

Pelz, Susan

From: Bayne, Bradley J [Bradley.Bayne@atkinsglobal.com]
Sent: Friday, May 20, 2011 9:57 AM
To: Pelz, Susan
Cc: Lois E. Rose
Subject: Cover Letter for Sarasota County WQMP Evaluation reports
Attachments: CoverLetter.pdf

Susan,

After sending you the Water Quality Monitoring Plan Evaluation reports for the Sarasota County CCSWDC earlier this week, we noted a typo on the cover letter (which was dated May 17, 2010). The attached, revised cover letter is provided to correct and clarify, for the record, that the actual date of the cover letter was May 17, 2011.

Thanks,

Bradley J. Bayne, PG
Senior Scientist II, HazMat/Environmental

ATKINS

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May 17, 2011

Ms. Susan Pelz, P.E.
Solid Waste Section
Florida Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

**Re: Water Quality Monitoring Plan Evaluation Report
Sarasota County Central County Solid Waste Disposal Complex
WACS ID No. SWD/58/51614
Permit No. 130542-007-SO/01**

Dear Ms. Pelz:

Enclosed please find two copies of the above-referenced report that Atkins is submitting on behalf of Sarasota County. The requirement for this report is contained within Part E, Item 11 of the modified Operation Permit. If you have any comments or questions regarding this matter, please do not hesitate to contact me by phone at 813-281-8377 or by e-mail at bradley.bayne@atkinsglobal.com.

Sincerely,



Bradley J. Bayne, P.G.
Senior Geologist
Florida P.G. No. 1733

cc: file
D. Deans, Atkins
L. Rose, Sarasota County



May 17, 2010

Ms. Susan Pelz, P.E.
Solid Waste Section
Florida Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
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Dept. Of Environmental Protection

MAY 18 2011

Southwest District

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Sincerely,

A handwritten signature in blue ink that reads "Bradley J. Bayne".

Bradley J. Bayne, P.G.
Senior Geologist
Florida P.G. No. 1733

cc: file
D. Deans, Atkins
L. Rose, Sarasota County

**Water Quality Monitoring Plan Evaluation
First Half 2007 through Second Half 2010
Sarasota County Central County Solid Waste Disposal
Complex**

**WACS ID No: SWD/58/51614
Permit No: 130542-007-SO/01**

May 2011

Prepared For:

Dept. Of Environmental Protection

MAY 18 2011

Southwest District



Sarasota County Solid Waste Operations
4000 Knights Trail Road
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Prepared By:

ATKINS

4030 W. Boy Scout Boulevard, #700
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Atkins Project #100020907

**Bradley J. Bayne
Florida P.G. #1733**

Executive Summary

This water quality report presents the results of an evaluation of the water quality and elevation monitoring network at Sarasota County's Central County Solid Waste Disposal Complex (CCSWDC), as based on the monitoring data collected during the period between 2007 and 2010.

The analytical results from the review period suggest that the CCSWDC has had an effect on the groundwater quality in the immediate vicinity. However, the most serious of these effects are likely attributed to reductive dissolution in the shallow groundwater caused solely by site development activities. There are no indications of any effects associated with a release of leachate or any type of "discharge" from the active landfill cells. A summary of the detection patterns in the water quality network is as follows:

- There were numerous inorganic analytes and several organic analytes detected in the leachate during the review period, and none of the analyte concentrations exceeded the regulatory criteria.
- In the groundwater, there were numerous inorganic detections and very infrequent organic detections. The only analytes that were consistently detected at concentrations in excess of the regulatory criteria in most of the monitoring wells were pH, ammonia, arsenic, iron, and TDS. The detection patterns with all of these analytes were very consistent throughout the review period, in that, in general, the exceedances occurred at the same well locations.
- The following additional constituents were detected sporadically in the new monitoring wells (MW-15 through MW-20) at concentrations in excess of the regulatory criteria: aluminum, chloride, lead, manganese, sodium, sulfate, and vanadium. Elevated aluminum was found only at MW-17 and MW-19. Elevated chloride and sodium were found only at MW-16, and elevated manganese and sulfate were found only at MW-15. Elevated concentrations of lead and vanadium occurred only during the First Half of 2010 at MW-20; these constituents were found at concentrations less than the regulatory criteria during the Second Half of 2010. Some of these constituents are also detected in the nearby compliance wells. These additional constituents will continue to be monitored to determine any pattern or cause associated with their occurrences.
- Three analytes, fecal coliform, mercury, and zinc, were detected in the surface water at concentrations in excess of the regulatory criteria during the review period, and fecal coliform was the only constituent that was consistently detected.

The most significant detections in the water quality monitoring network during the review period were arsenic, ammonia, and iron in the groundwater. These constituents, along with pH, have been investigated as part of three significant studies conducted at this facility between 2008 and 2010. The conclusions of these studies are that reductive dissolution of groundwater in the surficial aquifer is causing the elevated concentrations of iron, arsenic, and ammonia, which are

found naturally in the soils at the site. The cause of the reductive dissolution phenomena appears to be associated with development of the landfill site. Reductive dissolution conditions are found throughout the areas of the site where fill material has been placed and the natural environment has been significantly altered. However, the reductive dissolution phenomena appear to be especially enhanced in the vicinity of the areas where a liner has been placed (currently the Phase I and Phase II sections of the landfill).

Based on the findings of this evaluation, the water quality and elevation monitoring network at the CCSWDC appears to be adequate in meeting the objectives of the monitoring program. It is our opinion that the surface water sampling locations may not be truly representative of contributions to surface water quality caused by the landfill. Since the surface water sampling locations also receive runoff from current and former cattle raising activities, consideration should be given to determining if other surface water sampling locations would better represent contributions more representative of the landfill proper.

Due to the lack of any significant detections of organic constituents in either the groundwater or surface water samples, it is also recommended that the frequency of sampling for organics in the groundwater and the surface water can be reduced from semi-annually to annually.

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1.0 Introduction

1.1 Background

This water quality report presents the results of an evaluation of the water quality and elevation monitoring network at Sarasota County's Central County Solid Waste Disposal Complex (CCSWDC), as based on the monitoring data collected during the period between 2007 and 2010 (inclusive). The CCSWDC facility operates under Permit Number 130542-007-SO/01, which is on file with the Florida Department of Environmental Protection (FDEP).

1.1.1 Water Quality Monitoring Network and Program

The CCSWDC is a lined landfill, which has five cells in the Phase I portion and four cells in Phase II. Landfill leachate is collected by a leachate collection system. Part E of the facility's permit stipulates that the water quality program involves monitoring of the leachate, gas condensate, surface water, and the groundwater in the surficial (or shallow) aquifer. The monitoring network consists of the following components:

- The leachate samples are collected from pump valve boxes at each active cell. The original Phase I portion of the landfill contains five cells. The recently-constructed Phase II portion of the landfill has four cells, but only one leachate monitoring location is currently required for Phase II.
- Groundwater samples are collected from a network of monitoring wells around the landfill. The current monitoring well network consists of ten shallow wells, designated MW-1R, MW-8A, MW-9, MW-10R, MW-15, MW-16, MW-17, MW-18, MW-19, and MW-20. MW-15 through MW-20 are located around the recently-constructed Phase II portion of the landfill. MW-13 was present to the south of the Phase I area in 2007, but it had been abandoned by 2008. MW-11R and MW-12R were sampled as part of the monitoring well network through 2008, but they were abandoned during construction of Phase II in 2009. All of the wells are screened within the shallow (surficial) aquifer. MW-1R is designated by the permit as a background well, and the other wells are detection wells.
- There are two piezometers, which are designated MW-3 and MW-5. There are also seven compliance wells (CW-8A, CW-9, CW-10R, CW-15, CW-16, CW-19, and CW-20), which are sampled at the same time as the detection wells. However, analytical data from the compliance wells are not required as part of this monitoring plan evaluation. The groundwater monitoring wells, compliance wells, piezometers, and surface water staff gauges are used to measure the elevation of the water table.
- The surface water samples are collected from two points (one upstream and one downstream) along the Old Cow Pen Slough, immediately west of the landfill.

- A sample of the condensate from the landfill gas collection system is collected from the condensate sump. Condensate sample collection is annually.

A summary of the components that comprise the water quality network is presented in Table 1-1 and a summary of the components that comprise the water elevation network is presented in Table 1-2. The layout of the CCSWDC site, including the current well locations, leachate sampling locations, and condensate sampling location, is illustrated in Figure 1.

The facility's operating permit calls for the collection of leachate, groundwater, and surface water samples from the facility's water quality network on a semiannual basis. The leachate samples are analyzed for the parameters listed in the State guidelines for Solid Waste Management Facilities, Rule 62-701.510 (8)-62-701.510 (9) of the Florida Administrative Code (FAC). The groundwater and surface water samples are analyzed for the parameters listed in Appendix I of 40 Code of Federal Regulations (CFR) Part 258, in addition to the parameters listed in the permit. Condensate samples are collected for analysis on an annual basis.

Sample collection for the sampling events during the review period was performed by Sarasota County staff and consultants. The samples were analyzed by various laboratories, including Pace Analytical Services, ENCO, and ELabs. Copies of the certificates of laboratory reports for all of the sampling events are on file with the FDEP.

1.2 Objectives

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

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

2.0 Water Quality Analytical and Elevation Data Summary

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

2.1 Water Quality Data Summary

2.1.1 Leachate Analytical Data Summary

Leachate analytical data were available for the following semiannual sampling events during the review period:

- First Half 2007
- Second Half 2007
- First Half 2008
- Second Half 2008
- First Half 2009
- Second Half 2009
- First Half 2010
- Second Half 2010

Summaries of the leachate analytical results for each event are presented in Tables 2-1 through 2-8 and are described below.

Parameters that were consistently detected in the leachate samples during the period of review were inorganic constituents, including antimony, arsenic, barium, bicarbonate alkalinity, chloride, chromium, cobalt, copper, iron, lead, magnesium, nickel, nitrate, potassium, sodium, sulfide, total ammonia-N, tin, total dissolved solids (TDS), vanadium, and zinc. Several organic constituents, including 3&4 methylphenol, 2-methylphenol, bis(2-ethylhexyl)phthalate, diethylphthalate, naphthalene, 1,2-dichloroethane, 1,4-dichlorobenzene, 2-butanone, acetone, benzene, ethylbenzene, toluene, and xylene, were consistently detected in the leachate. Other organic constituents, such as 1-methylnaphthalene, 2-methylnaphthalene, 2-naphthylamine, 3,3-dichlorobenzidine, acetophenone, acetonitrile, benzyl alcohol, cis-1,2-dichloroethene, di-N-butylphthalate, ortho-toluidine, silvex, and styrene were detected in the leachate during the review period on a less frequent basis.

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

2.1.2 Groundwater Analytical Data Summary

Groundwater analytical results were available for every semi-annual sampling event during the review period. A summary of the groundwater analytical results for each event is presented in Tables 2-9 through 2-16. It should be noted that the extended lists of EPA Method 8081, 8082, 8141, 8151, 8260, and 8270 parameters were sampled for most of the existing monitoring wells on two occasions during the review period (First Half 2008 and Second Half 2010).

The only organic parameters that were detected in the groundwater monitoring network during the review period were acetone, carbon disulfide, 1,2-dichlorobenzene, tetrachloroethene, toluene, and total xylenes. Acetone was the only organic constituent that was detected on a relatively frequent basis. These constituents were detected at very low concentration that did not approach their Maximum Contaminant Levels (MCLs). Endrin aldehyde was detected once during the review period at a very low concentration (at MW-16 in 2010); it does not have an MCL. Due to the very low concentrations of these organic constituents, it is suggested that a reduction in sampling frequency for organics may be warranted at this site.

There were numerous inorganic constituents detected in the monitoring well network during every sampling event. All of the parameters were compared to their respective MCL or Secondary Drinking Water Standards (SDWSs) in accordance with the Florida statutes. Chapter 62-550 of the Florida Administrative Code (FAC) promulgates the MCLs and SDWSs for Drinking Water Standards, Monitoring, and Reporting. Not every parameter has an MCL or SDWS. The parameters that were detected at concentrations in excess of the regulatory criteria are shaded in the analytical summary tables. Thirteen parameters - pH, aluminum, ammonia, antimony, arsenic, chloride, iron, lead, manganese, sodium, sulfate, TDS, and vanadium - were detected at least once during the review period at concentrations in excess of the regulatory criteria. A description of the detection patterns for each of these parameters is presented below.

pH – pH has a SDWS which is any reading within of the range of 6.5 to 8.5. The pH reading at all of the wells was lower than the prescribed range at least once during the review period, and it was consistently lower than the SDWS at wells MW-8A, MW-9, MW-10R, MW-15, MW-16, MW-17, MW-18, and MW-19.

Aluminum – Aluminum has a SDWS of 200 micrograms per liter (µg/l). Aluminum was detected at concentrations greater than the SDWS at MW-19 during both sampling events at that well (in 2010). It was detected in MW-17 once during 2010 at a concentration greater than the SDWS.

Ammonia – Ammonia has an MCL of 2.8 milligrams per liter (mg/l). The concentration of ammonia (as nitrogen) consistently exceeded the standard at wells MW-8A, MW-9, MW-10R, MW-15, MW-16, MW-17, and MW-19. The MCL for nitrogen was exceeded during one sampling event at MW-20 also.

Antimony - Antimony has an MCL of 6 µg/l. Antimony was detected at a concentration greater than its MCL only once during the review period. This occurred at MW-11R during the First Half of 2008. This well was abandoned in 2009.

Water Quality Analytical and Elevation Data Summary

Arsenic – Arsenic has an MCL of 10 µg/l. The concentration of arsenic consistently exceeded the standard at wells MW-8A, MW-9, MW-10R, MW-15, MW-16, MW-17, MW-19, and MW-20. Arsenic was also occasionally detected at the background well, MW-1, during the review period, but it only exceeded the MCL during one sampling event (First Half 2007).

Chloride – Chloride has an SDWS of 250 mg/l. The chloride concentration was higher than the SDWS at MW-16 during both sampling events in 2010. It was also higher than the standard at MW-1R during one sampling event during the review period (First Half 2007).

Iron - Iron was detected at concentrations in excess of the SDWS of 300 µg/l at every well in the monitoring network, including the background well (MW-1R), throughout the review period.

Lead – Lead has an MCL of 15 µg/l. Lead was detected at a concentration greater than its MCL only once during the review period. This occurred at MW-20 during the First Half of 2010.

Manganese - Manganese has a SDWS of 50 µg/l. Manganese was detected at concentrations greater than the SDWS at MW-15 during both sampling events at that well (in 2010).

Sodium – Sodium has an SDWS of 160 mg/l. The sodium concentration was higher than the SDWS at MW-16 during both sampling events in 2010. It was also higher than the standard at MW-1R and MW-12R during one sampling event during the review period (First Half 2007 and First Half 2008, respectively).

Sulfate – Sulfate has an SDWS of 250 mg/l. The sulfate concentration was higher than the SDWS at MW-15 during both sampling events in 2010. It was also higher than the standard at MW-12R during one sampling event during the review period (First Half 2008).

TDS – TDS has an SDWS of 500 mg/l. The TDS concentrations at MW-8A, MW-9, MW-10R, MW-12R, MW-15, MW-16, MW-17, MW-18, and MW-20 consistently exceeded the standard throughout the review period. The TDS concentration also exceeded the standard at MW-19 during the First Half of 2010.

Vanadium – Vanadium has an MCL of 49 µg/l. Vanadium was detected at a concentration greater than its MCL only once during the review period. This occurred at MW-20 during the First Half of 2010.

During the review period from 2007 through 2010, at the direction of the FDEP, Sarasota County conducted three significant investigations into the potential causes of the low pH and the elevated concentrations of ammonia, arsenic, and iron in the groundwater at this site. Elevated concentrations of these constituents appeared to consistently occur at the same monitoring wells.

A Contamination Evaluation Report was completed in October 2008, a Site Assessment Report was completed in July 2009, and a Natural Attenuation with Monitoring Plan was completed in September 2010. All of these investigations resulted in the conclusion that reductive dissolution of naturally-occurring iron and arsenic in the site's soils was likely caused by on-site development activities. These reports are on file with the FDEP, and the FDEP is aware of the County's efforts to investigate and potentially mitigate the conditions leading to the elevated concentrations of ammonia, arsenic, and iron in the groundwater at this facility.

2.1.3 Surface Water Analytical Data Summary

Surface water analytical data were available for the following semi-annual sampling events during the review period:

- Second Half 2008
- Second Half 2009
- First Half 2010
- Second Half 2010

Summaries of the surface water analytical results are presented in Tables 2-17 through 2-20.

Carbon disulfide was the only organic constituent detected in the surface water samples collected during the review period. It was detected only during the Second Half of 2008, and the concentrations were well below its Surface Water Quality standard. Due to the general lack of detected organic constituents in the surface water samples, consideration should be given to reducing the sampling frequency for organics.

There were numerous inorganic constituents detected in the surface water samples throughout the review period, including arsenic, barium, calcium, copper, iron, mercury, nitrate, nitrite, potassium, sodium, TDS, phosphorus, vanadium, and zinc. The concentrations of all of the constituents that were detected in the surface water were compared to their respective Surface Water Quality standards for Class III Fresh Water as a relative measure of the water quality. The Surface Water Quality standards are promulgated in Chapter 62- 302, FAC.

The only parameter that was consistently detected in excess of its standard was fecal coliform. Fecal coliform was detected at concentrations greater than the standard in all samples collected during 2008, 2009, and the Second Half of 2010. It should be noted that the surface water sampling locations within Old Cow Pen Slough are downstream of an extensive watershed that includes current and former cattle raising areas. The landfill area actually represents only a small portion of the area drained by Old Cow Pen Slough, and the surface water contributions at the sampling locations also represent a wide area to the north and northwest of the landfill proper.

During the First Half of 2010, the concentrations of mercury and zinc from sample B-2 were greater than their Surface Water Quality standards. However, the mercury sample was re-analyzed, and the resulting mercury concentration was reported as less than the Surface Water Quality standard.

2.1.4 Condensate Analytical Data Summary

Gas condensate analytical data were available for the following annual sampling event during the review period:

- Second Half 2010

The gas condensate analytical results are presented in Table 2-21.

Parameters that were detected in the gas condensate sample during the period of review included ammonia, arsenic, calcium, iron, mercury, nitrite, and TDS. The concentration of every parameter that was detected in the gas condensate was compared to the regulatory levels listed in 40 CFR Part 261.24, as promulgated by the Florida solid waste regulations. A standard has not been established for every parameter. None of the parameter concentrations detected in the gas condensate sample exceeded their respective regulatory level.

2.2 Water Elevation Data Summary

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

3.0 Water Quality Evaluation

3.1 Water Quality Trends

This section presents an evaluation of the general analytical data trends, statistical analysis of any prominent trends, comparisons of parameters, and a comparison of the background monitoring well data with the data from the downgradient monitoring wells.

3.1.1 General Detection Pattern

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

Leachate and Gas Condensate

There were no parameters detected in the leachate or gas condensate at concentrations in excess of the regulatory criteria during the review period. The detection patterns of most of the parameters that were detected in the leachate were present at the same general concentration range during every sampling event of the review period. The gas condensate was sampled only once during the reporting period.

Groundwater

The detection patterns for the five parameters that were regularly detected in the groundwater at concentrations in excess of their MCLs or SDWSs – pH, ammonia, arsenic, iron, and TDS – were within the same general magnitude throughout the review period. They were detected at the same locations in the monitoring network at comparable relative concentrations. To better illustrate the detection patterns with these analytes, their concentrations from each sampling event were plotted on graphs to demonstrate the changes in concentration over time. Graphs are provided for monitoring wells MW-1R, MW-8A, MW-9, and MW-10R. Monitoring wells MW-4R and MW-13 were abandoned in 2007, and MW-11R and MW-12R were abandoned in early 2009, so graphs are not provided for these wells. Monitoring wells MW-15 through MW-20 have had only two sampling events during the review period; graphs are not provided for those wells either. The graphs are presented in Appendix A. A summary of the findings is presented below.

pH – With exception of a few sampling events, such as MW-4R during the first half 2007, the pH readings at all of the wells stayed within a very narrow range throughout the review period. Most of the wells (except MW-1R) had pH values between 6.0 – 6.5.

Ammonia – Ammonia concentrations were consistently higher than 5 mg/l throughout the review period at MW-8A, MW-9, and MW-10R. There appeared to be a slight increasing trend at MW-8A and MW-9 from late 2008 through 2010.

Arsenic – The pattern with arsenic varied the most at those wells where the concentrations were consistently highest. Concentrations of arsenic were relatively steady at MW-10R, but a slight decreasing trend was noted at MW-8A and MW-9 at the end of the reporting period.

Iron – Similar to arsenic, the pattern with iron varied the most at those wells where the concentrations were consistently the highest. Iron concentrations were relatively steady at MW-9 and MW-10R, but the iron concentration peaked at its highest level (130,000 ug/l) in MW-8A during 2008 and 2009.

TDS – A dramatic reduction in the TDS concentration was noted at MW-1R after early 2007. The TDS concentrations at MW-8A, MW-9, and MW-10R were consistently within a relatively narrow range, generally between 800 – 1,000 mg/l.

Surface Water

The analytes which were detected in the surface water at concentrations in excess of the State standards during the review period were fecal coliform, mercury, and zinc. The elevated concentrations of mercury and zinc at location B-2 were a one-time event. Fecal coliform concentrations at sampling location B-4-R varied widely during the review period, but a generally decreasing trend was observed. Surface water samples from sampling location B-2 were not reliably available during each sampling event.

3.1.2 Trend Analysis

The statistical trends in the groundwater analytical data for all of the parameters listed in the section above were evaluated using the Seasonal Kendall Test for Trend (Helsel et al 2006). The line graphs are presented in Appendix A, which allow for visualizing the trends.

The Kendall Tau and the seasonal Kendall Tau tests are nonparametric statistical tests widely used to analyze data for trends where normality cannot be assumed. These methods can be used to determine whether data values are increasing, declining, or remaining relatively level over time. This is accomplished by computing a statistic (Tau) based on the differences among all possible data pairs, thus representing the net direction of movement of the time-series data. The number of positive differences minus the number of negative differences is then determined and this is used to calculate the Mann-Kendall Tau statistic. If the time-series data are systematically increasing (or decreasing) over time, then the resulting computed Tau statistic will be a relatively large positive (or negative) value. If, however, the change over time is negligible, then the number of positive pairs and the number of negative pairs will be approximately equal, and the Tau statistic will be small. The Tau statistic can thus be viewed as an estimate of the median slope of the set of slopes estimated for the lines connecting all possible pairs of data.

Using the Seasonal Kendall Test for Trend, a significant trend has occurred if the p value is less than or equal to 0.05. If there is a significant trend, the tau correlation coefficient is reviewed in order to determine the direction and strength of the trend.

A summary of the findings for the p-values are presented in Table 3-2. As noted in Table 3-2, a significant trend was observed for one parameter in the following monitoring well:

- MW-9: increasing trend for ammonia

It should be noted that the only significant increasing trend was at MW-9. As discussed previously, the presence of ammonia in that well is related to the elevated concentrations of iron and arsenic, and it is likely due to the effects of reductive dissolution.

Reference

Helsel, Dennis R., D.K. Mueller and J.R. Slack. "Computer Program for the Kendall Family of Trend Tests". U.S. Geological Survey Scientific Investigations Report 2005-5275. 2006.

3.1.3 Related Parameter Correlation

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

- Turbidity versus Iron
- Turbidity versus Arsenic
- Arsenic versus Iron
- Conductivity versus TDS

Statistically relevant data sets were available only for monitoring wells MW-1R, MW-8A, MW-9, and MW-10R. A description of the evaluation results is presented below. The scatter plots associated with the above-listed parameters are provided in Appendix B. The primary method for visually determining whether there is a relationship between two variables for which there is a probable interaction is to create a scatter plot of the two variables. If there exists a clear pattern in the graphic, then further statistical testing may be warranted to define the extent of the relationship between the two variables.

Turbidity versus Iron

There was not very good correlation between the concentrations of iron versus turbidity at most of the wells throughout the review period. At most wells, the iron concentration was very high and the turbidity was low. At the background well, MW-1R, the iron concentration was relatively high through the period, while the turbidity was relatively low.

Turbidity versus Arsenic

For the most part, there was poor correlation between turbidity and the arsenic concentration at most wells.

Arsenic versus Iron

There was a very generalized correlation between arsenic concentrations and iron concentrations at most wells, but it was not a 1-for-1 correlation. Concentrations of iron tended to increase along with arsenic at specific monitoring wells, but the percentage of the increase in the arsenic concentration often did not match the increase in the iron concentration.

Conductivity versus TDS

Surprisingly, the correlation between TDS and conductivity was relatively poor at most of the well locations throughout the review period. The only exception was at well MW-8A, where the conductivity correlated well with the TDS except for one sampling event.

3.1.4 Cross-Gradient Correlation

In order to evaluate any changes in groundwater quality on either side of the landfill in the predominant direction of groundwater flow, the concentrations of the parameters that were consistently detected in the monitoring well network at concentrations in excess of the regulatory criteria were graphed. The parameters that were graphed included those with consistent exceedances during the review period, including pH, ammonia, arsenic, iron, and TDS. Statistically relevant data sets for the review period were available only for monitoring wells MW-1R, MW-8A, MW-9, and MW-10R.

The graphs were constructed by plotting the data from the wells located on the predominantly up-gradient (northeast) side of the landfill on the left side of the graph, and plotting those on the downgradient (west and southwest) side of the landfill on the right. The background well, MW-1R, was placed on the left side of the plots, and the remaining wells were placed in sequence relative to their position with respect to the predominant groundwater flow direction beneath the landfill, with MW-10R considered to be the furthest downgradient.

The box plots are presented in Appendix C. The box plots are a graphical representation of the data, where the upper limit of the box is the 75th percentile value of the data, the lower limit of the box is the 25th percentile of the data, and the line in the interior of the box is the median (50th percentile) of the data. In the box plots shown in Appendix C, the upper whisker represents the maximum value in the dataset, while the lower whisker represents the minimum value in the dataset. A summary of the observations for each parameter is presented below.

- *pH* – The pH detection pattern was very consistent during the period, and exhibited a pattern whereby the pH was generally within the SDWS range at MW-1R, but was lower than the SDWS range at the other wells.
- *Ammonia* – Ammonia was consistently at a low concentration in MW-1R and it was consistently highest at MW-8A.

- *Arsenic* – Arsenic also exhibited a consistent pattern. The concentrations were relatively low in the background well (MW-1R), were highest at MW-8A and MW-9, and were relatively low at MW-10R.
- *Iron* – The detection pattern with iron, too, was very consistent throughout the period. The concentrations were relatively low at MW-1R, were generally highest at MW-8A, but were also relatively high at MW-9 and MW-10R.
- *TDS* – The detection pattern with TDS was consistent with the patterns for the other constituents. Except for the first sampling event of 2007, TDS was relatively low at MW-1R, but was relatively high at the other wells.

The detection patterns discussed above are consistent with the findings that the arsenic, iron, and ammonia concentrations are highest in the areas where reductive dissolution is suspected to be occurring. Reductive dissolution is likely occurring throughout the developed portion of the landfill property, but it is significantly enhanced in areas where a liner has been placed. MW-8A and MW-9 are located immediately downgradient of the lined areas of the Phase I portion of the landfill. As more data become available for MW-15 through MW-20, it has already become clear that the recent installation of a liner in the Phase II portion of the landfill is associated with elevated iron, arsenic, and ammonia concentrations at those wells.

4.0 Water Elevation Data Evaluation

4.1 Rainfall Patterns

The monthly rainfall totals for the review period are presented in Table 4-1. The year 2007 was an extremely dry year, with one of the lowest rainfall totals recorded at that Southwest Florida Water Management District measuring station. This is consistent with the lack of any surface water at the surface water sampling locations during that year. The rainfall amount in 2007 was only 67% of the annual mean, while 2008, 2009, and 2010 were much closer to the annual mean (89%, 91%, and 90%, respectively).

4.2 Groundwater Flow Patterns

The groundwater elevation data from each sampling event during the review period were plotted and contoured to illustrate the groundwater flow direction and gradient. The plots are presented as Figures 2 through 9. Only the groundwater elevation data are provided for 2007 (Figures 2 and 3); Figures 4 through 9 include the water table elevations and the groundwater flow contours.

The groundwater contour elevations from the most recent contour maps (from 2010) appear to be the most representative. These maps indicate that the general groundwater flow direction within the landfill property is towards the west and southwest. However, it appears that the northeastern portion of the landfill property is located on a groundwater “divide”. At certain times of the year, the groundwater flow also appears to be toward the east or northeast from this area. The flow patterns appear to generally correspond to the rainfall pattern during the review period. That is, during periods of average or above average rainfall, the groundwater flowed to the west and southwest, but the groundwater also flows to the east and northeast during drier periods.

The Natural Attenuation with Monitoring Plan, submitted to the FDEP in September 2010, included a review of hydraulic gradient data for the surficial aquifer at this site as part of development of a groundwater modeling effort. The average hydraulic gradient at the site ranged from 0.0005 – 0.0011 feet per foot. The maximum hydraulic gradient for the same period (prior to 2010) was 0.003 – 0.006 feet per foot.

5.0 Summary, Conclusions and Recommendations

The analytical results from the review period suggest that the CCSWDC has had an effect on the groundwater quality in the immediate vicinity. However, the most serious of these effects are likely attributed to reductive dissolution in the shallow groundwater caused solely by site development activities. There are no indications of any effects associated with a release of leachate or any type of “discharge” from the active landfill cells. A summary of the detection patterns in the water quality network is as follows:

- There were numerous inorganic analytes and several organic analytes detected in the leachate during the review period, and none of the analyte concentrations exceeded the regulatory criteria.
- In the groundwater, there were numerous inorganic detections and very infrequent organic detections. The only analytes that were consistently detected at concentrations in excess of the regulatory criteria in most of the monitoring wells were pH, ammonia, arsenic, iron, and TDS. The detection patterns with all of these analytes were very consistent throughout the review period, in that, in general, the exceedances occurred at the same well locations.
- The following additional constituents were detected sporadically in the new monitoring wells (MW-15 through MW-20) at concentration in excess of the regulatory criteria: aluminum, chloride, lead, manganese, sodium, sulfate, and vanadium. Elevated aluminum was found only at MW-17 and MW-19. Elevated chloride and sodium were found only at MW-16, and elevated manganese and sulfate were found only at MW-15. Elevated concentrations of lead and vanadium occurred only during the First Half of 2010 at MW-20; these constituents were found at concentrations less than the regulatory criteria during the Second Half of 2010. Some of these constituents are also detected in the nearby compliance wells. These additional constituents will continue to be monitored to determine any pattern or cause for their occurrences.
- Three analytes, fecal coliform, mercury, and zinc, were detected in the surface water at concentrations in excess of the regulatory criteria during the review period, and fecal coliform was the only constituent that was consistently detected.

The most significant detections in the water quality monitoring network during the review period were arsenic, ammonia, and iron in the groundwater. As discussed above, these constituents, along with pH, have been investigated as part of three significant studies conducted between 2008 and 2010. The conclusions of these studies are that reductive dissolution of groundwater in the surficial aquifer is causing the elevated concentrations of iron, arsenic, and ammonia, which are found naturally in the soils at the site. The cause of the reductive dissolution phenomena appears to be associated with development of the landfill site. Reductive dissolution conditions are found throughout the areas of the site where fill material has been placed and the natural environment has been significantly altered. However, the reductive dissolution phenomena appear to be especially enhanced in the vicinity of the areas where a liner has been placed (currently the Phase I and Phase II sections of the landfill).

With regard to the hydrological data from the review period, the direction and rate of groundwater in the surficial aquifer beneath the CCSWDC was flowing generally from northeast to southwest during periods of average to above average rainfall, but also toward the northeast and east due to the presence of a groundwater "divide". The water levels were within the screened intervals of all of the wells in the existing well network during every sampling event of the review period in which they were sampled. The well spacing is consistent with current FAC requirements.

Based on the findings of this evaluation, the water quality and elevation monitoring network at the CCSWDC appears to be adequate in meeting the objectives of the monitoring program. It is our opinion that the surface water sampling locations may not be truly representative of contributions to surface water quality caused by the landfill. Since the surface water sampling locations also receive runoff from current and former cattle raising activities, consideration should be given to determining if other surface water sampling locations would better represent contributions more representative of the landfill proper. It was also noted that surface water sampling location B-2 was frequently dry (6 of 8 sampling events). Selection of an alternate location would also consider a location with a more reliable presence of surface water.

Due to the lack of any significant detections of organic constituents in either the groundwater or surface water samples, it is also recommended that the frequency of sampling for organics in the groundwater and the surface water can be reduced from semi-annually to annually. In order to address the frequency of sampling for organics in the groundwater and the surface water, and to propose alternate locations for collection of surface water samples, we recommend a modification to the Operation Permit. The permit modification would essentially be a revision to the current Water Quality Monitoring Plan.

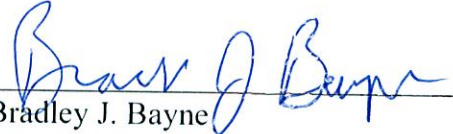
6.0 Environmental Professional Qualifications and Signatures

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

Bradley J. Bayne, P.G.
Senior Geologist, Atkins

Mr. Bayne is a Florida-registered professional geologist with over 20 years of experience in the planning and performance of environmental projects.

5-17-11
Date


Bradley J. Bayne
Florida P.G. #1733

TABLES

TABLE 1-1
WATER QUALITY MONITORING NETWORK
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

Leachate Sampling Points			
Location (Sample ID)		Landfill Cell	WACS Testsite Identification Number
C-1		Cell #1	20580
C-2		Cell #2	20581
C-3		Cell #3	20582
C-4		Cell #4	20583
C-5		Cell #4	20584
P2-1		Cells # 1-4, Phase II	23037
Groundwater Sampling Points (Monitoring Wells)			
Location/Well Identifier	Aquifer Monitored	Designation	WACS Testsite ID No.
MW-1R	Surficial	Detection	20585
MW-8A	Surficial	Detection	21453
MW-9	Surficial	Detection	4509
MW-10R	Surficial	Detection	4510
MW-11R	Surficial	Detection	20588 /Aband. 2009
MW-12R	Surficial	Detection	20589 /Aband. 2009
MW-15	Surficial	Detection	23031
MW-16	Surficial	Detection	23032
MW-17	Surficial	Detection	23033
MW-18	Surficial	Detection	23034
MW-19	Surficial	Detection	23035
MW-20	Surficial	Detection	23036
MW-3	Surficial	Piezometer	4503
MW-5	Surficial	Piezometer	4505
Surface Water Sampling Points			
Identifier	Location	WACS Testsite Identification Number	
B-2	Old Cowpen Slough- Upstream	4519	
B-4R	Old Cowpen Slough - Downstream	20060	
Condensate Sampling Point			
Identifier	Location	WACS Testsite Identification Number	
S-4	Condensate Sump S-4	23346	

TABLE 1-2
CURRENT WATER ELEVATION MONITORING NETWORK
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

Well Identifier	Top-of-Casing Elevation (Ft-NGVD)	Total Depth (Ft-TOC)	Screen Interval Elevation (Ft-NGVD)
MW-1R	24.43	15.74	9.43-19.43
MW-8A	28.64	15.07	13.65-23.65
MW-9	35.11	NA	NA
MW-10R	31.79	NA	NA
MW-11R#	25.80	14.35	11.59-21.59
MW-12R#	26.20	15.20	11.46-21.46
MW-15	44.32	30.50	14.42-23.92
MW-16	43.73	30.30	14.13-23.63
MW-17	46.15	32.60	14.15-23.65
MW-18	39.14	25.70	14.14-23.64
MW-19	36.81	23.00	14.41-23.91
MW-20	35.96	22.50	14.06-23.56
MW-3*	23.50	NA	NA
MW-5*	22.50	NA	NA

Compliance Well	Top-of-Casing Elevation (Ft-NGVD)
CW-8A	26.13
CW-9	26.58
CW-10R	26.98
CW-15	30.17
CW-16	29.58
CW-17	27.52
CW-18	27.38

Staff Gauge	Measuring Point Elevation (Ft-NGVD)
STW-1	21.19
STW-2	20.31
STW-3	20.19
STW-4	19.34
STW-5	19.79
STW-5B	18.04
STW-6	19.37
STW-7	22.29

Abandoned in 2009

NA = Data not available or applicable

*Piezometers.

Horizontal Datum: Florida State Plane NAD83(90); Vertical Datum: 1929 NGVD.

Table 2-1
Leachate Analytical Summary
Central County Solid Waste Disposal Complex
First Half 2007

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Pump
	Date of Test:		05/08/07	05/08/07	05/08/07	05/10/07	05/10/07	05/10/07
	Standard(1)	Units						
Field Measurements								
Temperature			31.44	33.43	39.34	37	31.9	26.11
Turbidity			4.4	20.4	18	13.7	17.1	12.6
pH		STD	7.29	7.73	7.96	7.61	7.27	7.43
Conductivity		umhos/cm	52.05	15565	20560	9312	3350	8771
Dissolved Oxygen (DO)		mg/l	1.26	0.15	0.31	0.27	0.69	0.28
Inorganics								
Antimony		ug/l	9.5	37	17	3.8	1.6	5.1
Arsenic	5000	ug/l	61	350	390	61	66	130
Barium	100,000	ug/l	130	97	88	89	88	87
Beryllium		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bicarbonate alkalinity		mg/l	2400	5300	7800	4200	1500	3600
Cadmium		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbonate Alkalinity		mg/l	0.82	BDL	BDL	BDL	0.82	BDL
Calcium		ug/l	270000	160000	130000	NA	NA	NA
Chloride		mg/l	670	1900	2800	1200	340	1100
Chromium	5000	ug/l	23	560	570	180	9.2	170
Cobalt		ug/l	18	39	53	30	7.6	24
Copper		ug/l	4.4	10	24	23	9.2	BDL
Cyanide		mg/l	0.005	0.008	0.04	0.010*	0.007	0.006
Iron		ug/l	1400	1800	2800	1100	7000	1100
Lead	5000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium		ng/l	50000	68000	95000	56000	53000	59000
Mercury	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Nickel		ug/l	28	130	170	70	21	64
Nitrate		mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Nitrite		mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Nitrate-Nitrite		mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Potassium		ug/l	170000	620000	1100000	410000	170000	430000
Selenium	1000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Silver	5000	ug/l	BDL	BDL	3.4	BDL	BDL	BDL
Sodium		ug/l	510000	2000000	2300000	890000	240000	880000
Sulfate		mg/l	BDL	BDL	BDL	BDL	65	BDL
Total Ammonia - N		mg/l	310	1200	2300	690	130	610
Thallium		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tin as SN		ug/l	BDL	70	79	BDL	BDL	BDL
Total Alkalinity		mg/l	2400	5300	7800	4200	1500	3600
Total Dissolved Solids (TDS)		mg/l	2700	6400	10000	4500	1900	4100
Total Sulfide		mg/l	2.3	4.4	6.8	4.0	1.1	12
Vanadium		ug/l	22	150	280	62	12	76
Zinc		ug/l	28	72	100	24	16	16
Pesticides & Herbicides								
2,4-D	10,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4,5-T		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3 & 4 methylphenol	200,000	ug/l	BDL	5.0	30	BDL	BDL	BDL
A-BHC		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Aldrin		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
B-BHC		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chlordane	30	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
D-BHC		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dinoseb		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Endosulfan Sulfate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Endosulfan-I		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Endosulfan-II		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Endrin	20	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Endrin Aldehyde		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
G-BHC(Lindane)	400	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Heptachlor	130	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Heptachlor Epoxide	130	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methoxychlor	10,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1016		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1221		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1232		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1242		ug/l	BDL	BDL	BDL	BDL	BDL	BDL

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Pump
	Date of Test:		05/08/07	05/08/07	05/08/07	05/10/07	05/10/07	05/10/07
	Standard(1)	Units						
PCB-1248		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1254		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1260		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PP-DDD		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PP-DDE		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PP-DDT		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Silvex	1,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Toxaphene	500	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Organics, Acid Extractables								
2,4,6-Trichlorophenol	2,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,3,4,6-Tetrachlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4,5-Trichlorophenol	400,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dichlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dimethylphenol		ug/l	BDL	3.0	BDL	BDL	BDL	BDL
2,4-Dinitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,6-Dichlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Chlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Methylphenol	200,000	ug/l	BDL	7.9	16	BDL	BDL	BDL
2-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4,6-Dinitro-2-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Chloro-3-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	100,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Phenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Base Neutrals								
1,2,4,5-Tetrachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5-Trinitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dinitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Naphthoquinone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1-Naphthylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrotoluene	130	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,6-Dinitrotoluene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Acetylaminofluorene		ug/l	BDL	BDL	BDL	78	BDL	BDL
2-Chloronaphthalene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Methylnaphthalene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Naphthylamine		ug/l	4.2	5.9	BDL	BDL	BDL	10
2-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3,3-Dichlorobenzidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3,3-Dimethylbenzidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3-Methylcholanthrene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Aminobiphenyl		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Bromophenyl-phenylether		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Chloroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Chlorophenylphenylether		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
5-Nitro-o-toluidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
7,12-Dimethylbenz(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acenaphthene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acenaphthylene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acetophenone		ug/l	BDL	1.6	BDL	BDL	BDL	BDL
Anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)pyrene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(b)fluoranthene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(g,h,i)perylene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(k)fluoranthene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzyl alcohol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethoxy)methane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloro-1-methylethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-ethylhexyl)phthalate		ug/l	1.9	3.0	BDL	BDL	BDL	BDL
Butylbenzylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzilate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chrysene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Diallate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibenz(a,h)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibenzofuran		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Diethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL

Analyte	Location:		Leach	Leach 2	Leach 3	Leach 4	Leach 5	Pump
	Date of Test:		05/08/07	05/08/07	05/08/07	05/10/07	05/10/07	05/10/07
	Standard(1)	Units						
Dimethoate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dimethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Di-N-butylphthalate		ug/l	0.58	BDL	BDL	BDL	BDL	BDL
Di-N-octylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Disulfoton		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Famphur		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Flouranthene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Flourene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	130	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	500	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Hexachloroethane	3,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Hexylchloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Isodrin		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Isophorone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Isosafrole		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Kepone		ug/l	ND	ND	ND	ND	ND	ND
Methapyriline		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methyl parathion		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene		ug/l	8.5	4.7	BDL	BDL	BDL	9.0
Nitrobenzene	2,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodiethylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodimethylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodi-n-butylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitroso-di-n-propylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodiphenylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosoethylmethylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosopiperidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosopyrrolidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
0,0,0-Triethylphosphorothioate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ortho-toluidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Para-Phenylenediamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl Parathion		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
P-Dimethylaminoazobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Pentachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Pentachloronitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Phenacetin		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Phenanathrene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Phorate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Pronamide		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Pyrene	5,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Safrole		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Thionazin		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Volatile Organics								
1,1,1,2-Tetrachloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane		ug/l	BDL	0.017	BDL	BDL	BDL	0.023
1,1-Dichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	500	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	7,500	ug/l	12	BDL	BDL	BDL	BDL	BDL
2,2-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Butanone	200,000	ug/l	66	BDL	50	BDL	47	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acetone		ug/l	BDL	29	47	BDL	32	BDL
Acetonitrile		ug/l	43	180	240	110	83	130
Acrolein		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL

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Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Pump
	Date of Test:		05/08/07	05/08/07	05/08/07	05/10/07	05/10/07	05/10/07
	Standard(1)	Units						
Allyl chloride		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	500	ug/l	4.6	2.2	4.0	3.7	17	10
Bromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbon disulfide		ug/l	BDL	BDL	BDL	BDL	BDL	13
Carbon tetrachloride	500	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	100,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloroprene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene		ug/l	3.5	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichlorodifluoromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene		ug/l	95	44	48	31	63	55
Ethylene dibromide		ug/l	BDL	BDL	BDL	BDL	0.013	0.015
Iodomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Isobutyl Alcohol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methacrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Propionitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Styrene		ug/l	2.1	BDL	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Toluene		ug/l	18	31	80	39	38	18
Total Xylenes		ug/l	130	120	130	63	110	100
trans-1,2-Dichloroethene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	500	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl acetate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	200	ug/l	BDL	BDL	BDL	BDL	5.5	BDL
1,2 diphenylhydrazine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL

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

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

Table 2-2
Leachate Analytical Summary
Central County Solid Waste Disposal Complex
Second Half 2007

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Pump
	Date of Test:		11/08/07	11/08/07	11/08/07	11/08/07	11/08/07	11/08/07
	Standard(1)	Units						
Field Measurements								
Temperature			31.27	31.5	35.6	35.5	26.45	26.45
Turbidity		NTU	13.2	50.4	19.3	472	7.01	122
pH		STD	6.94	7.38	7.66	7.46	7.04	7.07
Conductivity		umhos/cm	5858	16193	22583	16180	4927	9240
Dissolved Oxygen (DO)		mg/l	0.58	0.40	0.12	0.11	0.4	0.48
Inorganics								
Bicarbonate alkalinity		mg/l	2100	5500	8500	5300	1500	3400
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		ug/l	270000	180000	140000	280000	340000	280000
Chloride		mg/l	510	2000	2600	1900	430	920
Iron		ug/l	1100	1800	2600	2300	820	770
Magnesium		ug/l	53000	68000	91000	69000	58000	64000
Mercury	200	ug/l	0.057	0.11	0.082	0.067	BDL	0.08
Nitrate		mg/l	0.11	0.010	0.08	0.39	BDL	0.33
Nitrite		mg/l	0.005	0.092	0.006	0.1	0.011	0.071
Nitrate-Nitrite		mg/l	0.11	0.10	0.086	0.49	0.055	0.4
Potassium		ug/l	14000	570000	1000000	660000	240000	350000
Sodium		ug/l	470000	1600000	2100000	1400000	300000	730000
Sulfate		mg/l	16	BDL	BDL	BDL	120	BDL
Total Ammonia - N		mg/l	280	1000	1700	1000	150	530
Total Alkalinity		mg/l	2100	5500	8500	5300	1500	3400
Total Dissolved Solids (TDS)		mg/l	2400	6300	9200	5500	2400	3500

Notes: (1) - Regulatory standard listed in 40 CFR Part 261.24. Analyte concentrations shown with shading represent an exceedance of the regulatory level.
Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

**Table 2-3
Leachate Analytical Summary
Central County Solid Waste Disposal Complex
First Half 2008**

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Pump
	Date of Test:		03/27/08	03/27/08	03/27/08	03/27/08	03/27/08	03/27/08
	Standard(1)	Units						
Field Measurements								
Temperature			30.08	35.4	39.26	37.95	33.2	22.6
Turbidity		NTU	487	17.5	15.3	NA	379	19.8
pH		STD	7	7.37	7.59	7.48	6.9	6.96
Conductivity		umhos/cm	8134	19209	24779	20245	9392	15660
Dissolved Oxygen (DO)		mg/l	3.55	0.13	1.16	0.94	3.01	1.01
Inorganics								
Bicarbonate alkalinity		mg/l	3000	6700	9200	7300	3400	5700
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		ug/l	270000	150000	110000	160000	290000	210000
Chloride		mg/l	850	2300	2900	2300	910	1700
Iron		ug/l	2000	2000	3100	2300	17000	1200
Magnesium		ug/l	57000	67000	80000	65000	68000	68000
Mercury	200	ug/l	0.023	0.049	0.05	0.039	0.034	0.041
Nitrate		mg/l	0.022	0.120	0.26	0.22	0.013	0.031
Nitrite		mg/l	BDL	BDL	BDL	BDL	BDL	0.031
Nitrate-Nitrite		mg/l	0.022	0.12	0.26	0.22	0.013	0.062
Potassium		ug/l	240000	630000	960000	800000	430000	630000
Sodium		ug/l	650000	1800000	2000000	1800000	660000	1400000
Sulfate		mg/l	BDL	5.3	BDL	BDL	9.6	BDL
Total Ammonia - N		mg/l	390	1100	1600	1300	440	920
Total Alkalinity		mg/l	3000	6700	9200	7300	3400	5700
Total Dissolved Solids (TDS)		mg/l	3200	7500	9600	7500	3900	6100

Notes: (1) - Regulatory standard listed in 40 CFR Part 261.24 - shading = exceedance of the regulatory level

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

Table 2-4
Leachate Analytical Summary
Central County Solid Waste Disposal Complex
Second Half 2008

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
	Date of Test:		07/21/08	07/21/08	07/22/08	07/22/08	07/22/08
	Standard(1)	Units					
Field Measurements							
Temperature			32.46	36.89	38.58	38.01	34.6
Turbidity			42.5	32.4	16	15.9	6
pH		STD	6.88	7.25	7.54	7.42	6.61
Conductivity		umhos/cm	2665	7970	19330	15406	3658
Dissolved Oxygen (DO)		mg/l	4.93	1.13	1.01	0.79	0.7
Inorganics							
Antimony		ug/l	38	28	30	19	4.9
Arsenic	5000	ug/l	55	300	410	160	36
Barium	100,000	ug/l	110	83	71	88	120
Beryllium		ug/l	BDL	BDL	BDL	BDL	BDL
Bicarbonate alkalinity		mg/l	1500	4700	8500	6800	1300
Cadmium		ug/l	BDL	BDL	BDL	BDL	BDL
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL	BDL
Calcium		ug/l	270000	170000	120000	160000	370000
Chloride		mg/l	340	1600	2500	2100	410
Chromium	5000	ug/l	15	380	460	500	20
Cobalt		ug/l	BDL	29	52	53	BDL
Copper		ug/l	18	11	20	7.3	6.6
Cyanide		mg/l	0.003	0.018	0.035	0.035	BDL
Iron		ug/l	900	1300	2300	2000	790
Lead	5000	ug/l	BDL	BDL	BDL	BDL	BDL
Magnesium		ug/l	38000	52000	81000	64000	61000
Mercury	200	ug/l	BDL	BDL	0.037	0.037	BDL
Nickel		ug/l	26	87	150	170	18
Nitrate		mg/l	0.005	BDL	0.096	0.12	BDL
Nitrite		mg/l	0.077	BDL	0.039	0.19	BDL
Nitrate-Nitrite		mg/l	0.082	0.08	0.14	0.71	0.005
Potassium		ug/l	110000	460000	1000000	820000	260000
Selenium	1000	ug/l	BDL	10	8.1	8.1	BDL
Silver	5000	ug/l	BDL	3.2	4.2	3.1	BDL
Sodium		ug/l	290000	1200000	2000000	1900000	250000
Sulfate		mg/l	150	160	BDL	20	370
Total Ammonia - N		mg/l	210	1000	1700	1500	140
Thallium		ug/l	BDL	BDL	BDL	BDL	BDL
Tin as SN		ug/l	BDL	25	65	85	BDL
Total Alkalinity		mg/l	1500	4700	8500	6800	1300
Total Dissolved Solids (TDS)		mg/l	2000	5800	8400	8000	2500
Total Sulfide		mg/l	1.8	7.8	15	12.0	6.7
Vanadium		ug/l	16	100	220	120	15
Zinc		ug/l	43	62	100	110	17
Pesticides & Herbicides							
2,4-D	10,000	ug/l	BDL	BDL	BDL	BDL	BDL
2,4,5-T		ug/l	BDL	BDL	BDL	0.24	BDL
3 & 4 methylphenol	200,000	ug/l	BDL	5.0	15	BDL	BDL
A-BHC		ug/l	BDL	BDL	BDL	BDL	BDL
Aldrin		ug/l	BDL	BDL	BDL	BDL	BDL
B-BHC		ug/l	BDL	BDL	BDL	BDL	BDL
Chlordane	30	ug/l	BDL	BDL	BDL	BDL	BDL
D-BHC		ug/l	BDL	BDL	BDL	BDL	BDL
Dieldrin		ug/l	BDL	BDL	BDL	BDL	BDL
Dinoseb		ug/l	BDL	BDL	BDL	BDL	BDL
Endosulfan Sulfate		ug/l	BDL	BDL	BDL	BDL	BDL
Endosulfan-I		ug/l	BDL	BDL	BDL	BDL	BDL
Endosulfan-II		ug/l	BDL	BDL	BDL	BDL	BDL
Endrin	20	ug/l	BDL	BDL	BDL	BDL	BDL
Endrin Aldehyde		ug/l	BDL	BDL	BDL	BDL	BDL
G-BHC(Lindane)	400	ug/l	BDL	BDL	BDL	BDL	BDL

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
	Date of Test:		07/21/08	07/21/08	07/22/08	07/22/08	07/22/08
	Standard(1)	Units					
Heptachlor	130	ug/l	BDL	BDL	BDL	BDL	BDL
Heptachlor Epoxide	130	ug/l	BDL	BDL	BDL	BDL	BDL
Methoxychlor	10,000	ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1016		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1221		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1232		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1242		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1248		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1254		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1260		ug/l	BDL	BDL	BDL	BDL	BDL
PP-DDD		ug/l	BDL	BDL	BDL	BDL	BDL
PP-DDE		ug/l	BDL	BDL	BDL	BDL	BDL
PP-DDT		ug/l	BDL	BDL	BDL	BDL	BDL
Silvex	1,000	ug/l	BDL	BDL	BDL	BDL	BDL
Toxaphene	500	ug/l	BDL	BDL	BDL	BDL	BDL
Organics, Acid Extractables							
2,4,6-Trichlorophenol	2,000	ug/l	BDL	BDL	BDL	BDL	BDL
2,3,4,6-Tetrachlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL
2,4,5-Trichlorophenol	400,000	ug/l	BDL	BDL	BDL	BDL	BDL
2,4-Dichlorophenol		ng/l	BDL	BDL	BDL	BDL	BDL
2,4-Dimethylphenol		ug/l	BDL	3.4	BDL	BDL	BDL
2,4-Dinitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL
2,6-Dichlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL
2-Chlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL
2-Methylphenol	200,000	ug/l	BDL	7.1	7.8	6.3	BDL
2-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL
4,6-Dinitro-2-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL
4-Chloro-3-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL
4-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	100,000	ug/l	BDL	BDL	BDL	BDL	BDL
Phenol		ug/l	BDL	BDL	BDL	BDL	BDL
Base Neutrals							
1,2,4,5-Tetrachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
1,3,5-Trinitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
1,3-Dinitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
1,4-Naphthoquinone		ug/l	BDL	BDL	BDL	BDL	BDL
1-Naphthylamine		ug/l	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrotoluene	130	ug/l	BDL	BDL	BDL	BDL	BDL
2,6-Dinitrotoluene		ug/l	BDL	BDL	BDL	BDL	BDL
2-Acetylaminofluorene		ug/l	BDL	BDL	BDL	BDL	BDL
2-Chloronaphthalene		ug/l	BDL	BDL	BDL	BDL	BDL
2-Methylnaphthalene		ug/l	1.1	BDL	BDL	BDL	BDL
2-Naphthylamine		ug/l	2.9	5.4	1.4	2.7	10
2-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL
3,3-Dichlorobenzidine		ug/l	BDL	BDL	BDL	BDL	BDL
3,3-Dimethylbenzidine		ug/l	BDL	BDL	BDL	BDL	BDL
3-Methylcholanthrene		ug/l	BDL	BDL	BDL	BDL	BDL
3-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL
4-Aminobiphenyl		ug/l	BDL	BDL	BDL	BDL	BDL
4-Bromophenyl-phenylether		ug/l	BDL	BDL	BDL	BDL	BDL
4-Chloroaniline		ug/l	BDL	BDL	BDL	BDL	BDL
4-Chlorophenylphenylether		ug/l	BDL	BDL	BDL	BDL	BDL
4-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL
5-Nitro-o-toluidine		ug/l	BDL	BDL	BDL	BDL	BDL
7,12-Dimethylbenz(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL
Acenaphthene		ug/l	BDL	BDL	BDL	BDL	BDL
Acenaphthylene		ug/l	BDL	BDL	BDL	BDL	BDL
Acetophenone		ug/l	BDL	2.7	1.8	BDL	BDL
Anthracene		ug/l	BDL	BDL	BDL	BDL	BDL
Benzo(a)anthracene		ug/l	BDL	BDL	BDL	0.086	BDL
Benzo(a)pyrene		ug/l	BDL	BDL	BDL	BDL	BDL
Benzo(b)fluoranthene		ug/l	BDL	BDL	BDL	BDL	BDL

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
	Date of Test:		07/21/08	07/21/08	07/22/08	07/22/08	07/22/08
	Standard(1)	Units					
Benzo(g,h,i)perylene		ug/l	BDL	BDL	BDL	BDL	BDL
Benzo(k)fluoranthene		ug/l	BDL	BDL	BDL	BDL	BDL
Benzyl alcohol		ug/l	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethoxy)methane		ug/l	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL
Bis(2-chloro-1-methylethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL
Bis(2-ethylhexyl)phthalate		ug/l	13	5.1	4.4	13	1.1
Butylbenzylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL
Chlorobenzilate		ug/l	BDL	BDL	BDL	BDL	BDL
Chrysene		ug/l	BDL	BDL	BDL	BDL	BDL
Diallate		ug/l	BDL	BDL	BDL	BDL	BDL
Dibenz(a,h)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL
Dibenzofuran		ug/l	BDL	BDL	BDL	BDL	BDL
Diethylphthalate		ug/l	1.4	1.1	BDL	0.51	0.52
Dimethoate		ug/l	BDL	BDL	BDL	BDL	BDL
Dimethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL
Di-N-butylphthalate		ug/l	0.58	BDL	BDL	BDL	BDL
Di-N-octylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL
Disulfoton		ug/l	BDL	BDL	BDL	BDL	BDL
Ethylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL
Famphur		ug/l	BDL	BDL	BDL	BDL	BDL
Flouranthene		ug/l	BDL	BDL	BDL	BDL	BDL
Flourene		ug/l	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	130	ug/l	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	500	ug/l	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene		ug/l	BDL	BDL	BDL	BDL	BDL
Hexachloroethane	3,000	ug/l	BDL	BDL	BDL	BDL	BDL
Hexylchloropropene		ug/l	BDL	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene		ug/l	BDL	BDL	BDL	BDL	BDL
Isodrin		ug/l	BDL	BDL	BDL	BDL	BDL
Isophorone		ug/l	BDL	BDL	BDL	BDL	BDL
Isosafrole		ug/l	BDL	BDL	BDL	BDL	BDL
Kepone		ug/l	ND	ND	ND	ND	ND
Methapyrilene		ug/l	BDL	BDL	BDL	BDL	BDL
Methyl parathion		ug/l	BDL	BDL	BDL	BDL	BDL
Methylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL
Naphthalene		ug/l	11	8.5	6.5	4.8	1.1
Nitrobenzene	2,000	ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosodiethylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosodimethylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosodi-n-butylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitroso-di-n-propylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosodiphenylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosoethylmethylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosopiperidine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosopyrrolidine		ug/l	BDL	BDL	BDL	BDL	BDL
0,0,0-Triethylphosphorothioate		ug/l	BDL	BDL	BDL	BDL	BDL
Ortho-toluidine		ug/l	11	24	26	22	1.3
Para-Phenylenediamine		ug/l	BDL	BDL	BDL	BDL	BDL
Ethyl Parathion		ug/l	BDL	BDL	BDL	BDL	BDL
P-Dimethylaminoazobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
Pentachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
Pentachloronitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
Phenacetin		ug/l	BDL	BDL	BDL	BDL	BDL
Phenanathrene		ug/l	BDL	BDL	BDL	BDL	BDL
Phorate		ug/l	BDL	BDL	BDL	BDL	BDL
Pronamide		ug/l	BDL	BDL	BDL	BDL	BDL
Pyrene	5,000	ug/l	BDL	BDL	BDL	BDL	BDL
Safrole		ug/l	BDL	BDL	BDL	BDL	BDL
Thionazin		ug/l	BDL	BDL	BDL	BDL	BDL
Volatile Organics							
1,1,1,2-Tetrachloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
	Date of Test:		07/21/08	07/21/08	07/22/08	07/22/08	07/22/08
	Standard(1)	Units					
1,1,2,2-Tetrachloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	700	ug/l	BDL	BDL	BDL	BDL	BDL
1,1-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	500	ug/l	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	7,500	ug/l	BDL	5.9	3.8	3.7	1.3
2,2-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
2-Butanone	200,000	ug/l	BDL	BDL	BDL	BDL	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone		ug/l	BDL	BDL	BDL	BDL	BDL
Acetone		ug/l	BDL	BDL	BDL	BDL	62
Acetonitrile		ug/l	BDL	BDL	230	BDL	BDL
Acrolein		ug/l	BDL	BDL	BDL	BDL	BDL
Acrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL
Allyl chloride		ug/l	BDL	BDL	BDL	BDL	BDL
Benzene	500	ug/l	BDL	BDL	BDL	BDL	10
Bromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Bromomethane		ug/l	BDL	BDL	BDL	BDL	BDL
Carbon disulfide		ug/l	BDL	BDL	BDL	BDL	4.2
Carbon tetrachloride	500	ug/l	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	100,000	ug/l	BDL	BDL	BDL	BDL	BDL
Chloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
Chloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Chloroprene		ug/l	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene		ug/l	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL
Dichlorodifluoromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Dichloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Ethyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL
Ethylbenzene		ug/l	61	48	39	34	59
Ethylene dibromide		ug/l	BDL	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL	BDL
Isobutyl Alcohol		ug/l	BDL	BDL	BDL	BDL	BDL
Methacrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL
Methyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL
Propionitrile		ug/l	BDL	BDL	BDL	BDL	BDL
Styrene		ug/l	BDL	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	700	ug/l	BDL	BDL	BDL	BDL	BDL
Toluene		ug/l	20	66	70	56	17
Total Xylenes		ug/l	62	110	110	72	52
trans-1,2-Dichloroethene		ug/l	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL	BDL
Trichloroethene	500	ug/l	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6,000	ug/l	BDL	BDL	BDL	BDL	BDL
Vinyl acetate		ug/l	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	200	ug/l	BDL	BDL	BDL	BDL	BDL
1,2 diphenylhydrazine		ug/l	BDL	BDL	BDL	BDL	BDL

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

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

Table 2-5
Leachate Analytical Summary
Central County Solid Waste Disposal Complex
First Half 2009

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
	Date of Test:		05/13/09	05/13/09	05/13/09	05/13/09	05/13/09
	Standard(1)	Units					
Field Measurements							
Temperature			31.62	37.25	40.72	38.76	33.49
Turbidity		NTU	18.8	24.9	17.1	20.7	27
pH		STD	7	7.26	7.42	7.32	6.9
Conductivity		umhos/cm	11276	20060	27171	23420	10753
Dissolved Oxygen (DO)		mg/l	2.8	2.60	1.28	1.48	2.01
Inorganics							
Bicarbonate alkalinity		mg/l	7900	1300	10000	8600	6900
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL	BDL
Calcium		ug/l	220000	130000	85000	110000	290000
Chloride		mg/l	1300	2600	3400	2900	1200
Iron		ug/l	3500	2300	3600	2700	6100
Magnesium		ug/l	64000	64000	76000	65000	73000
Mercury	200	ug/l	BDL	BDL	0.022	0.028	BDL
Nitrate		mg/l	0.023	0.210	0.22	0.3	0.12
Nitrite		mg/l	0.013	0.04	0.2	0.094	0.047
Nitrate-Nitrite		mg/l	0.036	0.25	0.42	0.39	0.16
Potassium		ug/l	440000	830000	1300000	1100000	580000
Sodium		ug/l	1100000	2100000	2600000	2400000	860000
Sulfate		mg/l	BDL	BDL	BDL	BDL	BDL
Total Ammonia - N		mg/l	680	1400	2100	1800	610
Total Alkalinity		mg/l	7900	1300	10000	8600	6900
Total Dissolved Solids (TDS)		mg/l	4100	7200	8800	8900	4400

Notes: (1) - Regulatory standard listed in 40 CFR Part 261.24. Analyte concentrations shown with shading represent an exceedance of the regulatory level.
Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

Table 2-6
Leachate Analytical Summary
Central County Solid Waste Disposal Complex
Second Half 2009

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
	Date of Test:		10/27/09	10/27/09	10/27/09	10/27/09	10/27/09
	Standard(1)	Units					
Field Measurements							
Temperature			31.29	31.85	40.46	36.89	35.23
Turbidity			6.01	36.1	0.6	35.2	12.8
pH		STD	7.75	7.56	7.82	7.59	7.06
Conductivity		umhos/cm	9556	16296	20407	18787	8991
Dissolved Oxygen (DO)		mg/l	3.37	0.15	0.93	0.27	0.35
Inorganics							
Antimony		ug/l	9.6	31.9	61.1	18	3.3
Arsenic	5000	ug/l	195	451	376	208	46.7
Barium	100,000	ug/l	125	94.3	66	104	101
Beryllium		ug/l	BDL	BDL	BDL	BDL	BDL
Bicarbonate alkalinity		mg/l	37300	57300	71300	6830	29700
Cadmium		ug/l	BDL	BDL	BDL	BDL	BDL
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL	BDL
Calcium		ug/l	223000	148000	145000	138000	267000
Chloride		mg/l	962	1810	1600	1800	828
Chromium	5000	ug/l	52.8	563	285	585	80.9
Cobalt		ug/l	42.7	48.8	57.6	69.4	33.8
Copper		ug/l	6.6	5.9	15.8	17.1	45.6
Cyanide		mg/l	0.0082	0.039	0.032	0.053	BDL
Iron		ug/l	2670	1920	1590	2530	1330
Lead	5000	ug/l	BDL	BDL	BDL	BDL	BDL
Magnesium		ug/l	63000	62200	75600	59800	78600
Mercury	200	ug/l	BDL	BDL	BDL	BDL	BDL
Nickel		ug/l	71.4	124	123	178	43
Nitrate		mg/l	0.021	0.207	0.17	0.284	0.034
Nitrite		mg/l	0.015	BDL	0.049	0.056	0.008
Nitrate-Nitrite		mg/l	0.036	0.207	0.219	0.34	0.042
Potassium		ug/l	313000	671000	881000	763000	412000
Selenium	1000	ug/l	BDL	15.7	10.8	13.5	BDL
Silver	5000	ug/l	BDL	BDL	BDL	BDL	BDL
Sodium		ug/l	926000	1880000	1630000	1870000	589000
Sulfate		mg/l	BDL	BDL	BDL	BDL	BDL
Total Ammonia - N		mg/l	570	1080	1091	649	413
Thallium		ug/l	BDL	BDL	BDL	BDL	BDL
Tin as SN		ug/l	BDL	69	40.5	133	BDL
Total Alkalinity		mg/l	37300	57300	71300	6830	29700
Total Dissolved Solids (TDS)		mg/l	4710	8020	7990	8720	3940
Total Sulfide		mg/l	BDL	16.8	BDL	12.8	6.0
Vanadium		ug/l	39.2	150	138	125	41
Zinc		ug/l	13.1	84.1	76	140	67.5
Pesticides & Herbicides							
2,4-D	10,000	ug/l	BDL	BDL	BDL	BDL	BDL
2,4,5-T		ug/l	BDL	BDL	BDL	BDL	BDL
3 & 4 methylphenol	200,000	ug/l	2.2	16.3	15.3	16.8	BDL
A-BHC		ug/l	BDL	BDL	BDL	BDL	BDL
Aldrin		ug/l	BDL	BDL	BDL	BDL	BDL
B-BHC		ug/l	BDL	BDL	BDL	BDL	BDL
Chlordane	30	ug/l	BDL	BDL	BDL	BDL	BDL
D-BHC		ug/l	BDL	BDL	BDL	BDL	BDL
Dieldrin		ug/l	BDL	BDL	BDL	BDL	BDL
Dinoseb		ug/l	BDL	BDL	BDL	BDL	BDL
Endosulfan Sulfate		ug/l	BDL	BDL	BDL	BDL	BDL
Endosulfan-I		ug/l	BDL	BDL	BDL	BDL	BDL
Endosulfan-II		ug/l	BDL	BDL	BDL	BDL	BDL
Endrin	20	ug/l	BDL	BDL	BDL	BDL	BDL
Endrin Aldehyde		ug/l	BDL	BDL	BDL	BDL	BDL
G-BHC(Lindane)	400	ug/l	BDL	BDL	BDL	BDL	BDL
Heptachlor	130	ug/l	BDL	BDL	BDL	BDL	BDL

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
	Date of Test:		10/27/09	10/27/09	10/27/09	10/27/09	10/27/09
	Standard(1)	Units					
Heptachlor Epoxide	130	ug/l	BDL	BDL	BDL	BDL	BDL
Methoxychlor	10,000	ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1016		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1221		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1232		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1242		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1248		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1254		ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1260		ug/l	BDL	BDL	BDL	BDL	BDL
PP-DDD		ug/l	BDL	BDL	BDL	BDL	BDL
PP-DDE		ug/l	BDL	BDL	BDL	BDL	BDL
PP-DDT		ug/l	BDL	BDL	BDL	BDL	BDL
Silvex	1,000	ug/l	BDL	BDL	BDL	BDL	BDL
Toxaphene	500	ug/l	BDL	BDL	BDL	BDL	BDL
Organics, Acid Extractables							
2,4,6-Trichlorophenol	2,000	ug/l	BDL	BDL	BDL	BDL	BDL
2,3,4,6-Tetrachlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL
2,4,5-Trichlorophenol	400,000	ug/l	BDL	BDL	BDL	BDL	BDL
2,4-Dichlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL
2,4-Dimethylphenol		ug/l	BDL	3.4	BDL	BDL	BDL
2,4-Dinitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL
2,6-Dichlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL
2-Chlorophenol		ug/l	BDL	1.3	BDL	BDL	BDL
2-Methylphenol	200,000	ug/l	BDL	17.8	18.1	18.7	0.94
2-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL
4,6-Dinitro-2-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL
4-Chloro-3-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL
4-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	100,000	ug/l	BDL	BDL	BDL	BDL	BDL
Phenol		ug/l	BDL	BDL	BDL	0.78	BDL
Base Neutrals							
1,2,4,5-Tetrachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
1,3,5-Trinitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
1,3-Dinitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
1-Methylnaphthalene		ug/l	1.1	1.3	BDL	BDL	BDL
1,4-Naphthoquinone		ug/l	BDL	BDL	BDL	BDL	BDL
1-Naphthylamine		ug/l	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrotoluene	130	ug/l	1.0	BDL	BDL	BDL	BDL
2,6-Dinitrotoluene		ug/l	8.1	BDL	BDL	BDL	BDL
2-Acetylaminofluorene		ug/l	BDL	BDL	BDL	BDL	BDL
2-Chloronaphthalene		ug/l	BDL	BDL	BDL	BDL	BDL
2-Methylnaphthalene		ug/l	1.7	1.4	1.1	1.5	BDL
2-Naphthylamine		ug/l	BDL	BDL	BDL	BDL	BDL
2-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL
3,3-Dichlorobenzidine		ug/l	5.8	37.2	BDL	65.5	6.2
3,3-Dimethylbenzidine		ug/l	BDL	BDL	BDL	BDL	BDL
3-Methylcholanthrene		ug/l	BDL	BDL	BDL	BDL	BDL
3-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL
4-Aminobiphenyl		ug/l	BDL	BDL	BDL	BDL	BDL
4-Bromophenyl-phenylether		ug/l	BDL	BDL	BDL	BDL	BDL
4-Chloroaniline		ug/l	BDL	BDL	BDL	16.4	BDL
4-Chlorophenylphenylether		ug/l	BDL	BDL	BDL	BDL	BDL
4-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL
5-Nitro-o-toluidine		ug/l	3.5	BDL	BDL	BDL	BDL
7,12-Dimethylbenz(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL
Acenaphthene		ug/l	0.43	BDL	BDL	BDL	BDL
Acenaphthylene		ug/l	BDL	BDL	BDL	BDL	BDL
Acetophenone		ug/l	3.6	4.7	3.1	3.9	1.4
Anthracene		ug/l	BDL	1.6	0.75	0.66	BDL
Benzo(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL
Benzo(a)pyrene		ug/l	BDL	BDL	BDL	BDL	BDL
Benzo(b)fluoranthene		ug/l	BDL	BDL	BDL	BDL	BDL

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
	Date of Test:		10/27/09	10/27/09	10/27/09	10/27/09	10/27/09
	Standard(1)	Units					
Benzo(g,h,i)perylene		ug/l	BDL	BDL	BDL	BDL	BDL
Benzo(k)fluoranthene		ug/l	BDL	BDL	BDL	BDL	BDL
Benzyl alcohol		ug/l	2.8	3.8	6.0	4.0	BDL
Bis(2-chloroethoxy)methane		ug/l	BDL	BDL	BDL	20.9	BDL
Bis(2-chloroethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL
Bis(2-chloro-1-methylethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL
Bis(2-ethylhexyl)phthalate		ug/l	1.9	4.2	36.7	15.6	1.9
Butylbenzylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL
Chlorobenzilate		ug/l	BDL	BDL	BDL	BDL	BDL
Chrysene		ug/l	BDL	BDL	BDL	BDL	BDL
Diallate		ug/l	BDL	BDL	BDL	BDL	BDL
Dibenz(a,h)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL
Dibenzofuran		ug/l	BDL	BDL	BDL	BDL	BDL
Diethylphthalate		ug/l	4.2	2.6	3.2	3.4	BDL
Dimethoate		ug/l	BDL	BDL	BDL	BDL	BDL
Dimethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL
Di-N-butylphthalate		ug/l	7.6	5.9	BDL	8.1	1.4
Di-N-octylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL
Disulfoton		ug/l	BDL	BDL	BDL	BDL	BDL
Ethylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL
Famphur		ug/l	BDL	BDL	BDL	BDL	BDL
Flouranthene		ug/l	BDL	BDL	BDL	BDL	BDL
Flourene		ug/l	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	130	ug/l	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	500	ug/l	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene		ug/l	BDL	BDL	BDL	BDL	BDL
Hexachloroethane	3,000	ug/l	BDL	BDL	BDL	BDL	BDL
Hexylchloropropene		ug/l	BDL	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene		ug/l	0.44	BDL	BDL	BDL	BDL
Isodrin		ug/l	BDL	BDL	BDL	BDL	BDL
Isophorone		ug/l	BDL	BDL	BDL	BDL	BDL
Isosafrole		ug/l	BDL	BDL	BDL	BDL	BDL
Kepone		ug/l	ND	ND	ND	ND	ND
Methapyrilene		ug/l	BDL	BDL	BDL	BDL	BDL
Methyl parathion		ug/l	BDL	BDL	BDL	BDL	BDL
Methylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL
Naphthalene		ug/l	15.2	17.6	20.9	12.9	5.1
Nitrobenzene	2,000	ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosodiethylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosodimethylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosodi-n-butylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitroso-di-n-propylamine		ug/l	BDL	25.1	24	10.5	BDL
N-Nitrosodiphenylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosoethylmethylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosopiperidine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosopyrrolidine		ug/l	BDL	BDL	BDL	BDL	BDL
0,0,0-Triethylphosphorothioate		ug/l	BDL	BDL	BDL	BDL	BDL
Ortho-toluidine		ug/l	BDL	BDL	BDL	BDL	BDL
Para-Phenylenediamine		ug/l	BDL	BDL	BDL	BDL	BDL
Ethyl Parathion		ug/l	BDL	BDL	BDL	BDL	BDL
P-Dimethylaminoazobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
Pentachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
Pentachloronitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
Phenacetin		ug/l	BDL	0.7	BDL	BDL	BDL
Phenanathrene		ug/l	BDL	0.88	BDL	BDL	BDL
Phorate		ug/l	BDL	BDL	BDL	BDL	BDL
Pronamide		ug/l	BDL	BDL	BDL	BDL	BDL
Pyrene	5,000	ug/l	BDL	BDL	BDL	BDL	BDL
Safrole		ug/l	BDL	BDL	BDL	BDL	BDL
Thionazin		ug/l	BDL	BDL	BDL	BDL	BDL
Volatile Organics							
1,1,1,2-Tetrachloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
	Date of Test:		10/27/09	10/27/09	10/27/09	10/27/09	10/27/09
	Standard(1)	Units					
1,1,2,2-Tetrachloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	700	ug/l	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene		ug/l	BDL	BDL	BDL	BDL	BDL
1,1-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	500	ug/l	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	7,500	ug/l	18.9	9.6	11.4	9	4.6
2,2-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
2-Butanone	200,000	ug/l	BDL	BDL	BDL	BDL	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone		ug/l	BDL	BDL	BDL	BDL	BDL
Acetone		ug/l	BDL	BDL	BDL	BDL	BDL
Acetonitrile		ug/l	BDL	BDL	BDL	BDL	BDL
Acrolein		ug/l	BDL	BDL	BDL	BDL	BDL
Acrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL
Allyl chloride		ug/l	BDL	BDL	BDL	BDL	BDL
Benzene	500	ug/l	BDL	BDL	BDL	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Bromomethane		ug/l	BDL	BDL	BDL	BDL	BDL
Carbon disulfide		ug/l	BDL	BDL	BDL	BDL	BDL
Carbon tetrachloride	500	ug/l	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	100,000	ug/l	BDL	BDL	BDL	BDL	BDL
Chloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
Chloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Chloroprene		ug/l	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene		ug/l	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL
Dichlorodifluoromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Dichloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Ethyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL
Ethylbenzene		ug/l	56.4	40.2	40.5	34.7	33.4
Ethylene dibromide		ug/l	BDL	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL	BDL
Isobutyl Alcohol		ug/l	BDL	BDL	BDL	BDL	BDL
Methacrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL
Methyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL
Propionitrile		ug/l	BDL	BDL	BDL	BDL	BDL
Styrene		ug/l	BDL	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	700	ug/l	BDL	BDL	BDL	BDL	BDL
Toluene		ug/l	18	60.2	44.4	51.5	7.1
Total Xylenes		ug/l	93.5	105	97.6	72.9	67.8
trans-1,2-Dichloroethene		ug/l	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL	BDL
Trichloroethene	500	ug/l	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6,000	ug/l	BDL	BDL	BDL	BDL	BDL
Vinyl acetate		ug/l	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	200	ug/l	BDL	BDL	BDL	BDL	BDL
1,2 diphenylhydrazine		ug/l	BDL	BDL	BDL	BDL	BDL

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

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

Table 2-7
Leachate Analytical Summary
Central County Solid Waste Disposal Complex
First Half 2010

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
	Date of Test:		03/24/10	03/24/10	03/24/10	03/24/10	03/24/10
	Standard(1)	Units					
Field Measurements							
Temperature			30.63	35.25	39.68	36.87	37.11
Turbidity		NTU	61.2	56.1	49.6	57.7	38.6
pH		STD	7.21	7.48	7.65	7.41	7.32
Conductivity		umhos/cm	4232	21013	13015	20580	12311
Dissolved Oxygen (DO)		mg/l	4.98	3.57	4.14	3.18	2.91
Inorganics							
Bicarbonate alkalinity		mg/l	2980	7740	9160	7020	2610
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL	BDL
Calcium		ug/l	229000	169000	156000	157000	231000
Chloride		mg/l	658	2620	2230	2110	727
Iron		ug/l	2520	5240	1990	2130	1060
Magnesium		ug/l	55000	64200	79700	66600	68000
Mercury	200	ug/l	BDL	BDL	BDL	BDL	BDL
Nitrate		mg/l	BDL	0.152	0.074	0.151	0.065
Nitrite		mg/l	0.005	BDL	0.063	BDL	0.005
Nitrate-Nitrite		mg/l	0.005	0.152	0.137	0.151	0.07
Potassium		ug/l	224000	694000	919000	749000	383000
Sodium		ug/l	700000	2130000	1980000	1940000	586000
Sulfate		mg/l	BDL	BDL	BDL	BDL	BDL
Total Ammonia - N		mg/l	364	1180	1060	910	343
Total Alkalinity		mg/l	2980	7740	9160	7020	2610
Total Dissolved Solids (TDS)		mg/l	3110	9530	7400	6550	4400

Notes: (1) - Regulatory standard listed in 40 CFR Part 261.24. shading = exceedance of the regulatory level.

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

Table 2-8
Leachate Analytical Summary
Central County Solid Waste Disposal Complex
Second Half 2010

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Leach P2-1
	Date of Test:		10/27/10	10/27/10	10/27/10	10/27/10	10/27/10	10/27/10
	Standard(1)	Units						
Field Measurements								
Temperature			31.08	37.76	40.08	39.33	37.67	29.31
Turbidity			13.7	26.5	17.6	21.2	23	5.38
pH		STD	7.25	7.63	7.79	7.66	7.38	6.59
Conductivity		umhos/cm	9922	19413	25433	21991	11308	780
Dissolved Oxygen (DO)		mg/l	3.65	2.23	1.78	3.4	0.9	2.34
Inorganics								
Antimony		ug/l	42.3	28.8	85.7	9.9	11.5	BDL
Arsenic	5000	ug/l	BDL	253	436	156	102	5.2
Barium	100000	ug/l	7.4	122	188	104	125	55.6
Beryllium		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bicarbonate alkalinity		mg/l	NA	NA	NA	NA	NA	NA
Biochemical Oxygen Demand		mg/l	75.6	176	175	65.7	51.7	BDL
Cadmium		ug/l	NA	BDL	0.94	BDL	BDL	BDL
Carbonate Alkalinity		mg/l	NA	NA	NA	NA	NA	NA
Calcium		ug/l	NA	NA	NA	NA	NA	NA
Chloride		mg/l	792	1850	2560	2320	936	21.2
Chromium	5000	ug/l	BDL	41	592	371	141	BDL
Cobalt		ug/l	BDL	51.8	68.7	78.7	61.1	BDL
Copper		ug/l	BDL	BDL	9.9	5.4	13	BDL
Cyanide		mg/l	BDL	0.042	0.053	0.027	BDL	BDL
Iron		ug/l	66.9	3140	3220	1890	1290	3520
Lead	5000	ug/l	BDL	BDL	5.2	BDL	BDL	BDL
Magnesium		ug/l	NA	NA	NA	NA	NA	NA
Mercury	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Nickel		ug/l	BDL	51.6	128	138	61.4	2.7
Nitrate		mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Nitrite		mg/l	0.014	0.131	0.073	0.031	0.08	BDL
Nitrate-Nitrite		mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Potassium		ug/l	NA	NA	NA	NA	NA	NA
Selenium	1000	ug/l	BDL	15.7	BDL	BDL	BDL	BDL
Silver	5000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Sodium		ug/l	38800	1790000	2100000	1490000	855000	13200
Sulfate		mg/l	NA	NA	NA	NA	NA	BDL
Total Ammonia - N		mg/l	599	1150	1890	1150	581	2.6
Thallium		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tin as SN		ug/l	BDL	BDL	92.5	63.7	BDL	BDL
Total Alkalinity		mg/l	NA	NA	NA	NA	NA	NA
Total Dissolved Solids (TDS)		mg/l	3220	7380	12100	9140	4900	422
Total Sulfide		mg/l	6.8	12.4	32.3	31.9	6.5	BDL
Vanadium		ug/l	13.1	32.5	140	90.6	52.6	7.4
Zinc		ug/l	BDL	BDL	175	55.8	16.6	BDL
Pesticides & Herbicides								
2,4-D	10,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4,5-T		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3 & 4 methylphenol	200,000	ug/l	178	35.0	68.7	BDL	BDL	BDL
A-BHC		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Aldrin		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
B-BHC		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chlordane	30	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
D-BHC		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dinoseb		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Endosulfan Sulfate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Endosulfan-I		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Endosulfan-II		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Endrin	20	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Endrin Aldehyde		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
G-BHC(Lindane)	400	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Heptachlor	130	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Heptachlor Epoxide	130	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methoxychlor	10,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1016		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1221		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1232		ug/l	BDL	BDL	BDL	BDL	BDL	BDL

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Leach P2-1
	Date of Test:		10/27/10	10/27/10	10/27/10	10/27/10	10/27/10	10/27/10
	Standard(l)	Units						
PCB-1242		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1248		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1254		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1260		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PP-DDD		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PP-DDE		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PP-DDT		ng/l	BDL	BDL	BDL	BDL	BDL	BDL
Silvex	1,000	ug/l	BDL	BDL	9.4	14	1.8	BDL
Toxaphene	500	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Organics, Acid Extractables								
2,4,6-Trichlorophenol	2,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,3,4,6-Tetrachlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4,5-Trichlorophenol	400,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dichlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dimethylphenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,6-Dichlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Chlorophenol		ng/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Methylphenol	200,000	ug/l	BDL	20.0	BDL	BDL	BDL	BDL
2-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4,6-Dinitro-2-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Chloro-3-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	100,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Phenol		ug/l	116	BDL	BDL	BDL	BDL	BDL
Base Neutrals								
1,2,4,5-Tetrachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5-Trinitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dinitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1-Methylnaphthalene		ug/l	1.2	BDL	1.2	BDL	BDL	BDL
1,4-Naphthoquinone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1-Naphthylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrotoluene	130	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,6-Dinitrotoluene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Acetylaminoflourene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Chloronaphthalene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Methylnaphthalene		ug/l	1.4	1.8	1.5	BDL	BDL	BDL
2-Naphthylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3,3-Dichlorobenzidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3,3-Dimethylbenzidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3-Methylcholanthrene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Aminobiphenyl		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Bromophenyl-phenylether		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Chloroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Chlorophenylphenylether		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Nitronaline		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
5-Nitro-o-toluidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
7,12-Dimethylbenz(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acenaphthene		ug/l	BDL	BDL	BDL	BDL	BDL	0.53
Acenaphthylene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acetophenone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)pyrene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(b)flouranthene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(g,h,i)perylene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(k)flouranthene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzyl alcohol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethoxy)methane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-chloro-1-methylethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-ethylhexyl)phthalate		ug/l	BDL	13.9	BDL	BDL	BDL	BDL
Butylbenzylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzilate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chrysene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Diallate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibenz(a,h)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	0.64

Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Leach P2-1
	Date of Test:		10/27/10	10/27/10	10/27/10	10/27/10	10/27/10	10/27/10
	Standard(1)	Units						
Dibenzofuran		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Diethylphthalate		ug/l	8.5	BDL	BDL	BDL	BDL	BDL
Dimethoate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dimethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Di-N-butylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Di-N-octylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Disulfoton		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Famphur		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Flouranthene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Flourene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	130	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	500	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Hexachloroethane	3,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Hexylchloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Isodrin		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Isophorone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Isosafrole		ug/l	BDL	23.1	BDL	BDL	BDL	BDL
Keponc		ug/l	ND	ND	ND	ND	ND	ND
Methapyrilene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methyl parathion		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene		ug/l	15.7	18.5	37.6	16.6	7.8	BDL
Nitrobenzene	2,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodiethylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodimethylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodi-n-butylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitroso-di-n-propylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodiphenylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosoethylmethylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosopiperidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosopyrrolidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
0,0,0-Triethylphosphorothioate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ortho-toluidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Para-Phenylenediamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl Parathion		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
P-Dimethylaminoazobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Pentachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Pentachloronitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Phenacetin		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Phenanathrene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Phorate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Pronamide		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Pyrene	5,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Safrole		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Thionazin		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Volatile Organics								
1,1,1,2-Tetrachloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane		ug/l	0.14	0.22	0.16	0.29	0.11	BDL
1,1-Dichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	500	ug/l	BDL	BDL	BDL	BDL	BDL	0.65
1,2-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	7,500	ug/l	19.7	12.5	BDL	BDL	BDL	BDL
2,2-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	1.0
2-Butanone	200,000	ug/l	59.7	53.5	130	BDL	BDL	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acetone		ug/l	61.5	38.6	161	BDL	BDL	BDL
Acetonitrile		ug/l	BDL	BDL	252	116	135	6.8

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Analyte	Location:		Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Leach P2-1
	Date of Test:		10/27/10	10/27/10	10/27/10	10/27/10	10/27/10	10/27/10
	Standard(1)	Units						
Acrolein		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Allyl chloride		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	500	ug/l	4.1	BDL	4.0	5.6	9.6	BDL
Bromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbon disulfide		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbon tetrachloride	500	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	100,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloroprene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene		ug/l	2.6	3.3	3.4	BDL	3.5	BDL
cis-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichlorodifluoromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichloromethane		ug/l	BDL	BDL	13.9	BDL	BDL	BDL
Ethyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene		ug/l	18.8	47.5	45.7	47.7	50.3	BDL
Ethylene dibromide		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Isobutyl Alcohol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methacrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Propionitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Styrene		ug/l	BDL	4.8	4.1	2.6	3.3	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	700	ug/l	BDL	BDL	BDL	BDL	BDL	0.66
Toluene		ug/l	3.1	62.4	64.1	26.8	35.6	BDL
Total Xylenes		ug/l	26.0	113	116	82.5	85.7	0.74
trans-1,2-Dichloroethene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tri bromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	500	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl acetate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2 diphenylhydrazine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL

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

Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units. NA = not analyzed.

Table 2-9
Goundwater Analytical Summary
First Half 2007

Analyte	Surficial Aquifer Wells									
	Well:		MW-1R	MW-4R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R	MW-13#
	Date of Test:		4/24/2007	4/24/2007	4/25/2007	4/29/2007	4/29/2007	4/25/2007	4/25/2007	3/23/2007
	Standard ⁽¹⁾	Units								
Field Measurements										
Temperature		degrees C	21.19	21.54	24.39	25.24	23.93	23.44	23.19	21.65
pH	6.5-8.5*	STD	6.8	5.09	6.12	6.39	6.38	6.54	6.67	5.92
Conductivity		umhos/cm	1088	88	1720	709	1309	445	897	427
Dissolved Oxygen (DO)		mg/l	0.82	0.8	0.38	0.6	0.62	0.95	0.42	0.36
Turbidity		NTU	11.5	8	1.1	1.0	1.2	1.5	0.5	2.6
Inorganics										
Antimony	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	10	ug/l	18	BDL	37	49	10	5.8	BDL	15
Barium	2000	ug/l	61	26	61	100	83	14	49	42
Beryllium	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.59
Bicarbonate Alkalinity		mg/l	NA	NA	NA	NA	NA	NA	NA	240
Cadmium	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.57
Carbonate Alkalinity		mg/l	NA	NA	NA	NA	NA	NA	NA	BDL
Chloride	250*	mg/l	630	39	48	25	80	15	64	120
Chromium	100	ug/l	12	18	3.0	BDL	2.7	BDL	BDL	14
Cobalt		ug/l	5.1	BDL	8.2	7.1	5.3	BDL	BDL	2.3
Copper	1000*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.6
Iron	300*	ug/l	3400	3800	43000	48000	55000	1300	1900	19000
Lead	15	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Mercury	2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nitrate	10	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nitrite		mg/l	BDL	BDL	BDL	0.079	0.021	BDL	BDL	BDL
Nitrogen- NO3/NO2		mg/l	BDL	BDL	BDL	0.039	0.052	BDL	BDL	BDL
Selenium	50	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Silver	100*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium	160000	ug/l	510000	16000	79000	24000	82000	7800	20000	98000
Sulfate	250*	mg/l	NA	NA	NA	NA	NA	NA	NA	11
Sulfide		mg/l	NA	NA	NA	NA	NA	NA	NA	0.56
Thallium	2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total Alkalinity		mg/l	NA	NA	NA	NA	NA	NA	NA	240
Total Ammonia-N	2.8	mg/l	0.2	0.11	13	6.6	5.5	0.19	0.29	1.8
Total Dissolved Solids (TDS)	500*	mg/l	2300	170	1000	990	790	320	710	680
Vanadium	49	ug/l	32	41	BDL	BDL	5.2	14	BDL	30
Zinc	5000*	ug/l	23	10	BDL	BDL	BDL	BDL	BDL	BDL
Organics										
Acetone	700	ug/l	2.8	BDL	BDL	6.6	3.6	BDL	BDL	BDL
Acrylonitrile	8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	0.8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	10	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Butanone	4200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon disulfide	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon tetrachloride	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	140	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dichloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylene dibromide	0.02	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	600	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	75	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Organics										
1,1-Dichloroethane	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Analyte	Surficial Aquifer Wells									
	Well:		MW-1R	MW-4R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R	MW-13#
	Date of Test:		4/24/2007	4/24/2007	4/25/2007	4/29/2007	4/29/2007	4/25/2007	4/25/2007	3/22/2007
	Standard ⁽¹⁾	Units								
1,2-Dichloroethane	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	7	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	70	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone	350	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Styrene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	1000	ug/l	BDL	BDL	0.17	BDL	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	2100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	42	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl acetate	250	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total xylenes	10000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. Those marked by an * are Secondary Drinking Water Standards (SDWSs). Shading = exceedance of criteria.
Abbreviations: BDL = below detection limits; umhos/cm = microohms per centimeter; mg/l = milligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; NA = Not analyzed.
the extended list of 8081, 8082, 8141, 8151, 8260, and 8270 parameters were run for MW-13, but no additional parameters were detected.

Table 2-10
Groundwater Analytical Summary
Second Half 2007

Analyte			Surficial Aquifer Wells					
	Well:		MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R
	Date of Test:		11/5/2007	11/18/2007	11/18/2007	11/18/2007	11/5/2007	11/5/2007
	Standard ⁽¹⁾	Units						
Field Measurements								
Temperature		degrees C	24.7	26.81	28.08	26.66	28.00	27.92
pH	6.5-8.5*	STD	6.23	6.17	6.39	6.24	5.79	6.01
Conductivity		umhos/cm	442	1851	1824	1481	212	219
Dissolved Oxygen (DO)		mg/l	0.44	0.46	1.05	0.8	1.1	0.68
Turbidity		NTU	2.15	2.00	2.52	1.28	2.53	6.7
Inorganics								
Antimony	6	ug/l	BDL	BDL	0.76	BDL	0.51	BDL
Arsenic	10	ug/l	BDL	45	75	12	5.5	BDL
Barium	2000	ug/l	46	70	110	84	15	54
Beryllium	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloride	250*	mg/l	96	47	27	80	7.4	61
Chromium	100	ug/l	3.8	4.0	BDL	BDL	BDL	BDL
Cobalt		ug/l	BDL	8.3	6.2	5.6	BDL	6.0
Copper	1000*	ug/l	4.2	BDL	BDL	BDL	4.4	4.5
Iron	300*	ug/l	10000	55000	50000	54000	910	1000
Lead	15	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Mercury	2	ug/l	BDL	0.56	BDL	BDL	BDL	BDL
Nickel	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Nitrate	10	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Nitrite		mg/l	BDL	0.051	0.035	0.06	BDL	BDL
Nitrogen- NO3/NO2		mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Selenium	50	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Silver	100*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Sodium	160000	ug/l	65000	75000	30000	82000	21000	70000
Thallium	2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Total Ammonia-N	2.8	mg/l	0.18	14	7.2	4.9	0.34	0.68
Total Dissolved Solids (TDS)	500*	mg/l	560	1088	1108	928	260	880
Vanadium	49	ug/l	BDL	BDL	BDL	5.8	25	8.9
Zinc	5000*	ug/l	BDL	BDL	BDL	11	BDL	BDL
Organics								
Acetone	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acrylonitrile	8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	0.8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	10	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Butanone	4200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbon disulfide	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbon tetrachloride	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	140	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylene dibromide	0.02	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	600	ug/l	BDL	BDL	BDL	BDL	0.19	BDL
1,4-Dichlorobenzene	75	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL

Analyte			Surficial Aquifer Wells					
	Well:		MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R
	Date of Test:		11/5/2007	11/18/2007	11/18/2007	11/18/2007	11/5/2007	11/5/2007
	Standard ⁽¹⁾	Units						
1,1-Dichloroethene	7	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	70	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone	350	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Styrene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	1000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL	0.20	BDL
1,1,1-Trichloroethane	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	2100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	42	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl acetate	250	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Total xylenes	10000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL

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

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

Table 2-11
Groundwater Analytical Summary
First Half 2008

Analyte	Well		MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R
	Date of Test:		05/28/08	05/29/08	05/29/08	05/30/08	05/30/08	05/29/08
	Standard(1)	Units						
Field Measurements								
Temperature			23.7	26.6	26.13	27.32	27.76	26.6
Turbidity			10	4.97	2.98	2.35	3.19	1.99
pH	6.5-8.5*	STD	6.49	6.25	6.44	6.34	6.46	6.42
Conductivity		umhos/cm	593	1740	611	453	196	3510
Dissolved Oxygen (DO)		mg/l	0.4	0.14	0.54	0.46	14.3	0.22
Inorganics								
Antimony	6	ug/l	BDL	BDL	BDL	BDL	11.5	2.27
Arsenic	10	ug/l	2.9	49.8	55.5	12.8	2.81	5.74
Barium	2000	ug/l	34.1	69	111	93.8	23.5	167
Beryllium	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bicarbonate alkalinity		mg/l	290	820	970	620	150	350
Cadmium	5	ug/l	BDL	BDL	0.848	BDL	BDL	BDL
Carbonate Alkalinity		mg/l	0.15	0.25	0.41	0.21	BDL	0.6
Calcium		ug/l	67900	153000	274000	140000	70600	339000
Chloride	250*	mg/l	62	39	27	85	15	620
Chromium	100	ug/l	5.42	9.08	1.28	3.3	1.78	1.75
Cobalt		ug/l	BDL	1.99	0.92	1.39	BDL	BDL
Copper	1000*	ug/l	0.689	3.48	2.12	BDL	BDL	9.98
Cyanide		mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Iron	300*	ug/l	7160	129000	48300	63700	948	5150
Lead	15	ug/l	BDL	BDL	1.5	BDL	BDL	BDL
Magnesium		ug/l	29600	75400	47700	44500	17500	62100
Mercury	2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	100	ug/l	2.73	4.39	11.6	2.08	1.6	10.9
Nitrate	10	mg/l	0.13	BDL	BDL	BDL	0.14	0.14
Nitrite		mg/l	BDL	BDL	0.073	BDL	BDL	BDL
Nitrate-Nitrite		mg/l	0.13	BDL	BDL	BDL	0.14	0.14
Potassium		ug/l	452	5620	4320	1270	7360	287000
Selenium	50	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Silver	100*	ug/l	BDL	3.4	BDL	BDL	BDL	BDL
Sodium	160000	ug/l	42400	67100	26600	69200	7910	223000
Sulfate	250*	mg/l	4.7	0.93	0.93	0.74	110	700
Total Ammonia - N	2.8	mg/l	0.11	20	13	7.8	0.23	1.0
Thallium		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tin as SN		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Total Alkalinity		mg/l	290	820	970	620	150	350
Total Dissolved Solids (TDS)	500*	mg/l	440	820	1000	790	370	2600
Total Sulfide		mg/l	BDL	BDL	BDL	0.6	0.6	BDL
Vanadium	49	ug/l	4.4	11.3	1.1	4.98	41.1	1.62
Zinc	5000*	ug/l	15.6	23.4	32.6	15.3	19.1	13.7
Pesticides & Herbicides								
2,4-D		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2,4,5-T		ug/l	BDL	BDL	BDL	BDL	BDL	NA
3 & 4 methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
A-BHC		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Aldrin		ug/l	BDL	BDL	BDL	BDL	BDL	NA
B-BHC		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Chlordane		ug/l	BDL	BDL	BDL	BDL	BDL	NA
D-BHC		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Dieldrin		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Dinoseb		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Endosulfan Sulfate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Endosulfan-I		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Endosulfan-II		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Endrin		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Endrin Aldehyde		ug/l	BDL	BDL	BDL	BDL	BDL	NA
G-BHC(Lindane)		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Heptachlor		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Heptachlor Epoxide		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Methoxychlor		ug/l	BDL	BDL	BDL	BDL	BDL	NA
PCB-1016		ug/l	BDL	BDL	BDL	BDL	BDL	NA
PCB-1221		ug/l	BDL	BDL	BDL	BDL	BDL	NA
PCB-1232		ug/l	BDL	BDL	BDL	BDL	BDL	NA
PCB-1242		ug/l	BDL	BDL	BDL	BDL	BDL	NA
PCB-1248		ug/l	BDL	BDL	BDL	BDL	BDL	NA

Analyte	Well		MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R
	Date of Test:		05/28/08	05/29/08	05/29/08	05/30/08	05/30/08	05/29/08
	Standard(I)	Units						
PCB-1254		ug/l	BDL	BDL	BDL	BDL	BDL	NA
PCB-1260		ug/l	BDL	BDL	BDL	BDL	BDL	NA
PP-DDD		ug/l	BDL	BDL	BDL	BDL	BDL	NA
PP-DDE		ug/l	BDL	BDL	BDL	BDL	BDL	NA
PP-DDT		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Silvex		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Toxaphene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Organics, Acid Extractables								
2,4,6-Trichlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2,3,4,6-Tetrachlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2,4,5-Trichlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2,4-Dichlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2,4-Dimethylphenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2,4-Dinitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2,6-Dichlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2-Chlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2-Methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
4,6-Dinitro-2-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
4-Chloro-3-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
4-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Pentachlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Phenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Base Neutrals								
1,2,4,5-Tetrachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
1,2,4-Trichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
1,3,5-Trinitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
1,3-Dinitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
1-Methylnaphthalene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
1,4-Naphthoquinone		ug/l	BDL	BDL	BDL	BDL	BDL	NA
1-Naphthylamine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2,4-Dinitrotoluene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2,6-Dinitrotoluene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2-Acetylaminofluorene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2-Chloronaphthalene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2-Methylnaphthalene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2-Naphthylamine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	NA
3,3-Dichlorobenzidine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
3,3-Dimethylbenzidine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
3-Methylcholanthrene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
3-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	NA
4-Aminobiphenyl		ug/l	BDL	BDL	BDL	BDL	BDL	NA
4-Bromophenyl-phenylether		ug/l	BDL	BDL	BDL	BDL	BDL	NA
4-Chloroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	NA
4-Chlorophenylphenylether		ug/l	BDL	BDL	BDL	BDL	BDL	NA
4-Nitronaline		ug/l	BDL	BDL	BDL	BDL	BDL	NA
5-Nitro-o-toluidine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
7,12-Dimethylbenz(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Acenaphthene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Acenaphthylene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Acetophenone		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Benzo(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Benzo(a)pyrene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Benzo(b)fluoranthene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Benzo(g,h,i)perylene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Benzo(k)fluoranthene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Benzyl alcohol		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Bis(2-chloroethoxy)methane		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Bis(2-chloroethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Bis(2-chloro-1-methylethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Bis(2-ethylhexyl)phthalate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Butylbenzylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Chlorobenzilate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Chrysene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Diallylate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Dibenz(a,h)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Dibenzofuran		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Diethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	NA

Analyte	Well		MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R
	Date of Test:		05/28/08	05/29/08	05/29/08	05/30/08	05/30/08	05/29/08
	Standard(1)	Units						
Dimethoate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Dimethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Di-N-butylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Di-N-octylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Disulfoton		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Ethylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Famphur		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Flouranthene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Flourene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Hexachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Hexachlorobutadiene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Hexachlorocyclopentadiene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Hexachloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Hexylchloropropene		ng/l	BDL	BDL	BDL	BDL	BDL	NA
Indeno(1,2,3-cd)pyrene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Isodrin		ng/l	BDL	BDL	BDL	BDL	BDL	NA
Isophorone		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Isosafrole		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Kepone		ug/l	ND	ND	ND	ND	ND	NA
Methapyrilene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Methyl parathion		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Methylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Naphthalene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Nitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
N-Nitrosodiethylamine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
N-Nitrosodimethylamine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
N-Nitrosodi-n-butylamine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
N-Nitroso-di-n-propylamine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
N-Nitrosodiphenylamine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
N-Nitrosoethylmethylamine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
N-Nitrosopiperidine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
N-Nitrosopyrrolidine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
0,0,0-Triethylphosphorothioate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Ortho-toluidine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Para-Phenylenediamine		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Ethyl Parathion		ug/l	BDL	BDL	BDL	BDL	BDL	NA
P-Dimethylaminoazobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Pentachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Pentachloronitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Phenacetin		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Phenanathrene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Phorate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Pronamide		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Pyrene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Safrole		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Thionazin		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Volatile Organics								
1,1,1,2-Tetrachloroethane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	7	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	42	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	600	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	75	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,2-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Butanone	4,200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone	350	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acetone	700	ug/l	9.1	BDL	BDL	BDL	BDL	8.7
Acetonitrile	8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acrolein		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL

Analyte	Well		MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R
	Date of Test:		05/28/08	05/29/08	05/29/08	05/30/08	05/30/08	05/29/08
	Standard(1)	Units						
Allyl chloride		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromochloromethane	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	10	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbon disulfide	700	ug/l	BDL	BDL	BDL	BDL	BDL	1.4
Carbon tetrachloride	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	140	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloroprene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	70	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichlorodifluoromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylene dibromide	0.02	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Isobutyl Alcohol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methacrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Propionitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Styrene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	3	ug/l	BDL	BDL	0.35	BDL	BDL	BDL
Toluene	1000	ug/l	BDL	BDL	0.78	0.39	BDL	BDL
Total Xylenes	10000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	2100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl acetate	250	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2 diphenylhydrazine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL

Notes: (1) - Regulatory standard listed in 62-550, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level.

Standards were not provided for pesticides, herbicides, and semi-volatiles because none were detected. * = Secondary standard

Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units. NA = not analyzed.

Table 2-12
Groundwater Analytical Summary
Second Half 2008

Analyte	Surficial Aquifer Wells							
	Well:		MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R
	Date of Test:		10/15/2008	10/15/2008	10/15/2008	10/20/2008	10/21/2008	10/21/2008
	Standard ⁽¹⁾	Units						
Field Measurements								
Temperature		degrees C	26.02	27.09	28.67	27.15	26.73	27.46
pH	6.5-8.5*	STD	6.85	6.3	6.39	6.44	6.51	6.47
Conductivity		umhos/cm	216	600	509	581	275	488
Dissolved Oxygen (DO)		mg/l	0.34	0.33	0.37	2.14	0.16	0.21
Turbidity		NTU	6.0	1.4	2.5	1.8	1.3	3.6
Inorganics								
Antimony	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	10	ug/l	BDL	58	57	13	BDL	BDL
Barium	2000	ug/l	24	79	110	75	25	54
Beryllium	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bicarbonate Alkalinity		mg/l	250	880	1200	700	280	350
Cadmium	5	ug/l	BDL	1.9	0.71	0.68	BDL	BDL
Calcium		ug/l	85000	170000	310000	170000	74000	140000
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloride	250*	mg/l	24	53	33	82	39	120
Chromium	100	ug/l	BDL	9.7	BDL	BDL	BDL	BDL
Cobalt		ug/l	BDL	6.2	6.4	BDL	BDL	BDL
Copper	1000*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Iron	300*	ug/l	2600	110000	43000	58000	390	370
Lead	15	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Magnesium		ug/l	19000	75000	45000	52000	14000	27000
Mercury	2	ug/l	BDL	0.054	BDL	0.055	BDL	0.033
Nickel	100	ug/l	BDL	BDL	BDL	BDL	BDL	2.7
Nitrate	10	mg/l	BDL	BDL	0.004	BDL	BDL	BDL
Nitrite		mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Nitrogen- NO3/NO2		mg/l	BDL	BDL	0.004	BDL	BDL	BDL
Potassium		ug/l	1200	3900	7000	1800	71000	120000
Selenium	50	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Silver	100*	ug/l	BDL	BDL	BDL	BDL	BDL	3.0
Sodium	160000	ug/l	18000	75000	35000	81000	30000	64000
Sulfate	250*	mg/l	14	BDL	BDL	BDL	26	170
Thallium	2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Total Alkalinity		mg/l	250	880	1200	700	280	350
Total Ammonia-N	2.8	mg/l	0.084	13	11	6.4	1.2	1.2
Total Dissolved Solids (TDS)	500*	mg/l	350	950	980	870	490	960
Vanadium	49	ug/l	BDL	9.2	BDL	BDL	18	6.2
Zinc	5000*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Organics								
Acetone	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Acrylonitrile	8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	0.8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	10	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Butanone	4200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbon disulfide	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbon tetrachloride	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	140	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL

Analyte	Surficial Aquifer Wells							
	Well:		MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R
	Date of Test:		10/15/2008	10/15/2008	10/15/2008	10/20/2008	10/21/2008	10/21/2008
	Standard ⁽¹⁾	Units						
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylene dibromide	0.02	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	600	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	75	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
<i>Organics</i>								
1,1-Dichloroethane	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	7	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	70	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone	350	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Styrene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	1000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	2100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	42	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl acetate	250	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Total xylenes	10000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL

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

Table 2-13
Goundwater Analytical Summary
First Half 2009

Analyte	Surficial Aquifer Wells					
	Well:		MW-1R	MW-8A	MW-9	MW- 10R
	Date of Test:		5/18/2009	5/18/2009	5/21/2009	5/26/2009
	Standard ⁽¹⁾	Units				
Field Measurements						
Temperature		degrees C	22.33	24.5	26.54	25.4
pH	6.5-8.5*	STD	6.7	6.16	6.26	6.35
Conductivity		umhos/cm	2233	1645	1697	1201
Dissolved Oxygen (DO)		mg/l	1.37	1.16	1.05	2.95
Turbidity		NTU	14.1	1.5	2.1	3.99
Inorganics						
Antimony	6	ug/l	BDL	BDL	BDL	0.76
Arsenic	10	ug/l	BDL	58	68	12
Barium	2000	ug/l	19	77	90	90
Beryllium	4	ug/l	BDL	BDL	BDL	BDL
Bicarbonate Alkalinity		mg/l	310	750	871	651
Cadmium	5	ug/l	BDL	0.64	BDL	BDL
Calcium		ug/l	11000	170000	230000	150000
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL
Chloride	250*	mg/l	43	26	34	73
Chromium	100	ug/l	BDL	7.0	BDL	BDL
Cobalt		ug/l	BDL	BDL	BDL	BDL
Copper	1000*	ug/l	BDL	BDL	BDL	2.5
Iron	300*	ug/l	1700	130000	51000	64000
Lead	15	ug/l	BDL	BDL	BDL	BDL
Magnesium		ug/l	26000	85000	65000	53000
Mercury	2	ug/l	BDL	BDL	BDL	0.055
Nickel	100	ug/l	BDL	BDL	BDL	BDL
Nitrate	10	mg/l	BDL	0.011	BDL	BDL
Nitrite		mg/l	BDL	0.02	0.066	0.004
Nitrogen- NO3/NO2		mg/l	BDL	0.031	BDL	BDL
Potassium		ug/l	350	5200	6700	1900
Selenium	50	ug/l	BDL	BDL	BDL	10
Silver	100*	ug/l	BDL	BDL	BDL	9.7
Sodium	160000	ug/l	25000	59000	58000	84000
Sulfate	250*	mg/l	14	BDL	BDL	BDL
Thallium	2	ug/l	BDL	BDL	BDL	0.96
Total Alkalinity		mg/l	310	750	871	651
Total Ammonia-N	2.8	mg/l	BDL	12	8.5	4.6
Total Dissolved Solids (TDS)	500*	mg/l	420	880	920	810
Vanadium	49	ug/l	BDL	13	BDL	6.7
Zinc	5000*	ug/l	BDL	BDL	BDL	BDL
Organics						
Acetone	700	ug/l	BDL	BDL	BDL	BDL
Acrylonitrile	8	ug/l	BDL	BDL	BDL	BDL
Benzene	1	ug/l	BDL	BDL	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL	BDL	BDL
Bromoform	4	ug/l	BDL	BDL	BDL	BDL
Bromodichloromethane	0.8	ug/l	BDL	BDL	BDL	BDL
Bromomethane	10	ug/l	BDL	BDL	BDL	BDL
2-Butanone	4200	ug/l	BDL	BDL	BDL	BDL

Analyte	Surficial Aquifer Wells					
	Well:		MW-1R	MW-8A	MW-9	MW- 10R
	Date of Test:		5/18/2009	5/18/2009	5/21/2009	5/26/2009
	Standard ⁽¹⁾	Units				
Carbon disulfide	700	ug/l	BDL	BDL	BDL	BDL
Carbon tetrachloride	3	ug/l	BDL	BDL	BDL	BDL
Chlorobenzene	100	ug/l	BDL	BDL	BDL	BDL
Chloroethane	140	ug/l	BDL	BDL	BDL	BDL
Chloromethane	5	ug/l	BDL	BDL	BDL	BDL
Dibromochloromethane	1	ug/l	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL
Dichloromethane	5	ug/l	BDL	BDL	BDL	BDL
Ethylene dibromide	0.02	ug/l	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	0.2	ug/l	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	600	ug/l	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	75	ug/l	BDL	BDL	BDL	BDL
Organics						
1,1-Dichloroethane	700	ug/l	BDL	BDL	BDL	BDL
1,2-Dichloroethane	3	ug/l	BDL	BDL	BDL	BDL
1,1-Dichloroethene	7	ug/l	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	70	ug/l	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	100	ug/l	BDL	BDL	BDL	BDL
1,2-Dichloropropane	5	ug/l	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL
Ethylbenzene	700	ug/l	BDL	BDL	BDL	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone	350	ug/l	BDL	BDL	BDL	BDL
Styrene	100	ug/l	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	1	ug/l	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	0.2	ug/l	BDL	BDL	BDL	BDL
Tetrachloroethene	3	ug/l	BDL	BDL	BDL	BDL
Toluene	1000	ug/l	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	200	ug/l	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	5	ug/l	BDL	BDL	BDL	BDL
Trichloroethene	3	ug/l	BDL	BDL	BDL	BDL
Trichloromethane	6	ug/l	BDL	BDL	BDL	BDL
Trichlorofluoromethane	2100	ug/l	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	42	ug/l	BDL	BDL	BDL	BDL
Vinyl acetate	250	ug/l	BDL	BDL	BDL	BDL
Vinyl chloride	1	ug/l	BDL	BDL	BDL	BDL
Total xylenes	10000	ug/l	BDL	BDL	BDL	BDL
Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. Those marked by an * are Secondary Drinking Water Standards (SDWSs). Abbreviations: BDL = below detection limits; umhos/cm = microohms per centimeter; mg/l = milligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; NA = Not analyzed. Shading = exceedance of criteria.						

Table 2-14
Goundwater Analytical Summary
Second Half 2009

Analyte	Surficial Aquifer Wells					
	Well:		MW-1R	MW-8A	MW-9	MW- 10R
	Date of Test:		10/26/2009	10/26/2009	10/26/2009	10/26/2009
	Standard ⁽¹⁾	Units				
Field Measurements						
Temperature		degrees C	25.26	26.25	28.63	29.25
pH	6.5-8.5*	STD	6.68	6.15	6.36	6.16
Conductivity		umhos/cm	607	1643	1667	1471
Dissolved Oxygen (DO)		mg/l	1.01	0.14	1.69	0.3
Turbidity		NTU	6.0	5.0	13.9	5.9
Inorganics						
Antimony	6	ug/l	BDL	BDL	BDL	0.76
Arsenic	10	ug/l	5.7	57.9	49.7	13.2
Barium	2000	ug/l	29.9	76.5	107	72.2
Beryllium	4	ug/l	BDL	BDL	BDL	BDL
Bicarbonate Alkalinity		mg/l	2880	762	943	7680
Cadmium	5	ug/l	BDL	0.54	BDL	BDL
Calcium		ug/l	95700	152000	252000	173000
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL
Chloride	250*	mg/l	43	BDL	BDL	65.7
Chromium	100	ug/l	4.2	9.5	BDL	BDL
Cobalt		ug/l	BDL	7.1	10.1	8.0
Copper	1000*	ug/l	BDL	BDL	BDL	BDL
Iron	300*	ug/l	8620	95100	38700	51100
Lead	15	ug/l	BDL	BDL	BDL	BDL
Magnesium		ug/l	20700	72400	44200	51300
Mercury	2	ug/l	BDL	BDL	BDL	BDL
Nickel	100	ug/l	BDL	BDL	BDL	BDL
Nitrate	10	mg/l	BDL	BDL	BDL	0.004
Nitrite		mg/l	BDL	0.256	0.072	BDL
Nitrogen- NO3/NO2		mg/l	BDL	BDL	0.057	0.004
Potassium		ug/l	BDL	3800	6800	2000
Selenium	50	ug/l	BDL	BDL	BDL	BDL
Silver	100*	ug/l	BDL	BDL	BDL	BDL
Sodium	160000	ug/l	23900	78300	44700	85900
Sulfate	250*	mg/l	15.7	BDL	BDL	BDL
Thallium	2	ug/l	BDL	BDL	BDL	BDL
Total Alkalinity		mg/l	2880	762	943	7680
Total Ammonia-N	2.8	mg/l	0.079	16.9	14.9	9.9
Total Dissolved Solids (TDS)	500*	mg/l	386	854	982	876
Vanadium	49	ug/l	12.7	8.9	BDL	6.7
Zinc	5000*	ug/l	BDL	BDL	12.1	BDL
Organics						
Acetone	700	ug/l	BDL	BDL	BDL	BDL
Acrylonitrile	8	ug/l	BDL	BDL	BDL	BDL
Benzene	1	ug/l	BDL	BDL	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL	BDL	BDL
Bromoform	4	ug/l	BDL	BDL	BDL	BDL
Bromodichloromethane	0.8	ug/l	BDL	BDL	BDL	BDL
Bromomethane	10	ug/l	BDL	BDL	BDL	BDL
2-Butanone	4200	ug/l	BDL	BDL	BDL	BDL

Analyte			Surficial Aquifer Wells			
	Well:		MW-1R	MW-8A	MW-9	MW- 10R
	Date of Test:		10/26/2009	10/26/2009	10/26/2009	10/26/2009
	Standard ⁽¹⁾	Units				
Carbon disulfide	700	ug/l	BDL	0.71	BDL	BDL
Carbon tetrachloride	3	ug/l	BDL	BDL	BDL	BDL
Chlorobenzene	100	ug/l	BDL	BDL	BDL	BDL
Chloroethane	140	ug/l	BDL	BDL	BDL	BDL
Chloromethane	5	ug/l	BDL	BDL	BDL	BDL
Dibromochloromethane	1	ug/l	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL
Dichloromethane	5	ug/l	BDL	BDL	BDL	BDL
Ethylene dibromide	0.02	ug/l	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	0.2	ug/l	BDL	BDL	BDL	BDL
1,2-Dichlorobcnzene	600	ug/l	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	75	ug/l	BDL	BDL	BDL	BDL
Organics						
1,1-Dichloroethane	700	ug/l	BDL	BDL	BDL	BDL
1,2-Dichloroethane	3	ug/l	BDL	BDL	BDL	BDL
1,1-Dichloroethene	7	ug/l	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	70	ug/l	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	100	ug/l	BDL	BDL	BDL	BDL
1,2-Dichloropropane	5	ug/l	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL
Ethylbenzene	700	ug/l	BDL	BDL	BDL	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone	350	ug/l	BDL	BDL	BDL	BDL
Styrene	100	ug/l	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	1	ug/l	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	0.2	ug/l	BDL	BDL	BDL	BDL
Tetrachloroethene	3	ug/l	BDL	BDL	BDL	BDL
Toluene	1000	ug/l	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	200	ug/l	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	5	ug/l	BDL	BDL	BDL	BDL
Trichloroethene	3	ug/l	BDL	BDL	BDL	BDL
Trichloromethane	6	ug/l	BDL	BDL	BDL	BDL
Trichlorofluoromethane	2100	ug/l	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	42	ug/l	BDL	BDL	BDL	BDL
Vinyl acetate	250	ug/l	BDL	BDL	BDL	BDL
Vinyl chloride	1	ug/l	BDL	BDL	BDL	BDL
Total xylenes	10000	ug/l	BDL	BDL	BDL	BDL
Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. Those marked by an * are Secondary Drinking Water Standards (SDWSs). Abbreviations: BDL = below detection limits . umhos/cm = microohms per centimeter. mg/l = miligrams per liter. NTU = nephelometric turbidity units. ug/l = micrograms per liter. NA = Not analyzed. Shading = exceedance of criteria.						

Table 2-15												
Groundwater Analytical Summary												
First Half 2010												
Analyte	Surficial Aquifer Wells											
	Well:	MW-1R	MW-8A	MW-9	MW-10R	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	
	Date of Test:	5/11/2010	5/10/2010	5/10/2010	5/11/2010	5/12/2010	5/13/2010	5/13/2010	5/12/2010	5/12/2010	5/12/2010	
	Standard ⁽¹⁾	Units										
Field Measurements												
Temperature		degrees C	25.0	26.8	26.0	24.4	24.3	24.0	24.7	23.8	24.2	24.7
pH	6.5-8.5*	STD	6.74	6.23	6.43	6.25	6.34	6.23	6.18	6.26	5.95	6.48
Conductivity		umhos/cm	520	1387	1382	1502	3790	3000	1271	859	610	1462
Dissolved Oxygen (DO)		mg/l	0.16	0.12	0.2	0.099	0.743	0.51	0.61	0.35	0.57	0.48
Turbidity		NTU	6.8	2.7	2.4	3.1	1.2	8.8	7.9	10.6	9.4	15.8
Inorganics												
Aluminum	200*	ug/l	NA	NA	NA	NA	NA	NA	435	NA	2830	NA
Antimony	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	10	ug/l	BDL	43.7	35.0	10.1	47.3	40.7	70.0	BDL	42.2	76.7
Barium	2000	ug/l	28.1	59.7	96.5	62.5	228	95.4	96.4	33.6	36	165
Beryllium	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	DDL	1.1
Bicarbonate Alkalinity		mg/l	233	869	909	707	7680	1110	687	554	299	859
Cadmium	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		ug/l	83600	201000	292000	184000	790000	252000	219000	199000	50700	250000
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloride	250*	mg/l	23.6	38.9	BDL	65.9	132	305	75.9	1.3	12.2	95.2
Chromium	100	ug/l	BDL	5.6	BDL	BDL	BDL	3.7	3.9	BDL	8.2	60.9
Cobalt		ug/l	BDL	5.9	BDL	5.1	19.3	8.5	BDL	BDL	BDL	9.4
Copper	1000*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iron	300*	ug/l	4120	60300	39100	55700	46900	55900	105000	28100	63300	58200
Lead	15	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15.9
Magnesium		ug/l	15800	70700	46300	49400	166000	91000	16100	17900	18300	76200
Manganese	50*	ug/l	NA	NA	NA	NA	1010	10.8	NA	NA	NA	NA
Mercury	2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	100	ug/l	BDL	BDL	BDL	BDL	8.0	BDL	BDL	BDL	2.5	14.7
Nitrate	10	mg/l	BDL	0.01	BDL	0.013	BDL	BDL	BDL	BDL	BDL	BDL
Nitrite		mg/l	0.005	BDL	0.004	BDL	0.057	0.045	0.04	BDL	0.007	0.011
Nitrogen- NO3/NO2		mg/l	0.005	0.01	0.005	0.013	0.085	BDL	BDL	BDL	BDL	BDL
Potassium		ug/l	3700	4900	6600	1800	25200	7200	7200	820	3800	1800
Selenium	50	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Silver	100*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	DDL
Sodium	160000	ug/l	22100	74100	41300	81700	69900	256000	61200	5000	23900	113000
Sulfate	250*	mg/l	9.8	BDL	2.7	BDL	639	BDL	BDL	BDL	BDL	DDL
Thallium	2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total Alkalinity		mg/l	233	869	909	707	7680	1110	687	554	299	859
Total Ammonia-N	2.8	mg/l	0.066	12.5	13.7	7.1	4.1	12.5	25.1	1.3	22.4	3.2
Total Dissolved Solids (TDS)	500*	mg/l	381	982	1020	858	3540	1830	948	605	710	1180
Vanadium	49	ug/l	7.3	5.8	BDL	BDL	7.9	8.2	BDL	BDL	16.0	65.6
Zinc	5000*	ug/l	BDL	18.1	BDL	13.3	BDL	BDL	BDL	BDL	BDL	13.4
Organics												
Acetone	700	ug/l	BDL	BDL	BDL	BDL	8.3	BDL	BDL	BDL	BDL	BDL
Acrylonitrile	8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-ethylhexyl)phthalate	6	ug/l	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	0.8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	10	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Butanone	4200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon disulfide	700	ug/l	0.54	BDL	BDL	BDL	0.90	0.57	0.61	0.68	BDL	BDL
Carbon tetrachloride	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	140	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dichloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylene dibromide	0.02	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	600	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	75	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Organics												
1,1-Dichloroethane	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	7	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	70	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Analyte	Surficial Aquifer Wells											
	Well:		MW-1R	MW-8A	MW-9	MW-10R	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20
	Date of Test:		5/11/2010	5/10/2010	5/10/2010	5/11/2010	5/12/2010	5/13/2010	5/13/2010	5/12/2010	5/12/2010	5/12/2010
	Standard ⁽¹⁾	Units										
1,2-Dichloropropane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone	350	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Styrene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	1000	ug/l	BDL	0.68	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	2100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	42	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl acetate	250	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total xylenes	10000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Notes: (1) - Maximum Contaminant Level, as established in Chapter 62-550. Those marked by an * are Secondary Drinking Water Standards (SDWSs). Shading = exceedance of criteria.
Abbreviations: BDL = below detection limits; umhos/cm = microhms per centimeter; mg/l = milligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; NA = Not analyzed.

Table 2-16
Groundwater Analytical Summary
Second Half 2010

Analyte	Well		MW-1R	MW-8A	MW-9	MW-10R	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20
	Date of Test		10/18/10	10/14/10	10/14/10	10/18/10	10/14/10	10/15/10	10/15/10	10/18/10	10/18/10	10/18/10
	Standard (L)	Units										
Field Measurements												
Temperature			25.84	26.86	29.07	28.04	27.3	26.3	26.0	25.9	27.3	30.4
Turbidity			1.77	2.35	1.0	1.13	19.9	16.4	12.1	14	7	8
pH	6.5-8.5*	STD	6.61	6.30	6.45	6.17	6.29	6.32	6.20	6.29	6.08	6.58
Conductivity		umhos/cm	562	2005	2099	1656	3750	2713	1628	1268	823	2372
Dissolved Oxygen (DO)		mg/l	0.13	0.22	0.11	0.14	0.205	0.731	0.77	0.48	0.92	0.65
Inorganics												
Aluminum	200	ug/l	NA	NA	NA	NA	NA	NA	NA	NA	471	NA
Antimony	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Arsenic	10	ug/l	BDL	38.6	43.2	11.3	48.6	48.5	65.5	10.3	38.0	55.6
Barium	2000	ug/l	34.8	65.8	117	73.3	256	119	110	75.1	36.9	105
Beryllium	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bicarbonate alkalinity		mg/l	NA	1020	1030	700	NA	NA	785	710	NA	NA
Cadmium	5	ug/l	BDL	BDL	BDL	0.64	BDL	0.68	0.63	BDL	0.54	BDL
Carbonate Alkalinity		mg/l	NA	BDL	BDL	BDL	NA	NA	BDL	BDL	NA	NA
Calcium		ug/l	82000	253000	342000	178000	725000	234000	213000	246000	64600	255000
Chloride	250*	mg/l	35.1	29.2	38.7	70.5	131	317	68.5	16.4	12.7	86.0
Chromium	100	ug/l	BDL	2.7	BDL	BDL	BDL	3.8	3.2	18.2	2.6	BDL
Cobalt		ug/l	BDL	BDL	20.4	BDL	38.9	BDL	BDL	BDL	BDL	BDL
Copper	1000*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.0	BDL	BDL
Cyanide		mg/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Iron	300*	ug/l	6550	37700	39200	52900	49600	62000	116000	37100	76000	38900
Lead	15	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7.2	BDL	BDL
Magnesium		ug/l	12800	77700	57400	48600	164000	84000	18200	27600	22000	86600
Manganese	50*	ug/l	NA	NA	NA	NA	995	NA	NA	NA	NA	NA
Mercury	2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	100	ug/l	BDL	BDL	BDL	BDL	17.2	BDL	BDL	5.1	1.6	10.9
Nitrate	10	mg/l	0.014	0.01	0.011	BDL	BDL	BDL	0.01	NA	NA	NA
Nitrite		mg/l	BDL	BDL	BDL	BDL	0.042	0.011	BDL	NA	NA	NA
Nitrate-Nitrite		mg/l	0.014	0.01	0.011	BDL	BDL	0.011	0.01	NA	NA	NA
Potassium		ug/l	1000	5100	6000	1700	22400	6700	6500	1500	2500	1100
Selenium	50	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Silver	100*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sodium	160000	ug/l	18200	62900	43900	87400	77500	275000	64600	9200	18500	110000
Sulfate	250*	mg/l	7.2	BDL	BDL	BDL	392	BDL	BDL	BDL	4.9	27.4
Total Ammonia - N	2.8	mg/l	0.10	25.5	17.3	8.4	5.0	20.4	25.2	2.3	12.5	2.6
Thallium		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tin as Sn		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Total Alkalinity		mg/l	NA	1020	970	700	NA	NA	785	710	NA	NA
Total Dissolved Solids (TDS)	500*	mg/l	397	1090	1160	904	2810	1630	910	746	497	1350
Total Sulfide		mg/l	BDL	NA	NA	NA	1.8	2.1	NA	NA	BDL	1.6
Vanadium	49	ug/l	5.2	BDL	BDL	BDL	BDL	10.4	BDL	21.7	8.9	BDL
Zinc	5000*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pesticides & Herbicides												
2,4-D		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
2,4,5-T		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
3 & 4 methylphenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
A-BHC		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Aldrin		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
B-BHC		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Chlordane		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
D-BHC		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Dieldrin		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Dinoseb		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Endosulfan Sulfate		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Endosulfan-I		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Endosulfan-II		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Endrin		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Endrin Aldehyde		ug/l	BDL	NA	NA	NA	BDL	0.011	NA	NA	BDL	BDL
G-BHC(Lindane)		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Heptachlor		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Heptachlor Epoxide		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Methoxychlor		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
PCB-1016		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
PCB-1221		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
PCB-1232		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
PCB-1242		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
PCB-1248		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
PCB-1254		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
PCB-1260		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
PP-DDD		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
PP-DDE		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
PP-DDT		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Silvex		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Toxaphene		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Organics, Acid Extractables												
2,4,6-Trichlorophenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
2,3,4,6-Tetrachlorophenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
2,4,5-Trichlorophenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
2,4-Dichlorophenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
2,4-Dimethylphenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
2,4-Dinitrophenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
2,6-Dichlorophenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
2-Chlorophenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
2-Methylphenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
2-Nitrophenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
4,6-Dinitro-2-methylphenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
4-Chloro-3-methylphenol		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL

Analyte	Well											
		MW-1R	MW-8A	MW-9	MW-10R	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	
	Date of Test	10/18/10	10/14/10	10/14/10	10/18/10	10/14/10	10/15/10	10/15/10	10/18/10	10/18/10	10/18/10	
	Standard(1)	Units										
4-Nitrophenol	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Pentachlorophenol	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Phenol	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Base Neutrals												
1,2,4,5-Tetrachlorobenzene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
1,2,4-Trichlorobenzene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
1,3,5-Trinitrobenzene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
1,3-Dinitrobenzene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
1-Methylnaphthalene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
1,4-Naphthoquinone	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
1-Naphthylamine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
2,4-Dinitrotoluene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
2,6-Dinitrotoluene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
2-Acetylaminofluorene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
2-Chloronaphthalene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
2-Methylnaphthalene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
2-Naphthylamine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
2-Nitroaniline	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
3,3-Dichlorobenzidine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
3,3-Dimethylbenzidine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
3-Methylcholanthrene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
3-Nitroaniline	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
4-Aminobiphenyl	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
4-Bromophenyl-phenylether	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
4-Chloroaniline	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
4-Chlorophenylphenylether	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
4-Nitroaniline	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
5-Nitro-o-toluidine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
7,12-Dimethylbenz(a)anthracene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Acenaphthene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Acenaphthylene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Acetophenone	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Anthracene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Benzo(a)anthracene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Benzo(a)pyrene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Benzo(b)fluoranthene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Benzo(g,h,i)perylene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Benzo(k)fluoranthene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Benzyl alcohol	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Bis(2-chloroethoxy)methane	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Bis(2-chloroethyl)ether	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Bis(2-chloro-1-methylethyl)ether	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Bis(2-ethylhexyl)phthalate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Butylbenzylphthalate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Chlorobenzilate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Chrysene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Diallyl	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Dibenz(a,h)anthracene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Dibenzofuran	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Diethylphthalate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Dimethoate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Dimethylphthalate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Di-N-butylphthalate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Di-N-octylphthalate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Disulfoton	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Ethylmethanesulfonate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Famphur	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Flouranthene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Flourene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Hexachlorobenzene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Hexachlorobutadiene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Hexachlorocyclopentadiene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Hexachloroethane	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Hexylchloropropene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Indeno(1,2,3-cd)pyrene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Isodrin	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Isophorone	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Isosafrole	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Kepone	ug/l	ND	NA	NA	NA	ND	ND	NA	NA	ND	ND	
Methapyrilene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Methyl parathion	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Methylmethanesulfonate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Naphthalene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Nitrobenzene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
N-Nitrosodiethylamine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
N-Nitrosodimethylamine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
N-Nitrosodi-n-butylamine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
N-Nitroso-di-n-propylamine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
N-Nitrosodiphenylamine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
N-Nitrosoethylmethylamine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
N-Nitrosopiperidine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
N-Nitrosopyrrolidine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
0,0,0-Triethylphosphorothioate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Ortho-toluidine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Para-Phenylenediamine	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Ethyl Parathion	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
P-Dimethylaminoazobenzene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Pentachlorobenzene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Pentachloronitrobenzene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Phenacetin	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Phenanathrene	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	
Phorate	ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL	

Analyte	Well		MW-1R	MW-8A	MW-9	MW-10R	MW-13	MW-16	MW-17	MW-18	MW-19	MW-20
	Date of Test:		10/18/10	10/14/10	10/14/10	10/18/10	10/14/10	10/15/10	10/15/10	10/18/10	10/18/10	10/18/10
	Standard(s)	Units										
Pronamide		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Pyrene		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Safrole		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Thionazin		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
Volatiles Organics												
1,1,1,2-Tetrachloroethane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	7	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane	42	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	600	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	75	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,2-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Butanone	4,200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Hexanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Methyl-2-pentanone	350	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acetone	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acetonitrile	8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acrolein		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Allyl chloride		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromochloromethane	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	10	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon disulfide	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon tetrachloride	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	140	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroprene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	70	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dichlorodifluoromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dichloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylene dibromide	0.02	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isobutyl Alcohol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methacrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Propionitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Styrene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	1000	ug/l	BDL	1.3	0.98	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Total Xylenes	10000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	2100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl acetate	250	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-diphenylhydrazine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Notes: (1) - Regulatory standard listed in 62-550, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level.
Standards were not provided for pesticides, herbicides, and semi-volatiles unless the parameter was detected at least once. * = Secondary standard.
Abbreviations: BDL = below detection limits, mg/l = milligrams per liter, ug/l = micrograms per liter, NTU = nephelometric turbidity units, NA = not analyzed.

Table 2-17
Surface Water Analytical Summary
Second Half 2008

Analyte	Location:		B2	B4R
	Date of Test:		09/11/08	09/11/08
	Standard(1)	Units		
Field Measurements				
Temperature		deg. C	27.5	26.75
pH		STD	6.2	6.6
Conductivity		umhos/cm	80	231
Dissolved Oxygen (DO)		mg/l	5.31	6.5
Turbidity	29	NTU	8.7	5.5
Inorganics				
Ammonia		mg/l	NA	NA
Antimony	4300	ug/l	BDL	BDL
Arsenic	50	ug/l	BDL	2.6
Barium		ug/l	8.9	16
Beryllium	0.13	ug/l	BDL	BDL
Bicarbonate Alkalinity		mg/l	7.2	32
Biochemical Oxygen Demand (BOD)		mg/l	4.2	2.3
Cadmium	Note 2	ug/l	BDL	BDL
Calcium		ug/l	6300	22000
Carbonate Alkalinity		mg/l	BDL	BDL
Chemical Oxygen Demand (COD)		mg/l	110	120
Chlorophyll A		mg/m3	7.8	4.4
Chromium	Note 3	ug/l	BDL	BDL
Cobalt		ug/l	BDL	BDL
Copper	Note 4	ug/l	1.0	1.1
Fecal coliforms	800	cfu/100ml	1600	4400
Iron	1000	ug/l	280	680
Lead	Note 5	ug/l	BDL	BDL
Magnesium		ug/l	2900	4500
Mercury	0.012	ug/l	0.012	0.0093
Nickel	Note 6	ug/l	BDL	BDL
Nitrate as N		mg/l	0.21	0.18
Nitrite as N		mg/l	0.005	0.008
Nitrogen, Nitrate-Nitrite		mg/l	0.22	0.19
Potassium		ug/l	2700	7500
Selenium	5.0	ug/l	BDL	BDL
Silver	0.07	ug/l	BDL	BDL
Sodium	250000	ug/l	4700	12000
Sulfate		ug/l	2.7	24
Thallium	6.3	ug/l	BDL	BDL
Total Alkalinity		mg/l	7.2	32
Total Dissolved Solids (TDS)		mg/l	110	200
Total Hardness		ug/l	28000	73000
Total Kjeldahl Nitrogen (TKN)		mg/l	1.8	1.8
Total Nitrogen		mg/l	NA	NA
Total Organic Carbon (TOC)		mg/l	26	34
Total Phosphorus		mg/l	0.18	0.21
Total Residual Chlorine		ug/l	NA	NA
Total Suspended Solids (TSS)		mg/l	BDL	BDL
Unionized ammonia	20	mg/l	BDL	BDL
Vanadium	49	ug/l	BDL	BDL
Zinc	Note 7	ug/l	16	BDL
Organics				
1,1,1,2-Tetrachloroethane		ug/l	BDL	BDL
1,1,1-Trichloroethane	270	ug/l	BDL	BDL
1,1,2,2-Tetrachloroethane	10.8	ug/l	BDL	BDL
1,1,2-Trichloroethane	16	ug/l	BDL	BDL

Analyte	Location:		B2	B4R
	Date of Test:		09/11/08	09/11/08
	Standard(1)	Units		
1,1-Dichloroethane		ug/l	BDL	BDL
1,1-Dichloroethene	3.2	ug/l	BDL	BDL
1,2,3-Trichloropropane	0.2	ug/l	BDL	BDL
1,2-Dichlorobenzene	99	ug/l	BDL	BDL
1,2-Dichloroethane	37	ug/l	BDL	BDL
1,2-Dichloropropane	14	ug/l	BDL	BDL
1,4-Dichlorobenzene	3	ug/l	BDL	BDL
2-Butanone	120000	ug/l	BDL	BDL
2-Hexanone		ug/l	BDL	BDL
4-Methyl-2-pentanone	23000	ug/l	BDL	BDL
Acetone	1700	ug/l	BDL	BDL
Acrylonitrile	0.2	ug/l	BDL	BDL
Benzene	71.28	ug/l	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL
Bromodichloromethane	49.7	ug/l	BDL	BDL
Bromomethane	35	ug/l	BDL	BDL
Carbon disulfide	110	ug/l	2.6	2.6
Carbon tetrachloride	4.42	ug/l	BDL	BDL
Chlorobenzene	17	ug/l	BDL	BDL
Chloroethane		ug/l	BDL	BDL
Chloromethane	470.8	ug/l	BDL	BDL
cis-1,2-Dichloroethene	3.2	ug/l	BDL	BDL
cis-1,3-Dichloropropene	12	ug/l	BDL	BDL
Dibromochloromethane		ug/l	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL
Dibromomethane		ug/l	BDL	BDL
Dichloromethane	1580	ug/l	BDL	BDL
Ethylbenzene	610	ug/l	BDL	BDL
Ethylene dibromide	13	ug/l	BDL	BDL
Iodomethane		ug/l	BDL	BDL
Styrene	460	ug/l	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL
Tetrachloroethene	8.85	ug/l	BDL	BDL
Toluene	480	ug/l	BDL	BDL
Total xylenes	370	ug/l	BDL	BDL
trans-1,2-Dichloroethene	11000	ug/l	BDL	BDL
trans-1,3-Dichloropropene	12	ug/l	BDL	BDL
Tribromoethane		ug/l	BDL	BDL
Trichloroethene	80.7	ug/l	BDL	BDL
Trichlorofluoromethane		ug/l	BDL	BDL
Trichloromethane	470.8	ug/l	BDL	BDL
Vinyl acetate	700	ug/l	BDL	BDL
Vinyl chloride	2.4	ug/l	BDL	BDL

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

Note (1) Surface water standards presented in Chapter 62-302, FAC. Shading = exceedance of the regulatory level.

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

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

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

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

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

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

Table 2-18
Surface Water Analytical Summary
Second Half 2009

Analyte	Location:		B2	B4R
	Date of Test:		09/16/09	9/16/2009 & 10/23/2009
	Standard(1)	Units		
Field Measurements				
Temperature		deg. C	NS	26.23
pH		STD	NS	7.07
Conductivity		umhos/cm	NS	484
Dissolved Oxygen (DO)		mg/l	NS	1.74
Turbidity	29	NTU	NS	2.0
Inorganics				
Ammonia		mg/l	NS	NA
Antimony	4300	ug/l	NS	BDL
Arsenic	50	ug/l	NS	11.0
Barium		ug/l	NS	29.5
Beryllium	0.13	ug/l	NS	BDL
Bicarbonate Alkalinity		mg/l	NS	111
Biochemical Oxygen Demand (BOD)		mg/l	NS	2.47*
Cadmium	Note 2	ug/l	NS	0.13
Calcium		ug/l	NS	66200
Carbonate Alkalinity		mg/l	NS	BDL
Chemical Oxygen Demand (COD)		mg/l	NS	70.2
Chlorophyll A		mg/m3	NS	17.9*
Chromium	Note 3	ug/l	NS	BDL
Cobalt		ug/l	NS	10.7
Copper	Note 4	ug/l	NS	1.6
Fecal coliforms	800	cfu/100ml	NS	16200
Iron	1000	ug/l	NS	292
Lead	Note 5	ug/l	NS	BDL
Magnesium		ug/l	NS	11200
Mercury	0.012	ug/l	NS	0.0081
Nickel	Note 6	ug/l	NS	BDL
Nitrate as N		mg/l	NS	0.033
Nitrite as N		mg/l	NS	0.037
Nitrogen, Nitrate-Nitrite		mg/l	NS	0.07
Potassium		ug/l	NS	29500
Selenium	5.0	ug/l	NS	0.65
Silver	0.07	ug/l	NS	BDL
Sodium	250000	ug/l	NS	21600
Sulfate		ug/l	NS	96.6
Thallium	6.3	ug/l	NS	BDL
Total Alkalinity		mg/l	NS	111
Total Dissolved Solids (TDS)		mg/l	NS	402
Total Hardness		ug/l	NS	211000
Total Kjeldahl Nitrogen (TKN)		mg/l	NS	2.0
Total Nitrogen		mg/l	NS	2.1
Total Organic Carbon (TOC)		mg/l	NS	29.6
Total Phosphorus		mg/l	NS	0.89
Total Residual Chlorine		ug/l	NS	NA
Total Suspended Solids (TSS)		mg/l	NS	BDL
Unionized ammonia	20	mg/l	NS	0.21
Vanadium	49	ug/l	NS	BDL
Zinc	Note 7	ug/l	NS	7.5
Organics				
1,1,1,2-Tetrachloroethane		ug/l	NS	BDL
1,1,1-Trichloroethane	270	ug/l	NS	BDL
1,1,2,2-Tetrachloroethane	10.8	ug/l	NS	BDL
1,1,2-Trichloroethane	16	ug/l	NS	BDL

Analyte	Location:		B2	B4R
	Date of Test:		09/16/09	9/16/2009 & 10/23/2009
	Standard(1)	Units		
1,1-Dichloroethane		ug/l	NS	BDL
1,1-Dichloroethene	3.2	ug/l	NS	BDL
1,2,3-Trichloropropane	0.2	ug/l	NS	BDL
1,2-Dichlorobenzene	99	ug/l	NS	BDL
1,2-Dichloroethane	37	ug/l	NS	BDL
1,2-Dichloropropane	14	ug/l	NS	BDL
1,4-Dichlorobenzene	3	ug/l	NS	BDL
2-Butanone	120000	ug/l	NS	BDL
2-Hexanone		ug/l	NS	BDL
4-Methyl-2-pentanone	23000	ug/l	NS	BDL
Acetone	1700	ug/l	NS	BDL
Acrylonitrile	0.2	ug/l	NS	BDL
Benzene	71.28	ug/l	NS	BDL
Bromochloromethane		ug/l	NS	BDL
Bromodichloromethane	49.7	ug/l	NS	BDL
Bromomethane	35	ug/l	NS	BDL
Carbon disulfide	110	ug/l	NS	BDL
Carbon tetrachloride	4.42	ug/l	NS	BDL
Chlorobenzene	17	ug/l	NS	BDL
Chloroethane		ug/l	NS	BDL
Chloromethane	470.8	ug/l	NS	BDL
cis-1,2-Dichloroethene	3.2	ug/l	NS	BDL
cis-1,3-Dichloropropene	12	ug/l	NS	BDL
Dibromochloromethane		ug/l	NS	BDL
Dibromochloropropane		ug/l	NS	BDL
Dibromomethane		ug/l	NS	BDL
Dichloromethane	1580	ug/l	NS	BDL
Ethylbenzene	610	ug/l	NS	BDL
Ethylene dibromide	13	ug/l	NS	BDL
Iodomethane		ug/l	NS	BDL
Styrene	460	ug/l	NS	BDL
t-1,4-Dichloro-2-butene		ug/l	NS	BDL
Tetrachloroethene	8.85	ug/l	NS	BDL
Toluene	480	ug/l	NS	BDL
Total xylenes	370	ug/l	NS	BDL
trans-1,2-Dichloroethene	11000	ug/l	NS	BDL
trans-1,3-Dichloropropene	12	ug/l	NS	BDL
Tribromoethane		ug/l	NS	BDL
Trichloroethene	80.7	ug/l	NS	BDL
Trichlorofluoromethane		ug/l	NS	BDL
Trichloromethane	470.8	ug/l	NS	BDL
Vinyl acetate	700	ug/l	NS	BDL
Vinyl chloride	2.4	ug/l	NS	BDL

Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units
NS = no sample available from this location

Note (1) Surface water standards presented in Chapter 62-302, FAC. Shading = exceedance of the regulatory level.

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

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

* = re-sample results from 10/23/2009

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

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

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

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

Table 2-19
Surface Water Analytical Summary
First Half 2010

Analyte	Location:		B2	B4R
	Date of Test:		03/30/10	03/30/10
	Standard(1)	Units		
Field Measurements				
Temperature		deg. C	18.27	18.89
pH		STD	6.2	6.48
Conductivity		umhos/cm	123	199
Dissolved Oxygen (DO)		mg/l	0.56	2.28
Turbidity	29	NTU	8.1	6.48
Inorganics				
Ammonia		mg/l	0.16	0.16
Antimony	4300	ug/l	BDL	BDL
Arsenic	50	ug/l	BDL	BDL
Barium		ug/l	13.8	14.7
Beryllium	0.13	ug/l	BDL	BDL
Bicarbonate Alkalinity		mg/l	9.5	28
Biochemical Oxygen Demand (BOD)		mg/l	5.2	2.9
Cadmium	Note 2	ug/l	0.06	BDL
Calcium		ug/l	10100	18100
Carbonate Alkalinity		mg/l	BDL	BDL
Chemical Oxygen Demand (COD)		mg/l	173	150
Chlorophyll A		mg/m3	3.9	8.6
Chromium	Note 3	ug/l	BDL	BDL
Cobalt		ug/l	BDL	BDL
Copper	Note 4	ug/l	2.5	2.3
Fecal coliforms	800	cfu/100ml	470	310
Iron	1000	ug/l	384	669
Lead	Note 5	ug/l	1.0	0.56
Magnesium		ug/l	4600	5400
Mercury	0.012	ug/l	0.0135	0.0102
Nickel	Note 6	ug/l	BDL	BDL
Nitrate as N		mg/l	0.011	0.068
Nitrite as N		mg/l	BDL	0.89
Nitrogen, Nitrate-Nitrite		mg/l	0.011	0.96
Potassium		ug/l	6400	9600
Selenium	5.0	ug/l	BDL	BDL
Silver	0.07	ug/l	BDL	BDL
Sodium	250000	ug/l	7800	8600
Sulfate		ug/l	7.6	18.9
Thallium	6.3	ug/l	BDL	BDL
Total Alkalinity		mg/l	9.5	28
Total Dissolved Solids (TDS)		mg/l	185	214
Total Hardness		ug/l	44.3	67.3
Total Kjeldahl Nitrogen (TKN)		mg/l	3.3	3.2
Total Nitrogen		mg/l	3.3	4.1
Total Organic Carbon (TOC)		mg/l	45	38.8
Total Phosphorus		mg/l	1.1	1.1
Total Residual Chlorine		ug/l	NA	NA
Total Suspended Solids (TSS)		mg/l	BDL	BDL
Unionized ammonia	20	mg/l	BDL	BDL
Vanadium	49	ug/l	BDL	BDL
Zinc	Note 7	ug/l	66.1	14.1
Organics				
1,1,1,2-Tetrachloroethane		ug/l	BDL	BDL
1,1,1-Trichloroethane	270	ug/l	BDL	BDL
1,1,2,2-Tetrachloroethane	10.8	ug/l	BDL	BDL
1,1,2-Trichloroethane	16	ug/l	BDL	BDL

Analyte	Location:		B2	B4R
	Date of Test:		03/30/10	03/30/10
	Standard(1)	Units		
1,1-Dichloroethane		ug/l	BDL	BDL
1,1-Dichloroethene	3.2	ug/l	BDL	BDL
1,2,3-Trichloropropane	0.2	ug/l	BDL	BDL
1,2-Dichlorobenzene	99	ug/l	BDL	BDL
1,2-Dichloroethane	37	ug/l	BDL	BDL
1,2-Dichloropropane	14	ug/l	BDL	BDL
1,4-Dichlorobenzene	3	ug/l	BDL	BDL
2-Butanone	120000	ug/l	BDL	BDL
2-Hexanone		ug/l	BDL	BDL
4-Methyl-2-pentanone	23000	ug/l	BDL	BDL
Acetone	1700	ug/l	BDL	BDL
Acrylonitrile	0.2	ug/l	BDL*	BDL*
Benzene	71.28	ug/l	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL
Bromodichloromethane	49.7	ug/l	BDL	BDL
Bromomethane	35	ug/l	BDL	BDL
Carbon disulfide	110	ug/l	BDL	BDL
Carbon tetrachloride	4.42	ug/l	BDL	BDL
Chlorobenzene	17	ug/l	BDL	BDL
Chloroethane		ug/l	BDL	BDL
Chloromethane	470.8	ug/l	BDL	BDL
cis-1,2-Dichloroethene	3.2	ug/l	BDL	BDL
cis-1,3-Dichloropropene	12	ug/l	BDL	BDL
Dibromochloromethane		ug/l	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL
Dibromomethane		ug/l	BDL	BDL
Dichloromethane	1580	ug/l	BDL	BDL
Ethylbenzene	610	ug/l	BDL	BDL
Ethylene dibromide	13	ug/l	BDL	BDL
Iodomethane		ug/l	BDL	BDL
Styrene	460	ug/l	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL
Tetrachloroethene	8.85	ug/l	BDL	BDL
Toluene	480	ug/l	BDL	BDL
Total xylenes	370	ug/l	BDL	BDL
trans-1,2-Dichloroethene	11000	ug/l	BDL	BDL
trans-1,3-Dichloropropene	12	ug/l	BDL	BDL
Tribromoethane		ug/l	BDL	BDL
Trichloroethene	80.7	ug/l	BDL	BDL
Trichlorofluoromethane		ug/l	BDL	BDL
Trichloromethane	470.8	ug/l	BDL	BDL
Vinyl acetate	700	ug/l	BDL	BDL
Vinyl chloride	2.4	ug/l	BDL*	BDL*

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

* = due to matrix interference, these results are from samples re-run with dilution

Note (1) Surface water standards presented in Chapter 62-302, FAC. Shading = exceedance of the regulatory level.

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

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

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

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

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

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

Table 2-20
Surface Water Analytical Summary
Second Half 2010

Analyte	Location:		B2	B4R
	Date of Test:		09/30/10	09/30/10
	Standard(1)	Units		
Field Measurements				
Temperature		deg. C	NS	25.75
pH		STD	NS	6.68
Conductivity		umhos/cm	NS	393
Dissolved Oxygen (DO)		mg/l	NS	2.41
Turbidity	29	NTU	NS	6.71
Inorganics				
Ammonia		mg/l	NS	0.082
Antimony	4300	ug/l	NS	BDL
Arsenic	50	ug/l	NS	BDL
Barium		ug/l	NS	20.1
Beryllium	0.13	ug/l	NS	BDL
Bicarbonate Alkalinity		mg/l	NS	103
Biochemical Oxygen Demand (BOD)		mg/l	NS	1.92
Cadmium	Note 2	ug/l	NS	BDL
Calcium		ug/l	NS	43200
Carbonate Alkalinity		mg/l	NS	BDL
Chemical Oxygen Demand (COD)		mg/l	NS	93.5
Chlorophyll A		mg/m3	NS	18.5
Chromium	Note 3	ug/l	NS	BDL
Cobalt		ug/l	NS	BDL
Copper	Note 4	ug/l	NS	BDL
Fecal coliforms	800	cfu/100ml	NS	2200
Iron	1000	ug/l	NS	511
Lead	Note 5	ug/l	NS	BDL
Magnesium		ug/l	NS	7800
MBAS		ug/l	NS	NA
Mercury	0.012	ug/l	NS	0.00352
Nickel	Note 6	ug/l	NS	BDL
Nitrate as N		mg/l	NS	0.044
Nitrite as N		mg/l	NS	0.006
Nitrogen, Nitrate-Nitrite		mg/l	NS	0.05
Potassium		ug/l	NS	24100
Selenium	5.0	ug/l	NS	BDL
Silver	0.07	ug/l	NS	BDL
Sodium	250000	ug/l	NS	14300
Sulfate		ug/l	NS	32.3
Thallium	6.3	ug/l	NS	0.61
Total Alkalinity		mg/l	NS	103
Total Dissolved Solids (TDS)		mg/l	NS	265
Total Hardness		ug/l	NS	140000
Total Kjeldahl Nitrogen (TKN)		mg/l	NS	1.5
Total Nitrogen		mg/l	NS	1.5
Total Organic Carbon (TOC)		mg/l	NS	21.0
Total Phosphorus		mg/l	NS	0.61
Total Residual Chlorine		ug/l	NS	NA
Total Suspended Solids (TSS)		mg/l	NS	10
Unionized ammonia	20	mg/l	NS	BDL
Vanadium	49	ug/l	NS	5.3
Zinc	Note 7	ug/l	NS	BDL
Organics				
1,1,1,2-Tetrachloroethane		ug/l	NS	BDL
1,1,1-Trichloroethane	270	ug/l	NS	BDL
1,1,2,2-Tetrachloroethane	10.8	ug/l	NS	BDL

Analyte	Location:		B2	B4R
	Date of Test:		09/30/10	09/30/10
	Standard(1)	Units		
1,1,2-Trichloroethane	16	ug/l	NS	BDL
1,1-Dichloroethane		ug/l	NS	BDL
1,1-Dichloroethene	3.2	ug/l	NS	BDL
1,2,3-Trichloropropane	0.2	ug/l	NS	BDL
1,2-Dichlorobenzene	99	ug/l	NS	BDL
1,2-Dichloroethane	37	ug/l	NS	BDL
1,2-Dichloropropane	14	ug/l	NS	BDL
1,4-Dichlorobenzene	3	ug/l	NS	BDL
2-Butanone	120000	ug/l	NS	BDL
2-Hexanone		ug/l	NS	BDL
4-Methyl-2-pentanone	23000	ug/l	NS	BDL
Acetone	1700	ug/l	NS	BDL
Acrylonitrile	0.2	ug/l	NS	BDL
Benzene	71.28	ug/l	NS	BDL
Bromochloromethane		ug/l	NS	BDL
Bromodichloromethane	49.7	ug/l	NS	BDL
Bromomethane	35	ug/l	NS	BDL
Carbon disulfide	110	ug/l	NS	BDL
Carbon tetrachloride	4.42	ug/l	NS	BDL
Chlorobenzene	17	ug/l	NS	BDL
Chloroethane		ug/l	NS	BDL
Chloromethane	470.8	ug/l	NS	BDL
cis-1,2-Dichloroethene	3.2	ug/l	NS	BDL
cis-1,3-Dichloropropene	12	ug/l	NS	BDL
Dibromochloromethane		ug/l	NS	BDL
Dibromochloropropane		ug/l	NS	BDL
Dibromomethane		ug/l	NS	BDL
Dichloromethane	1580	ug/l	NS	BDL
Ethylbenzene	610	ug/l	NS	BDL
Ethylene dibromide	13	ug/l	NS	BDL
Iodomethane		ug/l	NS	BDL
Styrene	460	ug/l	NS	BDL
t-1,4-Dichloro-2-butene		ug/l	NS	BDL
Tetrachloroethene	8.85	ug/l	NS	BDL
Toluene	480	ug/l	NS	BDL
Total xylenes	370	ug/l	NS	BDL
trans-1,2-Dichloroethene	11000	ug/l	NS	BDL
trans-1,3-Dichloropropene	12	ug/l	NS	BDL
Tribromoethane		ug/l	NS	BDL
Trichloroethene	80.7	ug/l	NS	BDL
Trichlorofluoromethane		ug/l	NS	BDL
Trichloromethane	470.8	ug/l	NS	BDL
Vinyl acetate	700	ug/l	NS	BDL
Vinyl chloride	2.4	ug/l	NS	BDL

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

NS = no sample available from this location

Note (1) Surface water standards presented in Chapter 62-302, FAC. Shading = exceedance of the regulatory level.

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

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

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

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

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

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

Table 2-21
Gas Condensate Analytical Summary
2010

Analyte	Location:		Gas Condensate (S-4)
	Date of Test:		10/27/10
	Standard(1)	Units	
Field Measurements			
Temperatrue		deg. C	31.21
pH		STD	7.23
Conductivity		umhos/cm	7304
Dissolved Oxygen (DO)		mg/l	3.64
Turbidity		NTU	2.39
Inorganics			
Ammonia as N		mg/l	1010
Arsenic	5000	ug/l	426
Barium	100,000	ug/l	BDL
Beryllium		ug/l	BDL
Bicarbonate Alkalinity		mg/l	3410
Cadmium		ug/l	BDL
Calcium		ug/l	630
Carbonate Alkalinity		mg/l	BDL
Chloride		mg/l	BDL
Chemical Oxygen Demand (COD)		mg/l	955
Chromium	5000	ug/l	BDL
Cobalt		ug/l	BDL
Copper		ug/l	BDL
Iron		ug/l	81.8
Lead	5000	ug/l	BDL
Magnesium		ug/l	BDL
Manganese		ug/l	BDL
Mercury	200	ug/l	0.14
Nickel		ug/l	BDL
Nitrate as N		mg/l	BDL
Nitrite as N		mg/l	0.007
Nitrogen, Nitrate-Nitrite		mg/l	BDL
Potassium		ug/l	BDL
Selenium	1000	ug/l	BDL
Silver	5000	ug/l	BDL
Sodium		ug/l	BDL
Sulfate		ug/l	BDL
Tin		ug/l	BDL
Total Alkalinity		mg/l	3410
Total Dissolved Solids (TDS)		mg/l	80
Unionized ammonia		mg/l	BDL
Vanadium		ug/l	BDL
Zinc		ug/l	BDL

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

Notes: (1) - Regulatory standard listed in 40 CFR Part 261.24.

TABLE 3-1
SUMMARY OF WATER QUALITY DATA TRENDS
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX
May 2011 Water Quality Monitoring Evaluation Report

Parameter	Trend in Concentration	Comments
Leachate and Gas Condensate		
Inorganics	Steady	Various inorganics detected during every sampling event, but none at concentrations in excess of regulatory standards.
Organics	Steady	Several detections during every sampling event of the review period, but none in excess of regulatory standards.
Groundwater		
pH	Steady	pH was lower than the SDWS range at most wells except MW-1 and MW-20 throughout the review period.
Aluminum	Decreasing	Detected above SDWS only in MW-17 and MW-19. Decreased during 2010.
Ammonia	Steady	Ammonia concentrations exceeded the MCL in most wells except MW-1, MW-11R, MW-12R, and MW-18 throughout the period.
Arsenic	Steady	Arsenic concentrations exceeded the MCL in most wells except MW-1 and MW-18 throughout the period.
Chloride	Steady	Detected above SDWS only in MW-1 and MW-16. Steady in MW-16 during 2010.
Iron	Steady	Concentration of iron was higher than SDWS at all wells throughout the review period. Significant iron peak concentration at MW-8A during 2008 and 2009.
Lead	Decreasing	Detected above MCL only in MW-20. Decreased during 2010.
Manganese	Steady	Detected above SDWS only in MW-15. Steady during 2010.
Sodium	Steady	Detected above MCL only in MW-1 and MW-16. Steady in MW-16 during 2010.
Sulfate	Decreasing	Detected above SDWS only in MW-15. Decreased in MW-15 during 2010.
TDS	Steady	TDS concentration was consistently higher than the SDWS at most wells except MW-1R during review period.

Parameter	Trend in Concentration	Comments
Vanadium	Decreasing	Detected above MCL only in MW-20. Decreased during 2010.
Surface Water		
Fecal coliform	Consistent, slight decrease	Detected at concentration in excess of regulatory standard at one or both sampling points during most sampling events.

MCL = Maximum Contaminant Level.

SDWS = Secondary Drinking Water Standard.

Table 3-2
Mann-Kendall Trend Test p-values
Central County Solid Waste Disposal Complex
2011 Water Quality Monitoring Plan Evaluation Report

Parameter	P-values			
	MW-1R	MW-8A	MW-9	MW-10R
pH	1.000	0.319	0.611	0.266
Ammonia	0.064	0.803	0.019	0.266
Arsenic	0.886	1.000	0.266	0.803
Iron	0.902	0.902	0.266	0.711
Total Dissolved Solids (TDS)	0.064	0.902	0.711	0.317
TDS - Seasonal Test*	0.307	1.000	0.529	0.149

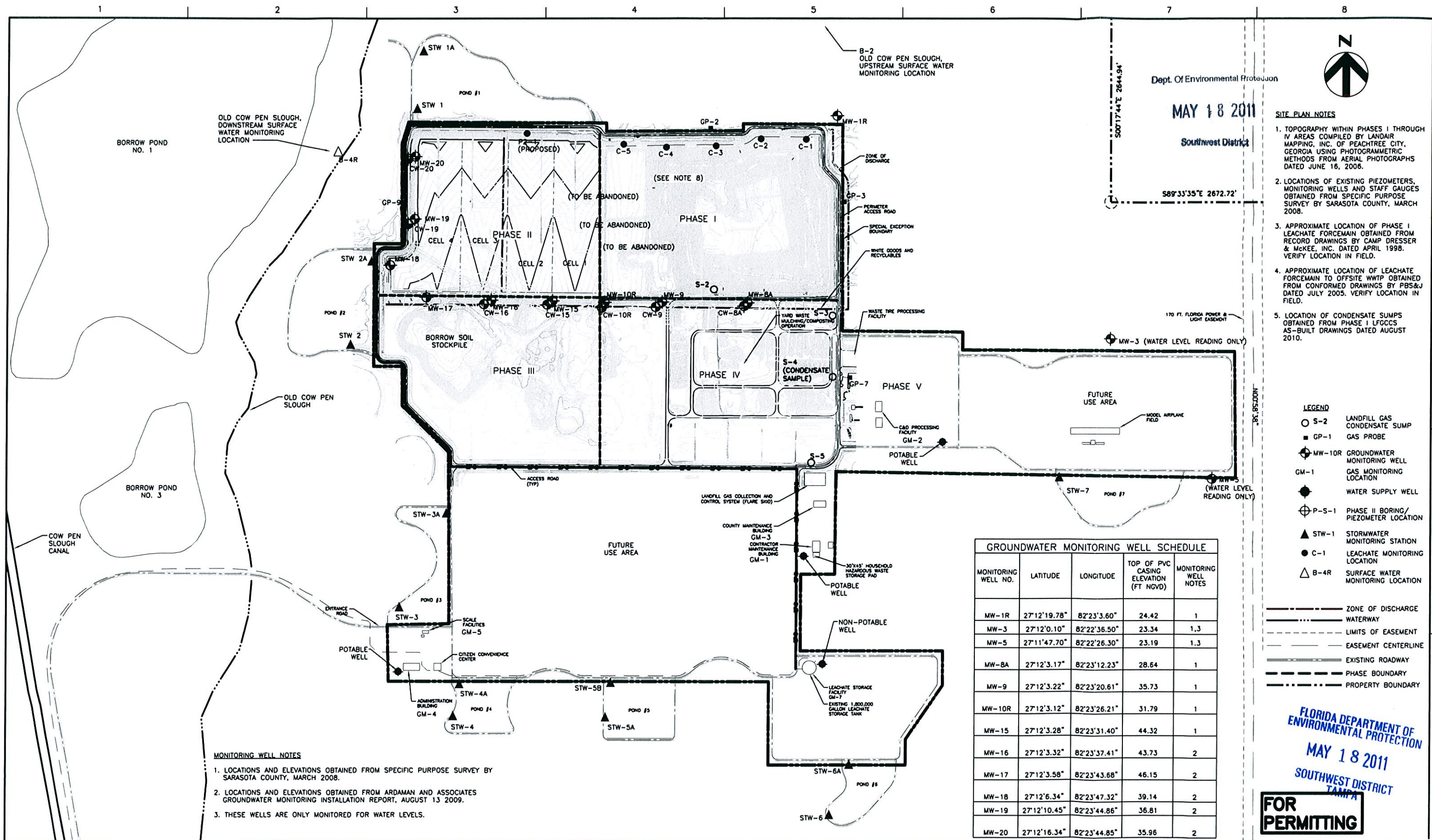
*TDS showed seasonality in line plots, therefore seasonal test was run in addition to Mann-Kendall

Table 4-1
Rainfall During Review Period
Central County Solid Waste Disposal Complex

MONTH	2007 RAINFALL* (inches)	2008 RAINFALL* (inches)	2009 RAINFALL* (inches)	2010 RAINFALL* (inches)
JANUARY	1.53	2.77	0.81	2.76
FEBRUARY	2.03	1.64	0.50	2.40
MARCH	0.43	3.14	1.18	7.21
APRIL	2.80	3.96	1.05	2.93
MAY	0.60	1.87	6.37	1.56
JUNE	5.21	6.24	6.82	5.69
JULY	6.83	9.81	7.11	5.70
AUGUST	5.27	8.29	9.05	11.22
SEPTEMBER	4.54	5.17	7.18	4.68
OCTOBER	4.28	2.59	0.95	0.03
NOVEMBER	0.47	0.47	2.36	2.32
DECEMBER	1.09	1.20	4.77	1.15
TOTAL	35.08	47.15	48.15	47.65

Annual Mean: 52.73 inches. Source: Southwest Florida Water Management District from their monitoring site located along Rustic Road (WIMS data).

FIGURES



Dept. Of Environmental Protection
MAY 18 2011
Southwest District

- SITE PLAN NOTES**
1. TOPOGRAPHY WITHIN PHASES I THROUGH IV AREAS COMPILED BY LANDAIR MAPPING, INC. OF PEACHTREE CITY, GEORGIA USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED JUNE 16, 2006.
 2. LOCATIONS OF EXISTING PIEZOMETERS, MONITORING WELLS AND STAFF GAUGES OBTAINED FROM SPECIFIC PURPOSE SURVEY BY SARASOTA COUNTY, MARCH 2008.
 3. APPROXIMATE LOCATION OF PHASE I LEACHATE FORCEMAIN OBTAINED FROM RECORD DRAWINGS BY CAMP DRESSER & MCKEE, INC. DATED APRIL 1998. VERIFY LOCATION IN FIELD.
 4. APPROXIMATE LOCATION OF LEACHATE FORCEMAIN TO OFFSITE WWTP OBTAINED FROM CONFORMED DRAWINGS BY PBS&J DATED JULY 2005. VERIFY LOCATION IN FIELD.
 5. LOCATION OF CONDENSATE SUMPS OBTAINED FROM PHASE I LFCCS AS-BUILT DRAWINGS DATED AUGUST 2010.

- LEGEND**
- S-2 LANDFILL GAS CONDENSATE SUMP
 - GP-1 GAS PROBE
 - MW-10R GROUNDWATER MONITORING WELL
 - GM-1 GAS MONITORING LOCATION
 - WATER SUPPLY WELL
 - P-S-1 PHASE II BORING/PIEZOMETER LOCATION
 - STW-1 STORMWATER MONITORING STATION
 - C-1 LEACHATE MONITORING LOCATION
 - B-4R SURFACE WATER MONITORING LOCATION

- ZONE OF DISCHARGE
- WATERWAY
- LIMITS OF EASEMENT
- EASEMENT CENTERLINE
- EXISTING ROADWAY
- PHASE BOUNDARY
- PROPERTY BOUNDARY

GROUNDWATER MONITORING WELL SCHEDULE				
MONITORING WELL NO.	LATITUDE	LONGITUDE	TOP OF PVC CASING ELEVATION (FT NGVD)	MONITORING WELL NOTES
MW-1R	27°12'19.78"	82°23'3.60"	24.42	1
MW-3	27°12'0.10"	82°22'36.50"	23.34	1,3
MW-5	27°11'47.70"	82°22'26.30"	23.19	1,3
MW-8A	27°12'3.17"	82°23'12.23"	28.64	1
MW-9	27°12'3.22"	82°23'20.61"	35.73	1
MW-10R	27°12'3.12"	82°23'26.21"	31.79	1
MW-15	27°12'3.28"	82°23'31.40"	44.32	1
MW-16	27°12'3.32"	82°23'37.41"	43.73	2
MW-17	27°12'3.58"	82°23'43.68"	46.15	2
MW-18	27°12'6.34"	82°23'47.32"	39.14	2
MW-19	27°12'10.45"	82°23'44.86"	36.81	2
MW-20	27°12'16.34"	82°23'44.85"	35.96	2

- MONITORING WELL NOTES**
1. LOCATIONS AND ELEVATIONS OBTAINED FROM SPECIFIC PURPOSE SURVEY BY SARASOTA COUNTY, MARCH 2008.
 2. LOCATIONS AND ELEVATIONS OBTAINED FROM ARDAMAN AND ASSOCIATES GROUNDWATER MONITORING INSTALLATION REPORT, AUGUST 13 2009.
 3. THESE WELLS ARE ONLY MONITORED FOR WATER LEVELS.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
MAY 18 2011
SOUTHWEST DISTRICT
TAMPA
FOR PERMITTING



ISSUE	DATE	DESCRIPTION
G	12/2010	ADD CONDENSATE SUMPS, UPDATE WELLS
F	04/2009	REVISED PER MINOR PERMIT MODIFICATION
E	03/2008	REVISED PER RAI #4
D	01/2008	REVISED PER RAI #3
C	09/2007	REVISED PER RAI #2
B	06/2007	REVISED PER RAI #1
A	02/2007	ISSUED FOR APPROVAL

PROJECT MANAGER	R. SIEMERING
REVIEWED BY	J. TIMMONS
DRAWN BY	B. JOHNSON
PROJECT NUMBER	0096-118883-01



Central County Solid Waste Disposal Complex
PHASE II CLASS I LANDFILL EXPANSION
PERMIT DRAWINGS

WATER QUALITY MONITORING PLAN		FILENAME	figure1.dwg	SHEET
SCALE		1"=400'		FIGURE 1

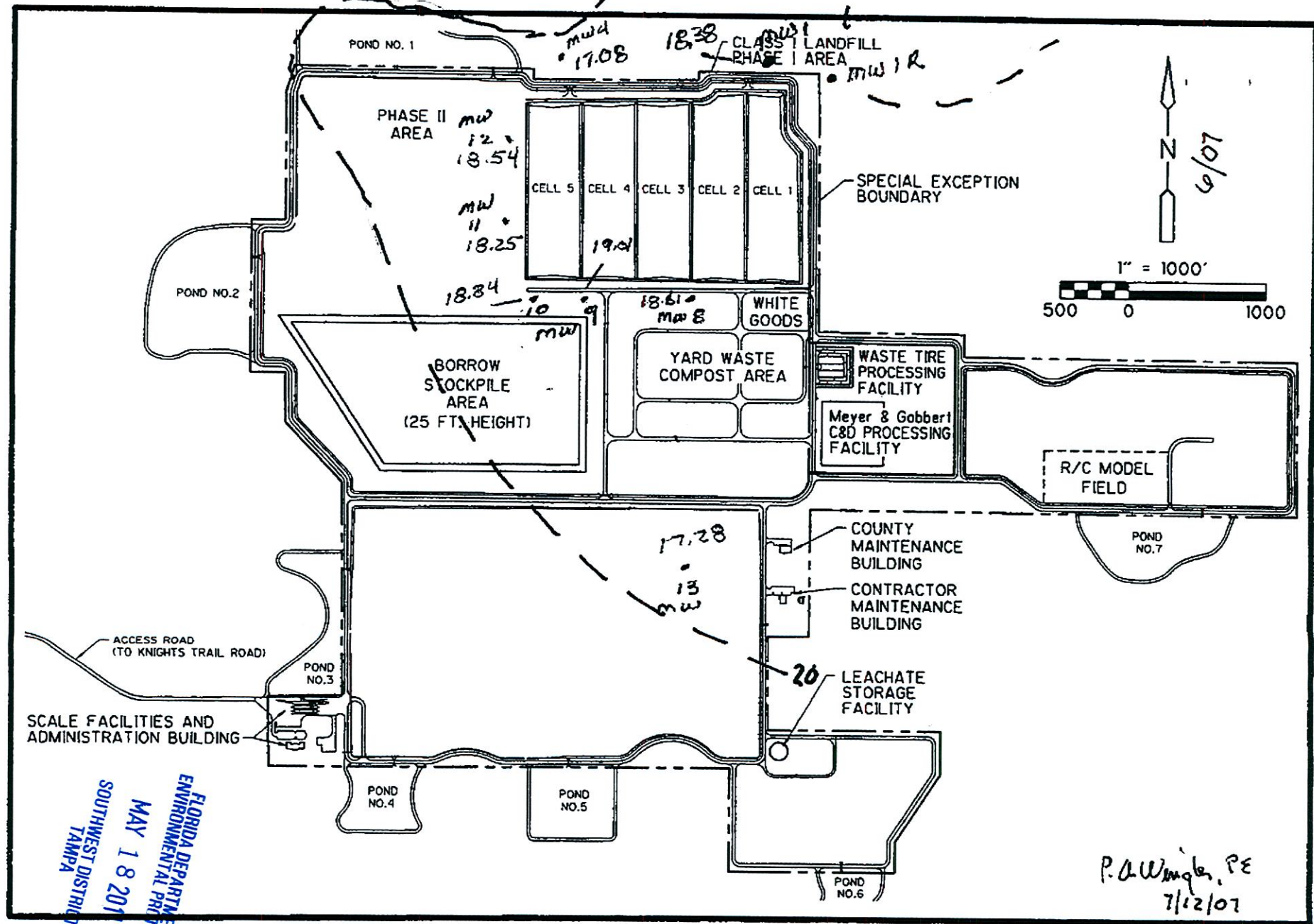


Figure 2

Sarasota County
Central County Solid Waste Disposal Complex
Facility Site Plan

11-04-2007

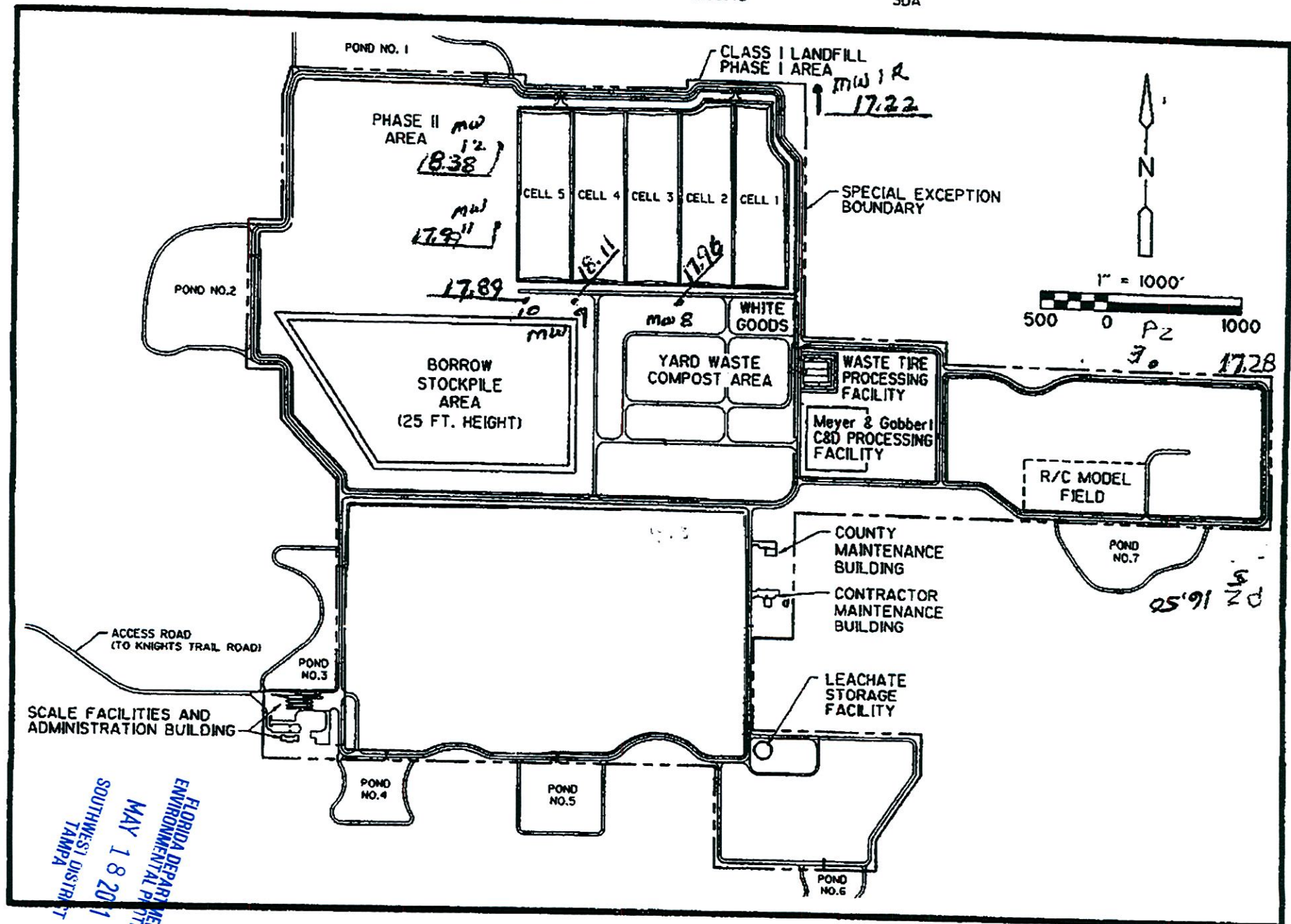
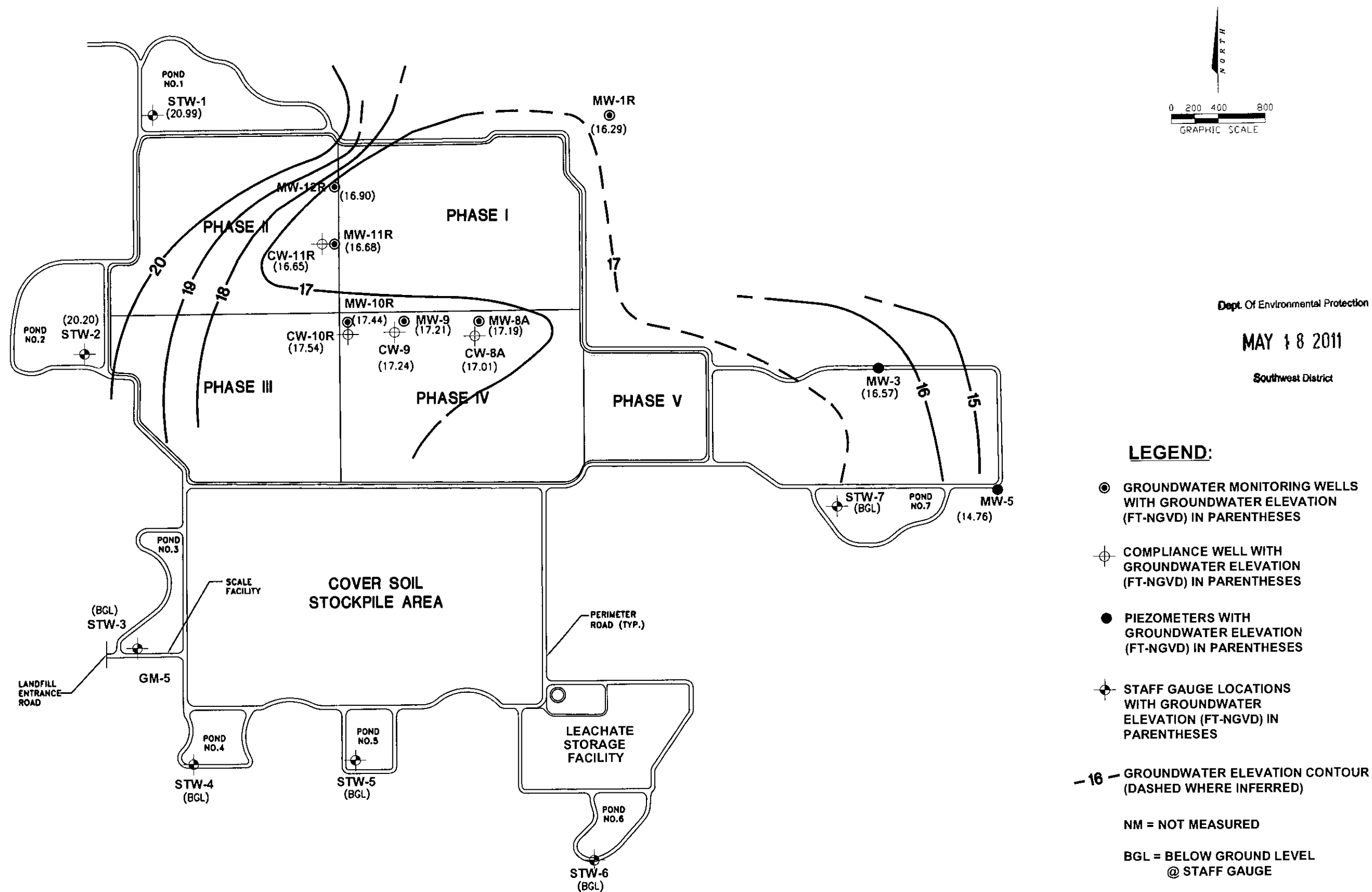


Figure 3

Sarasota County
Central County Solid Waste Disposal Complex

U:\SO\Old\HAZAR\Central Disposal Complex\Arsenic Evaluation\Drawings\GROUNDWATER CONTOUR MAP-5-28-08\CENT_FIG-1.dwg Jun13,2008 - 1:40pm Plotted By: 22427

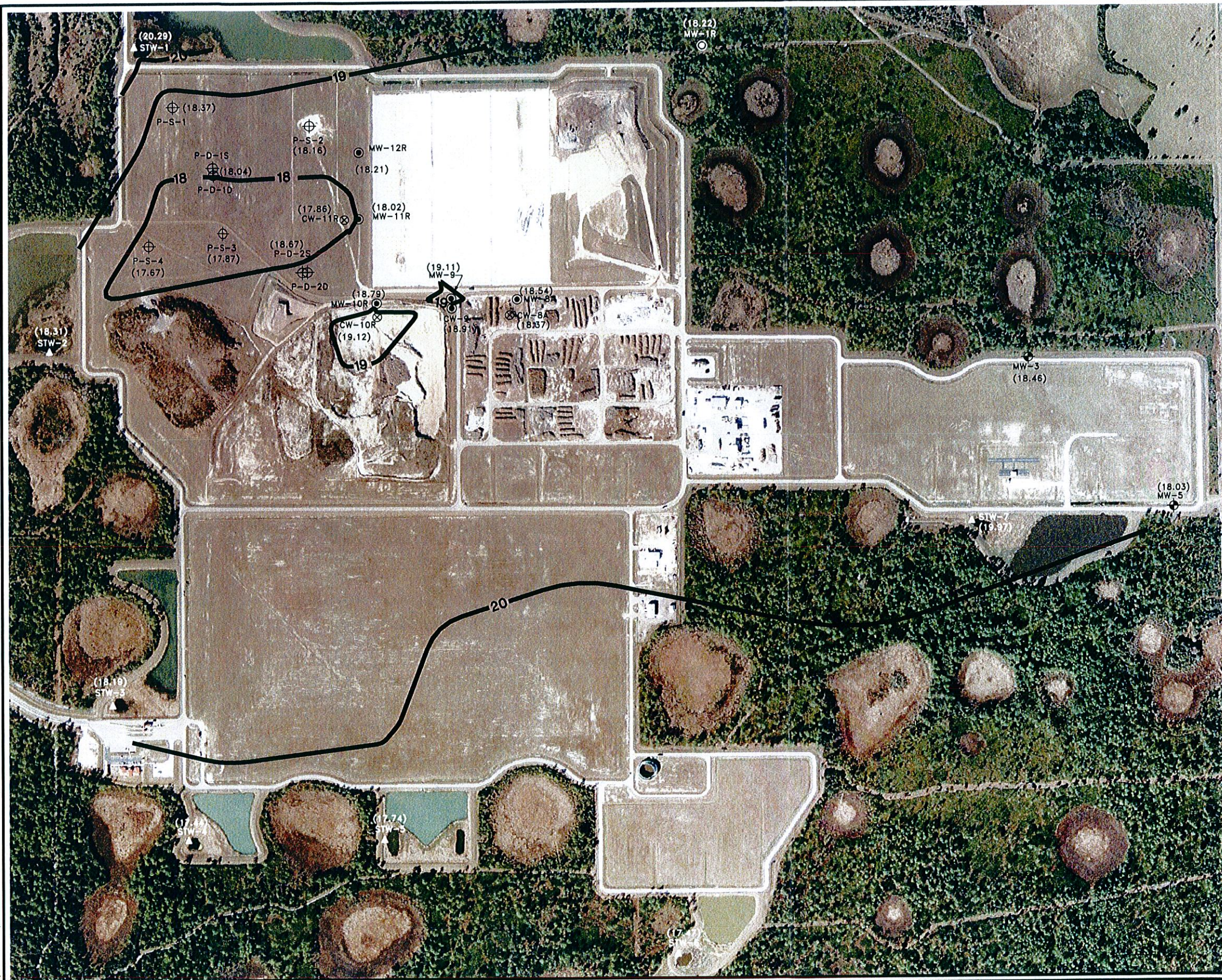


SARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

GROUNDWATER ELEVATION CONTOUR MAP
MAY 28, 2008

FIGURE 4

U:\SO\OldG\HAZARD\Sarasota\Central Disposal Complex\GROUNDWATER CONTOUR MAPS\GROUNDWATER CONTOUR MAP 10-21-08.dwg Dec23,2008 - 12:37pm Plotted By: 9327



- LEGEND:
- MW-10R EXISTING GROUNDWATER MONITORING WELL
 - MW-3 EXISTING PIEZOMETERS
 - PHASE II BORING/PIEZOMETER LOCATION
 - P-S-3 STORMWATER MONITORING LOCATION
 - 20 GROUNDWATER CONTOUR

- NOTE:
1. GROUNDWATER DATA FROM 10-21-08
 2. GROUNDWATER ELEVATION GIVEN IN PARENTHESIS

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAY 18 2011
SOUTHWEST DISTRICT
TAMPA

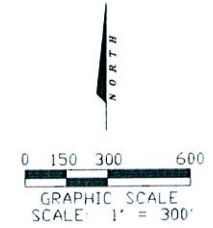
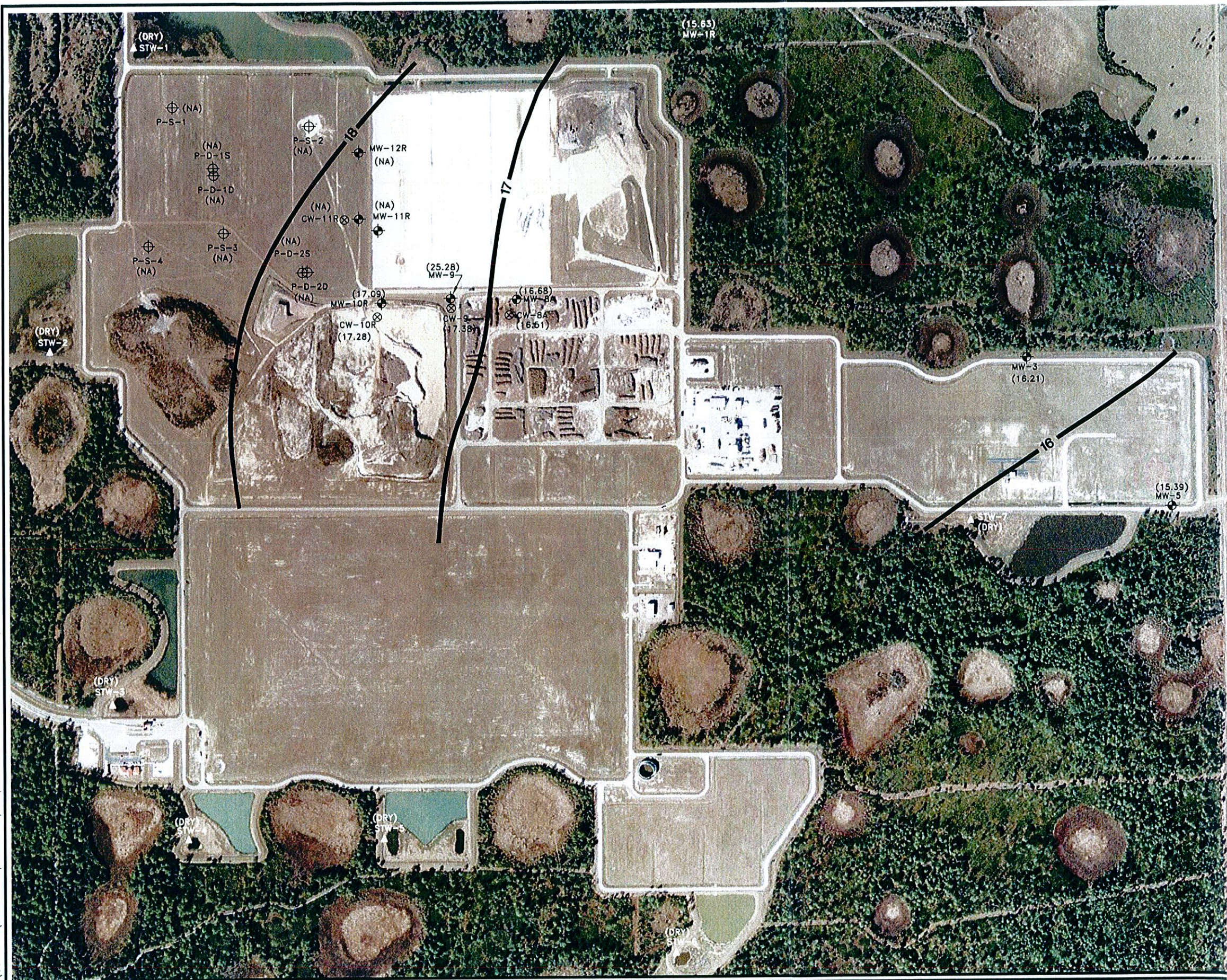


SARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE
DISPOSAL COMPLEX

GROUNDWATER CONTOUR MAP
OCTOBER 21, 2008

FIGURE
5

U:\SO\OldG\HAZARD\Sarasota\Central Disposal Complex\GROUNDWATER CONTOUR MAPS\GROUNDWATER CONTOUR MAP JULY_2009.dwg Jul10,2009 - 3:25pm Plotted By: 22427








Dept. Of Environmental Protection

MAY 18 2011

Southwest District

LEGEND:

-  MONITORING WELL WITH GROUNDWATER ELEVATION (FT-NGVD)
-  COMPLIANCE WELL WITH GROUNDWATER ELEVATION (FT-NGVD)
-  PIEZOMETERS WITH GROUNDWATER ELEVATION (FT-NGVD)
-  MONITORING POINT WITH SURFACE WATER ELEVATION (FT-NGVD)
-  -17- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

NOTE:

1. GROUNDWATER DATA FROM MAY 26, 2009
2. GROUNDWATER ELEVATION GIVEN IN PARENTHESES

FT-NGVD = FEET ABOVE
NATIONAL GEODETIC VERTICAL
DATUM

DATE: 07-10-09

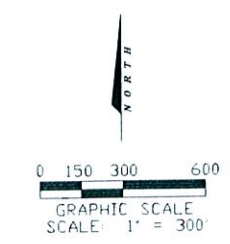
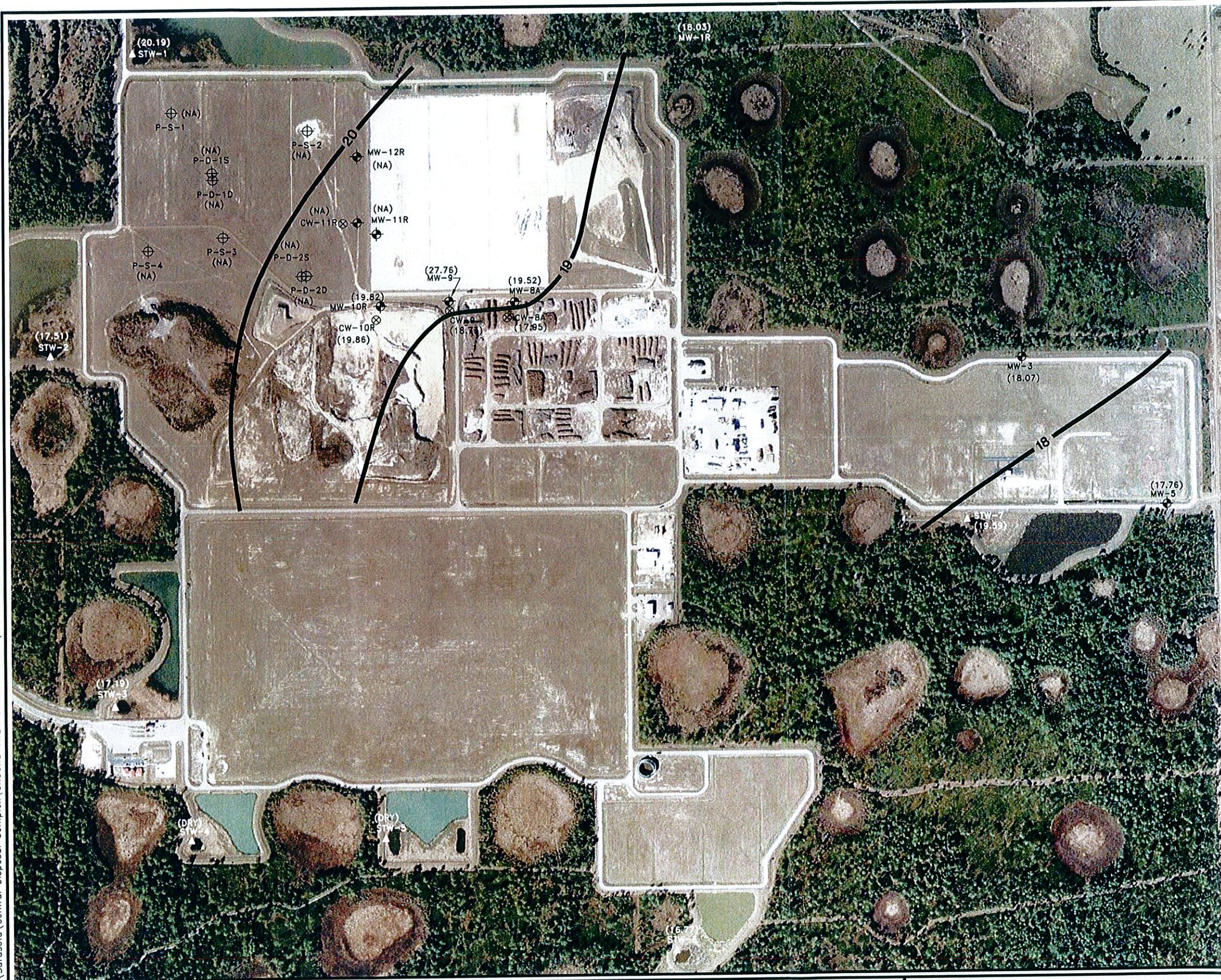


SARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE
DISPOSAL COMPLEX

GROUNDWATER CONTOUR MAP
MAY 2009

FIGURE
6

U:\SO\OldG\HAZARD\Sarasota\Central Disposal Complex\GROUNDWATER CONTOUR MAPS\GROUNDWATER CONTOUR MAP OCTOBER 2009.dwg Dec04.2009 - 9:31am Plotted By: 22427



- LEGEND:
- ⊕ MONITORING WELL WITH GROUNDWATER ELEVATION (FT-NGVD)
 - ⊗ COMPLIANCE WELL WITH GROUNDWATER ELEVATION (FT-NGVD)
 - ⊕ PIEZOMETERS WITH GROUNDWATER ELEVATION (FT-NGVD)
 - ▲ MONITORING POINT WITH SURFACE WATER ELEVATION (FT-NGVD)
 - 19- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

- NOTE:
1. GROUNDWATER DATA FROM OCTOBER 29, 2009
 2. GROUNDWATER ELEVATION GIVEN IN PARENTHESES

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAY 18 2011
SOUTHWEST DISTRICT
TAMPA

FT-NGVD = FEET ABOVE
NATIONAL GEODETIC VERTICAL
DATUM

DATE: DECEMBER 3, 2009

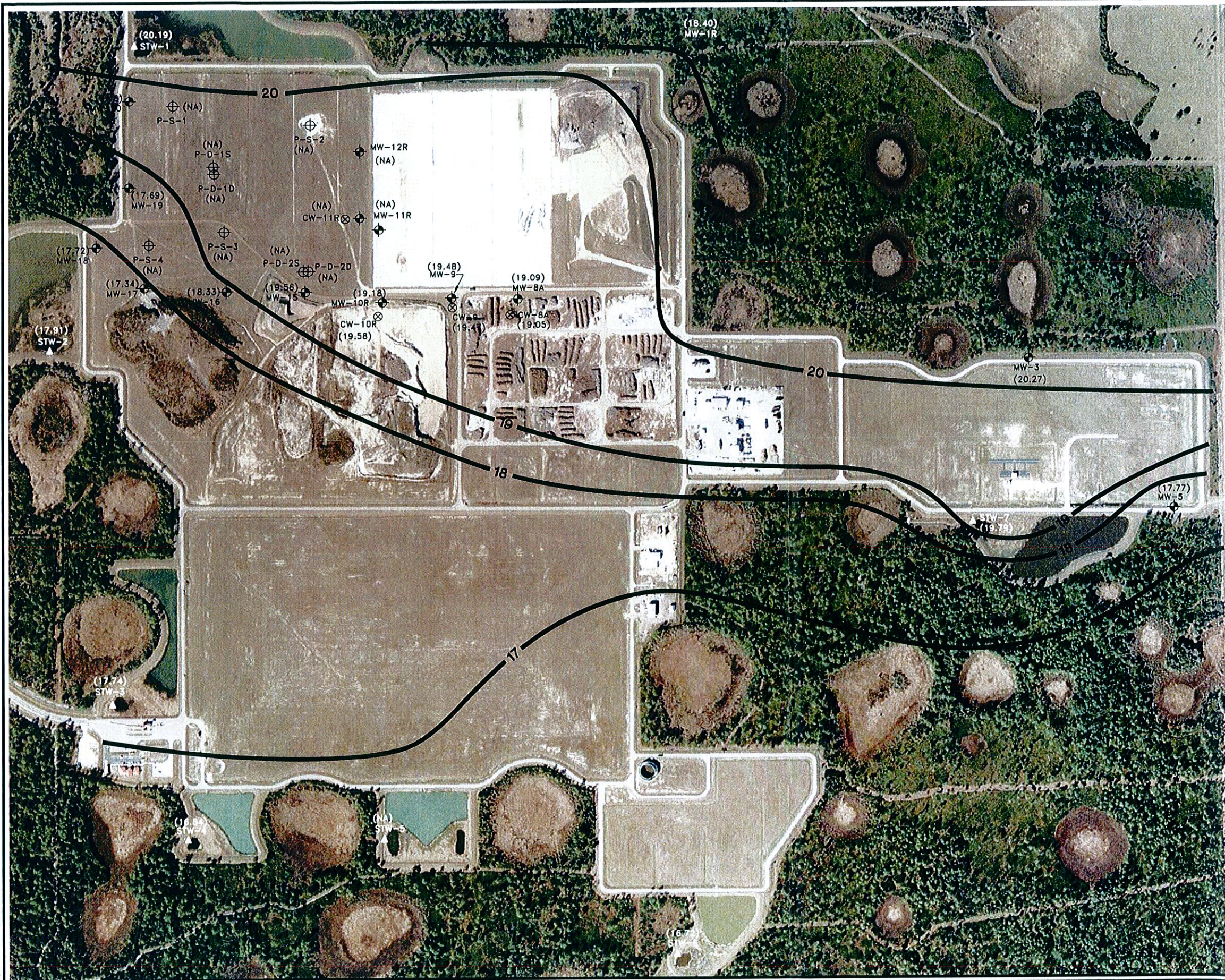


SARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE
DISPOSAL COMPLEX

GROUNDWATER CONTOUR MAP
OCTOBER 2009

FIGURE
7

U:\SO\OldG\HAZARD\Sarasota\Central Disposal Complex\GROUNDWATER CONTOUR MAPS\GROUNDWATER CONTOUR MAP MAY 2010.dwg Jun21,2010 - 2:23pm Plotted By: 22427



- LEGEND:
- ⊕ MONITORING WELL WITH GROUNDWATER ELEVATION (FT-NGVD)
 - ⊗ COMPLIANCE WELL WITH GROUNDWATER ELEVATION (FT-NGVD)
 - ⊕ PIEZOMETERS WITH GROUNDWATER ELEVATION (FT-NGVD)
 - ▲ MONITORING POINT WITH SURFACE WATER ELEVATION (FT-NGVD)
 - 19- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

NOTE:

1. GROUNDWATER DATA FROM 5-12-2010
2. GROUNDWATER ELEVATION GIVEN IN PARENTHESES

FT-NGVD = FEET ABOVE
NATIONAL GEODETIC VERTICAL
DATUM

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAY 18 2011
SOUTHWEST DISTRICT
TAMPA

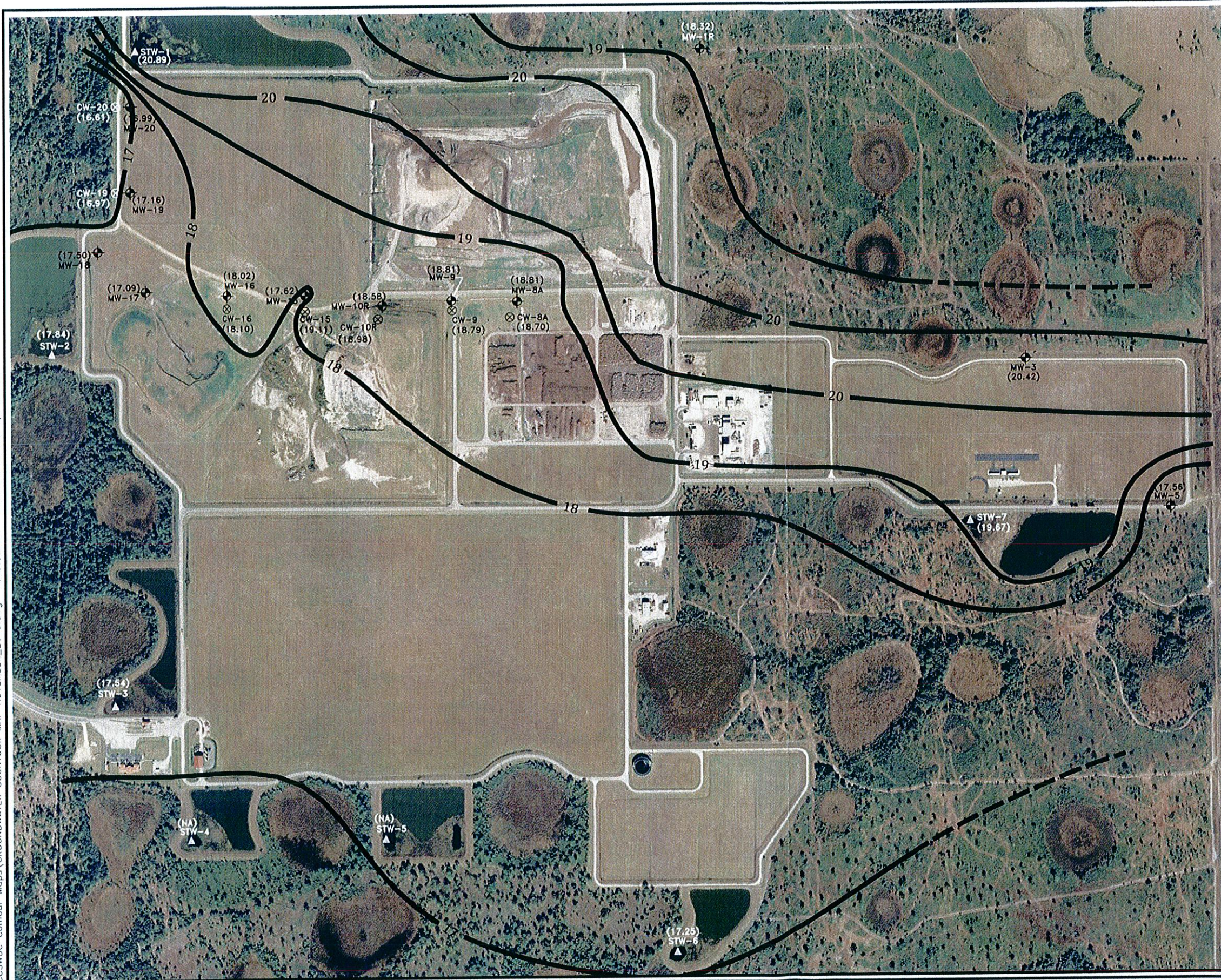
PBS&

SARASOTA COUNTY
CENTRAL COUNTY SOLID WASTE
DISPOSAL COMPLEX

GROUNDWATER CONTOUR MAP
MAY 2010

FIGURE
8

Y:\George Thomas\CCSWDC Contour Maps\GROUNDWATER CONTOUR MAP NOVEMBER_2010.dwg Nov23,2010 - 11:55am Plotted By: 22322



LEGEND:

- ⊕ MONITORING WELL WITH GROUNDWATER ELEVATION (FT-NGVD)
- ⊗ COMPLIANCE WELL WITH GROUNDWATER ELEVATION (FT-NGVD)
- ⊕ PIEZOMETERS WITH GROUNDWATER ELEVATION (FT-NGVD)
- ▲ MONITORING POINT WITH SURFACE WATER ELEVATION (FT-NGVD)
- 19- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

NOTE:

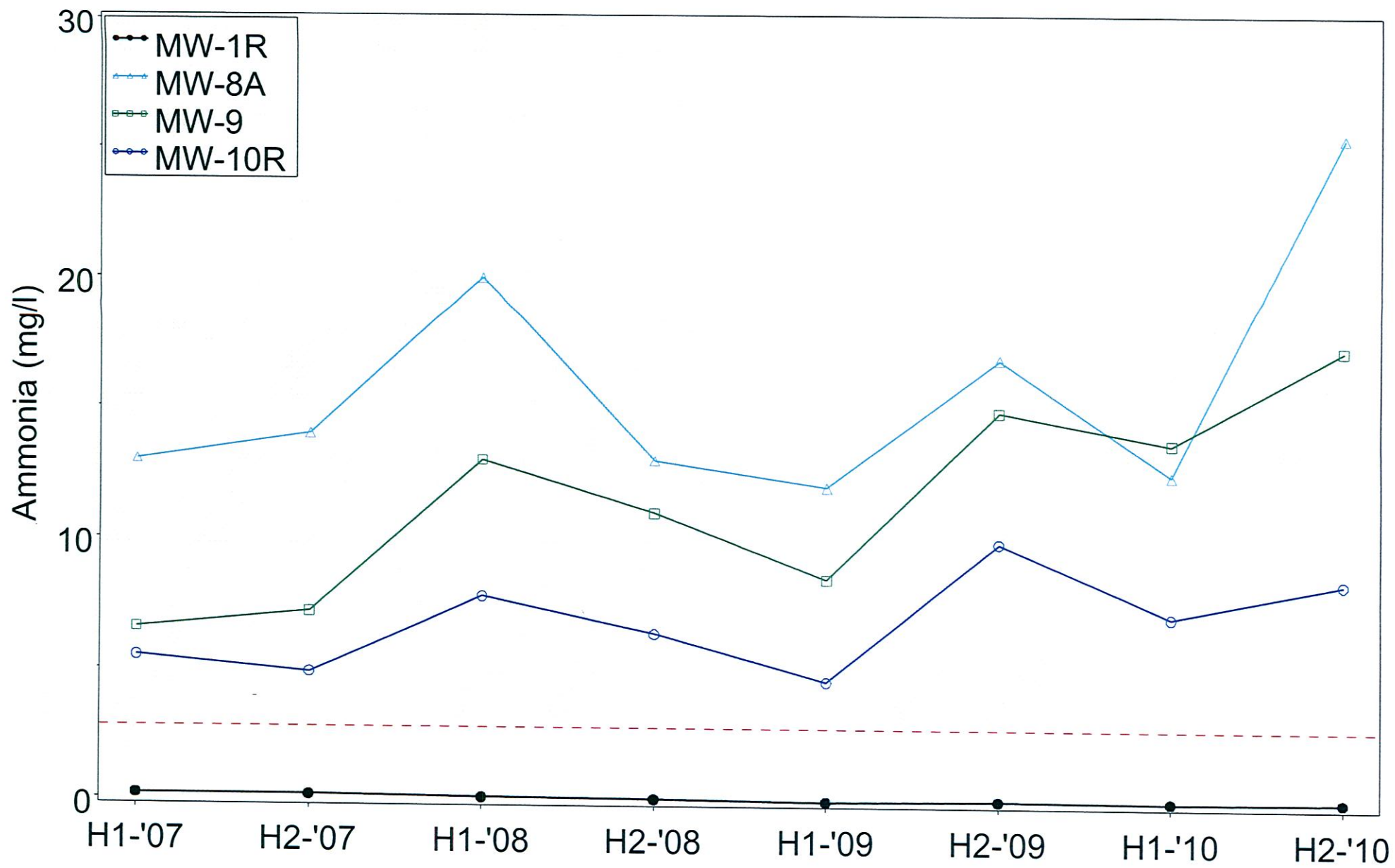
1. GROUNDWATER DATA FROM 11-2-2010
 2. GROUNDWATER ELEVATION GIVEN IN PARENTHESES
- NA = BELOW STAFF GAUGE

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAY 18 2011
SOUTHWEST DISTRICT
TAMPA

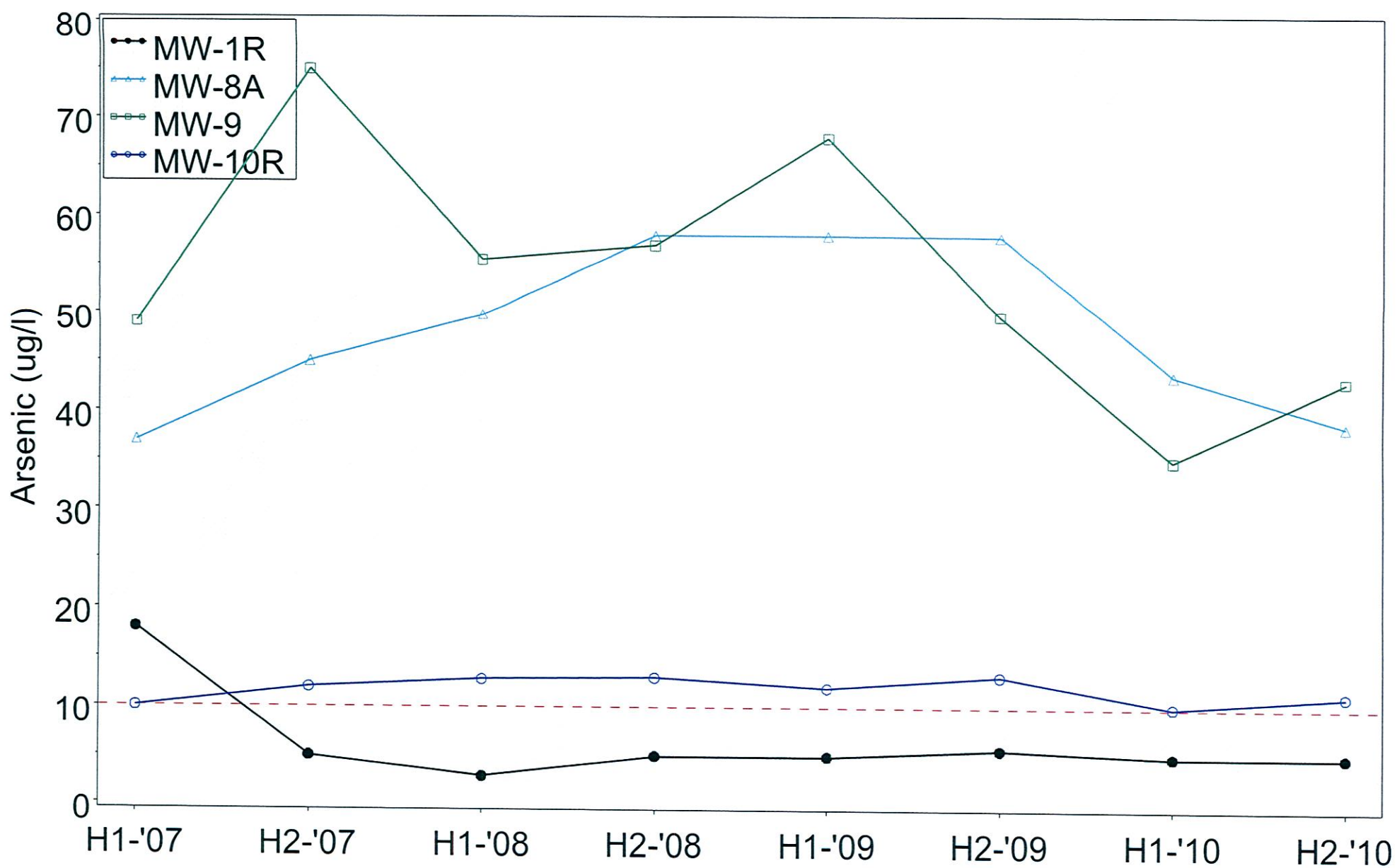
FT-NGVD = FEET ABOVE
NATIONAL GEODETIC VERTICAL
DATUM

APPENDIX A

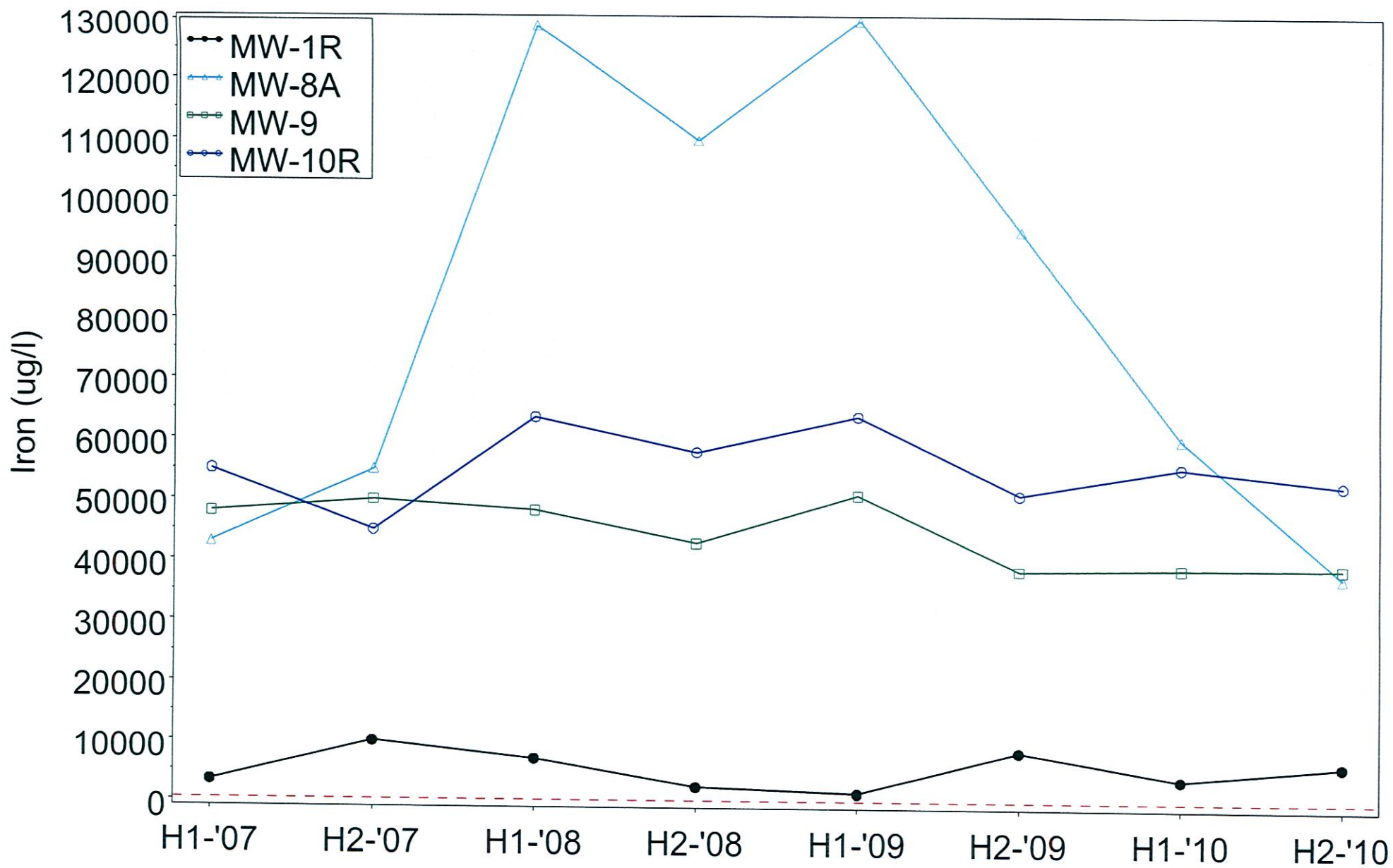
Parameter Concentration Graphs



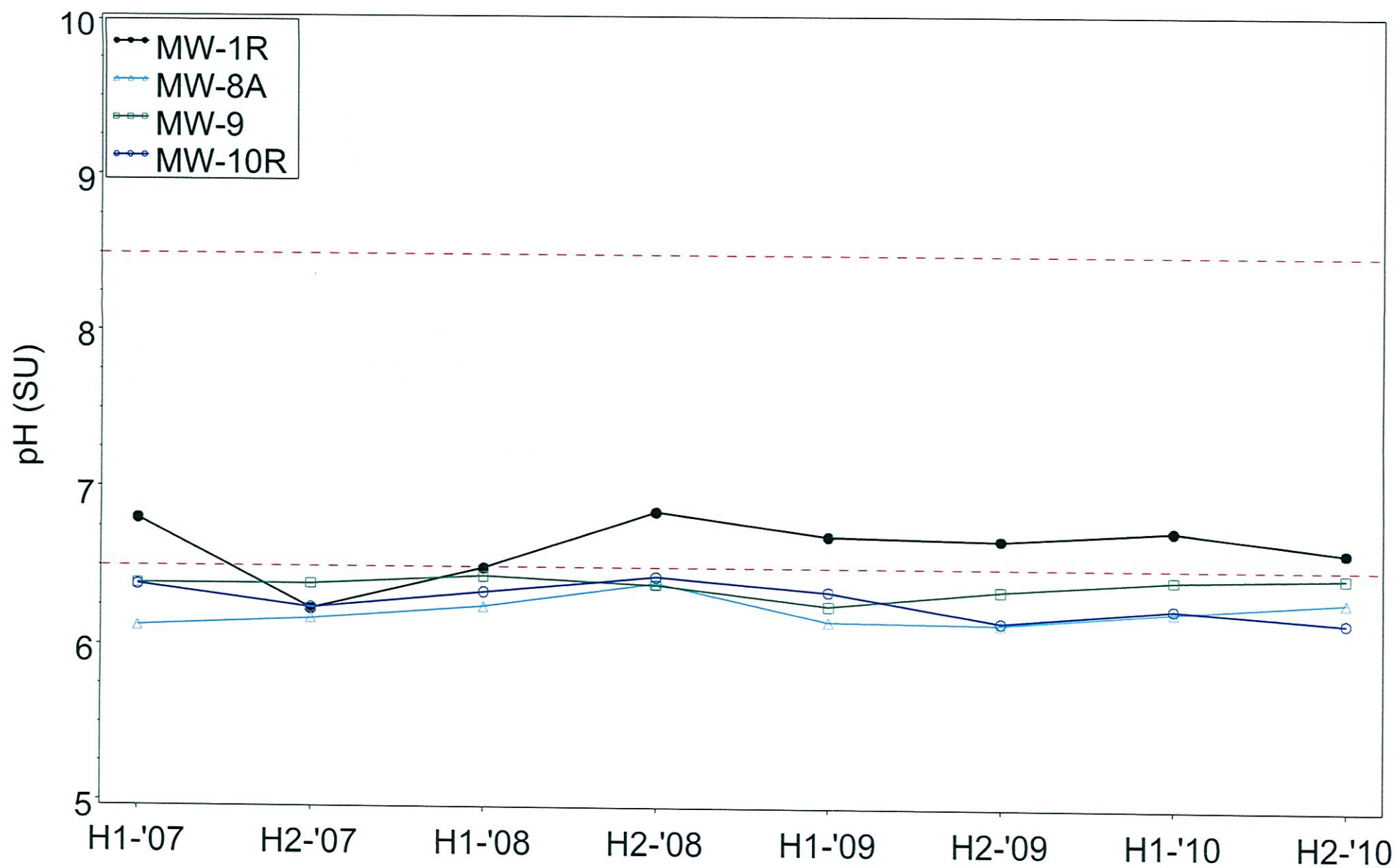
Ammonia concentration in various monitoring wells at the Central County Landfill



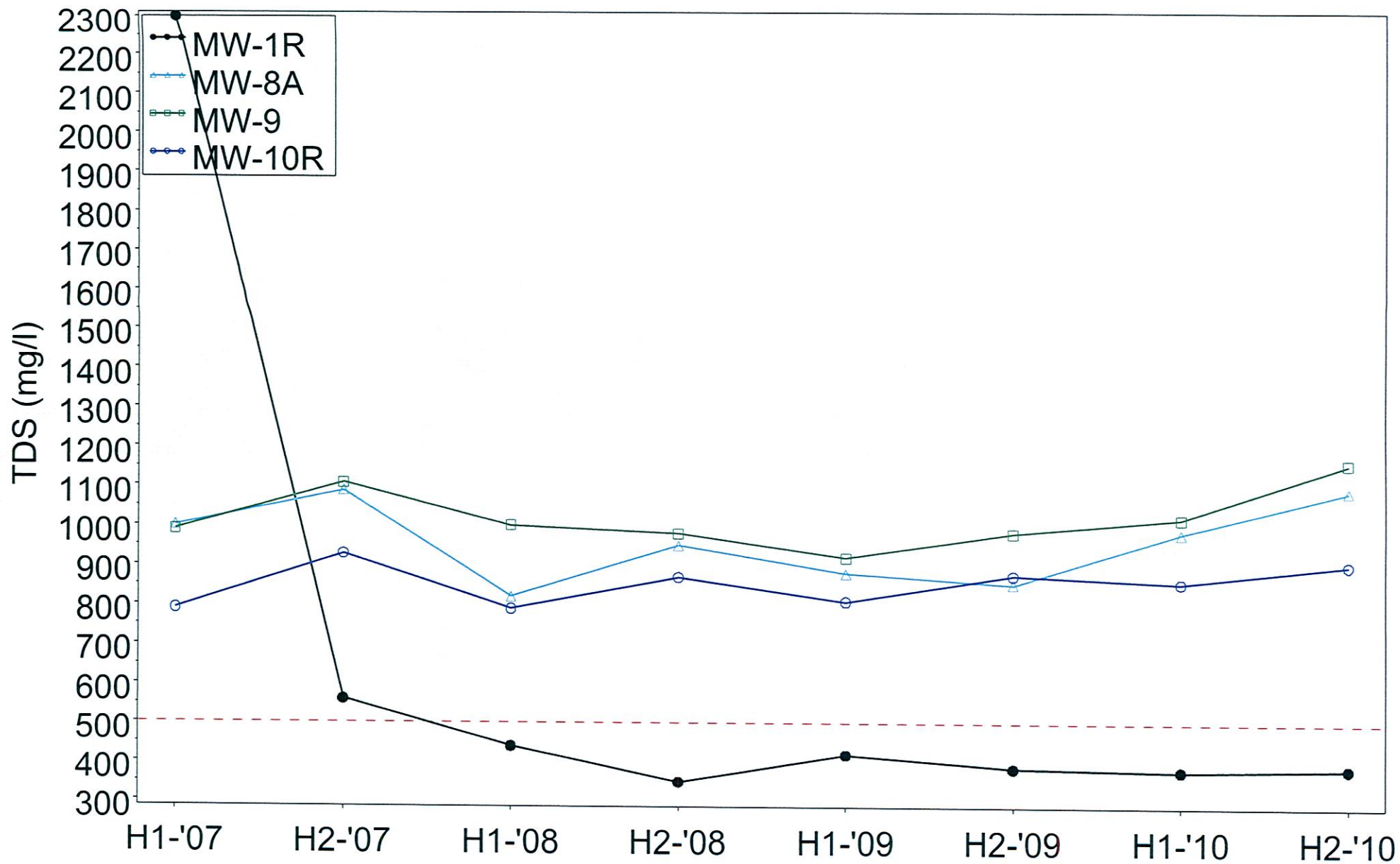
Arsenic concentration in various monitoring wells at the Central County Landfill



Iron concentration in various monitoring wells at the Central County Landfill



pH in various monitoring wells at the Central County Landfill

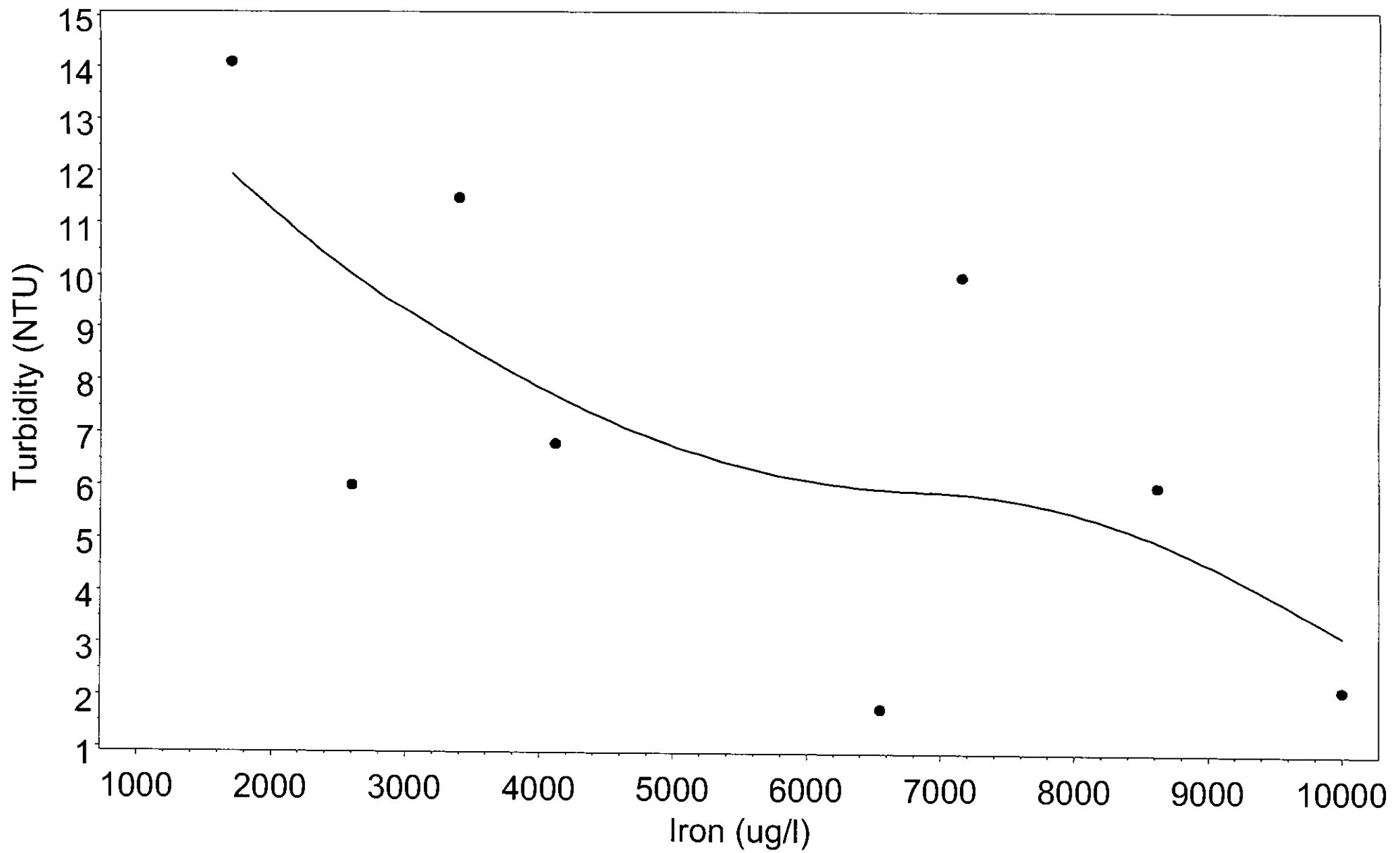


TDS concentration in various monitoring wells at the Central County Landfill

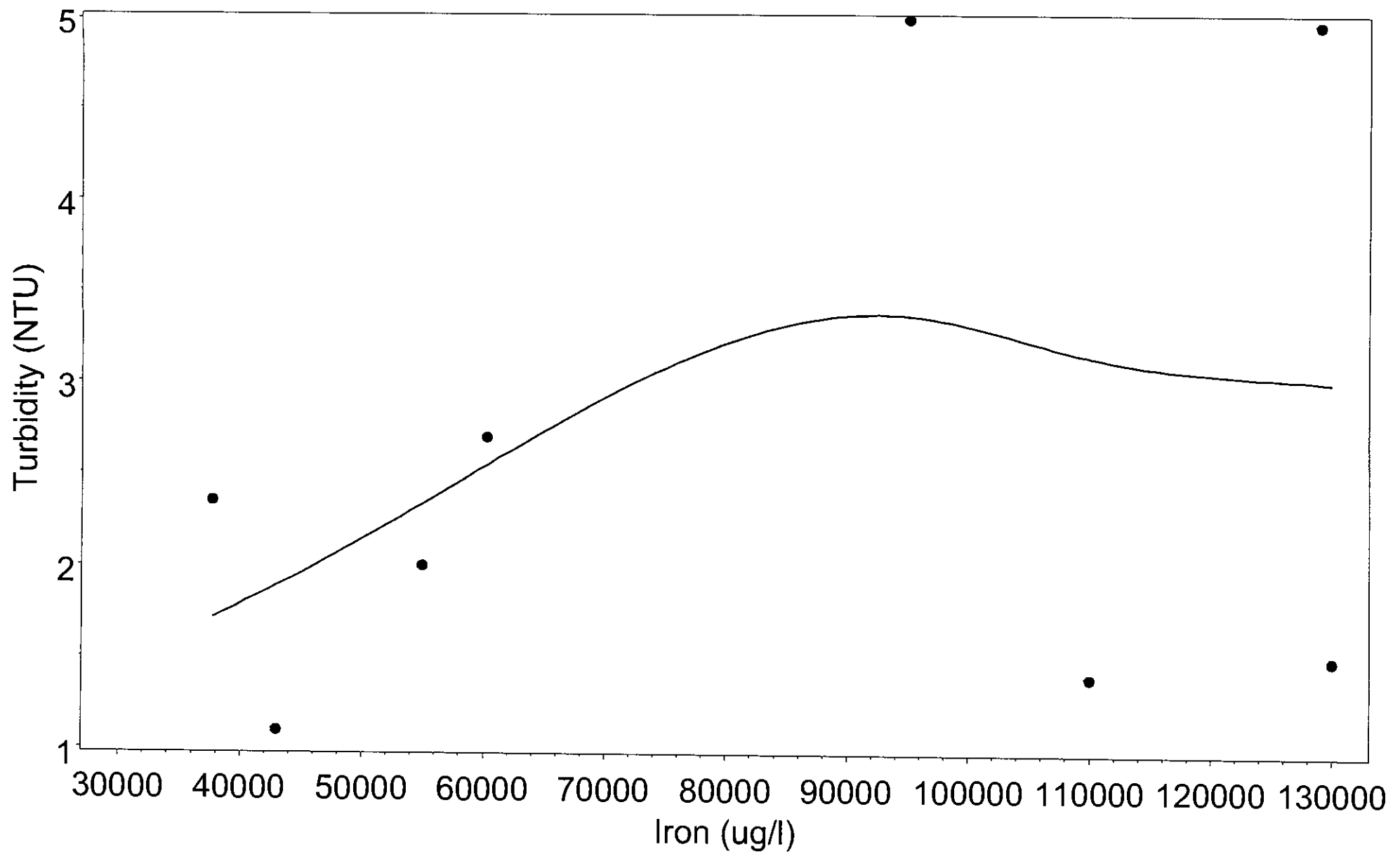
APPENDIX B

Related Parameter Correlation Graphs

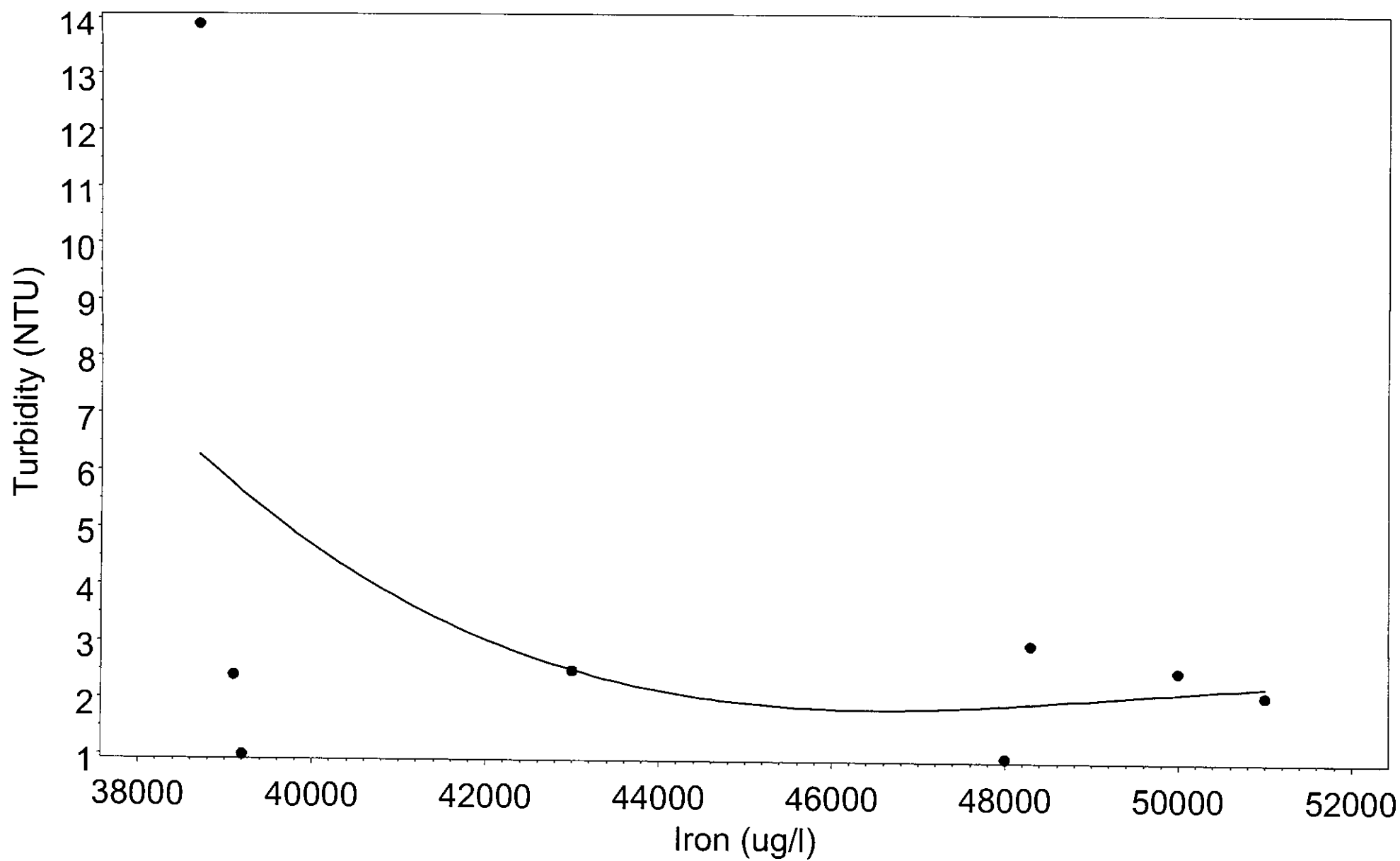
B-1 – Turbidity versus Iron



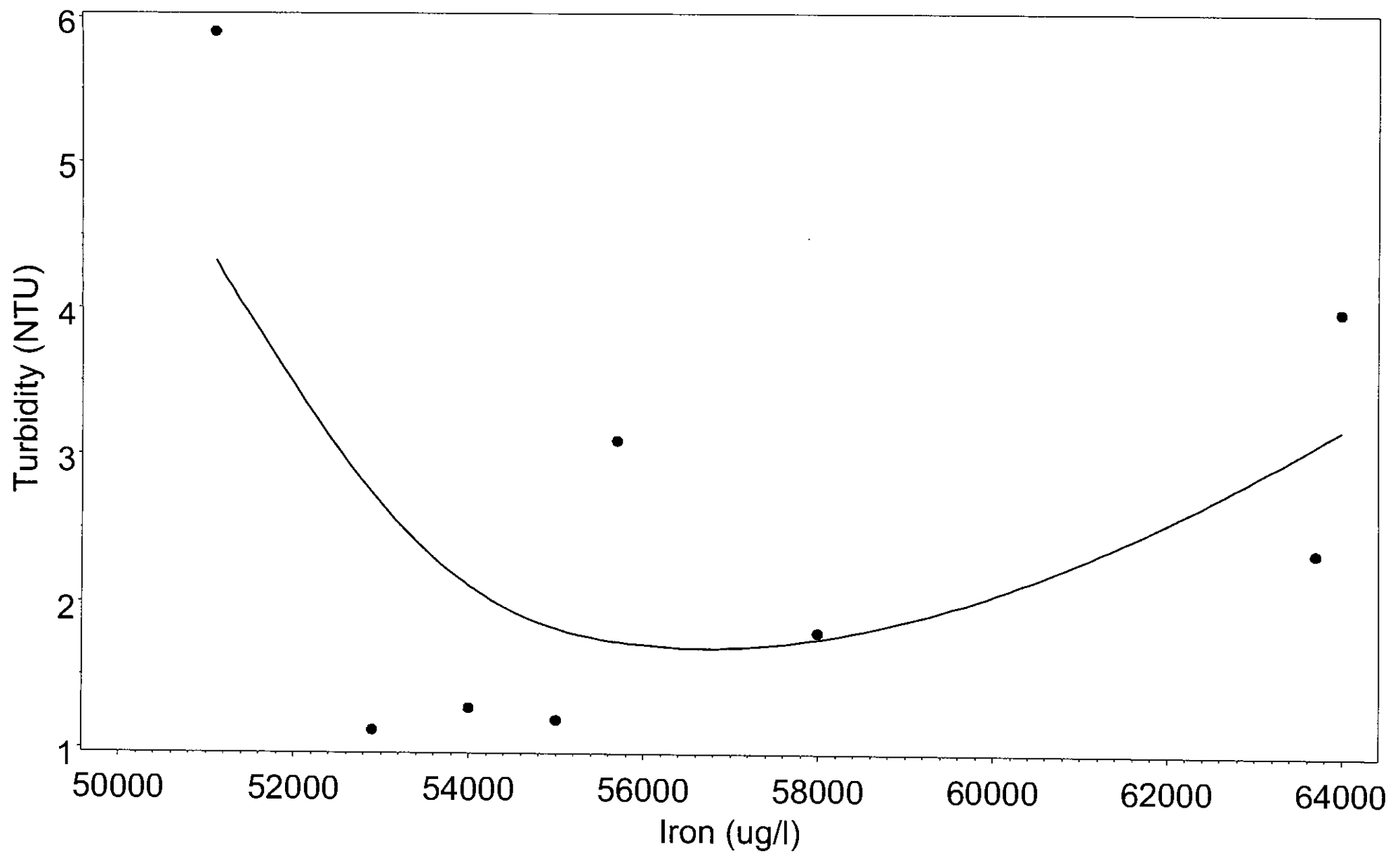
Well 'MW-1R' concentration of Turbidity versus Iron at the Central County Landfill



Well 'MW-8A' concentration of Turbidity versus Iron at the Central County Landfill

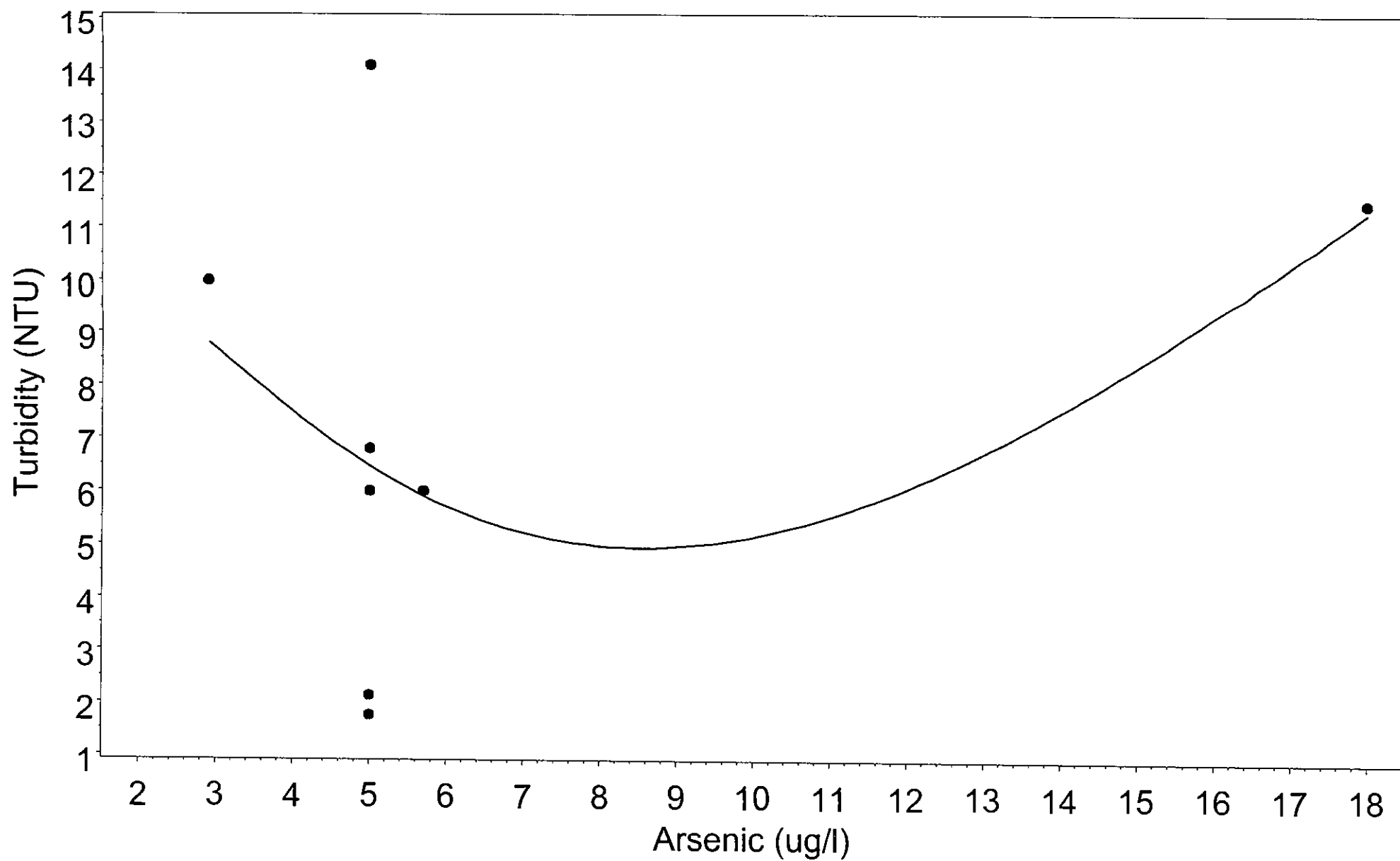


Well 'MW-9' concentration of Turbidity versus Iron at the Central County Landfill

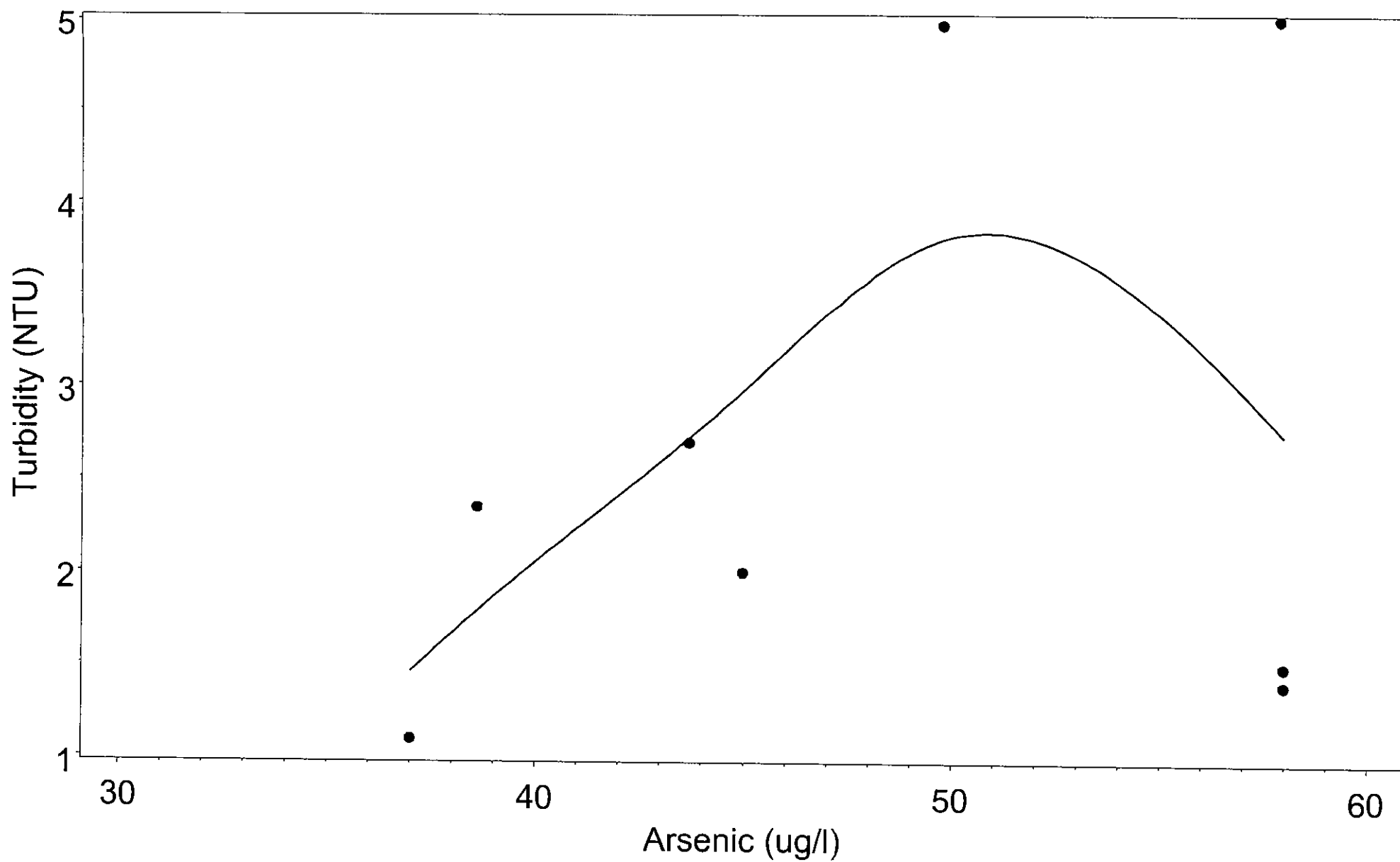


Well 'MW-10R' concentration of Turbidity versus Iron at the Central County Landfill

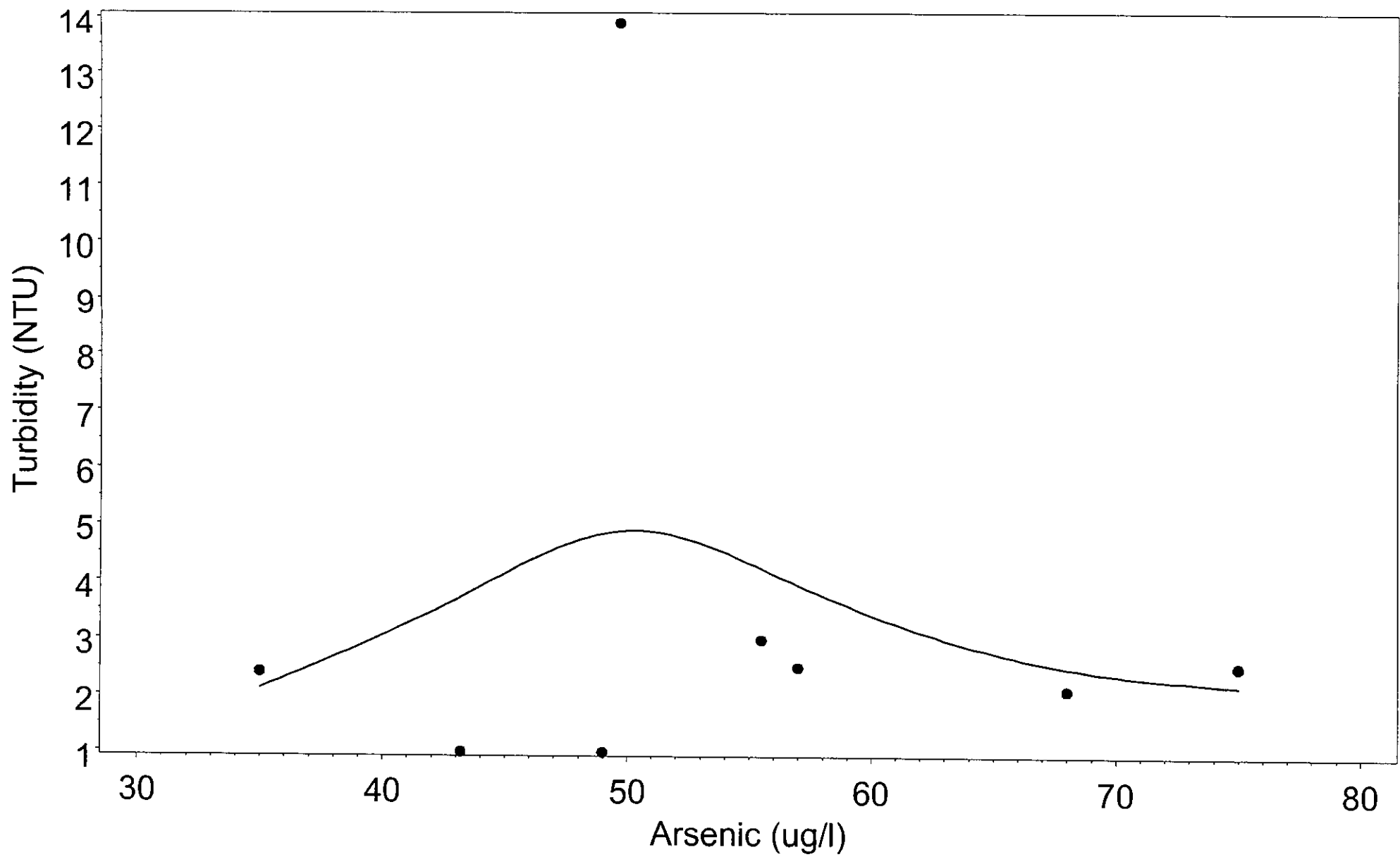
B-2 – Turbidity versus Arsenic



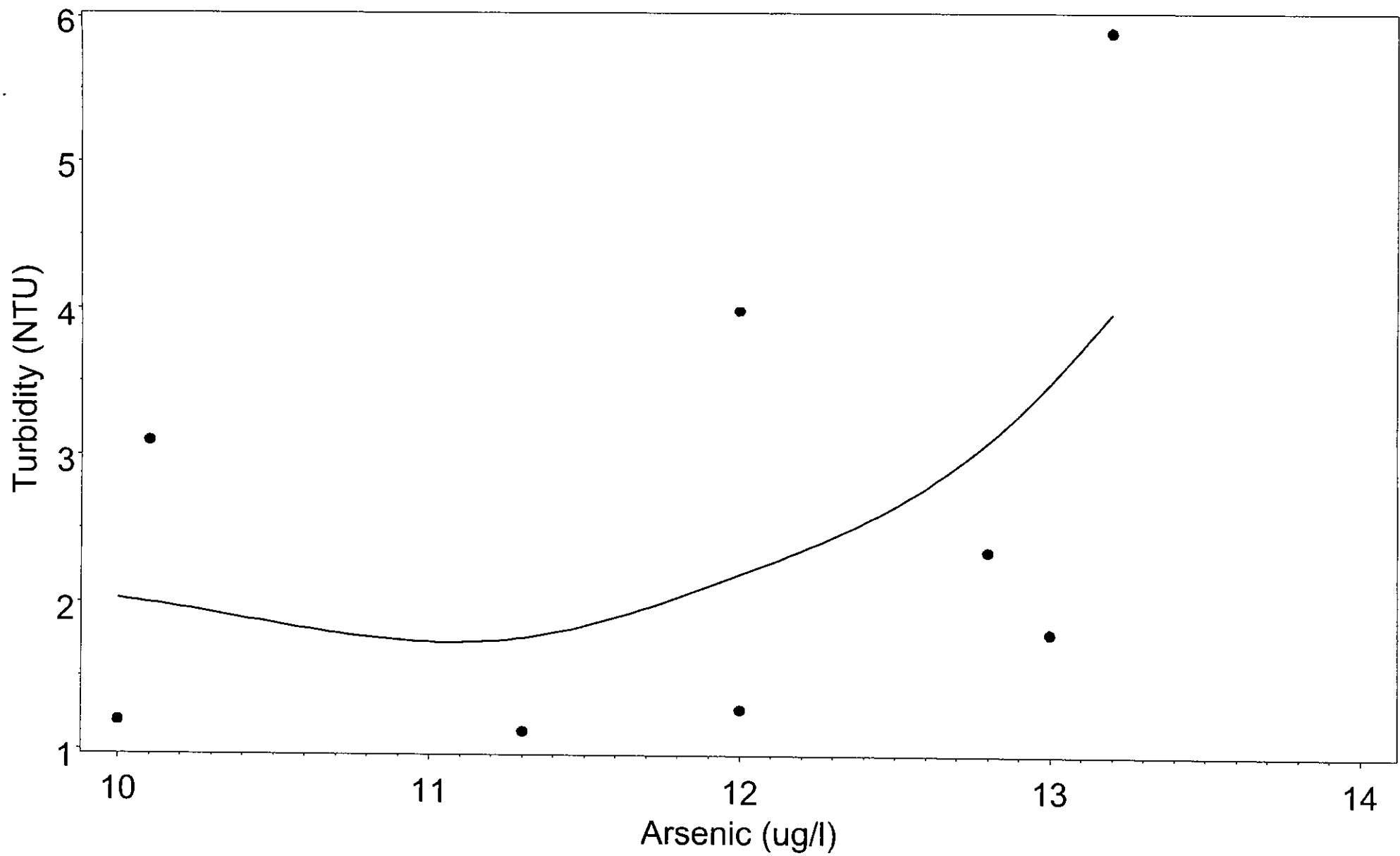
Well 'MW-1R' concentration of Turbidity versus Arsenic at the Central County Landfill



Well 'MW-8A' concentration of Turbidity versus Arsenic at the Central County Landfill

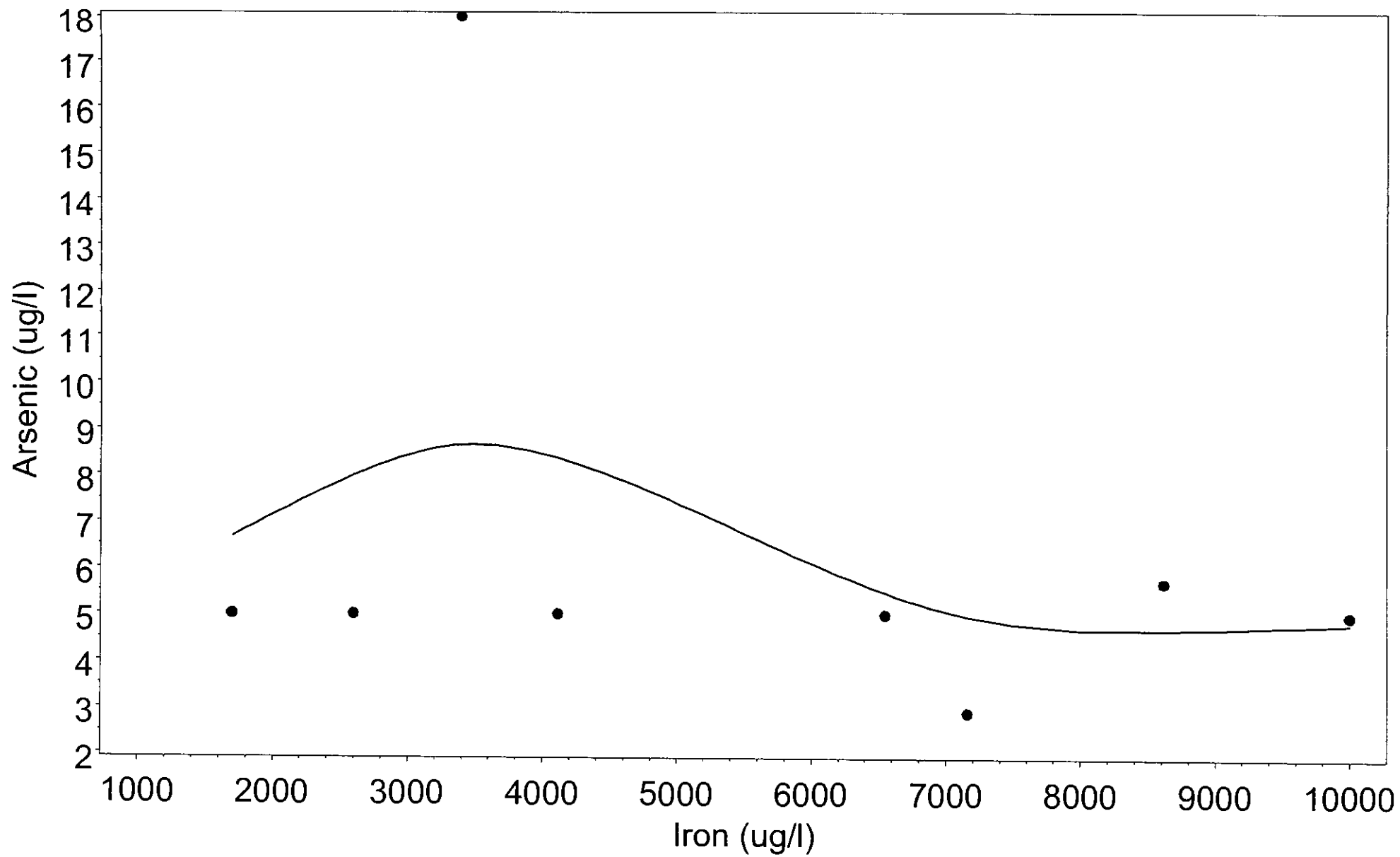


Well 'MW-9' concentration of Turbidity versus Arsenic at the Central County Landfill

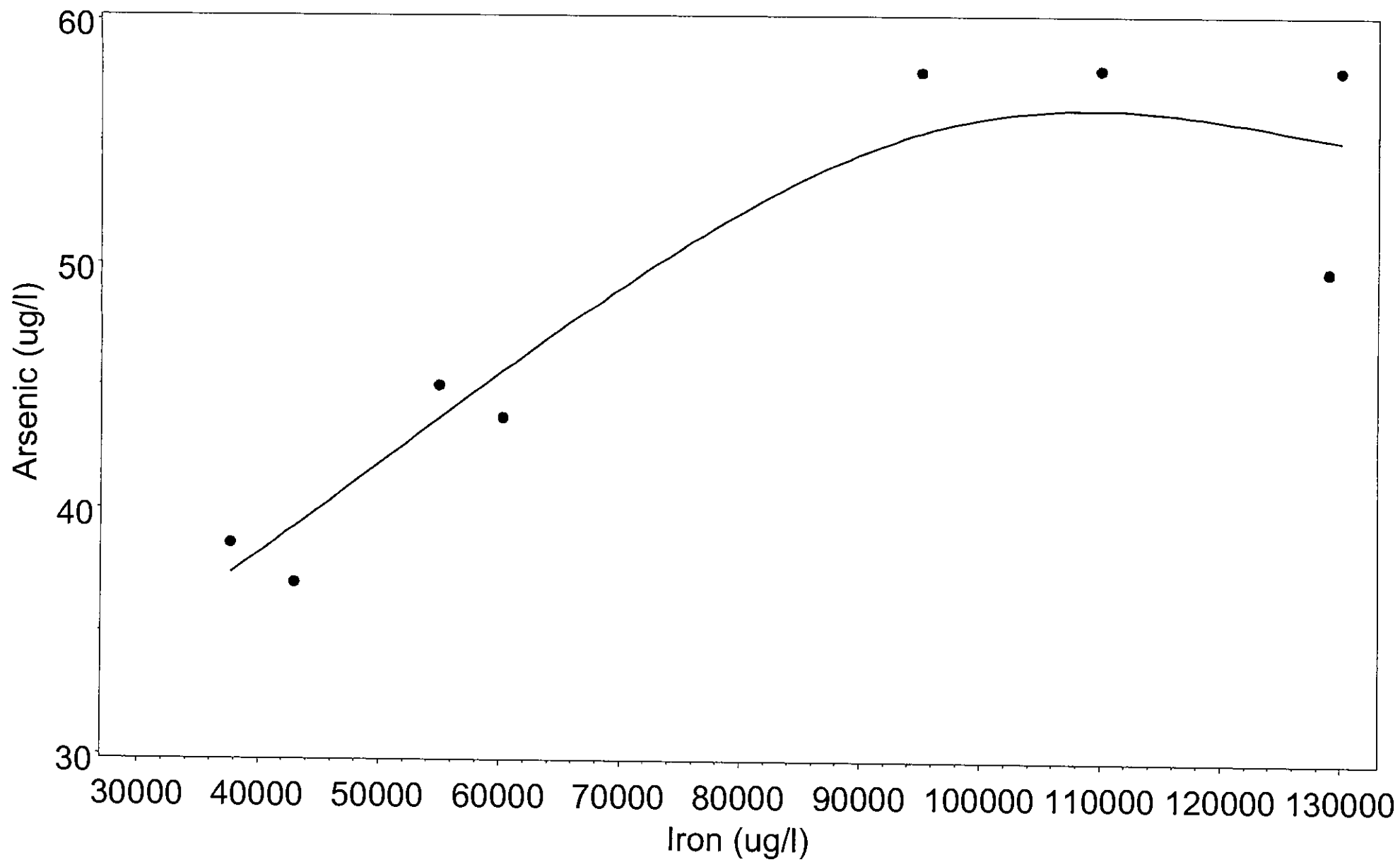


Well 'MW-10R' concentration of Turbidity versus Arsenic at the Central County Landfill

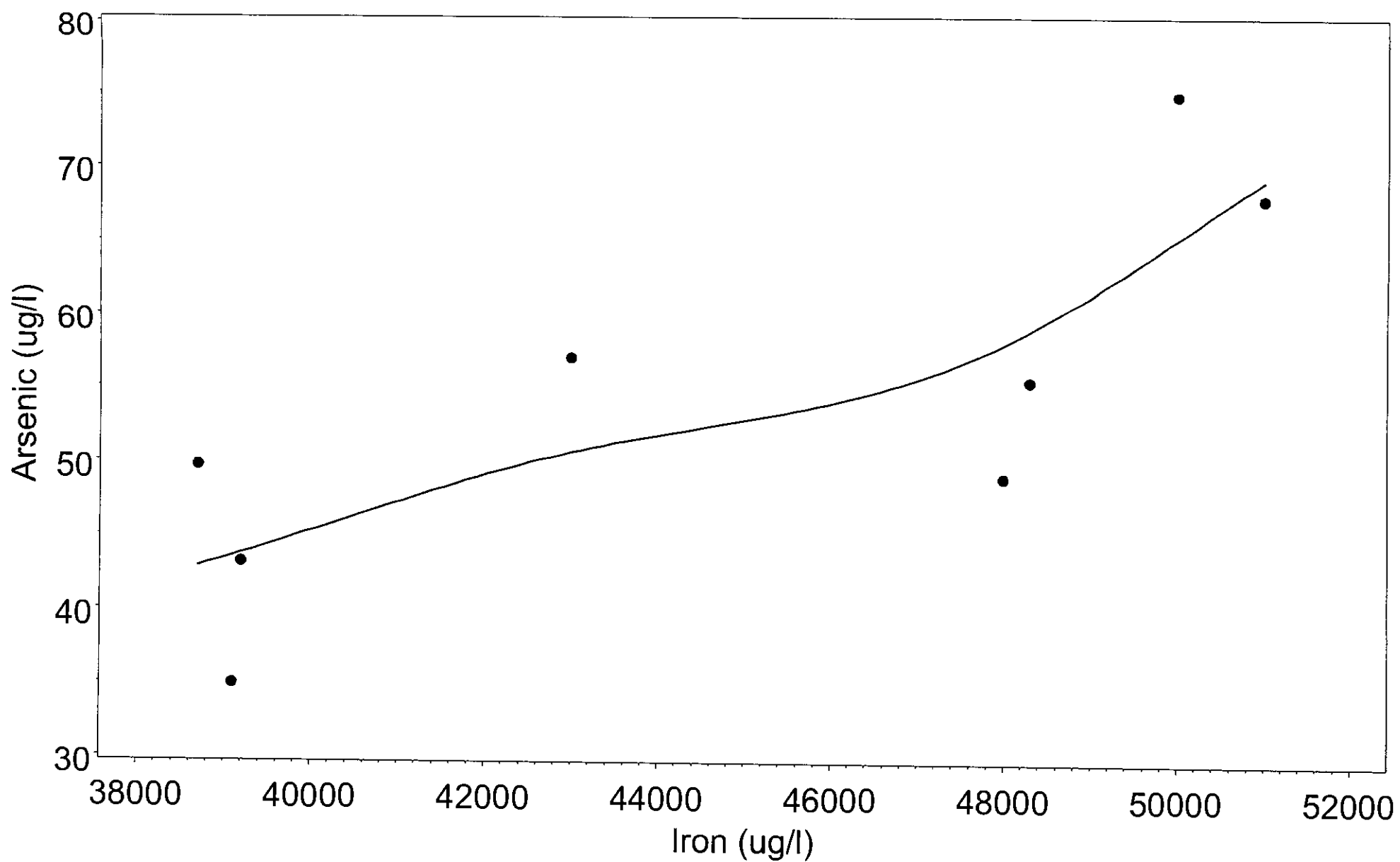
B-3 – Arsenic verses Iron



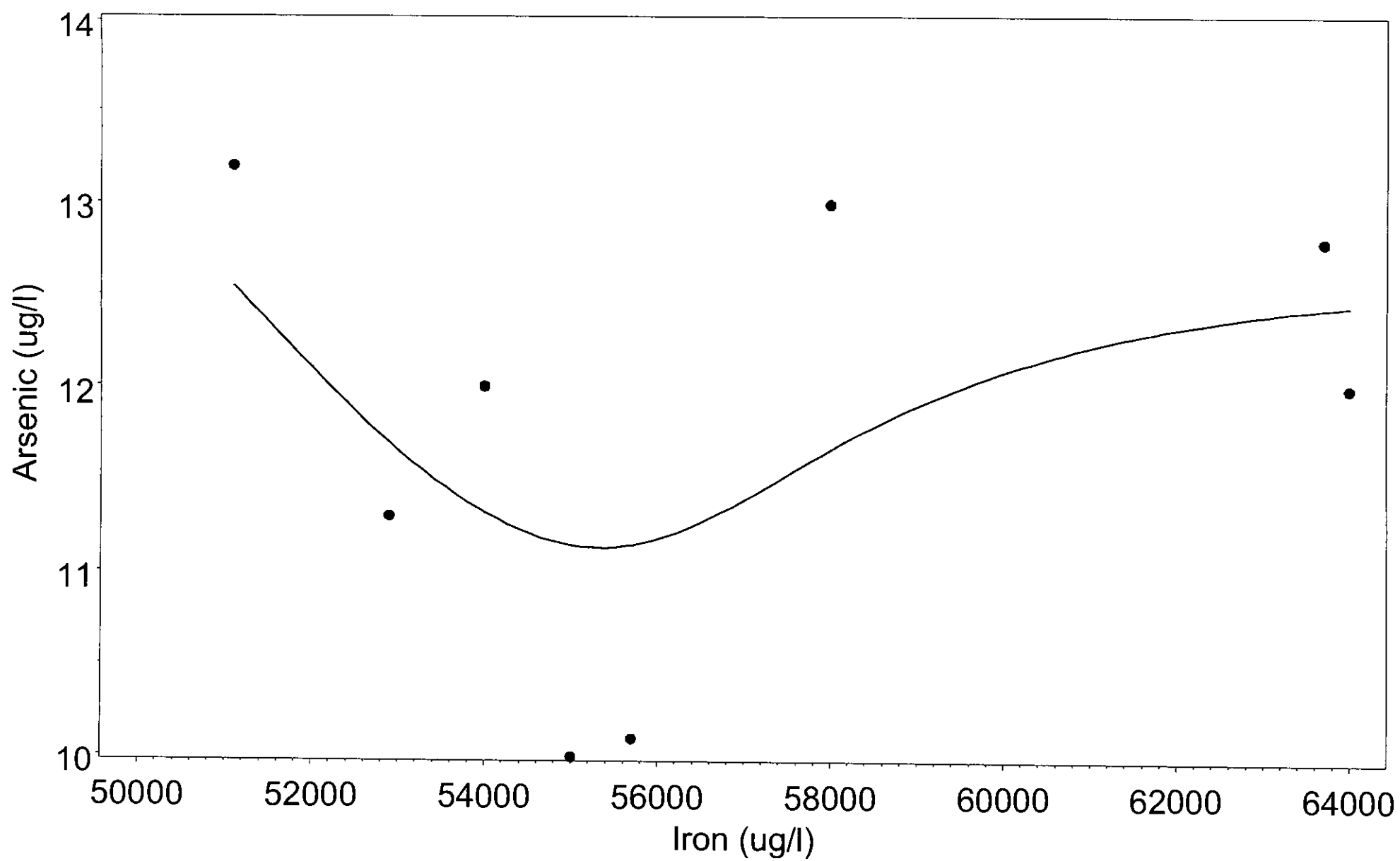
Well 'MW-1R' concentration of Arsenic versus Iron at the Central County Landfill



Well 'MW-8A' concentration of Arsenic versus Iron at the Central County Landfill

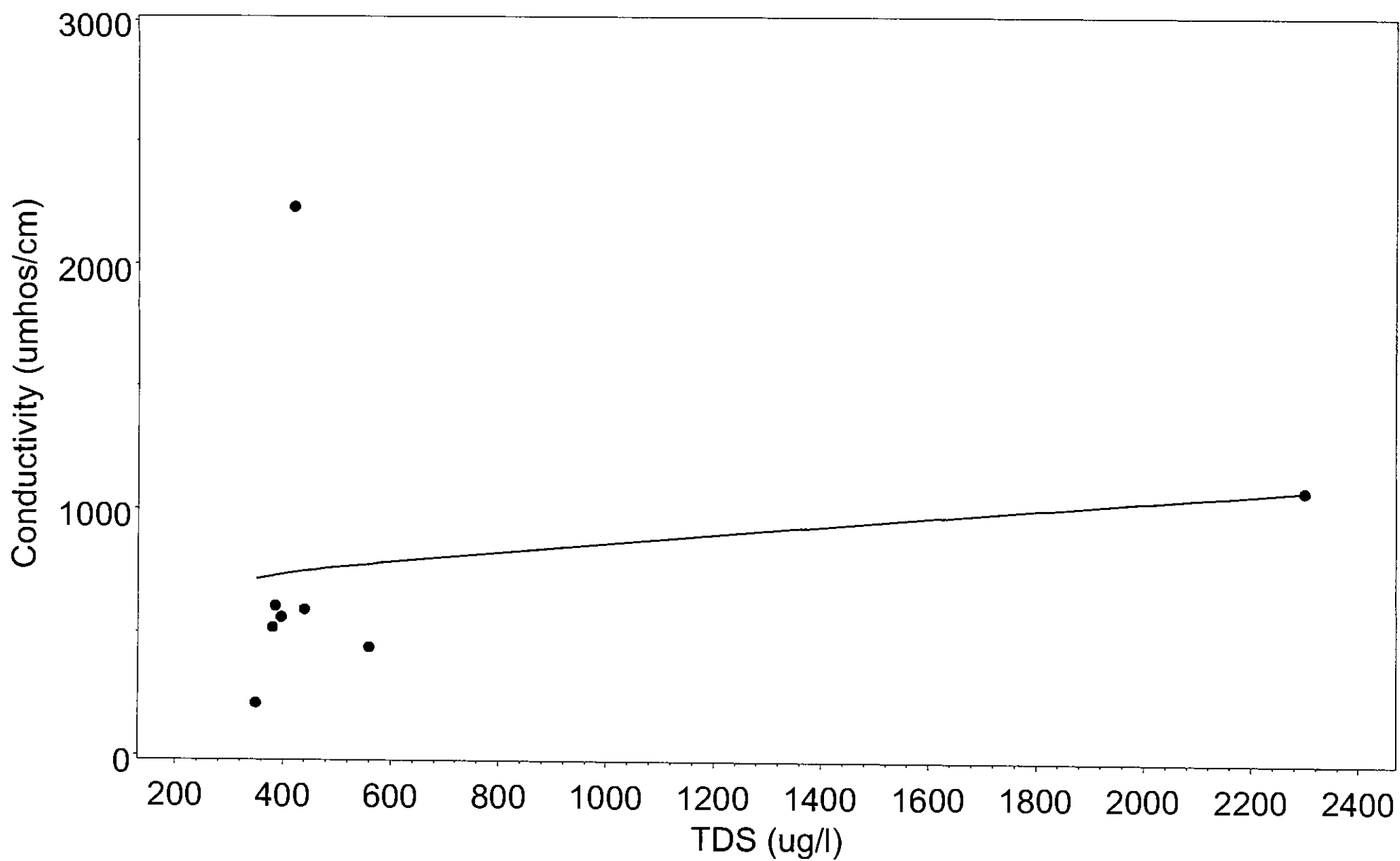


Well 'MW-9' concentration of Arsenic versus Iron at the Central County Landfill

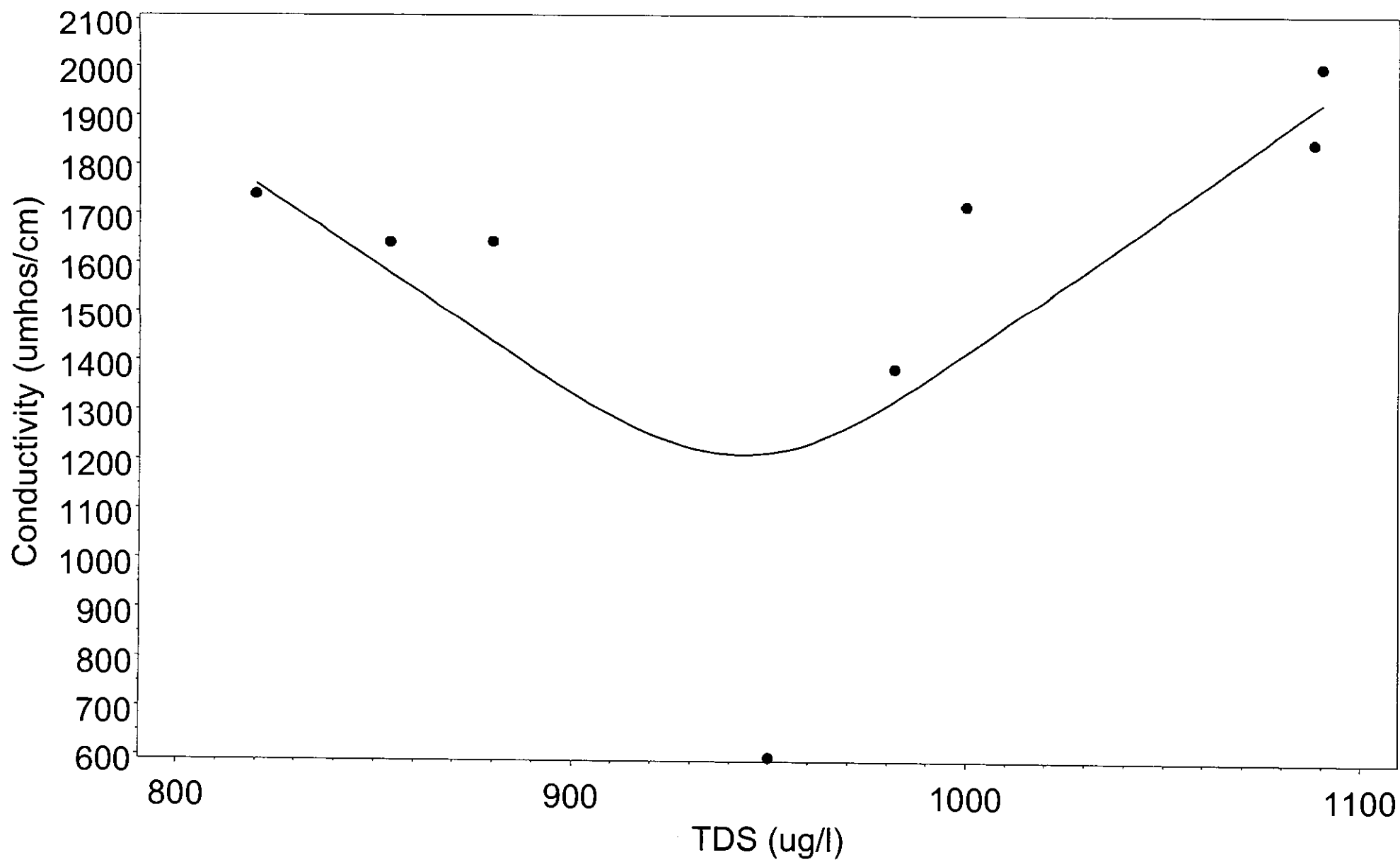


Well 'MW-10R' concentration of Arsenic versus Iron at the Central County Landfill

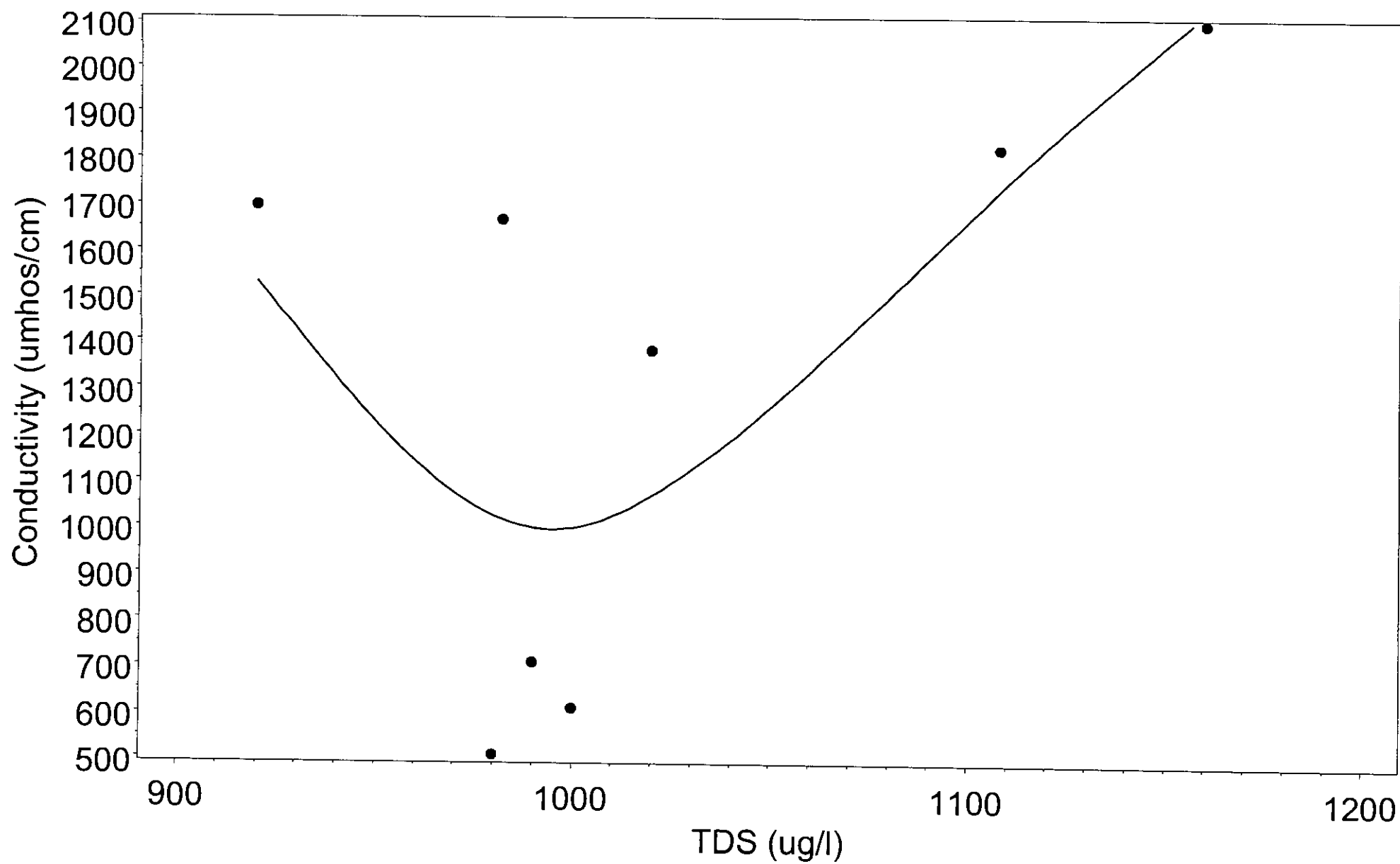
B-4 – Conductivity versus TDS



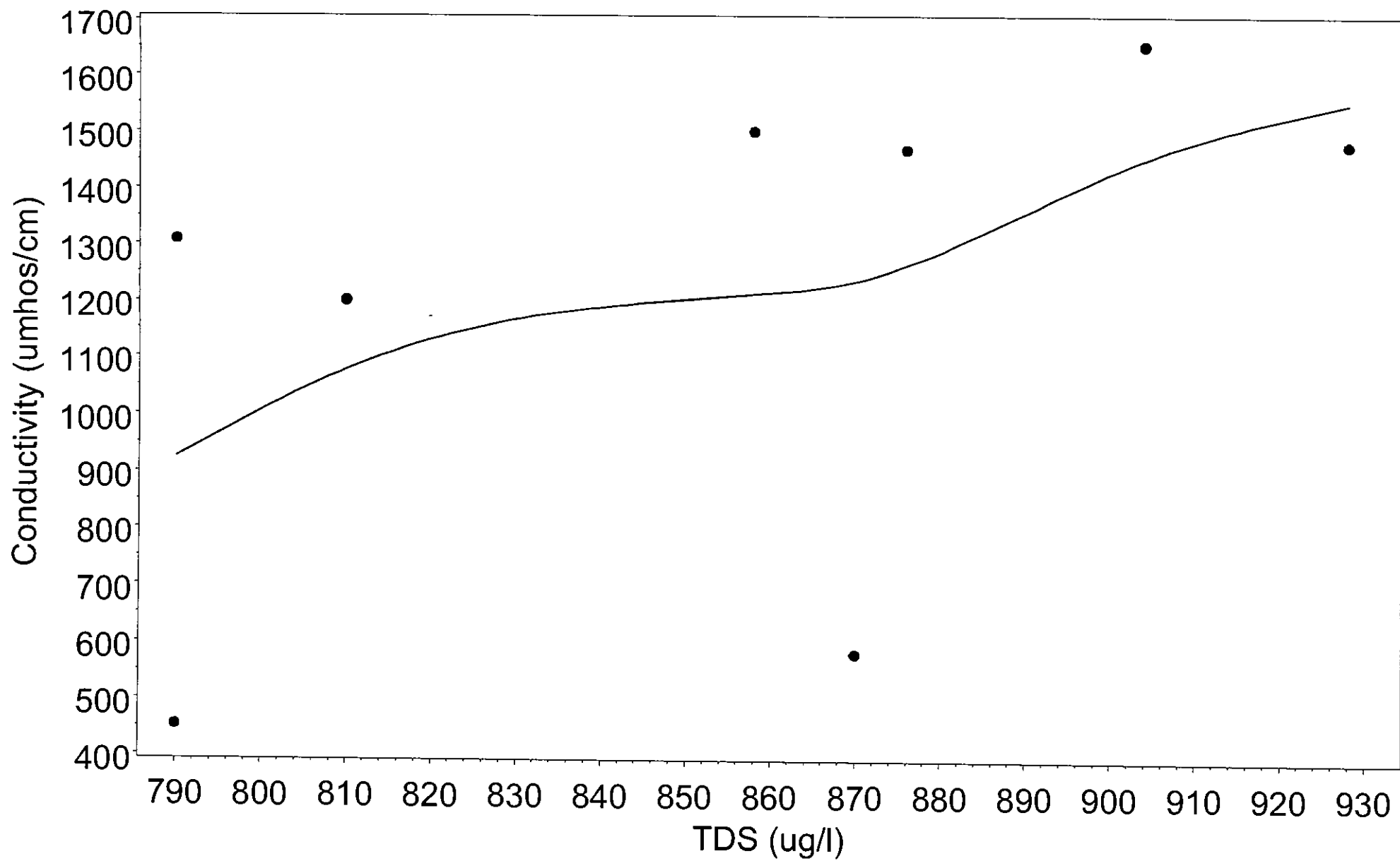
Well 'MW-1R' concentration of Conductivity versus TDS at the Central County Landfill



Well 'MW-8A' concentration of Conductivity versus TDS at the Central County Landfill

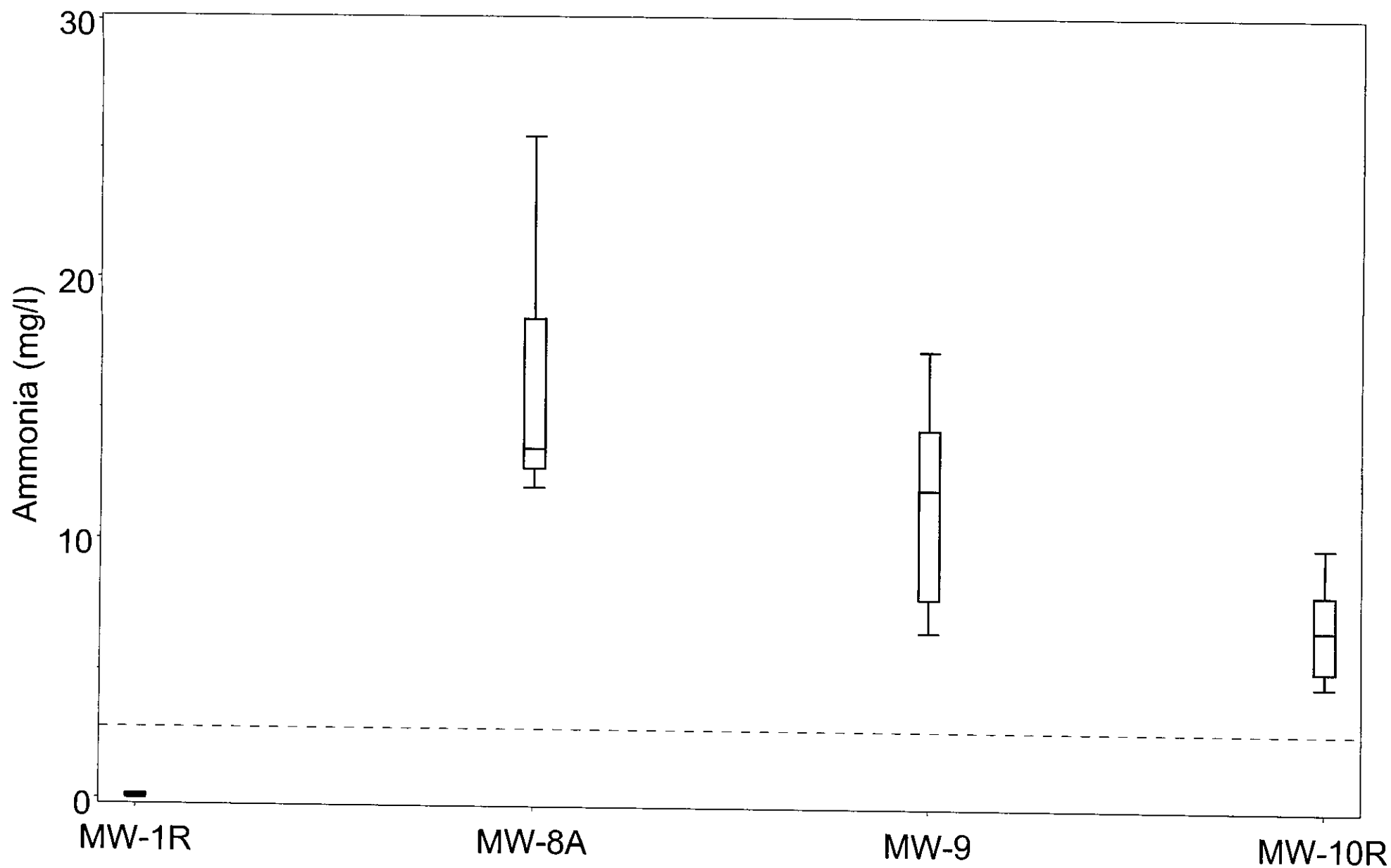


Well 'MW-9' concentration of Conductivity versus TDS at the Central County Landfill

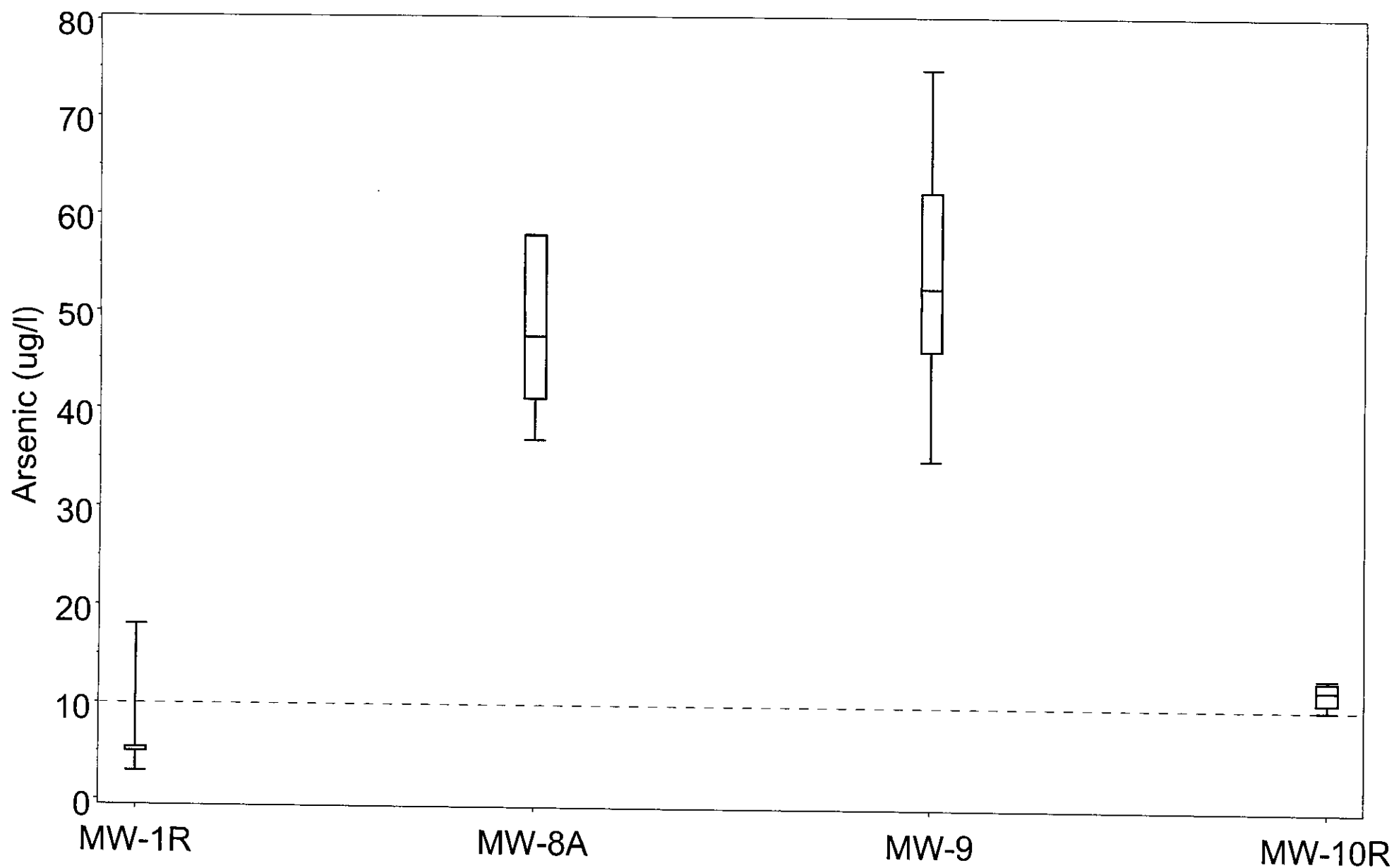


Well 'MW-10R' concentration of Conductivity versus TDS at the Central County Landfill

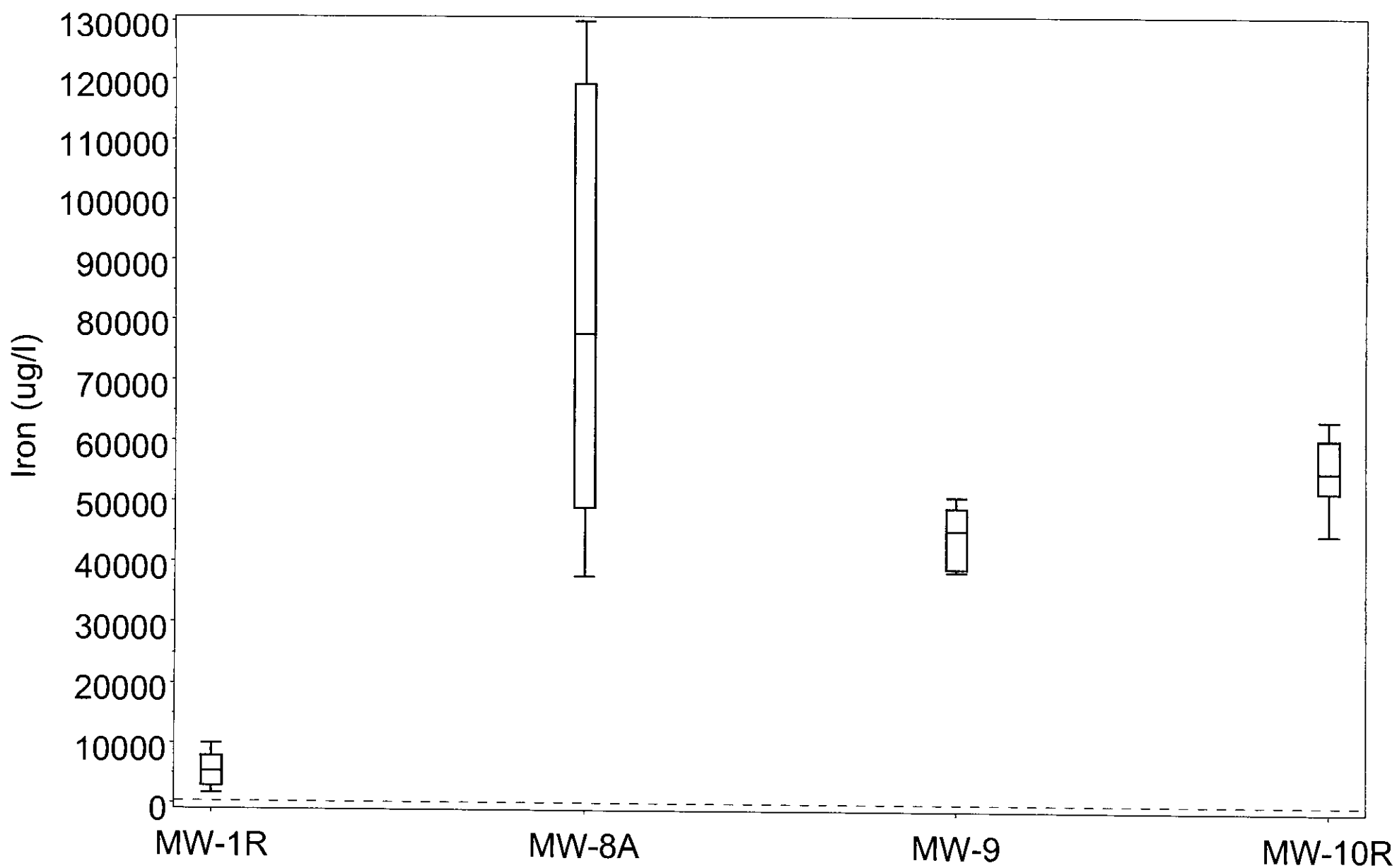
APPENDIX C
Cross-Gradient Graphs



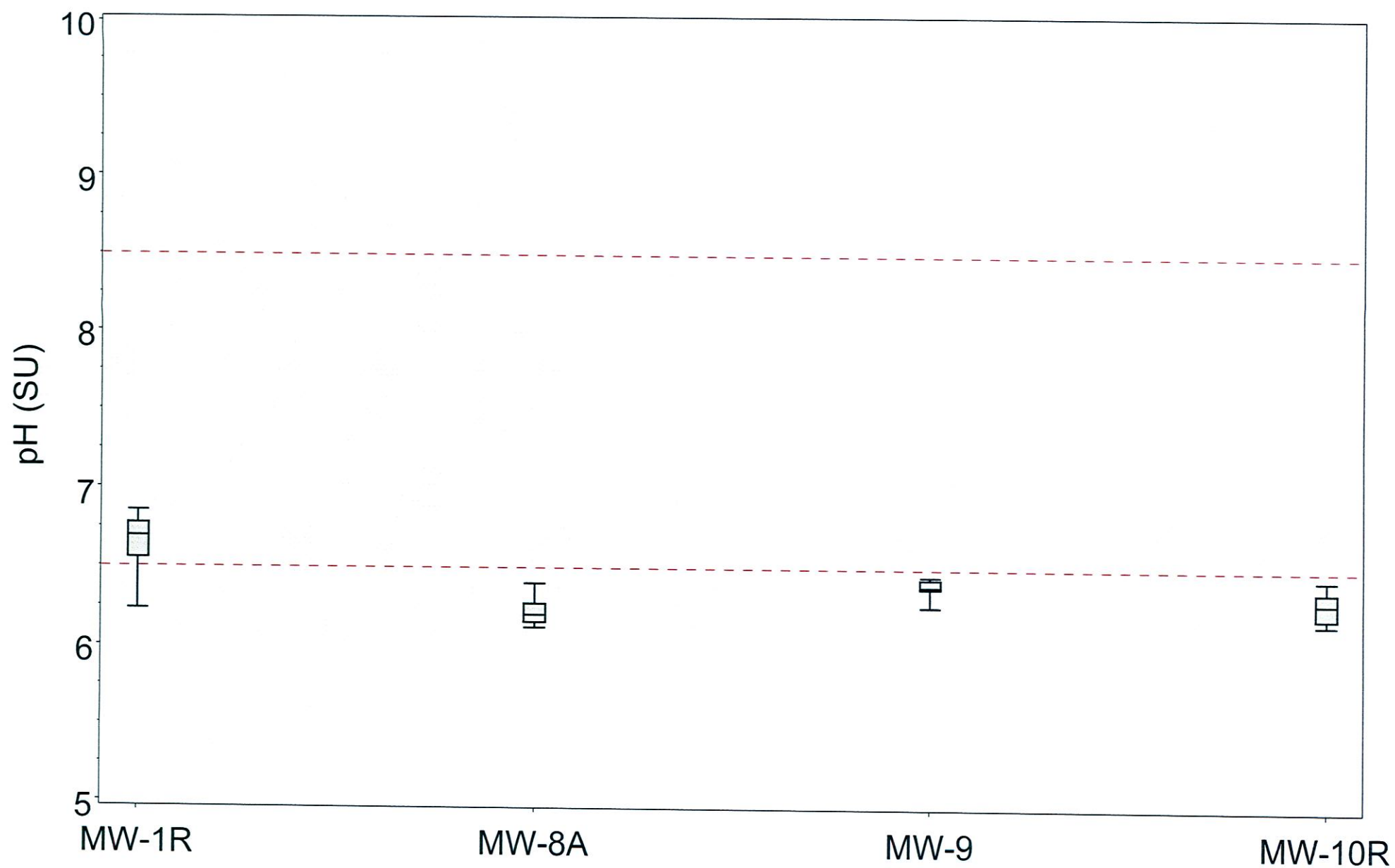
Ammonia concentration from upgradient (MW-1R) to downgradient (MW-10R) at the Central County Landfill



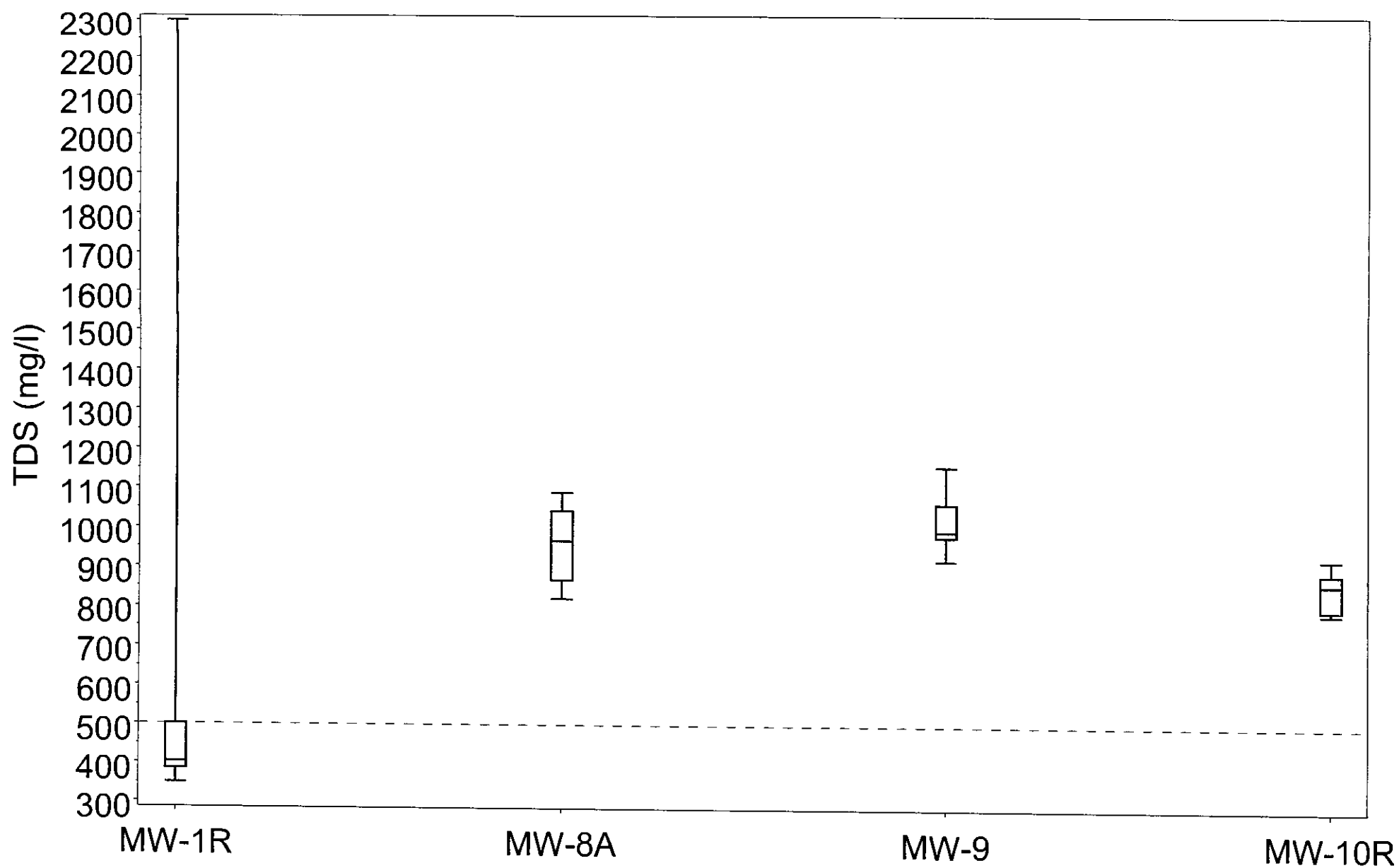
Arsenic concentration from upgradient (MW-1R) to downgradient (MW-10R) at the Central County Landfill



Iron concentration from upgradient (MW-1R) to downgradient (MW-10R) at the Central County Landfill



pH concentration from upgradient (MW-1R) to downgradient (MW-10R) at the Central County Landfill



TDS concentration from upgradient (MW-1R) to downgradient (MW-10R) at the Central County Landfill