
| chloroform                  | ug/l     | ND         | ND         | ND         | ND         |
| chloromethane               | ug/l     | ND         | ND         | ND         | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | ND         | ND         |
| dibromomethane              | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | ND         | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | ND         | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | ND         | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | ND         | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | ND         | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | ND         | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | ND         | ND         |
| iodomethane                 | ug/l     | ND         | ND         | ND         | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | ND         | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | ND         | ND         |
| Styrene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | ND         | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | ND         | ND         |
| Toluene                     | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | ND         | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | ND         | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | ND         | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | ND         | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | ND         | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | ND         | ND         |

### Classification of Groundwater: Floridan

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**Table 2-20**  
**Summary of Field Parameters and Analytical Results 2005-2006 Monitor Well: 2MW-20D**

Test Site ID #:

Well Name: 2MW-20D

Classification of Groundwater: Floridan

| parameter                   | units    | 2005       |            | 2006       |            |
|-----------------------------|----------|------------|------------|------------|------------|
|                             |          | Jan - June | July - Dec | Jan - June | July - Dec |
| conductivity                | umhos/cm | 553        | 518        | DRY        | 424        |
| pH                          | s.u.     | 7.28       | 7.24       | DRY        | 7.41       |
| temperature                 | ° C      | 23.80      | 24.51      | DRY        | 26.00      |
| dissolved oxygen            | mg/l     | 0.40       | 0.49       | DRY        | 1.90       |
| turbidity                   | NTU      | 0.20       | 0.51       | DRY        | 24.50      |
| total ammonia               | mg/l     | ND         | ND         | DRY        | 0.22       |
| chlorides                   | mg/l     | 88.9       | 83.8       | DRY        | 47.0       |
| iron                        | mg/l     | ND         | 0.03       | DRY        | 0.16       |
| mercury                     | mg/l     | ND         | ND         | DRY        | ND         |
| nitrate                     | mg/l     | 0.78       | 0.74       | DRY        | 0.41       |
| sodium                      | mg/l     | 24.4       | 19.9       | DRY        | 17.9       |
| TDS                         | mg/l     | 480        | 176        | DRY        | 318        |
| Water Level                 | feet     | 35.74      | 34.66      | DRY        | 29.69      |
| arsenic                     | mg/l     | ND         | ND         | DRY        | ND         |
| barium                      | mg/l     | 0.020      | 0.018      | DRY        | 0.022      |
| beryllium                   | mg/l     | 0.000069   | ND         | DRY        | ND         |
| cadmium                     | mg/l     | ND         | ND         | DRY        | ND         |
| chromium                    | mg/l     | ND         | 0.00076    | DRY        | 0.0082     |
| cobalt                      | mg/l     | 0.0017     | ND         | DRY        | ND         |
| copper                      | mg/l     | 0.0010     | ND         | DRY        | ND         |
| lead                        | mg/l     | ND         | ND         | DRY        | ND         |
| nickel                      | mg/l     | ND         | ND         | DRY        | 0.0026     |
| selenium                    | mg/l     | ND         | ND         | DRY        | ND         |
| silver                      | mg/l     | ND         | ND         | DRY        | ND         |
| vanadium                    | mg/l     | 0.0014     | 0.0012     | DRY        | 0.0052     |
| zinc                        | mg/l     | ND         | ND         | DRY        | 0.0044     |
| antimony                    | mg/l     | ND         | ND         | DRY        | ND         |
| thallium                    | mg/l     | ND         | ND         | DRY        | 0.00018    |
| 1,2-Dibromo-3-chloropropane | ug/l     | ND         | ND         | DRY        | ND         |
| Ethylene Dibromide          | ug/l     | ND         | ND         | DRY        | ND         |
| acetone                     | ug/l     | ND         | ND         | DRY        | ND         |
| acrylonitrile               | ug/l     | ND         | ND         | DRY        | ND         |
| benzene                     | ug/l     | ND         | ND         | DRY        | ND         |
| bromochloromethane          | ug/l     | ND         | ND         | DRY        | ND         |
| bromodichloromethane        | ug/l     | ND         | ND         | DRY        | ND         |
| bromoform                   | ug/l     | ND         | ND         | DRY        | ND         |
| bromomethane                | ug/l     | ND         | ND         | DRY        | ND         |
| 2-Butanone                  | ug/l     | ND         | ND         | DRY        | ND         |
| carbon disulfide            | ug/l     | ND         | ND         | DRY        | ND         |
| carbon tetrachloride        | ug/l     | ND         | ND         | DRY        | ND         |
| chlorobenzene               | ug/l     | ND         | ND         | DRY        | ND         |
| chloroethane                | ug/l     | ND         | ND         | DRY        | ND         |
| chloroform                  | ug/l     | ND         | ND         | DRY        | ND         |
| chloromethane               | ug/l     | ND         | ND         | DRY        | ND         |
| dibromochloromethane        | ug/l     | ND         | ND         | DRY        | ND         |
| dibromomethane              | ug/l     | ND         | ND         | DRY        | ND         |
| trans-1,4-Dichloro-2-butene | ug/l     | ND         | ND         | DRY        | ND         |
| 1,2-dichlorobenzene         | ug/l     | ND         | ND         | DRY        | ND         |
| 1,4-dichlorobenzene         | ug/l     | ND         | ND         | DRY        | ND         |
| 1,1-Dichloroethane          | ug/l     | ND         | ND         | DRY        | ND         |
| 1,2-Dichloroethane          | ug/l     | ND         | ND         | DRY        | ND         |
| 1,1-Dichloroethene          | ug/l     | ND         | ND         | DRY        | ND         |
| cis-1,2-Dichloroethene      | ug/l     | ND         | ND         | DRY        | ND         |
| trans-1,2-Dichloroethene    | ug/l     | ND         | ND         | DRY        | ND         |
| 1,2-Dichloropropane         | ug/l     | ND         | ND         | DRY        | ND         |
| cis-1,3-Dichloropropene     | ug/l     | ND         | ND         | DRY        | ND         |
| trans-1,3-Dichloropropene   | ug/l     | ND         | ND         | DRY        | ND         |
| Ethylbenzene                | ug/l     | ND         | ND         | DRY        | ND         |
| 2-Hexanone                  | ug/l     | ND         | ND         | DRY        | ND         |
| iodomethane                 | ug/l     | ND         | ND         | DRY        | ND         |
| 4-Methyl-2-pentanone        | ug/l     | ND         | ND         | DRY        | ND         |
| Methylene chloride          | ug/l     | ND         | ND         | DRY        | ND         |
| Styrene                     | ug/l     | ND         | ND         | DRY        | ND         |
| 1,1,1,2-Tetrachloroethane   | ug/l     | ND         | ND         | DRY        | ND         |
| 1,1,2,2-Tetrachloroethane   | ug/l     | ND         | ND         | DRY        | ND         |
| Tetrachloroethene           | ug/l     | ND         | ND         | DRY        | ND         |
| Toluene                     | ug/l     | ND         | ND         | DRY        | ND         |
| 1,1,1-Trichloroethane       | ug/l     | ND         | ND         | DRY        | ND         |
| 1,1,2-Trichloroethane       | ug/l     | ND         | ND         | DRY        | ND         |
| Trichloroethene             | ug/l     | ND         | ND         | DRY        | ND         |
| Trichlorofluoromethane      | ug/l     | ND         | ND         | DRY        | ND         |
| 1,2,3-Trichloropropane      | ug/l     | ND         | ND         | DRY        | ND         |
| Vinyl acetate               | ug/l     | ND         | ND         | DRY        | ND         |
| Vinyl chloride              | ug/l     | ND         | ND         | DRY        | ND         |
| Xylenes, Total              | ug/l     | ND         | ND         | DRY        | ND         |