Pelz, Susan

From:

Bayne, Bradley J [Bradley.Bayne@atkinsglobal.com]

Sent:

Friday, May 20, 2011 9:57 AM

To:

Pelz, Susan Lois E. Rose

Cc: 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

4030 West Boy Scout Boulevard, Suite 700 Tampa, FL 33607 | Direct: 813-281-8377 | Cell: 727-424-6716

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ATKINS

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

ATKINS

May 17, 2010

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

Dept. Of Environmental Protection

MAY 18 2011

Southwest District

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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 1 8 2011

Southwest District



Sarasota County Solid Waste Operations 4000 Knights Trail Road Nokomis, Florida 34275

Prepared By:

ATKINS

4030 W. Boy Scout Boulevard, #700 Tampa, FL 33607

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

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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
- A comparison of the detection trends between the shallow and deep aquifers
- A comparison between the detection trends in the background wells and compliance
- A correlation between related parameters
- An interpretation of the groundwater flow conditions
- An evaluation of the adequacy of the water quality monitoring program

1-2



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-methylnapththalene, 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 (μ g/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 μ g/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 μ g/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).

<u>Chloride</u> – 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).

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

<u>Lead</u> – Lead has an MCL of 15 μ g/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.

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

<u>Sodium</u> – 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).

<u>Sulfate</u> – 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).

<u>TDS</u> – 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.

<u>Vanadium</u> – Vanadium has an MCL of 49 μ g/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.



Water Quality Analytical and Elevation Data Summary

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 reanalyzed, and the resulting mercury concentration was reported as less than the Surface Water Quality standard.



Water Quality Analytical and Elevation Data Summary

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.



<u>Arsenic</u> – 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.

<u>Iron</u> – 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.

 $\overline{\text{TDS}}$ – 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 verses 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 reprsentative. 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.



Environmental Professional Qualifications and 6.0 **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.

Florida P.G. #1733

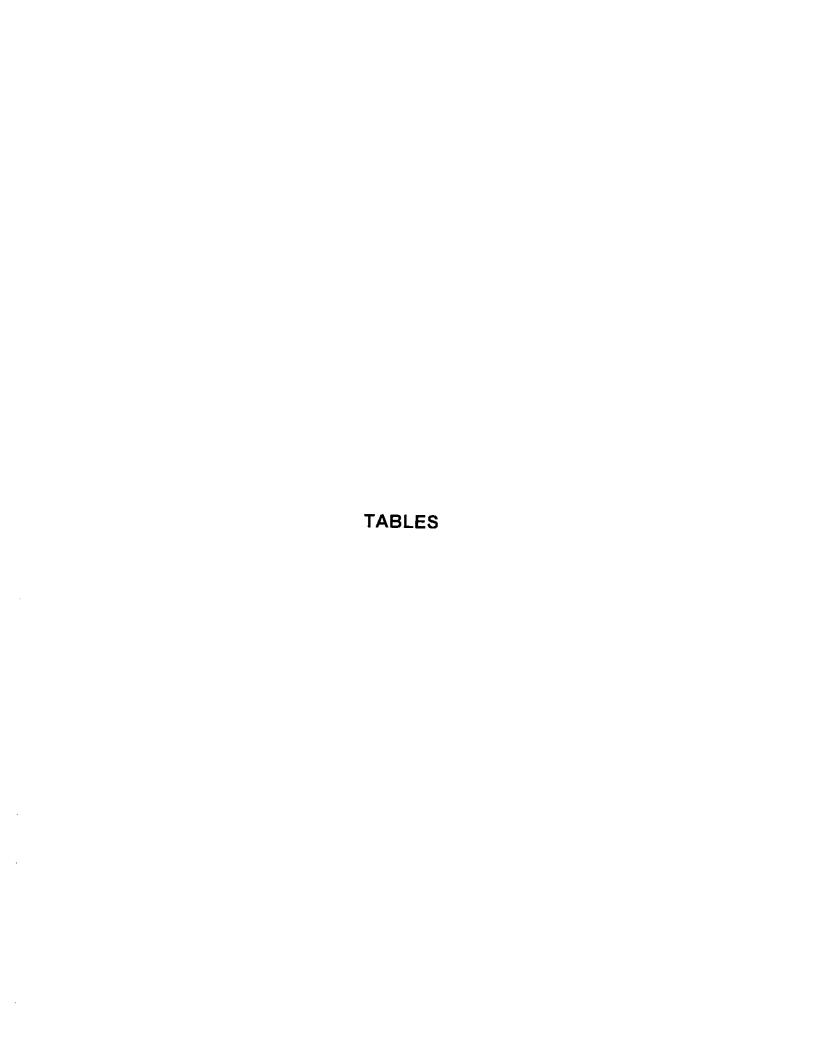


TABLE 1-1 WATER QUALITY MONITORING NETWORK CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

		Leachate Sar	npling Points			
Location (Sampl	e ID)	Land	fill Cell	WACS Testsite Identification Numbe		
C-1		Ce	11 #1	20580		
C-2		Ce	11 #2	20581		
C-3	 - <u>-</u>	Ce	11 #3	20582		
<u>C-4</u>		Ce	11 #4	20583		
C-5		Ce	11 #4	20584		
P2-1		Cells # 1-	-4, Phase II	23037		
G	roundwa	iter Sampling P	oints (Monitori	ing Wells)		
Location/Well Identifier	Aquif	er Monitored	Designation	WACS Testsite ID		
MW-1R		Surficial	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		
<u>MW-18</u>	5	Surficial	Detection	23034		
MW-19	5	Surficial	Detection	23035		
MW-20	S	Surficial	Detection	23036		
MW-3	S	Surficial	Piezometer	4503		
MW-5	S	urficial	Piezometer	4505		
	Sı	urface Water Sa	impling Points			
Identifier		Locatio	n	WACS Testsite Identification Number		
B-2	Olo	l Cowpen Slough	n- Upstream	4519		
B-4R	Old	Cowpen Slough - Downstream		20060		
		Condensate Sar	npling Point			
Identifier	Identifier Loc		n	WACS Testsite Identification Number		
S-4		Condensate Su	mp 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

		Location:	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Pump
Analyte		Date of Test:	05/08/07	05/00/07	25/20/2			
	Standard(1)		05/08/07	05/08/07	05/08/07	05/10/07	05/10/07	05/10/07
Field Measurements				1	 		+	
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/1	1.26	0.15	0.31	0.27	0.69	0.28
Inorganics				<u></u>				
Antimony Arsenic	5000	ug/l	9.5	37	17	3.8	1.6	5.1
Вапит	5000 100,000	ug/l	61	350	390	61	66	130
Beryllium	100,000	ug/l ug/l	130 BDL	97 BDL	88	89	88	87
Bicarbonate alkalinity	- 1	mg/1	2400	5300	BDL 7800	BDL 4200	BDL	BDL
Cadmium	1	ug/l	BDL	BDL	BDL	BDL	1500 BDL	3600
Carbonate Alkalinity	†	mg/l	0.82	BDL	BDL	BDL	0.82	BDL
Calcium	- 1	ug/l	270000	160000	130000	NA	NA NA	NA NA
Chloride	j	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 Mercury	200	ng/l	50000	68000	95000	56000	53000	59000
Nickel	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Nitrate		ug/l mg/l	28 BDL	130 BDL	170	70	21	64
Nitrite	1	mg/l	BDL	BDL	BDL BDL	BDL BDL	BDL	BDL
Nitrate-Nitrilte	1 :	mg/1	BDL	BDL	BDL	BDL	BDL	BDL
Potassium	1	ug/l	170000	620000	1100000	410000	BDL 170000	BDL 430000
Selenium	1000	ug/l	BDL	BDL	BDL	BDL	BDL	430000 BDL
Silver	5000	ug/l	BDL	BDL	3.4	BDL	BDL	BDL
Sodium		ug/l	510000	2000000	2300000	890000	240000	880000
Sulfate	j	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	ļ. ļ	ug/l	BDL	70	79	BDL	BDL	BDL
Total Alkatinity Total Dissolved Solids (TDS)		mg/1	2400	5300	7800	4200	1500	3600
Total Sulfide	+ +	mg/1	2700	6400	10000	4500	1900	4100
Vanadium		mg/l ug/l	2 <u>.3</u> 22	4.4	6.8	4.0	1,1	12
Zinc	-	ug/l	28	150 72	280 100	62	12	76
Pesticides & Herbicides		<u> </u>	20	14	100	24	16	16
2,4-D	10,000	ug/l	BDL	BDL	BDL	BDL	BDL	DDI
2,4,5-T		ug/l	BDL	BDL	BDL	BDL	BDI.	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
3-ВНС		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chlordane	30	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Э.ВНС		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dieldrin Dinoseb		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
endosulfan Sulfate	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Indosulfan-I	+ +	ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL.
Endosulfan-II		ng/l	BDL	BDL	BDL	BDL	BDL	BDL
Endrin	20	ug/l ug/l	BDL	BDL BDL	BDL BDL	BDL	BDL	BDL
indrin Aldehyde	1 ~ 1	ug/l	BDL	BDL	BDL	BDL BDL	BDL	BDL
J-BHC(Lindane)	400	ug/l	BDL	BDL	BDL	BDL	BDL BDL	BDL
leptachlor	130	ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
Jeptachlor Epoxide	130	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1ethoxychlor	10,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
CB-1016		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
CB-1221		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
CB-1232] [.	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
CB-1242		ug/l	BDL	BDL	BDI.	BDL	BDL	BDL

		Location	Leach I	Leach 2	Leach 3	Leach 4	Leach 5	Pump
Analyte	Standard(1)	Date of Test:	05/08/07	05/08/07	05/08/07	05/10/07	05/10/07	05/10/07
PCB-1248		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1254		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1260 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 ug/l	BDL BDL	BDL BDL	BDL	BDL	BDL	BDL
Toxaphene	500	ug/l	BDL	BDL	BDL BDL	BDL BDL	BDL BDL	BDL
Organics, Acid Extractables				DDE	BDIS	BDL	BIJL	BDL
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 2,4-Dimethylphenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrophenol		ug/l	BDL	3.0	BDL	BDL	BDL	BDL
2,6-Dichlorophenol		ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL
2-Chlorophenol	1 1	ug/l	BDL	BDL BDL	BDL BDL	BDL	BDL	BDL
2-Methyphenol	200,000	ug/l	BDL	7.9	16	BDL BDL	BDL BDL	BDL
2-Nitrophenol	1 1	ug/l	BDL	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 Pentachlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Phenol	100,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Base Neutrals		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
,2,4,5-Tetrachlorobenzene	 	ug/l	BDL	BDL	BDI	DDI		
,2,4-Trichlorobenzene	ľ	ug/l	BDL	BDL	BDL BDL	BDL BDL	BDL	BDL
,3,5-Trinitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL BDL	BDL BDL
,3-Dinitrobenzene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
,4-Naphthoquinone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Naphthylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
,4-Dinitrotoluene ,6-Dinitrotoluene	130	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Acetylaminoflourene		ug/t	BDL	BDL	BDL	BDL	BDL	BDL
-Chloronaphthalene	1 1	ug/l ug/l	BDL BDL	BDL BDL	BDL	78	BDL	BDL
-Methylnaphthalene	1	ug/l	BDL	BDL	BDL BDL	BDL	BDL	BDL
-Naphthylamine	1	ug/l	4.2	5.9	BDL	BDL BDL	BDL BDL	BDL
-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	10 BDL
,3-Dichlorobenzidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
,3-Dimethylbenzidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Methylcholanthrene -Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Nuroannne -Aminobiphenyl	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromophenyl-phenylether	1 1	ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL
Chloroaniline		ug/l ug/l	BDL	BDL BDL	BDL	BDL	BDL	BDL
Chlorophenylphenylether		n8\J	BDL	BDL	BDL BDL	BDL BDL	BDL	BDL
Nitronaline		ug/l	BDL	BDL	BDL BDL	BDL	BDL BDL	BDL
Nitro-o-toluidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
12-Dimethylbenz(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
cenaphthene].	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
cenaphthylene cetophenone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
nthracene		ug/l	BDL	1.6	BDL	BDL	BDL	BDL
enzo(a)anthracene		ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL
enzo(a)pyrene		ug/I	BDL	BDL BDL	BDL BDL	BDL	BDL	BDL
enzo(b)flouranthene		ug/l	BDL	BDL	BDL	BDL BDL	BDL	BDL
enzo(g,h,i)perylene	ľ	ug/l	BDL	BDL	BDL	BDL	BDL BDL	BDL BDL
enzo(k)flouranthene	l.	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
nzyl alcohol	ľ	ug/l	BDI.	BDL	BDL	BDL	BDL	BDL
s(2-chloroethoxy)methane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
s(2-chloroethyl)ether s(2-chloro-1-methylethyl)ether	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
s(2-ethylhexyl)phthalate	l	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
tylbenzylphthalate	ľ	ug/l ug/l	1.9 BDL	3.0	BDL	BDL	BDL	BDL
lorobenzilate	1	ug/l	BDL	BDL BDL	BDL	BDL	BDL	BDL
rysene		ng/l	BDL	BDL	BDL BDL	BDL	BDL	BDL
allate	1	ug/l	BDL	BDL	BDL	BDL BDL	BDL BDL	BDL
benz(a,h)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
benzofuran	ľ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
ethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL

A		Location	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Pump
Analyte	Standard(1)	Date of Test Units	05/08/07	05/08/07	05/08/07	05/10/07	05/10/07	05/10/07
Dimethoate	1	ug/I	BDL	BDL	BDL	PDI	ND.	
Dimethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Di-N-butylphthalate	ĺ	ug/l	0.58	BDL	BDL	BDL	BDL	BDL
Di-N-octylphthalate	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Disulfoton	ĺ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylmethanesulfonate	ľ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Famphur]	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Flouranthene		ug/l	BDL	BDL	BDL	BDI.	BDL	BDL
Flourene		ug/l	BDL	BDL	BDL	BDL	BDL BDL	BDL
Hexachlorobenzene	130	ug/l	BDI.	BDL	BDL	BDL	1	BDL
Hexachlorobutadiene	500	ug/l	BDL	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 BDL
Hexylchloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	4
Indeno(1,2,3-cd)pyrene	1	ug/l	BDL	BDL	BDL	BDL	BDL.	BDL
sodrin		ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
sophorone		ug/l	BDL	BDL	BDL	BDL	BDL	1
sosafrole	j j	ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
Керопе].	ug/l	ND	ND	ND	ND	ND	
Methapyrilene		ug/l	BDL	BDL	BDL	BDL	BDL	ND
dethyl parathion		ug/l	BDL	BDL	BDI.	BDL	BDL	BDL BDL
Methylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
laphthalene		ug/l	8.5	4.7	BDL	BDL	BDL	9.0
Vitrobenzene	2,000	ug/I	BDL	BDL	BDL	BDL	BDL	BDL
I-Nitrosodiethylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
I-Nitrosodimethylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
l-Nitrosodi-n-butylamine	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
I-Nitroso-di-n-propylamine	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
l-Nitrosodiphenylamine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Nitrosoethylmethylamine	1. 1.	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Nitrosopiperidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Nitrosopyrrolidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
0,0-Triethylphosphorothioate	1.	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
ntho-toluidine		ug/I	BDL	BDL	BDL	BDL	BDL	BDL
ara-Phenylenediamine	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
thyl Parathion	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dimethlaminoazobenzene	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
entachlorobenzene	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
entachloronitrobenzene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
nenacetin	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
nenanathrene norate	ļ. ļ.	ug/I	BDL	BDL	BDL	BDL	BDL	BDL
onamide	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
тепе	5000	ug/I	BDL	BDL	BDL	BDL	BDL	BDL
frole	5,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
ionazin	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
latile Organics	 	ug/l	BDL_	BDL	BDL	BDL	BDL	BDL
,1,2-Tetrachloroethane	- -							
,1-Trichloroethane	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
,2,2-Tetrachloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
,2-Trichloroethane		ug/l	BDL	BDL	BDL	₿DL	BDL	BDL
-Dibromo-3-chloropropane]	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Dichloroethane	1 1	ug/l	BDL	0.017	BÖT	BDL	BDL	0.023
-Dichloroethene	700	ug/l	BDL	BDL	₿Ďſ	BDL	BDL	BDL
-Dichloropropene	/00	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
,3-Trichloropropane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Dichlorobenzene	1	ug/l	BDL	BDL	BĎL	BDL	BDL	BDL
-Dichloroethane	500	ug/l ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Dichloropropane	, ,00	- 1	BDL	BDL	BDL	BDL	BDL	BDL
-Dichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichloropropane		ug/l ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichlorobenzene	7,500	ug/I ug/I	BDL 12	BDL	BDL	BDL	BDL	BDL
Dichloropropane	,,500	ug/l		BDL	BDL	BDL	BDL	BDL
utanone	200,000	ug/i ug/i	BDL	BDL	BDL	BDL	BDL	BDL
exanone	200,000	ug/l	66 BDI	BDL	50	BDL	47	BDL
lethlyl-2-pentanone	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
tone			BDL	BDL	BDL	BDL	BDL	BDL
tonitrile		ug/l	BDL	29	47	BDL	32	BDL
olein		ug/l	43 BDI	180	240	110	83	130
ylonitrile		ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL
		area 1	DIZE 1	BDL	BDL	BDL	BDL	BDL

i		Location:	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Pump
Analyte	ļ . <u> </u>	Date of Test:	05/00/07	05/00/00			ļ	
1	Standard(1)	Units	05/08/07	05/08/07	05/08/07	05/10/07	05/10/07	05/10/07
Allyl chloride		ug/l	BDL	BDL	BDL	BDL	BDI	
Benzene	500	ug/l	4.6	2.2	4.0	3.7	BDL	BDL
Bromochloromethane	1	ug/l	BDL	BDL	BDL	BDL	17	10
Bromodichloromethane	-	ug/l	BDL	BDL	BDL		BDL	BDL
Bromomethane	1 1	ug/l	BDL	BDL	I	BDL	BDL	BDL
Carbon disulfide	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbon tetrachloride	500	ug/l	BDL	BDL	BDL	BDL	BDL	13
Chlorobenzene	100,000	սջ/!	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	100,000	ug/l	BDL		BDL	BDL	BDL	BDL
Chloromethane	1		BDL	BDL	BDL	BDL	BDL	BDL
Chloroprene	1	ug/l ug/l	BDL	BDI.	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene		- 1		BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	j- j.	ug/l	3.5	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane	+ 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane	j.	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichlorodiflouromethane	ļ.	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichloromethane]	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
	!	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl methacrylate		ug/l	BDL	BDL	BDL	BDĽ	BDL	BDL
Ethylbenzene		ug/l	95	44	48	31	63	55
Ethylene dibromide	ļ.	ug/l	BDL	BDL	BDL	BDL	0.013	0.015
Iodomethane	ļ. į	ug/l	BDL	BDĻ	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	' i	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDI.
Toluene	. 1	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	1	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	ŀ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6,000	ug/f	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl acetate	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl chloride	200	ug/l	BDL	BDL	BDL	BDL	5.5	BDL
1,2 diphenylhydrazine Notes: (1) - Regulatory standard listed in 40 Cl		ug/l	BDL	BDL	RDI	BDI	BDL	BDL

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

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

	ļ	Location:		Leach 2	Leach 3	Leach 4	Leach 5	Pump
Analyte		Date of Test:	11/08/07	11/08/07	11/08/07	11/08/07	11/08/07	11/08/07
	Standard(1)	Units			1			11700707
Field Measurements					 			
Temperature			31.27	31.5	35.6	35.5	26.45	26.45
Turbidity	1	NTU	13.2	50.4	19.3	472	7.01	122
ρΗ	1	STD	6.94	7.38	7.66	7.46	7.04	7.07
Conductivity	1	umhos/cm	5858	16193	22583	16180	4927	9240
Dissolved Öxygen (DO)	•	mg/1	0.58	0.40	0.12	0.11	0.4	0.48
Inorganics	-					0.11	V.T	0.48
Bicarbonate alkalinity		mg/l	2100	3500	8500	5300	1500	3400
Carbonate Alkalinity	1 1	mg/l	BDL	BDL	BDL	BDL	BDL	BDL
Calcium		ug/I	270000	180000	140000	280000	340000	280000
Thloride	1 1	mg/l	510	2000	2600	1900	430	920
ron		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
Vitrate	"""	mg/l	0.11	0.010	0.08	0.39	BDL	0.33
Vitrite		mg/l	0.005	0.092	0.006	0.1	0.011	0.071
Nitrate-Nitrilte	1 1	mg/l	0.11	0.10	0.086	0.49	0.055	0.4
otassium	ľ	ug/l	14000	570000	1000000	660000	240000	350000
odium		ug/l	470000	1600000	2100000	1400000	300000	730000
ulfate]]	mg/l	16	BDL	BDL	BDL	120	BDL
otal Ammonia - N	1. 1	mg/l	280	1000	1700	1000	150	530
otal Alkalinity		mg/l	2100	5500	8500	5300	1500	3400
otal 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 = nepholometric turbidity units.

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

Analyte		Location: Date of Test:		Leach 2	Leach 3	Leach 4	Leach 5	Pump
	1			03/27/08	03/27/08			
	Standard(1)	Units	03/27/08		3723700	03/2//08	03/27/08	03/27/08
Field Measurements								
Temperature			30.08	35.4	39.26	37.05		
Furbidity		עדע	487	17.5	15.3	37.95	33.2	22.6
Н	ľ	STD	7	7.37	7.59	NA 7.48	379	19.8
Conductivity	ļ	umhos/cm	8134	19209	24779	7.48	6.9	6.96
Dissolved Oxygen (DO)		mg/l	3.55	0.13	1.16	20245	9392	15660
norganics						0.94	3.01	1.01
Sicarbonate alkalinity	<u> </u>	mg/l	3000	6700	0200			
arbonate Alkalinity	1	mg/l	BDL	1 8700 BDL	9200	7300	3400	5700
Calcium		ug/l	270000		BDL	BDL	BDL	BDL
hloride		mg/l	850	150000 2300	110000	160000	290000	210000
on		ug/l	2000		2900	2300	910	1700
fagnesium		ug/l	57000	2000	3100	2300	17000	1200
fercury	200	ug/l	0.023	67000	80000	65000	68000	68000
litrate	[200	mg/l	0.023	0.049	0.05	0.039	0.034	0.041
litrite		mg/l	0.022 BDL	0.120	0.26	0.22	0.013	0.031
itrate-Nitrilte	1		0.022	BDL	BDL	BDL	BDL	0.031
otassium		mg/l	240000	0.12	0.26	0.22	0.013	0.062
odium		ug/l		630000	960000	800000	430000	630000
ulfate			650000	1800000	2000000	1800000	660000	1400000
otal Ammonia - N	1 }	mg/l	BDL 390	5,3	BDL	BDL	9.6	BDL
otal Alkalinity	[[mg/l	3000	1100	1600	1300	440	920
otal Dissolved Solids (TDS)	[]	mg/l	3200	6700	9200	7300	3400	5700
	O CFR Part 261 24 sha	rug/1	3200	7500	9600	7500	3900	6100

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

		Location:	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
Analyte		Date of Test:	07/21/08	07/21/08	07/22/08	07/22/08	07/22/08
	Standard(1)	Units	07/21/08	07/21/08	07722708	07/22/08	07/22/08
Field Measurements	<u> </u>			1	+	 	 -
Temperature			32.46	36.89	38.58	38.01	34.6
Turbidity	1		42.5	32.4	16	15.9	6
рН		STD	6.88	7.25	7.54	7.42	6.61
Conductivity	Î l	umhos/cm	2665	7970	19330	15406	3658
Dissolved Oxygen (DO)		mg/1	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/I	1500	4700	8500	6800	1300
Cadmium		ug/l	BDL	BDL	BDL	BDL	BDL
Carbonate Alkalinity	· .	mg/1	BDL	BDL	BDL	BDL	BDL
Calcium Chloride	, ,	ug/l	270000	170000	120000	160000	370000
Unioriae Chromium		mg/1	340	1600	2500	2100	410
Cobalt	5000	ug/l	15	380	460	500	20
Copper	<u> </u> -	ug/l	BDL	29	52	53	BDL
Cyanide	!	ug/l	18	11	20	7.3	6.6
ron	}	mg/l	0.003 900	0.018	0.035	0.035	BDL
ead	5000	ug/l	900 BDL	1300	2300	2000	790
Magnesium	2000	ug/l ug/l	38000	BDL 52000	BDL	BDL	BDL
Mercury	200	ug/I	BDL	BDL	81000	64000	61000
√ickel	200	ug/I	26	87	0.037	0.037	BDL
Vitrate	*	mg/1	0.005	BDL	150 0.096	170 0.12	18
Vitrite		mg/1	0.003	BDL	0.039	0.12	BDL BDL
Vitrate-Nitrilte	·	mg/l	0.082	0.08	0.032	0.19	0.005
otassium		ug/l	110000	460000	1000000	820000	260000
elenium	1000	ug/l	BDL	10	8.1	8.1	200000 BDL
ilver	5000	ug/l	BDL	3.2	4.2	3.1	BDL
odium		ug/I	290000	1200000	2000000	1900000	250000
ulfate	Ţ	mg/1	150	160	BDL	20	370
otal Ammonia - N	•	mg/l	210	1000	1700	1500	140
hallium	. [.	ug/l	BDL	BDL	BDL	BDL	BDL
in as SN		ug/l	BDL	25	65	85	BDL
otal Alkalinity	}	mg/1	1500	4700	8500	6800	1300
otal Dissolved Solids (TDS)		mg/1	2000	5800	8400	8000	2500
otal Sulfide		mg/1	1.8	7.8	15	12.0	6.7
anadium		ug/I	16	100	220	120	15
inc		ug/l	43	62	100	110	17
esticides & Herbicides	40.000		<u></u> .				
,4-D	10,000	ug/l	BDL	BDL	BDL	BDL	BDL
4,5-T	200.000	ug/l	BDL	BDL	BDL	0.24	BDL
& 4 methylphenol -BHC	200,000	ug/l	BDL	5.0	15	BDL	BDL
-Bric ldrin		ug/l	BDL	BDL	BDL	BDL	BDL
-BHC	ŀ	ug/l	BDL	BDL	BDL	BDL	BDL
hlordane	30	ug/i	BDL	BDL	BDL	BDL	BDL
-BHC	30	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL
ieldrin	}	ug/I	BDL	BDL BDL	BDL	BDL	BDL
inoseb	1	ug/l	BDL	BDL	BDL	BDL	BDL
ndosulfan Sulfate	1	ug/l	BDL	BDL	BDL	BDL	BDL
ndosulfan-I	f	ug/l	BDL	BDL	BDL BDL	BDL	BDL
ndosulfan-II	1	ug/l	BDL	BDL	BDL	BDL	BDL
ndrin	20	ug/l	BDL	BDL	BDL	BDL	BDL
		-0				BDL	BDL
ndrin Aldehyde	ľ	ug/l	BDL	BDL	BDL	BDL	BDL

		Location	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
Analyte		Date of Test	07/21/08	07/21/08	07/22/08	07/22/08	07/22/08
	Standard(1)	Units					07722700
Heptachlor	130	ug/l	BDL	BDL	BDL	BDL	BDL
Heptachlor Epoxide Methoxychlor	130	ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1016	10,000	ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1221	ŀ	ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1232		ug/l	BDL BDL	BDL	BDL	BDL	BDL
PCB-1242	•	ug/l ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1248		ug/l	BDL	BDL BDL	BDL	BDL	BDL
PCB-1254	1	ug/l	BDL	BDL	BDL	BDL	BDL
PCB-1260	1	ug/l	BDL	BDL	BDL BDL	BDL	BDL
PP-DDD	1	ug/l	BDL	BDL	BDL	BDL BDL	BDL
PP-DDE	1	ug/l	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
Toxaphene	500	ug/l	BDL	BDL	BDL	BDL	BDL
Organics, Acid Extractables				1	7 222	BDL	BDL
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	ļ.	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-Methyphenol 2-Nitrophenol	200,000	ug/l	BDL	7.1	7.8	6.3	BDL
4,6-Dinitro-2-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL
4-Chloro-3-methylphenol	ļ.	ug/l	BDL	BDL	BDL	BDL	BDL
4-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	100,000	ug/l	BDL	BDL	BDL	BDF	BDL
Phenol	100,000	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL
Base Neutrals		ug/i	BDL	BDL	BDL	BDL	BDL
1,2,4,5-Tetrachlorobenzene	-	ug/l	BDL	BDL	BDL	BDI	DD!
1,2,4-Trichlorobenzene	-	ug/l	BDL	BDL	BDL	BDL BDL	BDL
1,3,5-Trinitrobenzene	1	ug/l	BDL	BDL	BDL	BDL	BDL
1,3-Dinitrobenzene	ľ	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-Acetylaminoflourene		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 2-Nitroaniline		ug/l	2.9	5.4	1.4	2.7	10
3,3-Dichlorobenzidine		ug/l	BDL	BDL	BDL	BDL	BDL
3,3-Dimethylbenzidine	[·	ug/l	BDL	BDL	BDL	BDL	BDL
3-Methylcholanthrene	ŀ	ug/l	BDL	BDL	BDL	BDL	BDL
3-Nitroaniline		ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL
4-Aminobiphenyl		ug/l	BDL	BDL	BDL	BDL	BDL
4-Bromophenyl-phenylether		ug/l	BDL	BDL BDL	BDL	BDL	BDL
4-Chloroaniline	ŀ	ug/l	BDL	BDL	BDL	BDL	BDL
4-Chlorophenylphenylether		ug/l	BDL	BDL	BDL BDL	BDL	BDL
1-Nitronaline	ļ.	ug/l	BDL	BDL	BDL	BDL	BDL
5-Nitro-o-toluidine	1	ug/l	BDL	BDL	BDF BDF	BDL BDL	BDL
7,12-Dimethylbenz(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL BDL
Acenaphthene	- 1	ug/l	BDL	BDL	BDL	BDL	BDL
Acenaphthylene	1	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 Benzo(b)flouranthene	1	ug/l	BDL	BDL	BDL	BDL	BDL
		ug/l	BDL	BDL	BDL	BDL	

		Location	: Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
Analyte	Ct. 1. W	Date of Test	: 07/21/08	07/21/08	07/22/08	07/22/08	07/22/08
Benzo(g,h,i)perylene	Standard(201				
Benzo(k)flouranthene	1	ug/l	BDL	BDL	BDL	BDL	BDL
Benzyl alcohol		ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethoxy)methane	1	ug/l	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethyl)ether	1	ug/l	BDL	BDL BDL	BDL BDL	BDL	BDL
Bis(2-chloro-1-methylethyl)ether		ug/l	BDL	BDL	BDL	BDL BDL	BDL
Bis(2-ethylhexyl)phthalate	1	ug/l	13	5.1	4.4		BDL
Butylbenzylphthalate	İ	ug/l	BDL	BDL	BDL	13 BDL	1.1 BDL
Chlorobenzilate	1	ug/l	BDL	BDL	BDL	BDL	BDL
Chrysene	ľ	ug/l	BDL	BDL	BDL	BDL	BDL
Diallate]	ug/l	BDL	BDL	BDL	BDL	BDL
Dibenz(a,h)anthracene	j	ug/I	BDL	BDL	BDL	BDL	BDL
Dibenzofuran		ug/l	BDL	BDL	BDL	BDL	BDL
Diethylphthalate	1.	ug/l	1.4	1.1	BDL	0.51	0.52
Dimethoate		ug/l	BDL	BDL	BDL	BDL	BDL
Dimethylphthalate	1	ug/l	BDL	BDL	BDL	BDL	BDL
Di-N-butylphthalate	1	ug/I	0.58	BDL	BDL	BDL	BDL
Di-N-octylphthalate	1	ug/l	BDL	BDL	BDL	BDL	BDL
Disulfoton	ļ.	ug/i	BDL	BDL	BDL	BDL	BDL
Ethylmethanesulfonate	1	ug/l	BDL	BDL	BDL	BDL	BDL
Famphur Flouranthene		ug/l	BDL	BDL	BDL	BDL	BDL
Flourene		ug/l	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	120	ug/l	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	130 500	ug/l	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene	300	ug/l	BDL	BDL	BDL	BDL	BDL
Hexachloroethane	3,000	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL
Hexylchloropropene	3,000	ug/l	BDL	BDL BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene	ł	ug/I	BDL	BDL	BDL BDL	BDL BDL	BDL
Isodrin	1	ug/l	BDL	BDL	BDL	BDL	BDL
Isophorone	l [*]	ug/I	BDL	BDL	BDL	BDL	BDL
Isosafrole		ug/l	BDL	BDL	BDL	BDL	BDL BDL
Kepone		ug/l	ND	ND	ND	ND	ND
Methapyrilene	ĺ	ug/l	BDL	BDL	BDL	BDL	BDL
Methyl parathion	<u> </u>	ug/l	BDL	BDL	BDL	BDL	BDL
Methylmethanesulfonate	1	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/J	BDL	BDL	BDL	BDL	BDL
N-Nitrosodimethylamine		ug/l	BDL	BDL	BDL	BDL	BDL
N-Nitrosodi-n-butylamine 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	BDL
N-Nitrosopyrrolidine		ng/l	BDL	BDL BDL	BDL	BDL	BDL
0,0,0-Triethylphosphorothioate		ug/l	BDL	BDL	BDL	BDL	BDL
Ortho-toluidine		ug/l	11	24	BDL 26	BDL	BDL
Para-Phenylenediamine		ug/l	BDL	BDL	BDL	BDL	1.3
Ethyl Parathion		ug/l	BDL	BDL	BDL	BDL	BDL
P-Dimethlaminoazobenzene		ug/l	BDL	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 THEMOTOCUIANE]	ug/l	BDL	BDL	BDL	BDL	BDL

		Location	1: Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
Analyte		Date of Tes	t: 07/21/08	07/21/08	07/22/08	07/22/08	07/22/08
	Standard(01/21/00	07721700	0//22/08	01122108	07/22/08
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	İ	ug/l	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene 1,2-Dichloroethane	500	ug/I	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	500	ug/l	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	1	ug/l	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropane	1	ug/l	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	7,500	ug/l	BDL BDL	BDL	BDL	BDL	BDL
2,2-Dichloropropane	7,500	ug/l ug/l	BDL	5.9 BDL	3.8	3.7	1.3
2-Butanone	200,000	ug/l	BDL	BDL	BDL BDL	BDL	BDL
2-Hexanone	200,000	ug/l	BDL	BDL	BDL	BDL	BDL
4-Methlyl-2-pentanone	ļ	ug/l	BDL	BDL	BDL	BDL	BDL
Acetone		ug/l	BDL	BDL	BDL	BDL BDL	BDL
Acetonitrile		ug/l	BDL	BDL	230	BDL	62 BDL
Acrolein	•	ug/l	BDL	BDL	BDL	BDL	BDL
Acrylonitrile	1	ug/l	BDL	BDL	BDL	BDL	BDL
Allyl chloride	ľ	ug/J	BDL	BDL	BDL	BDL	BDL
Benzene	500	ug/l	BDL	BDL	BDL	BDL	10
Bromochloromethane	1	ug/l	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Bromomethane	1	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/I	BDL	BDL	BDL	BDL	BDL
Chloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
Chloromethane		ug/l	BDL	BDL	BDL	BDL	BDL
Chloroprene cis-1,2-Dichloroethene		ug/l	BDL	BDL	BDL	BDL	BDL
cis-1,3-Dichloropropene	}	ug/l	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane		ug/I	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l ug/l	BDL	BDL BDL	BDL	BDL	BDL
Dichlorodiflouromethane	•	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	61	48	39	34	59
Ethylene dibromide		ug/l	BDL	BDL	BDL	BDL	BDL
Iodomethane		ug/I	BDL	BDL	BDL	BDL	BDL
Isobutyl Alcohol	J	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/i	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 Trichloroethene	5 00	ug/l	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	500	ug/l	BDL	BDL	BDL	BDL	BDL
Trichloromethane	6.000	ug/l	BDL	BDL	BDL	BDL	BDL
Vinyl acetate	6,000	ug/l	BDL	BDL	BDL	BDL	BDL
Vinyl acetate Vinyl chloride	200	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL
,2 diphenylhydrazine	200	ug/l	BDL	BDL BDL	BDL BDL	BDL	BDL
Notes: (1) - Regulatory standard listed in 40 C	TR D . 267.24 4	м <i>Б</i> / -	טטט	DUL	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.

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

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

		Location:	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
Analyte		Date of Test:	05/13/09	05/13/09	05/13/09	05/13/09	05/13/09
	Standard(1)	Units	-		1	35.15703	03/13/09
Field Measurements		 		 	 		<u></u>
Temperature		 -	31.62	37.25	40.72	30.76	ļ
Turbidity		NTU	18.8	24.9	40.72 17.1	38.76	33.49
рН	1	STD	7	7.26	7.42	20.7	27
Conductivity		umhos/cm	11276	20060	27171	7.32 23420	6.9
Dissolved Oxygen (DO)		mg/l	2.8	2.60	1.28	1.48	10753
Inorganics				2.00	1.20	1.48	2.01
Bicarbonate alkalinity		mg/l	7900	1300	10000	8600	7000
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL	6900 BDL
Calcium		ug/l	220000	130000	85000	110000	290000
Chloride	}	mg/l	1300	2600	3400	2900	1200
Iron	1 1	ug/l	350Ö	2300	3600	2700	6100
Magnesium	i. I	ug/I	64000	64000	76000	65000	73000
Mercury Nitrate	200	ug/l	BDL	BDL	0.022	0.028	BDL
Nitrate Vitrite		mg/I	0.023	0.210	0.22	0.320	0.12
Nitrate-Nitrilie	1 1	mg/l	0.013	0.04	0.2	0.094	0.047
Sotassium	1 1	mg/l	0.036	0.25	0.42	0.39	Ö.16
Sodium	1 !	ug/l	440000	830000	1300000	1100000	580000
Sulfate		ug/l	1100000	2100000	2600000	2400000	860000
otal Ammonia - N	1	mg/I	BDL	BDL	BDL	BDI.	BDĽ.
otal Alkalinity	1	mg/l	680	1400	2100	1800	610
otal Dissolved Solids (TDS)		mg/l	7900	1300	10000	8600	6900
lotes: (1) - Regulatory standard listed in 40		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 = nepholometric turbidity units.

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

		Location	Leach I	Leach 2	Leach 3	Leach 4	Leach 5
Analyte							
	Standard(1)	Date of Test	10/27/09	10/27/09	10/27/09	10/27/09	10/27/09
Field Measurements	Standard(1	units					
Temperature			31.29	31.85	40.46	2,00	
Turbidity	1	1	6.01	36.1	40.46 0.6	36.89	35.23
pН		STD	7.75	7.56	7.82	35.2 7.59	12.8
Conductivity		umhos/cm	9556	16296	20407	18787	7.06 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	1	nig/]	37300	57300	71300	6830	29700
Cadmium		ug/l	BDL	BDL	BDL	BDL	BDL
Carbonate Alkalinity		mg/I	BDL	BDL	BDL	BDL	BDL
Calcium		ug/l	223000	148000	145000	138000	267000
Chloride Chromium	đạng:	mg/1	962	1810	1600	1800	828
Cnromium Cobalt	5000	ug/l	52.8	563	285	585	80.9
Copper		ug/l	42.7	48.8	57.6	69.4	33.8
Cyanide		ug/l	6.6	5.9	15.8	17. I	45.6
Iron		mg/l	0.0082	0.039	0.032	0.053	BDL
Lead	5000	ug/l	2670	1920	1590	2530	1330
Magnesium	3000	ug/l	BDL 63000	BDL	BDL	BDL	BDL
Mercury	200	ug/l ug/l	BDL	62200 BDL	75600	59800	78600
Nickel	200	ug/l	71.4	124	BDL 123	BDL	BDL
Vitrate	İ	mg/l	0.021	0.207	0.17	178 0.284	43
Nitrite		mg/I	0.015	BDL	0.049	0.284	0.034 0.008
Nitrate-Nitrilte		mg/l	0.036	0.207	0.219	0.036	0.008
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	İ	ug/l	926000	1880000	1630000	1870000	589000
Sulfate		mg/1	BDL	BDL	BDL	BDL	BDL
Total Ammonia - N		mg/l	570	1080	1091	649	413
Thallium		ug/J	BDL	BDL	BDL.	BDL	BDL
in as SN		ug/l	BDL	69	40.5	133	BDL
Total Alkalinity	ŀ	mg/I	37300	57300	71300	6830	29700
otal Dissolved Solids (TDS) otal Sulfide		mg/l	4710	8020	7990	8720	3940
/anadium		mg/l	BDL	16.8	BDL	12.8	6.0
Cinc		ug/l	39.2	150	138	125	41
Pesticides & Herbicides		ug/l	13.1	84.1	76	140	67.5
,4-D	10,000	ug/l	BDL	BDL	DDI.		
.4,5-T	10,000	ug/l	BDL	BDL	BDL BDL	BDL	BDL
& 4 methylphenol	200,000	ug/l	2.2	16.3	15.3	BDL	BDL
BHC	, , <u>, , , , , , , , , , , , , , , , , </u>	ug/l	BDL	BDL	BDL	16.8 BDL	BDL
.ldrin]	ug/l	BDL	BDL	BDL	BDL	BDL BDL
-BHC	ľ	ug/l	BDL	BDL	BDL	BDL	BDL
hlordane	30	ug/l	BDL	BDL	BDL	BDL	BDL
-BHC	ļ	ug/l	BDL	BDL	BDL	BDL	BDL
rieldrin		ug/l	BDL	BDL	BDL	BDL	BDL
inoseb		ug/l	BDL	BDL	BDL	BDL	BDI.
ndosulfan Sulfate		ug/l	BDL	BDL	BDL	BDL	BDL
ndosulfan-I		ug/l	BDL	BDL	BDL	BDL	BDL
ndosulfan-II		ug/l	BDL	BDL	BDL	BDL	BDL
ndrín	20	ug/l	BDL	BDL	BDL	BDL	BDL
ndrin Aldehyde		ug/l	BDL	BDL	BDL.	BDL	BDL
-BHC(Lindane)	400	ug/l	BDL	BDL	BDL	BDI.	BDL
eptachlor	130	ug/l	BDL [BDL	BDL	BDL	BDL

Date of Test 1002/200 1002/209 1002/209 1002/209	ach 4 Leach 5	Leach 4	Leach 3	Leach 2	Leach I	Location		
Date of Tests 10/27/09 10/2	ACII H LEACII 3	E CALLIA						Analyte
Helpitch Epoxide 130	27/09 10/27/09	10/27/09	10/27/09	10/27/09	10/27/09		612 6 302	
Methoxychlor 10,000 ug/l BDL								Hentachlor Enovide
PCB-1016		1		I				•
PCB-1221	1	I	l l			1 "	10,000	
PCB-1242		j ,	•	1	1			
PCB-1248		1	1	ł .	ļ.		1	
PCB-1248	1	I			1	_	İ	PCB-1242
PCB-1246			1			-	İ	
PQ-120D		1		ŀ				1
PP-DDE		1	,		BDL	1		
PP-DDT		1	BDL	BDL	BDL			
Silvex		1	BDL	BDL	BDL			P.
Documents Docu	DL BDL	BDL	BDL	BDL				
Description Description	DL BDL	BDL	BDL			_		
2.46-Trichlorophenol 2.000 ug/l BDL BD	DL BDL	BDL	BDL	BDL	BDL	ug/l	1 500	
2.3.4.6-Tetrachlorophenol					201	/1	2,000	
2.4.5-Trichlorophenol		1	ľ		I		2.000	
2.4-Dichlorophenol ug/l BDL BDL BDL BDL BDL			1		1	-	400,000	2,4,5-Trichlorophenol
2,4-Dimitrophenol ug/l BDL B		1					100,000	
2,4-Dinitrophenol ug/l BDL B	_ -22	_						2.4-Dimethylphenol
2.6-Dichlorophenol ug/l BDL BDL BDL BDL BDL			1		i		!	
2-Chlorophenol 2-Methylphenol 2-Me		l .				-		
2-Methylphenol 200,000 ug/l BDL 17.8 18.1 18.7		1		,	BDL	ug/I		
2-Nitrophenol	1			17.8	BDL		200,000	
4-Chloro-3-methylphenol			BDL.	BDL	BDL	ug/l	!	
4-Nitrophenol 100,000 ug/l BDL B		BDL	BDL			-		4-Chloro 2 methylphonol
Pentachlorophenol 100,000 ug/l BDL	L BDL	BDL				-		
Phenol ug/l BDL							100,000	
Base Neutrals	i i			1		- 1	100,000	, .
1.2.4-Trichtorobenzene	BDL BDL	0.78	BDL,	BDL	BUL			Base Neutrals
1.2.4-Trichlorobenzene ug/l BDL BD		PDI	BDI	BDI	BDI.	ug/l		
1.3.5-Trinitrobenzene ug/l BDL			i i	4	The state of the s			
1.3-Dinitrobenzene 1-Methylnaphthalene 1.4-Naphthoquinone 1.4-Naphthylamine 1.5-Dinitrotoluene 1.6-Dinitrotoluene 1.7-Dinitrotoluene 1.8-Dinitrotoluene 22 1		1	BDL	BDL	ug/l	ľ		
1,4-Naphthoquinone 1-Naphthylamine 2,4-Dinitrotoluene 2,6-Dinitrotoluene 2-Acetylaminoflourene 2-Acetylaminoflourene 2-Chloronaphthalene 2-Chloronaphthalene 2-Methylnaphthalene 2-Naphthylamine 2-Nitroaniline 3,3-Dichlorobenzidine 3,3-Dimethylbenzidine 3,3-Dimethylbenzidine 3-Methylcholanthrene ug/l BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL			BDL	BDL	BDL	ug/l	1	
1-Naphthylamine 2.4-Dinitrotoluene 2.6-Dinitrotoluene 2-Acetylaminoflourene 2-Acetylaminoflourene 2-Chloronaphthalene 2-Methylnaphthalene 2-Naphthylamine 2-Nitroaniline 3,3-Dichlorobenzidine 3,3-Dimethylbenzidine 3-Methylcholanthrene 130 ug/l BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL		BDL	BDL	1.3				
2.4-Dinitrotoluene 130 ug/l 1.0 BDL		BDL	BDL		i i		ĺ	· · ·
2.6-Dinitrotoluene ug/l 8.1 BDL 8.9 1.7 1.4 1.1 1.5 1.5 1.5 1.5 1.4 1.1 1.5 1.5 1.5 1.5 1.4 1.1 1.5	- BDL	BDL					120	· · ·
2-Acetylaminoflourene ug/l BDL 8.9 8.9 1.7 1.4 1.1 1.5 1.5 1.5 1.5 BDL						-	120	
2-Chloronaphthalene ug/l BDL BDL BDL 8.9 2-Methylnaphthalene ug/l 1.7 1.4 1.1 1.5 2-Naphthylamine ug/l BDL BDL BDL BDL 2-Nitroaniline ug/l BDL BDL BDL BDL 3,3-Dichlorobenzidine ug/l 5.8 37.2 BDL BDL BDL 3,3-Dimethylbenzidine ug/l BDL BDL BDL BDL BDL 3-Methylcholanthrene ug/l BDL BDL BDL BDL BDL	1	- 1		4				
2-Methylnaphthalene ug/l 1.7 1.4 1.1 1.5 2-Naphthylamine ug/l BDL BDL BDL BDL 2-Nitroaniline ug/l BDL BDL BDL BDL 3,3-Dichlorobenzidine ug/l 5.8 37.2 BDL BDL BDL 3,3-Dimethylbenzidine ug/l BDL BDL BDL BDL 3-Methylcholanthrene ug/l BDL BDL BDL BDL						_		
2-Naphthylamine ug/l BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL		1					2-Methylnaphthalene
2-Nitroaniline 3,3-Dichlorobenzidine 3,3-Dimethylbenzidine 4,27 BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL	1			I .	1	1	
3,3-Dichlorobenzidine ug/t 5.8 37.2 BDL 65.5 ug/l BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL			I .	,	1		1	
3,3-Dimethylbenzidine ug/l BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	i i			1			[
3-Methylcholanthrene ug/l BDL BDL BDL BDL BDL				BDL	BDL		ľ	-
1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		BDL	BDL	BDL	BDL	ug/l		
ug/ BDL BDL BDL BDL			BDL	BDL				= 1
1-Bromonhenyl-phenylether ug/l BDL BDL BDL BDL BDL	BDL	BDL	I .					
4-Chloroaniline	BDL	BDL	I			1		
4-Chlorophenylphenylether	BDL						Ī	
-Nitronaline BDL BDL BDL BDL BDL	BDL		I					
5-Nitro-o-toluidine BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL					- 1		1
7.12-Dimethylbenz(a)anthracene	BDL						İ	
Acenaphthene BDL BDL BDL	BDL				i i			
Acenaphthylene ug/l BDL BDL BDL BDL BDL	BDL		1		I			
Acetophenone ug/l 3.6 47 31 3.0	BDL					- 1		
Anthracene ug/l BDL 1.6 0.75 0.66	I.4 BDL		T T			1		1
denzo(a)anthracene ug/l BDL BDL BDL BDL BDL	BDL	l l			1	,		· · · · · · · · · · · · · · · · · · ·
Benzo(a)pyrene ug/l BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL	I .		BDL	1	 		
senzo(b)flouranthene	BDL			BDL	BDL	ug/l		benzo(b)Houranthene

	<u> </u>	Locatio	n: Leach I	Leach 2	Leach 3	Leach	Leach 5
Avalyte							
	Standard(Date of Te 1) Units	st: 10/27/09	10/27/09	10/27/09	10/27/0	10/27/09
Benzo(g,h,i)perylene	Sinzidar of	ug/l	PD1	DD!			
Benzo(k)flouranthene	1	ug/l	BDL BDL	BDL	BDL	BDL	BDL
Benzyl alcohol		ug/l	2.8	BDL 3.8	BDL 6,0	BDL	BDL
Bis(2-chloroethoxy)methane		ug/l	BDL	BDL	BDL	4.0	BDL
Bis(2-chloroethyl)ether	j	ug/l	BDL	BDL	BDL	20.9 BDL	BDL
Bis(2-chloro-1-methylethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL BDL
Bis(2-ethylhexyl)phthalate		ug/l	1.9	4,2	36.7	15.6	1.9
Butylbenzylphthalate		ug/1	BDL	BDL	BDL	BDL	BDL
Chlorobenzilate		ug/l	BDL	BDL	BDL	BDL	BDL
Chrysene Diallate	ļ	ug/l	BDL	BDL	BDL	BDL	BDL
Dibenz(a,h)anthracene	ŀ	ug/l	BDL	BDL	BDL	BDL	BDL
Dibenzofuran		ug/l	BDL	BDL	BDL	BDL	BDL
Diethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL
Dimethoate		ug/l	4.2	2.6	3.2	3.4	BDL
Dimethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL
Di-N-butylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL
Di-N-octylphthalate	f	ug/l	7.6	5.9	BDL	8.1	1.4
Disulfoton		ug/l	BDL	BDL	BDL	BDL	BDL
Ethylmethanesulfonate		ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL
Famphur		ug/I	BDL	BDL	BDL	BDI.	BDL
Flouranthene		ug/l	BDL	BDL	BDL	BDL	BDL
Flourene	1	ug/l	BDL	BDL BDL	BDL	BDL	BDL
Hexachlorobenzene	130	ug/i	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	500	ug/1	BDL	BDL	BDL BDL	BDL	BDL
Hexachlorocyclopentadiene		ug/l	BDL	BDL	BDL	BDL	BDL
Hexachloroethane	3,000	ug/l	BDL	BDL	BDL	BDL BDL	BDL
łexylchloropropene	į	ug/l	BDL	BDL	BDL	BDL	BDL
ndeno(1.2,3-cd)pyrene		ug/l	0.44	BDL	BDL	BDL	BDL BDL
sodrin		ug/i	BDL	BDL	BDL	BDL	BDL
sophorone		ug/l	BDL	BDL	BDL	BDL	BDL
sosafrole		ug/l	BDL	BDL.	BDL	BDL	BDL
Kepone Anthony II	•	ug/l	ND	ND	ND	ND	ND
Aethapyrilene Aethyl parathion	1	ug/l	BDL	BDL	BDL	BDL	BDL
dethylmethanesulfonate	ļ	ug/l	BDL	BDL	BDL	BDL	BDL
laphthalene	1	ug/l	BDL	BDL	BDL	BDL	BDL
litrobenzene	2 000	ug/l	15.2	17.6	20.9	12.9	5.1
-Nitrosodiethylamine	2,000	ug/l	BDL	BDL	BDL	BDL	BDL
-Nitrosodimethylamine		ug/l	BDL	BDL	BDL	BDL	BDL
-Nitrosodi-n-butylamine	1	ug/l	BDL	BDL	BDL	BDL	BDL
-Nitroso-di-n-propylamine]	ug/l	BDL	BDL	BDL	BDL	BDL
-Nitrosodiphenylamine	[ug/l ug/l	BDL	25.1	24	10.5	BDL
-Nitrosoethylmethylamine		ug/i ug/l	BDL BDL	BDL	BDL	BDL	BDL
-Nitrosopiperidine		ug/l	BDL	BDL	BDL	BDL	BDL
-Nitrosopyrrolidine		ug/l	BDL	BDL BDL	BDL	BDL	BDL
0.0-Triethylphosphorothioate		ug/l	BDL	BDL.	BDL	BDL	BDL
rtho-toluidine		ug/l	BDL	BDL	BDL	BDL	BDL
ra-Phenylenediamine	1	ug/l	BDL	BDL	BDL	BDL	BDL
hyl Parathion		ug/l	BDL	BDL	BDL BDL	BDL	BDL
Dimethlaminoazobenzene		ug/l	BDL	BDI.	BDL	BDL	BDL
ntachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL
ntachloronitrobenzene		ug/l	BDL	BDL	BDL	BDL BDL	BDL
enacetin	Ī	ug/l	BDL	0.7	BDL	BDL	BDL
enanathrene	1	ug/l	BDL	0.88	BDL	BDL	BDL
orate	ł	ug/l	BDL.	BDL	BDL	BDL BDL	BDL BDL
onamide	[ug/l	BDL	BDL	BDL	BDL	BDL
rene	5.000	ug/l	BDL	BDL	BDL	BDL	BDL
frole		ug/l	BDL	BDL	BDL	BDL	BDL
ionazin		ug/l	BDL	BDL	BDL	BDL	BDL
latile Organics							
.1,2-Tetrachloroethane .1-Trichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
. i i romorocinane	1	ug/l	BDL	BDI.	BDL	BDL	BDL

		Location	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
Analyte							
		Date of Test	10/27/09	10/27/09	10/27/09	10/27/09	10/27/09
	Standard(1						
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL
1 ' '	1	ug/l	BDL	BDL	BDL	BD1.	BDL
1,2-Dibromo-3-chloropropane 1,1-Dichlorocthane		ug/l	BDL	BDL	BDL	BDL	BDL
1.1-Dichloroethene	700	ug/l ug/l	BDL BDL	BDL BDL	BDL BDL	BDL	BDL
1,1-Dichloropropene	700	ug/l	BDL	BDL	BDL	BDL BDL	BDL BDL
1,2,3-Trichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	i	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	18.9	9.6	11,4	9	4.6
2,2-Dichloropropane 2-Butanone	300.000	ug/l	BDL	BDL	BDL	BDL	BDL
2-Hexanone	200,000	ug/l	BDL BDL	BDL BDL	BDL	BDL.	BDL
4-Methlyl-2-pentanone		ug/l ug/l	BDL	BDL BDL	BDL BDL	BDL	BDL
Acetone	1	ug/l	BDL	BDL	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	ľ	ug/l	BDL	BDL	BDL	BDL	BDL
Benzene	500	ug/l	BDL	BDL	BDL	BDL	BDL
Bromochloromethane Bromodichloromethane	ĺ	ug/l	BDL	BDL	BDL	BDL	BDL
Bromomethane		ug/l	BDL	BDL	BDL	BDL	BDL
Carbon disulfide		ug/l ug/l	BDL BDL	BDL BDL	BDL	BDL	BDL
Carbon tetrachloride	500	ug/I	BDL	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
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 Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL	BDL
Dibromomethane	'	ug/l ug/l	BDL BDL	BDL BDL	BDL	BDL	BDL
Dichlorodiflouromethane		ug/l	BDL	BDL	BDL BDL	BDL	BDL
Dichloromethane		ug/l	BDL	BDL	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	ļ	ug/l	BDL	BDL	BDL	BDL	BDL
Methacrylonitrile		ug/l	BDL.	BDL	BDL	BDL	BDL
Methyl methacrylate Propionitrile	-	ug/l	BDL	BDL	BDL	BDL	BDL
Styrene		ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene	ŀ	ug/l	BDL	BDL BDL	BDL BDL	BDL	BDL
Tetrachloroethene	700	ug/l	BDL	BDL	BDL	BDL BDL	BDL BDL
Toluene		ug/l	18	60.2	44.4	51.5	7.1
Total Xylenes	j	ug/l	93.5	105	97.6	72.9	67.8
trans-1.2-Dichloroethene	i	ug/l	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	ľ	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 Trichloromethane	6.000	ug/l	BDL	BDL	BDL	BDL	BDL
Vinyl acetate	6.000	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL
Vinyl chloride	200	ug/I ug/l	BDL	BDL 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 = nepholometric turbidity units.

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

		Location:	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5
Analyte	I	Date of Test:	03/24/10	03/24/10	03/24/10	03/24/10	03/24/10
	Standard(1)	Units		<u> </u>			
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
oH		STD	7.21	7.48	7.65	7.41	7.32
Conductivity		umhos/cm	4232	21013	13015	20580	12311
Dissolved Oxygen (DO)		mg/1	4.98	3.57	4.14	3.18	2.91
norganics			-	T			
Bicarbonate alkalinity		mg/l	2980	7740	9160	7020	2610
arbonate Alkalinity		mg/l	BDL	BDL	BDL	BDI.	BDL
Calcium]	ug/l	229000	169000	156000	157000	231000
hloride	ľ	mg/l	658	2620	2230	2110	727
TOR		ug/l	2520	5240	1990	2130	1060
Magnesium		ug/l	55000	64200	79700	66600	68000
Aercury	200	սք∕1	BDL	BÖL	BDL	BDL	BDL
Vitrate		mg/l	BDL	0.152	0.074	0.151	0.065
litrite		mg/l	0.005	BDĹ	0.063	BDL	0.005
litrate-Nitrilte		mg/l	0.005	0.152	Ö.137	0.151	0.07
otassium		ug/I	224000	694000	919000	749000	383000
odium ulfate		ug/l	700000	2130000	1980000	1940000	586000
otal Ammonia - N	.1	mg/l	BDL	BDL	BDL	BDL	BDL
otal Ammonia - N otal Alkalinity	1	mg/l	364	1180	1060	910	343
otal Dissolved Solids (TDS)		mg/l	2980	7740	9160	7020	2610
otes: (1) - Regulatory standard listed in		mg/l	3110	9530	7400	6550	4400

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

	<u> </u>	Location	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Leach P2-1	
Analyte		Date of Test	10/27/10	10/27/10	10/27/10	10/27/10	10/27/10	10/27/10	_
	Standard(1)	Units		1,5,2,7,10	10,27110	10/2//10	10/2//10	10/27/10	_
Field Measurements	<u> </u>								-
Temperature Turbidity		1	31.08	37.76	40.08	39.33	37.67	29.31	_
рН	4.		13.7	26.5	17.6	21.2	23	5.38	
Conductivity	- 1-	STD	7.25	7.63	7.79	7.66	7.38	6.59	
Dissolved Oxygen (DO)		umhos/cm	9922	19413	25433	21991	11308	780	
norganics		mg/1	3.65	2.23	1.78	3.4	0.9	2.34	
Antimony	 					<u> </u>	<u> </u>		
Arsenic	5000	ug/l	42.3	28.8	85.7	9.9	11.5	BDI.	
Barium	100000	ug/l	BDL	253	436	156	102	5.2	
Beryllium	100000	ug/l	7.4	122	188	104	125	55.6	
Bicarbonate alkalinity		ug/l mg/l	BDL NA	BDL	BDL	BDL	BDL	BDL	-
Biochemical Oxygen Demand	•	mg/l	75.6	NA 176	NA 176	NA 65.5	NA	NA	
Cadmium		ug/l	NA.	BDL	175	65.7	51.7	BDL	
Carbonate Alkalinity		mg/l	NA NA	NA NA	0.94	BDL	BDL	BDL	1
Calcium		ug/i	NA.	NA NA	NA NA	NA NA	NA	NA	-
Chloride	İ	mg/l	792	1850	NA 2560	NA 2320	NA 826	NA	1
Chromium	5000	ug/l	BDL	41	592	2320	936	21.2	J
Cobalt		ug/l	BDL	51.8	68.7	371 78.7	141	BDL	1
Copper	1	ug/l	BDL	BDL	9.9	5.4	61.1	BDL	
Cyanide		mg/l	BDL	0.042	0.053	0.027	13	BDL	ı
ron	1 1	ug/l	66.9	3140	3220	1890	BDL 1290	BDL	I
ead	5000	ug/l	BDL	BDL	5.2	BDL	BDL	3520	ı
fagnesium	1 1	ug/l	NA	NA	NA	NA.	NA	BDL	ı
fercury	200	ug/l	BDL	BDL	BDL	BDL	BDL	NA BDL	ı
ickel		ug/l	BDL	51.6	128	138	61.4	2.7	۱
itrate] [mg/l	BDL	BDL	BDL	BDL	BDL	BDL	ı
itrite	ľ	mg/l	0.014	0.131	0.073	0.031	0.08	BDL	ı
itrate-Nitrilte	j	mg/1	BDL	BDL	BDL	BDL	BDL	BDL	l
otassium	1	ug/l	NA	NA	NA	NA	NA NA	NA	ı
elenium	1000	ug/l	BDL	15.7	BDL	BDL	BDL	BDL.	l
lver	5000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	l
odium	. [ug/l	38800	1790000	2100000	1490000	855000	13200	l
ılfate	1	mg/l	NA	NA	NA	NA	NA	BDL	l
otal Ammonia - N	1	mg/1	599	1150	1890	1150	581	2.6	l
nallium n as SN		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	Ĺ
n as 314 otal Alkalinity	 -	ug/l	BDL	BDL	92.5	63.7	BDL	BDL	ļ
etal Dissolved Solids (TDS)		mg/1	NA [ŅA	NA.	NA	NA	NA	ı
otal Sulfide	 	mg/l	3220	7380	12100	9140	4900	422	ĺ
nadium	1	mg/1	6.8	12.4	32.3	31.9	6.5	BDL	ı
nc	1	ug/l	13.1	32.5	140	90.6	52.6	7.4	ĺ
sticides & Herbicides	 	ug/l	BDL	BDL	175	55.8	16.6	BDL	
1-D	10,000	ug/l	BDL	BDL	BDI				1
I,5-T	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	
k 4 methylphenol	200,000	ug/l	178	35.0	BDL 68.7	BDL	BDL	BDL	
внс	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	
drin	!	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	
внс	ļ:	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	
lordane	30	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	
внс	7	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	
eldrin	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	
noseb	l'	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	
dosulfan Sulfate	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	
dosulfan-I	İ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	
losulfan-П		ug/l	BDL	BDL		BDL	BDL	BDL	
drin	20	ug/l	BDL	BDL	BDL BDL	BDL	BDL	BDL	
Irin Aldehyde	·]	ug/I	BDL	BDL	BDL	BDL	BDL	BDL	
BHC(Lindane)	400	ug/l	BDL	BDL	11. 1	BDL	BDL	BDL	
otachlor	130	ug/I	BDL	BDL	BDL BDL	BDL	BDL	BDL	
otachlor Epoxide	130	ug/l	BDL	BDL		BDL	BDL	BDL	
nacinoi Epoxine		-o· i		**	BDL	BDL	BDL	BDL	
thoxychlor	10,000	ug/} أ	BDL	BDi i	DDI I	DD: 1	DE.		
	10,000	ug/l ug/l	BDL	BDL	BDL	BDL	BDL	BDL	
thoxychlor	10,000	ug/l ug/l ug/l	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	BDL BDL BDL	

		Location	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Leach P2-1
Analyte	<u> </u>	Date of Test	10/27/10	10/27/10	10/27/10	10/27/10	10/27/10	10/27/10
PCB-1242	Standard(1)	Units	DDI				ļ	
PCB-1248	-	ug/l ug/l	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL	BDL
PCB-1254	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PCB-1260	1	ug/l	BDL	BDL	BDL	BDL	BDL BDL	BDL BDL
PP-DDD	ŀ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PP-DDE	·	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
PP-DDT	Ī	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 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	ng/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Nitrophenol	200,000	ug/l	BDL	20.0	BDL	BDL	BDL	BDL
4,6-Dinitro-2-methylphenol	<u> </u>	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Chloro-3-methylphenol		ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL
4-Nitrophenol	1	ug/l ug/l	BDL	BDL BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	100,000	ug/l	BDL	BDL	BDL BDL	BDL	BDL	BDL
Phenol	100,000	ug/l	116	BDL	BDL	BDL BDL	BDL	BDL
Base Neutrals	-			BDD	BDL	ZICIO.	BDL	BDL
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	1	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	1	ug/l	BDL	BDI.	BDL	BDL	BDL	BDL
2-Acetylaminoflourene	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Chloronaphthalene	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Methylnaphthalene	1 1	ug/l	1.4	1.8	1.5	BDL	BDL	BDL
2-Naphthylamine 2-Nitroaniline		ug/I	BDL	BDL	BDL	BDL	BDL	BDL
3,3-Dichtorobenzidine	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3,3-Dimethylbenzidine	1	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL
3-Methylcholanthrene	1	ug/l	BDL	BDL BDL	BDL	BDL	BDL	BDL
3-Nitroaniline		ug/l	BDL	BDL	BDL BDL	BDL BDL	BDL	BDL
4-Aminobiphenyl	† †	ug/l	BDL	BDL	BDL	4	BDL	BDL
4-Bromophenyl-phenylether	1 1	ug/l	BDL	BDL	BDL	BDL BDL	BDL	BDL
4-Chloroaniline	1	ug/l	BDL	BDL	BDL	BDL	BDL BDL	BDL
4-Chlorophenylphenylether	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
4-Nitronaline	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
5-Nitro-o-toluidine	1	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/I	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	BDI.	BDL
Benzo(b)flouranthene	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(g,h,i)perylene	[ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(k)flouranthene	ļ ļ.	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 Bis(2-ethylhexyl)phthalate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
utylbenzylphthalate	j l	ug/l	BDL	13.9	BDL	BDL	BDL	BDL
Chlorobenzylpninalate Chlorobenzilate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chrysene		ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL
Diallate		ug/I	BDL	BDL BDL	BDL	BDL	BDL	BDL
Dibenz(a,h)anthracene		ug/l ug/l	BDL	1	BDL	BDL	BDL	BDL
	ı	eiè\r	שטע	BDL	BDL	BĎT [BDL	0.64

		Location	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Leach P2-1
Analyte	Standard(1)	Date of Test Units	10/27/10	10/27/10	10/27/10	10/27/10	10/27/10	10/27/10
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	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Di-N-butylphthalate Di-N-octylphthalate	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Disulfoton	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ethylmethanesulfonate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Famphur	•	ug/l	BDL	BDL	BDL	BDĽ	BDL	BDL
Flouranthene	ł	ug/J	BDL	BDL	BDL	BDL	BDL	BDL
Flourene	1	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	130	ng/l	BDL	BDL	BDL BDL	BDL	BDL	BDL
Hexachlorobutadiene	500	ug/l	BDL	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	1	ug/l	BDL	BDL	BDL	BDL	BDL BDL	BDL
Indeno(1,2,3-cd)pyrene	ľ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
Isodrin		ug/I	BDL	BDL	BDL	BDL	BDL	BDL
Isophorone	ľ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Isosafrole		ug/l	BDL	23.1	BDL	BDL	BDL	BDL
Kepone		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 Nitrobenzene		ug/l	15.7	18.5	37.6	16.6	7.8	BDL
N-Nitrosodiethylamine	2,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodimethylamine	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodi-n-butylamine	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitroso-di-n-propylamine	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosodiphenylamine	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosoethylmethylamine	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosopiperidine	1	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL
N-Nitrosopyrrolidine		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
0,0,0-Triethylphosphorothioate	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Ortho-toluidine	1 1	ug/l	BDL	BDL BDL	BDL	BDL	BDL	BDL
Para-Phenylenediamine	1 1	ug/l	BDL	BDL	BDL BDL	BDL	BDL	BDL
Ethyl Parathion	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
P-Dimethlaminoazobenzene] [ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Pentachlorobenzene	1 1	ug/l	BDL	BDL	BDL	BDL BDL	BDL	BDL
Pentachloronitrobenzene]	ug/l	BDL	BDL	BDL	BDL	BDL BDL	BDL
henacetin]	ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
henanathrene	ł I.	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
horate]	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
ronamide	1	ug/Ì	BDL	BDL	BDL	BDL	BDL	BDL
yrene	5,000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
afrole	1 !	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
hionazin	 	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
olatile Organics 1,1,2-Tetrachloroethane	 							-
,1,1-Trichloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
.1,2,2-Tetrachloroethane	! !	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Trichloroethane	l· .	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
,2-Dibromo-3-chloropropane	i i	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1-Dichloroethane		ug/l	0.14	0.22	0.16	0.29	0.11	BDL
1-Dichloroethene	700	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL
1-Dichloropropene	,,,,,	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,3-Trichloropropane		ug/l	BDL	BDL BDL	BDL	BDL	BDL	BDĽ
2-Dichlorobenzene	<u> </u>	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Dichloroethane	500	ug/l	BDL	BDL	BDL BDL	BDL	BDL	BDL
2-Dichloropropane		ug/l	BDL	BDL		BDL	BDL	0.65
3-Dichlorobenzene	1	ug/l	BDL	BDL	BDL BDL	BDL	BDL	BDL
3-Dichloropropane	-	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
4-Dichlorobenzene	7,500	ug/l	19.7	12.5	BDL	BDL BDL	BDL	BDI.
2-Dichloropropane	•	ug/l	BDL	BDL	BDL	BDL	BDL	1.0
Butanone	200,000	ug/l	59.7	53.5	130	BDL BDL	BDL BDL	BDL
Hexanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
Methlyl-2-pentanone		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
etone		ug/l	61.5	38.6	161			
etonitrile	f	-6-	0110	30.0	101	BDL	BDL	BDL

	ļ <u>.</u>	Location:	Leach 1	Leach 2	Leach 3	Leach 4	Leach 5	Leach P2-1
Analyte		Date of Test:	10/27/10	10/27/10	10/07/10	10/27/10	40/25/14	
	Standard(1)	Units	10/2//10	10/2//10	10/27/10	10/27/10	10/27/10	10/27/10
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	<u>l</u> . 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	[ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbon disulfide] [ug/i	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	BDI.	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	ľ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane		ug/i	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
Dichlorodiflouromethane		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	İ	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	ļ.	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methacrylonitrile		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methyl methacrylate	i	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Propionitrile	·	ug/l	BDL	BDL	BDL	BDL	BDL	4.4.4
Styrene		ug/l	BDL	4.8	4.1	2.6	3.3	BDL BD L
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	1	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	
trans-1,2-Dichloroethene	j	ug/l	BDL	BDL	BDL	BDL	BDL	0.74 BDL
trans-1,3-Dichloropropene		ug/l	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
Vinyl chloride	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1,2 diphenythydrazine	· · · · · · · · · · · · · · · · · · ·	ug/l	BDL	BDI.	RDI	BDI	BDL BDL	BDL
Notes: (1) - Regulatory standard listed in 40 CE	R Part 261.24. An	alyte concentration	ons shown with sha	ding represent an ex	Sceedance of the res	BDL BDL	RDL	BDL

Abbreviations: BDL = below detection limits; $mg\Lambda = milligrams$ per liter; $ug\Lambda = micrograms$ per liter; NTU = nepholometric turbidity units. NA = not analyzed.

Table 2-9 Goundwater Analytical Summary First Half 2007

		Well	MW-IR	MW-4R	Surf MW-8A	lcial Aquif MW-9	r Welts MW- 10R		1	
Analyte					MINT-ON	N1 VY-5	171 48 - 308	MW-IIR	MW-12R	MW-13/
		Date of Test	4/24/2007	4/24/2007	4/25/2007	4/29/2007	4/29/2001	4/25/2007	4/25/2007	3/22/2007
	Standard ⁽¹⁾	Units								3/22/2007
Field Measurements										
Temperature pH		degrees C	21.19	21.54	24.39	25 24	23.93	23.44	23.19	21.65
Pri Conductivity	6.5-8,5*	STD	6.8	5.09	6.12	6.39	6.38	6.54	6.67	5.92
Dissolved Oxygen (DO)		umlios/cm	1088	88	1720	709	1309	445	897	427
Turbidity	1	mg/l	0.82	0.8	0.38	0.6	0.62	0.95	0.42	0.36
Inorganics		NTU	11.5	8	1.1	1.0	1.2	1.5	0.5	2.6
Antimony	6	ug/l	BDL	0.01						
Arsenic	10	ng/l	18	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL
Barium	2000	ug/l	61	26	37 61	49	10	5.8	BDL.	15
Beryllium	4	սց/1	BDL	BDL	BDF	100	83	14	19	43
Bicarbonate Alkalinity		mg/l	NA .	N.A	NA NA	BDL NA	BDL	BDL	BDL	0.59
Cadmium	5	ացվ	BDL	BDL	BDL	BDL	NA BDL	NA BDL	NA DDI	240
Carbonate Alkalinity		mg/l	NA	NA	NA.	NA.	NA	NA NA	BDL	0.57
Chloride	250*	mg/l	630	39	48	25	80	15	NA	BDL
Chromium	100	ug/I	12	18	3.0	BDL	2.7	BDL	64 BDL	120
Cobalt		ug/l	5.1	BDL	8.2	7.1	5.3	BDL /	BDL	14 2.3
Copper	1000*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2.5
lron	300*	ug/l	3400	3800	43000	48000	55000	1300	1900	19000
Lead Mercury	15	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nickel	2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nitrate	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nitrite	10	mg/l	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Nitrogen- NO3/NO2		mg/l	BDL	BDL	BDL	0.079	0.021	BDL	BDL	8DL
Selenium	50	mg/l ug/l	BDL BDL	BDL	BDL	0.039	0.052	BDL	BDL	BDL
Silver	100*	սը/1	BDL	BDL BDL	BDL BDL	BDL.	BDL	BDL	BDL	BDL
Sodium	160000	ug/I	510000	16000	79000	BDL 24000	BDL	BDL	BDL	BDL
Sulfate	250*	ing-l	NA	NA	NA	24000 NA	82000	7800	20000	98000
iulfide		mg/l	NA	NA	NA I	NA .	NA NA	NA	NA	11
Thallium	2	սջ/լ	BDL	BDL	BDL	BDL	BDL	NA BDL	NA DDI	0.56
otal Alkalinity	ĺ	mg/l	NA	NA	NA NA	NA NA	NA NA	NA NA	BDL NA	BDL
otal Aminonia-N	2.8	mg/l	0.2	0.11	13	6.6	5,5	0.19	0.29	240 1.8
otal Dissolved Solids (TDS)	500*	nig/l	2300	170	1000	990	790	320	710	680
/anadium	19	ug/l	32	41 j	BDL	BDL	5.2	14	BDL	30
inc	5000*	ug/l	23	10	_BDL	BDL	BDL	BDL	BDL	BDL
Organics										
cetone	700	ug/l	2.8	BDL	BDL	6.6	3.6	BDL	BDL	BDL
enzene	8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
romochloromethane	'	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
romoform	.1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
romodichloromethane	0.8	ug/ ug/	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
romomethane	10	սջ/1	BDL	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL
Butanone	4200	ug/l	BDL	BDL	BDL BDL	BDL	BDL	BDL	BDL	BDL
arbon disulfide	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
arbon tetrachloride	3	ug/l	BDL	BDL	BDL	BDL BDL	BDL	BDL	BDL	BDL
hlorobenzene	100	นลิไ	BDL	BDL	BDL	BDL.	BDL BDL	BDL	BDL	BDL
hloroethane	140	ug l	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL	BDL
hloromethane	5	ug/	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL
ibromochloromethane	1	ug 1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ibromochloropropane		ug∄	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDŁ BDL
bromomethane		ug/I	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDI.
chloromethane	5	ug/I	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
hylene dibromide 2-Dibromo-3-chloropropane	0.02	ug l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Dichlorobenzene	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1-Dichlorobenzene	600 75	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ganics		ug l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

						cial Aquife	Wells			
Analyte		Well:	MW-IR	MW-4R	MW-8A	MW-9	MW-10R	MW-11R	MW-I2R	MW-13/
	•	ate of Test:	4/24/2007	4724/2007						
	Standard ^(f)	Units	4/24/2001	4/24/2007	4/25/2007	1/29/2007	4/29/2007	4/25/2007	4/25/2007	3/22/2007
1,2-Dichloroethane	3	ug/J	BDL	BDL	DD:					
1.1-Dichloroethene	7	ևջ/J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
cis-1.2-Dichloroethene	70	սբ/յ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
rans-1,2-Dichloroethene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
,2-Díchloropropane	5	ug/l	BDL		BDL	BDL	BDL	BDL	BDL	BDL
is-1.3-Dichloropropene	1 1	ีย <u>ผ</u> /,	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
rans-1.3-Dichloropropene	1 1	սց/1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
-1,4-Dichloro-2-butene]	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	700	ug/l		BDL	BDL	BDL	BDL	BDL	BDL	BDL
-Hexanone	, , , , ,	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
odomethane		աք/]	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
-Methlyl-2-pentanone	350	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
tyrene	100	ug/l	BDL	BDL	BDL	BDI,	BDL	₽DL	BDL	BDL
.1,1,2-Tetrachloroethane	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1.2.2-Tetrachloroethane	02	ug/l	BDL	BDL	BDL	BDL	BDI.	BDL	BDL	BDI.
etrachloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
oluene	1000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ribromomethane	1000	ug/l	BDL	BDL	0.17	BDL	BDL	BDL	BDL	BDL
1.1-Trichloroethane	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL I
1,2-Trichloroethane	200	ug/j	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
richloroethene	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL.	BDL
richloromethane	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
richlorofluoromethane	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL.	BDL	BDL
2.3-Trichloropropane	2100	ug/l	BDL	BDL	BDL	B DL	BDL	BDL	BDL	BDL
nyl acetate	42	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
inyl chloride	250	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
otal xylenes	l l	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
nai xyienes	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 = miligrams 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 Goundwater Analytical Summary Second Half 2007

					Surfic	ial Aquifer V		
		Well	: MW-1R	MW-8A	MW-9	MW-10R	MW-HR	MW-12R
Analyte								
		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
pΗ	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/I	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/1	46	70	110	84	15	54
Beryllium	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Cadmium	5	ug/1	BDL	BDL	BDL	BDL	BDL	BDL .
Chloride	250*	mg/l	96	47	27	80	7.4	61
Chromium	100	ug/1	3.8	4.0	BDL	BDL	BDL	BDL
Cobalt		սցժ	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*	[սը/1	10000	55000	50000	54000	910	1000
Lead	15	ng/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/I	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/1	560	1088	1108	928	260	880
Vanadium z:	19	ug/l	BDL	BDL	BDL	5.8	25	8.9
Zinc	5000*	ug/t	BDL	BDL	BDL	11	BDL	BDL
Organics Acetone	T							
Acrylonitrile	700	ug/t	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	8	ug/l	BDL	BDL	BDŁ.	BDL	BDL	BDL
Bromochloromethane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform]	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	1200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Carbon disulfide	700	ug/t	BDL	BDL	BDL	BDL	BDL	BDL.
Carbon tetrachloride	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	100	ug/l ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane	140	ug/i ug/l	BDI.	BDL	BDL	BDL	BDL	BDI.
Chloromethane	5	ug-i ug-l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	1	ւ սել։	BDL BDL	BDL BDL	BDL	BDL	BDL	BDL
Dibromochloropropane	1	ug/i	,	BDL	BDL	BDL	BDL	BDL
Dibromomethane		սց/ւ սց/1	BDL BDL	BDL	BDL	BDL	BDI.	BDL
Dichloromethane	 5	ug/i ug/i	BDL	BDL	BDL	BDL	BDL	BD1.
thylene dibromide	0.02	ug/i ug/l	l l	BDL	BDL	BDL	BDL	BDL
.2-Dibromo-3-chloropropane	0.2	F-	BDL	BDL	BDL	BDL	BDL	BDL
2-Dichlorobenzene	600	ug/l ug/l	BDL	BDL	BDL .	BDL	BDL	BDL
.4-Dichlorobenzene	·· 600 - ·-	ug/l	BDL	BDL	BDL	BDL	0.19	BDL
.1-Dichloroethane	700	- 1	BDL	BDL	BDL	BDL	BDL	BDL
.2-Dichloroethane	3	ug/ ug/l	BDL	BDL	BDL	BDL	BDL	BDL
	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL

Mailyte Date of Test: 1/5/2007 11/18/2007 11/18/2007	ıl Aquifer W	ells	
Date of Tests 11/5/2007 11/18/2007 Standard(1) Units	MW-10R		MW-12R
Standard Units			
1.1-Dichloroethene	11/18/2007	11/5/2007	11/5/2007
Cis-1.2-Dichloroethene 70			
trans-1,2-Dichloroethene	BDL	BDL	BDL
1,2-Dichloropropane	BDL	BDL	BDL
SDL SDL	BDL	BDL	BDL.
1	BDL	BDL	BDL
	BDL	BDI.	BDL
Ethylbenzene 700	BDI.	BDL	BDL
2-Hexanone ug/l BDL ""><td>BDL .</td><td>BDL</td><td>BDL</td></td<>	BDL .	BDL	BDL
2-Hexanone	BDL	BDL	BDL
March Marc	BDL	BDI.	BDL
350	BDL.	BDL	BDL
100	BDI.	BDL	
1.1.1.2-Tetrachloroethane	BDI.	BDL	BDL
1,1,2,2-Tetrachloroethane	BDI.	BDL	BDL
Tetrachloroethene	BDL BDL	BDL	BDL
Toluene	BDL BDL	BDL BDL	BDL
1.1.1-Trichloroethane	BDI.		BDL
1.1.1-Trichloroethane 200 ug4 BDL	BDI.	0.20	BDL
1.1.2-Trichloroethane	BDI.	BDL	BDL
3	_	BDL	BDL
Frichloromethane	BDL	BDL	BDL
Frichlorofluoromethane 2100 ug/l BDL BDL BDL BDL L2,3-Trichloropropane 42 ug/l BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL	BDL	BDL
1.2,3-Trichloropropane	BDL	BDL	BDL
/inyl acetate 250 ur/l BDI BDI BDI	BDL	BDL	BDL
	BDL	BDL	BDL
/inyl chloride ug/l BDL BDL BDL	BDL	BDL	BDL
fotal 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). 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 = miligrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter.

Table 2-11 Groundwater Analytical Summary First Half 2008

	ļ -	Well	MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R
Analyte		Date of Test:	05/28/08	05/29/08	05/29/08	05/30/08	05/30/08	05/29/08
	Standard(1)	Units					32,20,00	03/23/03
Field Measurements Temperature				_				
Turbidity	İ		23.7	26.6	26.13	27.32	27.76	26.6
pH	6.5-8.5*	- CTD	10	4.97	2.98	2.35	3.19	1.99
Conductivity	. د.قندن	STD umhos/cm	6.49	6,25	6.44	6.34	6.46	6.42
Dissolved Oxygen (DO)		mg/1	593 0.4	0.14	611	453	196	3510
Inorganics		Ing/i	0.4	0.14	0.54	0.46	14.3	0.22
Antimony	6	ug/l	BDL	BDL	BDL	BDI	11.5	2.27
Arsenic	10	ug/l	2.9	49.8	55.5	BDL 12.8	11,5	2.27
Barium	2000	ug/l	34.1	69	111	93.8	2.81 23.5	5.74
Beryllium	4	ug/l	BDL	BDL	BDL	BDL	BDL	167 BDL
Bicarbonate alkalinity	ľ	mg/1	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	14 0 000	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
ron	300*	ug/l	7160	129000	48300	63700	948	5150
ead	15	ug/l	BDL	BDL	1.5	BDL	BDL	BDL
1agnesium		ug/l	29600	75400	47700	44500	17500	62100
1ercury	.2.	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
lickel	100	ug/l	2,73	4.39	11.6	2.08	1.6	10.9
litrate	10	mg/1	0.13	BDL	BDL	BDL	0.14	0.14
litrite		tng/l	BDL	BDL	0.073	BDL	BDL	BDL
litrate-Nitrilte].	mg/1	0.13	BDL	BDL	BDL	0.14	0.14
otassium elenium	1	ug/l	452	5620	4320	1270	7360	287000
eienium	50	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
odium	100*	ug/l	BDL	3.4	BDL	BDL	BDL	BDL
ulfate	160000	ug/l	42400	67100	26600	69200	7910	223000
otal Ammonia - N	250*	mg/l	4.7	0.93	0 .93	0.74	110	700
hallium	2.8	mg/l	0.11	20	13	7.8	0.23	1.0
in as SN	1.	ug/l	BDL	BDL	BDL	BDL	BDL	$BDL_{\underline{}}$
otal Alkalinity		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
otal Dissolved Solids (TDS)	500*	mg/1	290	820	970	620	150	350
otal Sulfide	1 300 1	mg/l	440 BDL	820 BDI	1000	790	370	2600
anadium	49	mg/l ug/l	4.4	BDL	BDL	0.6	0.6	BDL
nc	5000*	ug/l	15.6	11.3 23.4	1.1	4.98	41.1	1.62
esticides & Herbicides	3000	_ ug/i	15.0	23.4	32.6	15.3	19.1	13.7
4-D		ug/l	BDL	BDL	BDL		- DDI	
4,5-T		ug/l	BDL	BDL	BDL	BDL BDL	BDL	NA
& 4 methylphenol	1	ug/l	BDL	BDL	BDL	BDL	BDL BDL	NA
внс	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	NA
drin	! !	ug/l	BDL	BDL	BDL	BDL	BDL	NA I
внс	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
lordane	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
внс		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
eldrin]	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
noseb		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
dosulfan Sulfate		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
dosulfan-I		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
dosulfan-II	1 1	ug/l	BDL	BDL	BDL	BDL	BDL.	NA NA
drin]	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
drin Aldehyde	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
BHC(Lindane)] [ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
ptachlor		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
ptachlor Epoxide]	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
thoxychlor		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
B-1016		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
B-1221	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
B-1232	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
B-1242	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
B-1248	1 1	սջ/1	BDL	BDL	BDL	BDL	BDL	NA NA

		Well	MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R
Analyte	Ct. 1 7(0)	Date of Test:	05/28/08	05/29/08	05/29/08	05/30/08	05/30/08	05/29/08
PCB-1254	Standard(1)	Units ug/l	BDL	BDL	BDL	BDI.	DDI	27.
PCB-1260	1-	ug/l	BDL	BDL	BDL	BDL BDL	BDL BDL	NA NA
PP-DDD		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
PP-DDE		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
PP-DDT	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
Silvex	ľ	ug/l	BDL	BDL	BDL	BDL	BDL	NA
Toxaphene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Organics, Acid Extractables								
2,4,6-TrichlorophenoI	1 .	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 2,4-Dimethylphenol	1	ug/l	BDL	BDL	BDL	BDL	BDL	ŅA
2,4-Dinitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL	ŅΑ
2,6-Dichlorophenol		ug/l	BDL BDL	BDL	BDL	BDL	BDL	NA
2-Chlorophenol		ug/l ug/l	BDL	BDL BDL	BDL BDL	BDL	BDL	NA
2-Methylphenol		ug/l	BDL	BDL	BDL	BDL BDL	BDL	NA.
2-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL	ŅA
4,6-Dinitro-2-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDL BDL	NA NA
4-Chloro-3-methylphenol		ug/l	BDL	BDL	BDL	BDL	BDF RDF	NA NA
4-Nitrophenol		ug/l	BDL	BDL	BDL	BDL	BDL BDL	NA NA
Pentachlorophenol		ug/l	BDL	BDL	BDL	BDL	BDL	ŅA NA
Phenol		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
Base Neutrals								
1,2,4,5-Tetrachlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
1,2,4-Trichlorobeuzene	ĺ	ug/l	BDL	BDL	BDL	BDL	BDL	NA
1,3,5-Trinitrobenzene	- 1	ug/l	BDL	BDL	BDL	BDL	BDL	NA
,3-Dinitrobenzene		ug/I	BDL	BDL	BDL	BDL	BDL	NA
-Methylnaphthalene	ŀ	ug/l	BDL	BDL	BDL	BDL	BDL	NA
,4-Naphthoquinone		ug/l	BDL	BDL	BDL	BDL	BDL	NA
-Naphthylamine 2,4-Dinitrotoluene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
2,6-Dinitrotoluene	ŀ	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	NA
-Acetylaminoflourene		ug/l	BDL	BDL BDL	BDL	BDL	BDL	NA
-Chloronaphthalene	1	ug/l	BDL	BDL	BDL BDL	BDL BDL	BDL	NA
-Methylnaphthalene	i	ug/l	BDL	BDL	BDL	BDL	BDL BDL	NA NA
-Naphthylamine	•	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
-Nitroaniline		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
,3-Dichlorobenzidine	ĺ	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
,3-Dimethylbenzidine	İ	ug/l	BDL	BDL	BDL	BDL	BDL	NA.
-Methylcholanthrene]	ug/l	BDL	BDL	BDL	BDL	BDL	NA
-Nitroaniline	ì	ug/l	BDL	BDL	BDL	BDL	BDL	NA
-Aminobiphenyl	ĺ	ug/l	BDL	BDL	BDL	BDL	BDL	NA
-Bromophenyl-phenylether	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA
-Chloroaniline	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA
-Chlorophenylphenylether	i	ug/l	BDL	BDI.	BDL	BDL	BDL	NA
-Nitronaline		ug/l	BDL	BDL	BDL	BDL	BDL	NA
-Nitro-o-toluidine ,12-Dimethylbenz(a)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
cenaphthene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
сепаритене		ug/l	BDL	BDL	BDL	BDL	BDL	NA
cetophenone	-	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	NA
nthracene		ug/l	BDL	BDL	BDL	BDL.	BDL	NA
enzo(a)anthracene		ug/l	BDL	BDL BDL	BDL BDL	BDL	BDL	NA
enzo(a)pyrene		ug/l	BDL	BDL	BDL	BDL BDL	BDL	NA
enzo(b)flouranthene	- 1	ug/l	BDL	BDL	BDL	BDL	BDL	NA
enzo(g,h,i)perylene	İ	ug/l	BDL	BDL	BDL	BDL.	BDL BDL	NA NA
enzo(k)flouranthene	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
enzyl alcohol	ļ*	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
is(2-chloroethoxy)methane	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
is(2-chloroethyl)ether		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
is(2-chloro-1-methylethyl)ether	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
is(2-ethylhexyl)phthalate	f	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
utylbenzylphthalate]	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
hlorobenzilate	1	ug/l	BDL.	BDL	BDL	BDL	BDL	NA NA
hrysene	[ug/l	BDL	BDL	BDL	BDL	BDL	NA
allate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
benz(a,h)anthracene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
ibenzofuran	.	ug/l	BDL	BDL	BDL	BDL	BDL	NA
iethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	NA

		Wel	l MW-1R	MW-8A	MW-9	MW-10R	MW-11F	MW-12R
Analyte	Standard(1)	Date of Test Units	05/28/08	05/29/08	05/29/08	05/30/08	05/30/08	05/29/08
Dimethoate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Dimethylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
Di-N-butylphthalate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Di-N-octylphthalate Disulfoton	ļ.	n&\J	BDL	BDL	BDL	BDL	BDL	NA NA
Ethylmethanesulfonate	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA
Famphur	+	ug/I	BDL	BDL	BDL	BDL	BDL	NA
Flouranthene	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA
Flourene	-	ug/I	BDL	BDL	BDL	BDL	BDL	NA
Hexachlorobenzene	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA
Hexachlorobutadiene	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA
Hexachlorocyclopentadiene	ŀ	ug/l	BDL	BDL	BDL	BDL	BDL	NA
Hexachloroethane		ug/l	BDL BDL	BDL	BDL	BDL	BDL	NA
Hexylchloropropene		ug/l	BDL BDL	BDL	BDL	BDL	BDL	NA.
Indeno(1,2,3-cd)pyrene	!	ng/l ug/l	BDL	BDL	BDL	BDL	BDL	NA
Isodrin	<u>-</u>		BDL	BDL	BDL	BDL	BDL	NA
Isophorone	† į	ng/l ug/l	BDL	BDL BDL	BDL	BDL	BDL	NA
Isosafrole	1	ug/l	BDL	BDL	BDL	BDL	BDL	ŅĄ
Kepone	1 1	ug/I	ND	** *	BDL	BDL	BDL	NA
Methapyrilene	1	ug/l	BDL	ND BDL	ND	ND	ND	NA
Methyl parathion	1	ug/l	BDL	BDL	BDL BDL	BDL	BDL	NA
Methylmethanesulfonate		ug/l	BDL	BDL BDL	BDL	BDL BDL	BDL	NA
Naphthalene	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	NA
Nitrobenzene	ľ	ug/l	BDL	BDL	BDL	BDL	BDL	NA
N-Nitrosodiethylamine	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
N-Nitrosodimethylamine		ug/I	BDL	BDL	BDL	BDL	BDL	NA NA
N-Nitrosodi-n-butylamine	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
N-Nitroso-di-n-propylamine	I. I	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
N-Nitrosodiphenylamine	i l	ug/l	BDL	BDL	BDL	BDL	BDL	NA.
N-Nitrosoethylmethylamine]	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
N-Nitrosopiperidine	l !	ug/l	BDL	BDL	BDL	BDL	BDL	NA
N-Nitrosopyrrolidine	ļ.	ug/l	BDL	BDL	BDL	BDL	BDL	NA
0,0,0-Triethylphosphorothioate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
Ortho-toluidine		ug/I	BDL	BDL	BDL	BDL	BDL	NA
ara-Phenylenediamine	1	ug/l	BDL	BDL	BDL	BDL	BDL	NA
thyl Parathion	! !	ug/l	BDL	BDL	BDL	BDL	BDL	NA
'-Dimethlaminoazobenzene	ļ.	ug/l	BDL	BDL	BDL	BDL	BDL	NA
entachlorobenzene entachloronitrobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
henacetin	-	ug/l	BDL	BDL	BDL	BDL	BDL	NA NA
henanathrene		ug/l	BDL	BDL	BDL	BDL	BDL	NA
horate		ug/l	BDL	BDL	BDL	BDL	BDL	NA
ronamide		ug/l	BDL	BDL	BDL	BDL	BDL	NA
yrene	-	ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	NA
afrole		ug/I	BDL	BDL	BDL	BDL	BDL	NA .
hionazin		ug/l	BDL	BDL	BDL	BDL	BDL	NA
olatile Organics		ug/i	BDL	BDL	BDL	BDL	BDL	NA NA
1,1,2-Tetrachloroethane	1	ug/l	BDL	BDL	BDL	DDI	DDI	 .
1,1-Trichloroethane	200	ug/I	BDL	BDL	BDL	BDL BDL	BDL	BDL
1,2,2-Tetrachloroethane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL BDL	BDL
1,2-Trichloroethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Dibromo-3-chloropropane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1-Dichloroethane	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
I-Dichloroethene	7	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
1-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2,3-Trichloropropane	42	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Dichlorobenzene	600	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Dichloroethane	3	ug/l	BDL	BDL	BDL	BDL	BDL.	BDL
2-Dichloropropane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3-Dichlorobenzene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
3-Dichloropropane	ľ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Dichlorobenzene	75	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2-Dichloropropane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Butanone	4,200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Hexanone	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Methlyl-2-pentanone	350	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
etone	700	ug/l	9.1	BDL	BDL	BDL	BDL	8.7
etonitrile	8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
rolein rylonitrile	- 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
ENGINEE IN THE STATE OF THE STA	I	ug/I	BDL	BDL	BDL	BDL	BDL	BDL

		Well	MW-1R	MW-8A	MW-9	MW-10R	MW-11R	MW-12R
Analyte	 	··						
		Date of Test:	05/28/08	05/29/08	05/29/08	05/30/08	05/30/08	05/29/08
A15-2-3-1-1-1	Standard(1)	Units			ļ			
Allyl chloride		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromochloromethane	. 4 . 8	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	10	ug/l	BDL	BDL	BDL	BDL	BDI.	BDL
Carbon disulfide	700	ug/l	BDĽ	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 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL .
cis-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane	ľ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dichlorodiflouromethane	1	սք/1	BDL	BDL	BDL	BDL	BDL	BDL
Dichloromethane	5	սջ/1	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl methacrylate	1	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	1	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	ľ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Propionitrile	İ	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Styrene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-buteue	i	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	3	ug/l	BDL	BDL	0.35	BDL	BDL	BDL
Toluene	0001	ug/l	BDL	BDL	0.78	0.39	BDL	BDL
Totat Xylenes	10000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,2-Dichloroethene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
trans-1,3-Dichloropropene	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	
Trichloroethene	3	ug/l	BDL	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	
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	1	ug/l	BDL	BDL	RDI	RDI	BDL	BDL BDL
Notes: (1) - Regulatory standard listed in 62-55	0, FAC. Analyte c	oncentrations sho	wn with shading r	epresent an exceeda	ance of the regulato	ry level	DDL	DUL

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 = nepholometric turbidity units. NA = not analyzed.

Table 2-12 Goundwater Analytical Summary Second Half 2008

					Surficial	Aquifer Wel	1988	
		Well:	MW-1R	MW-8A	MW-9	MW- 10R	MW-IIR	MW-12R
Analyte								
	İ	ate of Test:	10/15/2008	10/15/2008	10/15/2008	10/20/2008	10/21/2008	10/21/2008
	Standard ⁽¹⁾	Units					1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10/21/2008
Field Measurements								
Temperature	<u> </u>	degrees C	26.02	27.09	28.67	27.15	1 34.73	
pH	6.5-8.5*	STD	6.85	6,3	6.39	6.44	26.73	27.46
Conductivity	0.5	umhos/cm	216	600	509	581	6.51	6.47
Dissolved Oxygen (DO)		mg/l	0.34	0.33	0.37	2.14	0.16	488 0.21
Turbidity	į	NTU	6,0	1.4	2.5	1.8	1.3	3.6
Inorganics								3.0
Antimony	6	ug/l	BDL	BDL	BDL	BDL	DDI	
Arsenic	10	ug/l	BDL	58	57	13	BDL BDL	BDL
Barium	2000	ug/l	24	79	110	75	25	BDL 54
Beryllium	4	ug/1	BDL	BDL	BDL	BDL	BDL	BDL
Bicarbonate Alkalinity		mg/l	250	880	1200	700	280	350
Cadmium	5	սբ/I	BDL	1.9	0.71	0.68	BDL	BDL
Catcium		ug/l	85000	170000	310000	170000	74000	140000
Carbonate Alkalinity		mg/l	BDL	BDL	BDL	BDL	BDL BDL	140000 BDL
Chloride	250*	mg/l	24	53	33	82	39	
Chromium	100	ug/l	BDL	9.7	BDL	BDL	BDL	120
Cobalt		ug/l	BDL	6.2	6.4	BDL I	BDL	BDL
Copper	1000*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL
lron	300*	ug/t	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	սց/1	BDL	BDL	BDL	BDL	BDL	2.7
Nitrate	10	mg/l	BDL	BDL	0.004	BDL	BDL	BDL
Nitrite	ł	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	I4	BDL	BDL	BDL	26	170
Thallium	2	սջ/1	BDL	BDL	BDL	BDL	BDt.	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	i l	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform	4		BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	0.8	սց/Լ	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	10	ug:1	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/I	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	BDŁ	BDL	BDL	BDL	BDL
Dibromochloromethane	. 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloropropane	[u គ l	BDL	BDL _]_	BDL	BDL	BD1,	BDL

					Surficial	Aquifer Wel	ls	
Analyte		Well:	MW-1R	MW-8A	MW-9	MW-10R	MW-IIR	MW-12
Audiyte		ate 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	Por Por
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	BDL
1.2-Dichlorobenzene	600	ug/l	BDL	BDL	BDL	BDL	_	BDL
1.4-Dichlorobenzene	75	ug/l	BDL	BDL	BDL	BDL BDL	BDL	BDL
Organies							BDL	BDL
1,1-Dichloroethane	700	ug/l	BDL	BDL	BDL			
1.2-Dichloroethane	3	ug/l	BDL	BDL	ŀ	BDL	BDL	BDL
1.1-Dichloroethene	7	ug/l	BDL	BDL BDL	BDL	BDL	BDL	BDL
cis-1,2-Dichloroethene	70	ug/l	BDL BDL	BDI.	BDL	BDL	BDL	BDL
rans-1,2-Dichloroethene	100	ug/l	BDL		BDL	BDL	BDL	BDL
,2-Dichloropropane	5	ug/l	BDL 1	BDL	BDL	BDL.	BDL	BDL
is-1,3-Dichloropropene	[]	ug/1 ug/1	BDI.	BDL	BDL	BDL	BDL	BDL
rans-1,3-Dichloropropene		սց/I սց/I	BDL	BDL	BDL	BDI.	BDL	BDL
-1,4-Dichloro-2-butene	' '	- 1		BDL	BDL	BDL	BDI.	BDL
Ethylbenzene	700	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Hexanone	, , , ,	ug/I	BDL	BDL	BDL	BDL	BDL	BDL
odomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
-Methlyl-2-pentanone	350	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
tyrene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
.1,1,2-Tetrachloroethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL
.1,2.2-Tetrachloroethane	'	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
etrachloroethene	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
oluene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
ribromomethane	1000	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
.1,1-Trichloroethane		սը/I	BDL	BDL	BDL	BDL	BDL	BDL
1.2-Trichloroethane	200	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
richloroethene	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
richloromethane	6	ug/I	BDL	BDL	BDL	BDL	BDL	BDL
richlorofluoromethane	2100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
2.3-Trichloropropane	42	սջ/1	BDL	BDL	BDL	BDL	BDL I	BDL.
inyl acetate	250	ug/l	BDL	BDL	BDL	BDL	BDL	BDL
inyl chloride	1	սջ/ի	BDL	BDL	BDL	BDL	BDL	BDL
otal 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.; unthos/cm = microothus per centimeter; mg/l = miligrams per liter; NTU = nephelometric turbidity units: ug/l = micrograms per liter; NA

Not analyzed Shading = exceedance of criteria.

Table 2-13 Goundwater Analytical Summary First Half 2009

				Sur	ficial Aquifer	Wells
		Well:	MW-1R	MW-8A	MW-9	MW-10R
Analyte						
		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
pН	6.5-8.5*	STD	6.7	6.16	6.26	6.35
Conductivity		umhos/em	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/I	BDL	58	68	12
Barium	2000	ug/l	19	77	90	90
Beryllium	4	ug/l	BDI.	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	1	ug/l	BDL	BDL	BDL	BDL
Copper	1000*	ug/I	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	1	mg/l	BDL	0.02	0.066	0.004
Nitrogen- NO3/NO2]	mg/l	BDL	0.031	BDL	BDL
Potassium	i	ug/f	350	5200	6700	1900
Selenium	50	ug/l	BDL	BDL	BDL	10
Silver	100*	ug/l	BDL	BDL	BDL	9.7
Sodium	160000	ug/1	2500 0	59000	58000	84000
Sulfate	250*	mg/l	14	BDL	BDL.	BDL
Гhallium	2	ug/l	BDL	BDL	BDL	0.96
Total Alkalinity	}	mg/l	310	750	871	651
Fotal Ammonia-N	2.8	mg/l	BDL	12	8.5	4.6
Total Dissolved Solids (TDS)	500*	mg/l	420	880	92 0	810
/anadium	49	ug/l	BDL	13	BDL	6.7
Line	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.
romochloromethane	1	ug/I	BDL	BDL	BDL	BDL.
fromoform	4	ug/l	BDL	BDL	BDL	BDL
romodichloromethane	0.8	ug/l	BDL	BDL	BDL	BDL BDL
romomethane	10	ug/l	BDL	BDL	BDL	BDL
-Butanone	4200	ug/	BDL	BDL	BDL	BDL

					icial Aquifer	
		Well:	MW-IR	MW-8A	MW-9	MW-10R
Analyte		n in the second				
	Standard ⁽¹	Date of Test:	5/18/2009	5/18/2009	5/21/2009	5/26/2009
	100000000000000000000000000000000000000					
Carbon disulfide	700	ug/l	BDL	BDL	BDL	BDL
Carbon tetrachloride Chlorobenzene	3	ug/l	BDL	BDL	BDL	BDL
Chloroethane	100	ug/l	BDL	BDL	BDL	BDL
Chloromethane	140	ug/l	BDL	BDL	BDL	BDL
l e	5	ug/l	BDL	BDL	BDL	BDL
Dibromochloromethane	1	ug/l	BDL	BDL	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL	BDL	BDL
Dibromomethane Dichloromethane	1	ug/l	BDL	BDL	BDL	BDL
	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	BD1.	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	İ	ug/l	BDL	BDL	BDL	BDL
Ethylbenzene	700	ug/l	BDL	BDL	BDL	BDL
2-Hexanone	ĺ	u <u>e</u> /]	BDL	BDL	BDL	BDL
Iodomethane		ug/l	BDL	BDL	BDL	BDL
4-Methlyl-2-pentanone	350	ug/]	BDI.	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 1.1.2-Trichloroethane	200	ug/l	BDL	BDL	BDL	BDL
	5	ug/l	BDL	BDL	BDL	BDL
Trichloroethene Trichloromethane	3	ug/l	BDL	BDL	BDL	BDL
Trichloromethane Trichlorofluoromethane	6	ug/l	BDL	BDI.	BDL	BDI.
	2100	ug/l	BDL	BDL	BDL	BDL
1,2,3-Trichloropropane Vinyl acetate	42	ug/l	BDL	BDL	BDL	BDL
Vinyl acetate Vinyl chloride	250	ug/l	BDL	BDL.	BDL	BDL
Total xylenes	1	ng/l	BDL	BDL	BDL	BDL
i otal Aylenes	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., umbos/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 2-14 Goundwater Analytical Summary Second Half 2009

				Sü	rficial Aquifer	Wells
		Well	MW-1R	MW-8A	MW-9	MW- 101
Analyte						
		Date of Test:	10/26/2009	10/26/2009	10/26/2009	10/26/2009
	Standard ⁽	Units				
Field Measurements						
Temperature		degrees C	25.26	26.25	28.63	20.25
рН	6.5-8.5*	STD	6.68	6.15	6.36	29.25
Conductivity		umhos/cm	607	1643	1667	6.16
Dissolved Oxygen (DO)		mg/l	1.01	0.14	1.69	1471
Turbidity		NTU	6.0	5.0	13.9	0.3 5.9
Inorganics] 3.9
Antimony	T 6	ug/l	BDL	BDL	BDI	0.21
Arsenic	10	ug/l	5.7	57.9	BDL	0.76
Barium	2000	ug/l	29.9	76.5	49.7	13.2
Beryllium	4	ug/l	BDL	BDL	107	72.2
Bicarbonate Alkalinity		mg/l	2880	_	BDL	BDL
Cadmium	5	ug/l	BDL	762	943	7680
Calcium	1	ug/l	95700	0.54	BDL	BDL
Carbonate Alkalinity		mg/l		152000	252000	173000
Chloride	250*	- 1	BDL	BDL	BDL	BDL
Chromium	100	mg/l	43	BDL	BDL	65.7
Cobalt	100	ug/l	4.2	9.5	BDL	BDL
Copper	1000*	ug/1	BDL	7.1	10.1	8.0
ron	300*	ug/l	BDL	BDL	BDL	BDL
∠ead	15	ug/l	8620	95100	38700	51100
Magnesium	15	ug/l	BDL	BDL	BDL	BDL
Mercury	2	ug/l	20700	72400	44200	51300
Nickel	100	ug/l	BDL	BDL	BDL	BDL
Vitrate .	100	ug/l	BDL	BDL	BDL	BDL
Vitrite	10	mg/l	BDL	BDL	BDL	0.004
litrogen- NO3/NO2		mg/l	BDL	0.256	0.072	BDL
otassium		mg/l	BDL	BDL	0.057	0.004
elenium		ug/l	BDL	3800	6800	2000
ilver	50	ug/l	BDL	BDL	BDL	BDL
odium	*001	ug/l	BDL	BDL	BDL	BDL
ulfate	000001	ug/l	23900	78300	44700	85900
	250*	mg/l	15.7	BDL	BDL	BDL
hallium	2	ug/l	BDL	BDL	BDL.	BDL
otal Alkalinity	ļ	mg/l	2880	762	943	7680
otal Ammonia-N	2.8	mg/l	0.079	16.9	14.9	9.9
otal Dissolved Solids (TDS)	500*	mg/l	386	854	982	876
anadium	49	ug/l	12.7	8.9	BDL	6.7
inc	5000*	ug/l	BDL	BDL	12.1	BDL
rganics						
cetone	700	ug/l	BDL	BDL	BDL	BDL
crylonitrile	8	ug/l	BDL	BDL	BDL	BDL
enzene	. 1	ug/l	BDL	BDL	BDL	BDL
romochloromethane_		ug/1	BDL	BDL	BDL	BDL
romoform	4	ug/J	BDL	BDL	BDL	BDL.
omodichloromethane	0.8	ug/l	BDL	BDL	BDL	BDL
omomethane	10	ug/l	BDL	BDL	BDL	BDL
Butanone	4200	ug/l	BDL	BDL	BDL	BDL

					ficial Aquifer	Wells
		Well;	MW-1R	MW-8A	MW-9	MW-10R
Analyte						
		late of Test:	10/26/2009	10/26/2009	10/26/2009	10/26/2009
	Standard (f)	Units				
Carbon disulfide	700	ug/l	BDL	0.71	BDI.	BDL
Carbon tetrachloride	3	ug/l	BDL	BDL	BDL	BDL
Chlorobenzene _	001	ug/l	BDL	BDL	BDL	BDL
Chloroethane	140	ug/l	BDL	BDL	BDL	BDL
Chloromethane	5	ug/1	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/t	BDL	BDL,	BDL	BDL
cis-1,3-Dichloropropene	1	ug/1	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	Į į	ug/l	BDL	BDL	BDL	BDL
4-Methlyl-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/1	BDL	BDL	BDL	BDL
Toluene	1000	ug/l	BDL	BDL	BDL	BDL
Tribromomethane		ug/l	BDL	BDL	BDI.	BDL
I.1.1-Trichloroethane	200	ug/I	BDL	BDL	BDL	BDL
1.1.2-Trichloroethane	5	ug/l	BDL	BDL	BDL	BDL
Trichloroethene	3	ug/i	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/I	BDL	BDL	BDL	BDL
Vinyl acetate	250	ug/l	BDL	BDL	BDL	BDL
Vinyl chloride	1	ug/1	BDL	BDL	BDL	BDL
Fotal xylenes	10000	ug/l	BDL	BDI.	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.

				Goundw	Table ater Anal	2-15 ytical Sum	marv					
				Gound	First Ha		шаг у					 -
				L						1	T	
						cial Aquifer					·	'
A moleuto		Well:	MW-1R	MW-8A	MW-9	MW-10R	MW- 15	MW-16	MW- 17	MW-18	MW-19	MW
Analyte	<u> </u>	Date of Test:	5/11/2010	5/10/2010	5/10/2010	5015010	5/12/2010	4//4 1974 19	4	<u> </u>	<u> </u>	ļ
	Standard ^(f)	Units	3/11/2010	3/10/2010	3/10/2010	5/11/2010	5/12/2010	5/13/2010	5/13/2010	5/12/2010	5/12/2010	5/12/2
Field Measurements	3741134	Onis		· -	L	L	<u> </u>	<u> </u>	<u> </u>		<u> </u>	
Temperature	T	degrees C	25.0	26.8	26.0	24.4	24.3	24.0	24.7	22.0	1 242	Т
рН	6.5-8.5*	STD	6.74	6.23	6.43	6.25	6.34	6.23	6.18	23.8 6.26	24.2 5.95	6,4
Conductivity		umhos/cm	520	1387	1382	1502	3790	3000	1271	859	610	146
Dissolved Oxygen (DO)	ļ	mg/l	0.16	0.12	0.2	0.099	0.743	0.51	0.61	0.35	0.57	0.48
Turbidity Inorganics	<u> </u>	NTU	6.8	2.7	2.4	3.1	1.2	8.8	7.9	10.6	9.4	15.
Aluminum	200*					1						
Antimony	6	ug/l	NA BDL	BDL	NA BDL	NA BDL	NA BDL	NA DDI	435	NA	2830	NA.
Arsenic	10	ug/l	BDL	43.7	35.0	10.1	47.3	BDL 40.7	BDL 70.0	BDL BDL	BDL	BDI
Barium	2000	ug/l	28.1	59.7	96.5	62.5	228	95.4	70.0 96.4	33.6	42.2 36	76.7 165
Beryllium	. 4	υg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.1
Bicarbonate Alkalinity	_ i	mg/I	233	869	909	707	7680	1110	687	554	299	859
Cadmium Calcium	5	ug/l	BDL	BDI.	BDI.	BDL	BDL	BDL	BDL	BDL	BDL	BDI
Carbonate Alkalinity	1	ug/l mg/l	83600 BDL	201000 BDL	292000 BDL	184000	790000	252000	219000	199000	50700	25000
Chloride	250*	mg/l	23.6	38.9	BDL	BDL 65.9	BDL 132	BDL 305	BDL.	BDL	BDL	BDI
Chromium	100	ug/I	BDI.	5.6	BDL.	BDL	BDL	3.7	75.9 3.9	i.3 BDL	12.2 8.2	95.2
Cobalt	, i	ug/l	BDL	5.9	BDL	5.1	19.3	9.2 8.5	BDL BDL	BDI.	BDI.	9.4
opper	1000*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BD1.	BDL	BDI.	BDL
ronead	300*	υg/l	4120	60300	39100	55700	46900	55900	105000	28100	63300	5820
Magnesium	15	ug/l ug/l	BDL 15800	BDL 70700	BDL	BDL	BDL	BDL	BDL	BDL	BDL	15.9
Manganese	50*	ug/I	NA	NA NA	46300 NA	49400 NA	166000 1 010	91000 10.8	16100	17900	18300	76200
dercury	2	ug/I	BDL	BDL	BDL	BDL	BDL	BDL	NA BDL	NA BDL	NA BDL	NA DDI
Sickel	100	ug/I	BDL	BDL	BDL	BDL	8.0	BDL	BDL	BDL	2.5	BDL 14.7
Vitrate	10	mg/I	BDL	0.01	BDL	0.013	BDL	BDL	BDL	BDL	BDL	BDL
Vitrite Vitrogen- NO3/NO2	1	mg/l	0.005	BDL	0.004	BDL	0.057	0.045	0.04	BDL	0.007	0.011
otassium		mg/l (ug/l	0.005 3700	0.01 4900	0.005	0.013	0.085	BDL	BDL	BDL	BDL	BDL
elenium	50	ug/I	BDL	BDI,	6600 BDL	1800 BDL	25200 BDL	7200 DIM	7200	820	3800	1800
ilver	100*	ug/I	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL BDL	BDL	BDL BDL	BDL BDL
odium	160000	ug/l	22100	74100	41300	81700	69900	256000	61200	5000	23900	113000
ulfate	250*	mg/l	9.8	BDL	2.7	BDL	639	BDL	BDL	BDL	BDL	BDL
hallium otal Alkalinity	2	υg/I	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDI.	BDL	BDL
otal Ammonia-N	2.8	mg/l mg/l	233 0.066	869 12.5	909 13.7	707	7680	1110	687	554	299	859
otal Dissolved Solids (TDS)	500*	mg/l	381	982	1020	7.1 858	4.1 3540	12.5 1830	25.1 948	1.3 605	22.4	3.2
anadium	49	ug/I	7.3	5.8	BDL	BDL	7.9	8.2	BDL	BDL	71 0 16.0	1180 65.6
inc	5000*	ug/I	BDL	18.1	BDL	13.3	BD1.	BDL	BDL	BDL	BDL	13,4
rganics					· · · · · · · · · · · · · · · · · · ·		***					
cetone crylonîtrile	700	ug/l	BDL	BDL	BDL	BDL	8.3	BDI.	BDL	BDL	BDL	BDL
enzene	- 8	ug/l	BDL BDL	BDL BDI.	BDL BDL	BDL	BDI,	BDL	BDL	BDL	BDL	BDI.
is(2-ethylhexyl)phthalate	6	ug/i ug/i	NA NA	NA NA	NA NA	BDI, NA	BDL	BDL BDL	BDL	BDL	BDI.	BDL
romochloromethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDI.	BDL BDL	BDI. BDL	BDL
romoform	4	ug/l	BDL	BDL	BDL	BDL	BDL	BDL.	BDL.	BDL	BDL	BDI.
romodichloromethane	0.8	ug/l	BDL	BDL	BDL	BDL	BDI.	BDL	BDL	BDL	BDL	BDL
romomethane Butanone	10	ug/l	BDL	BDI.	BDL	BDI,	BDL	BDL	BDL	BDI.	BDL	BDL
arbon disulfide	700 700	ug/l	BDL 0.54	BDI,	BDL	BDL	BDL	BDL	BDI.	BDL	BDL	BDL
arbon tetrachloride	3	ug/l ug/l	BDL BDL	BDL BDL	BDL BDL	BDL BDL	0.90 BDL	0.57 BDL	0.61	0.68	BDL	BDL
nlorobenzene	100	ug/l	BDL	BDL	BDL	BDI.	BDL	BDL	BDL	BDL BDL	BDL BDL	BDL
iloroethane	140	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL
loromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDI.	BDL	BDL	BDL	BDL
bromochloromethane bromochloropropane	1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDI.	BDL	BDL
bromocnioropropane bromomethane		ug/l	BDL BDI.	BDL BDL	BDL	BDI.	BDL	BDL	BDI.	BDL	BOL	BDL
chloromethane	5	ug/l ug/l	BDL BDL	BDL BDL	BDL	BDL	BDL BDL	BDI.	- BDL	BDL	BDL	BDL
hylene dibromide	0.02	ug/l	BDL	BDL	BDL	BDL	BDL.	BDL BDL	BDL BDI.	BDI.	BDL	BDL
2-Dibromo-3-chloropropane	0.2	ug/l	BDL	BDL.	BDL.	BDL	BDL	BDL	BDL BDL	BDL BDL	BDL BDL	BDL
2-Dichlorobenzene	600	ug/l	BDL	BDI.	BDL	BDL	BDL -	BDL	BDL	BDI.	BDL	BDL BDL
-Dichlorobenzene	75	ug/I	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL.	BDL	BDL
Pichlorosthera											·	
-Dichloroethane	700	ug/1	BDI.	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
-Dichloroethane	3 7	ng/I	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
-1,2-Dichloroethene	70	n8\J	BDI.	BDL BDL	BDL BDI,	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL
ns-1,2-Dichloroethene	100	ug/I	BDL.	BDL	BDL BDL	BDL	BDL BDL	BDL BDL	BDL BDL	BDL	BDL	BDL

					Surfic	ial Aquifer	Wells					
Amaluta		Well:	MW-1R	MW-8A	MW-9	MW-10R	MW- 15	MW-16	MW- 17	MW-18	MW-19	MW-20
Analyte	- r	ate of Test;	5/11/2010	funnain			···					
	Standard ⁽¹⁾	Units	3/11/2010	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
1,2-Dichloropropane	5	ug/l	BDL	BDL	BDL	BDL	Dbr	557				
cis-1,3-Dichloropropene	1 1	ug/J	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BD1.	BDL	BDL
trans-1,3-Dichloropropene	1 1	ug/l	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL	BDL	BDL	BDI.	BDL	BDI,	BDL	BDL	BDL
Ethylbenzene	700	ug/l	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Hexanone	10,0	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Iodomethane	1 :	· ·	BDL.		BDL	BDI.	BDI.	BDL	BDI.	BDL	BDL	BDL
4-Methlyl-2-pentanone	350	ug/I		BDL	BDL	BDL	BDF	BDL	BDL	BDL	BDL	BDL
Styrene	100	ug/I	BDL	BDL	BDL	BDL	BDL	BD1.	BDL	BDL	BDL	BDL
1,1,1,2-Tetrachloroethane	1 100	ug/l	BDI.	BDL	BDL	BDL	BDI.	BDL	BDI.	BDL	BDI.	BDL
1,1,2,2-Tetrachloroethane	0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDI.
Fetrachloroethene	1 1	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDI,	BDL	BDL
Foluene	3	ug/I	BDI.	BDL	BDL	BDL	BDL	BDL	BDI.	BDL	BDI.	BDL
Pribromomethane	1000	ug/l	BDL	0.68	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDI.
,1,1-Trichloroethane		ug/l	BDL	BDL	BD1.	BDL	BDL	BDL	BDL	BDI.	BDL	BDL
1,1,2-Trichloroethane	200	ug/I	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	5	ug/l	BDJ.	BDL	BDL	BDI.	BDL	BDL	BDL	BDL	BDL	BDI.
Trichloroethene	3.	ng/l	BDL	BDL	BDL	BDL	BDL	BDI.	BDL	BDL	BDL	BDL
richloromethane	6	ug/i	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
richlorofluoromethane	2100	ug/l	BDL	BDL	BDL	BDL	BDI.	BDL	BDI.	BDL	BDI.	
,2,3-Trichloropropane	42	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL
inyl acetate	250	บg/I	BDL	BDL	BDI.	BDL	BDL	BDL	BDL	BDI.	BDL	
inyl chloride]. 1	ug/l	BDL	BDL	BDI,	BDL	BDL	BDL	BDL	BDL	100	BDL
Total xylenes	10000	ug/I	BDL	BDL	BDL	BDL	BDL	BDL.	BDL	BDI.	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; unhos/cm = microchms per centimeter; mg/l = mitigrams per liter; NTU = nephelometric turbidity units; ug/l = micrograms per liter; NA = Not analyzed.

Table 2-16 Groundwater Analytical Summary Second Half 2010

		Wei	MW-IR	MW-8A	MIV-9	MW-10R	MW-15	MW-16	MW-12	SEW-18	MW-19	MVV-2D
Analyte		Date of Test	10/18/10									
	Standard (1		10/18/10	10/14/10	10/14/10	10/18/10	10/14/10	1.0/15/10	10/15/10	10/18/10	10/18/10	1,0/1,8/10
Field Measurements Temperature												
Turbidity			25 84	26 86 2 35	29 07 1 0	28 04 L 13	27 3 19 9	26 3 16 4	26 0 12 1	25 9 14	27 3 7	30 4
pH	6 5-8 5*	STD	661	6,30	6.45	6.17	6.29	6.32	6.20	6.29	6.08	6.58
Conductivity Dissolved Oxygen (DO)		umhos/cm	562 0 13	2005	2099	1656	3750	2713	1628	1268	823	2372
Inorganics		mg/l	013	0 22	0.11	014	0.205	0 731	0 77	0.48	0 92	0 65
Aluminum	200	แล้ง	NA	NA	NA	NA	NA	NA	NA	NA	471	NA
Antimony Arsenic	6 10	սց/I սց/I	BDL BDL	BDL 38.6	BDL 43.2	BDL 11.3	BDL 48.6	BDL 48.5	BDL 65.5	BDL	BDL	BDL
Barium	2000	ug/l	34 8	65 8	117	73 3	256	119	110	10.3 75 1	38.0 36.9	55.6 105
Beryllium Bicarbonate alkalinity	4	ug/l	BDL	BDL	BDL	BDL	BDI.	BDL	BDL	BDL	BDL	BDL
Cadmium	5	mg/l ug/l	NA BDL	1020 BDL	1030 BDL	700 0 64	NA BDL	NA 0 68	785 0 63	710 BDL	NA 0.54	NA BDL
Carbonate Alkalimity		mg/1	NA	BDL	BDL	BDL	NA	NA	BDL	BDL	NA	NA NA
Calcium Chloride	250*	ug/l mg/l	82000 35 1	253000 29 2	342000	178000	725000	234000	213000	246000	64600	255000
Chromium	100	ug/i	BDL	27	38 7 BDL	70.5 BDL	131 BDL	317 38	68 5 3 2	16 4 18 2	12 7	86 0 BDL
Cobalt		ug/l	BDL	BDL	20 4	BDL	38 9	BDL	BDL	BDL	BDL	BDL
Copper Cyanide	1000*	w&\ nfr\	BDL BDL	BDL NA	BDL	BDL	BDL	BDL	BDL	40	BDL	BDL
ron	300*	ug/l	6550	37700	NA 39200	NA 52900	BDL 49600	BDL 62000	NA 116000	NA 37100	76000	BDL 38900
Lead	15	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7 2	BDL	BDL
Magnesium Manganese	50*	ug/l ug/l	12800 NA	77700 NA	57400 NA	48600	164000	84000	18200	27600	22000	86600
Mercury	2	ug/l	BDL	BDL	BDL	NA BDL	995 BDL	NA BDL	NA BDL	NA BDL	NA BDL	NA BDL
vickel Vitrate	100	ug/l	BDL	BDL	BDL	BDL	17 2	BDL	BDL	5 1	16	109
vitrate Vitrite	10	mg/l mg/l	0 0 1 4 BDL	0 0 I BDL	0 011 BDL	BDL BDL	BDL	BDL	001	NA	NA	NA
Nitrate-Nitrille		mg/l	0 014	0 01	0 011	BDL	0 042 BDL	0 011	BDL 0 0 1	NA NA	NA NA	NA NA
Potassium Selenium		ug/l	1000	5100	6000	1700	22400	6700	6500	1500	2500	1100
Silver	50 100*	ug/l ug/l	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL BDL	BDL	BDL	BDL
odium	160000	ug/l	18200	62900	43900	87400	77500	275000	64600	BDL 9200	BDL 18500	BDL 110000
olfate otal Ammonia - N	250*	mg/1	7.2	BDL	BDL	BDL	392	BDL	BDL	BDL	49	27 4
hallium	28	mg/1 ug/l	0 10 BDL	25.5 BDL	17.3 BDL	8.4 BDL	5.0 BDL	20.4 BDL	25,2 BDL	23 BDL	12.5 BDL	2.6
in as SN		ug/l	BDL	NA	NA	NA	BDL	BDL	NA NA	NA NA	BDL	BDL BDL
otal Alkalinity otal Dissolved Solids (TDS)	500*	mg/l mg/l	NA 397	1020 1090	970	700	NA	NA	785	710	NA	NA
otal Sulfide		mg/l	BDL	NA	1160 NA	904 NA	2810 8	1630 2 I	910 NA	746 NA	497 BDL	1350 I 6
'anadium	49	սց/1	5 2	BDL	BDL	BDL	BDL	10.4	BDL	21 7	89	BDL
inc Esticides & Herbicides	5000*	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
,4-D		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
,4,5-T & 4 methylphenol		ug/l	BDL BDL	NA NA	NA NA	NA NA	BDL	BDL	NA	NA	BDL	BDL
-BHC		ug/l ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL BDL i
ldrin -BHC		ug/J	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
hlordane		ug/l ug/l	BDL BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA	BDL	BDL
-BHC		ug/l	BDL	NA	NA	NA	BDL	BDL	NA NA	NA NA	BDL BDL	BDL BDL
ieldrin inoseb		ug/I	BDL	NA.	NA	NA	BDL	BDL	NA	NA	BDL	BDL
ndosulfan Sulfate	ł	ug/l ug/l	BDL BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL
ndosulfan-I		ug/1	BDL	NA	NA	NA	BDL	BDL	NA	NA NA	BDL	BDL BDL
ndosulfan-II ndrin		ug/l	BDL BDL	NA NA	NA NA	NA	BDL	BDL	NA	NA	BDL	BDL
ndrin Aldehyde	1	ug/l ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	8DL 0 011	NA NA	NA NA	BDL BDL	BDL BDL
-BHC(Lindane)		og/l	BDL	NA	NA	NA	BDL	BDL	NA NA	NA	BDL	BDL
eptachlor eptachlor Epoxide	1	ug/l ug/l	BDL BDL	NA NA	NA NA	NA	BDL	BDL	NA	NA	BDL	BDL
ethoxychlor		ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL BDL
CB-1016		ոճ/լ	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
CB-1221 CB-1232	ł	ug/i ug/i	BDL BDL	NA NA	NA NA	NA NA	BDL	BDL	NA	NA	BDL	BDL
CB-1242		ug/l	BDL	NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL BDL
B-1248		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
7B-1254 7B-1260	ı	ug/l ug/l	BDL BDL	NA NA	NA NA	NA NA	BDL BDL	BDL	NA	NA	BDL	BDL
P-DDD		ug/l	BDL	NA .	NA	NA NA	BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL BDL
P-DDE		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
LDDT TOOL	ļ		י ים פ	NA	NA	NA	BDL BDL	BDL BDL	NA NA	NA	BDL	BDL BDL
P-DDT Ivex		սց/հ	BDL BDL		NA I						nn I	
lvex oxaphene			BDL BDL BDL	NA NA	NA NA	NA NA	BDL	BDL	NA NA	NA NA	BDL BDL	
lvex exaphene eganics: Acid Extractables		ng/l ug/l ug/l	BDL BDL	NA NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
lvex oxaphene		በቆህ በቆህ በሻህ በሻህ	BDL	NA NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL BDL
lvex sxaphene ganies, Acid Extractables [] [] [] [] [] [] [] [] [] [n&\ n&\ n&\ n&\ n\ n\ n\	BDL BDL BDL BDL BDL BDL	NA NA NA NA NA	NA NA NA NA	NA NA NA NA	BDL BDL BDL BDL	BDL	NA	NA	BDL	BDL
lvex pxaphene ggatics; Acid Extractables 1,6-Trichlorophenol 1,5-Trichlorophenol 1,5-Trichlorophenol 1-Dichlorophenol		ug/l ug/l ug/l ug/l ug/l ug/l	BDL BDL BDL BDL BDL BDL BDL	NA NA NA NA NA NA NA	NA NA NA NA NA	NA NA NA NA NA	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	NA NA NA NA NA	NA NA NA NA NA	BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL
lvex sxaphene ganies, Acid Extractables [] [] [] [] [] [] [] [] [] [n&\] n\&\] n\&\] n\&\] n\&\] n\&\] n\&\] n\&\] n\&\] n\&\]	BDL BDL BDL BDL BDL BDL	NA NA NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL	NA NA NA NA NA NA	NA NA NA NA NA NA	BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL
Ivex symphene ganiles, Acid Eviractables 3,4,6-Terrachlorophenol 1,5-Trichlorophenol 1-Dichlorophenol 1-Dimethylphenol 1-Dimitrophenol 5-Dichlorophenol 5-Dichlorophenol		ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA NA NA NA NA	NA NA NA NA NA	BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL	NA NA NA NA NA	NA NA NA NA NA	BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL
Ivex xaphene gantics: Acid Extractables 1,6-Trichlorophenol 1,4,6-Tetrachlorophenol 1-Dichlorophenol 1-Dimethylphenol 1-Dimitrophenol 5-Dichlorophenol Cidorophenol		ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	NA NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA NA NA NA	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL	NA NA NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA NA NA NA NA N	BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL
Ivex symphene ganiles, Acid Eviractables 3,4,6-Terrachlorophenol 1,5-Trichlorophenol 1-Dichlorophenol 1-Dimethylphenol 1-Dimitrophenol 5-Dichlorophenol 5-Dichlorophenol		ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1 ug/1	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA NA NA NA NA NA NA NA NA NA NA NA NA N	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA NA NA NA NA NA NA NA NA NA NA NA NA N	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL
Ivex xaphene gantes: Acid Extractables 1,6-Trichlorophenol 1,5-Trichlorophenol 1,5-Trichlorophenol 1-Dichlorophenol 1-Dimethylphenol 1-Dimethylphenol 1-Dinitrophenol Chlorophenol Chlorophenol Chlorophenol Methylphenol		ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA NA NA NA	BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL	NA NA NA NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA NA NA NA NA N	BDL BDL BDL BDL BDL BDL BDL BDL BDL	BDL BDL BDL BDL BDL BDL BDL BDL

Analyte	Standard(1)	Well Date of Test Units		MW-8A 10/14/10	10/14/10	MW-10B				MW-18 19/18/10	MW-19 10/18/10	MW-20
4-Nitrophenol Pentachlorophenol		ug/l ug/l	BDL BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL	BDL
Phenol Base Neutrals		ug/l	BDL	NA	NA NA	NA	BDL	BDL	NA	NA.	BDL BDL	BDL BDL
1,2,4,5-Tetrachlorobenzene	<u>Sada ha haqardinda ga</u>	ug/l	BDL	NA NA	NA	NA	BDL	BDL				
1,2,4-Trichlorobenzene		ug/l	BDL	NA.	NA.	NA NA	BDL	BDL	NA NA	NA NA	BDL BDL	BDL
1,3,5-Trinitrobenzene 1,3-Dinitrobenzene		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA.	BDL	BDL BDL
-Methylnaphthalene		ug/l ug/l	BDL BDL	NA NA	NA NA	NA NA	BDL	BDL	NA	NA .	BDL	BDL
.4-Naphthoquinone		ug/i	BDL	NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL
-Naphthylamine ,4-Dinitrotoluene		ug/l	BDL	NA	NA	NA	BDL	BDL	NA	NA I	BDL	BDL BDL
,6-Dinitrotoluene		ug/l ug/l	BDL BDL	NA NA	NA NA	NA	BDL	BDL	NA	NA	BDL	BDL
-Acetylaminoflourene		ug/l	BDL	NA.	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL	BDL
-Chloronaphthalene -Methylnaphthalene		ug/l	BDL	NA	NA	NA	BDL	BDL	NA NA	NA NA	BDL BDL	BDL BDL
-Naphthylamine		ug/l	BDL BDL	NA NA	NA NA	NA NA	BDL	BDL	NA	NA	BDL	BDL
-Nitroaniline		ug/l	BDL	NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL
,3-Dichlorobenzidine ,3-Dimethylbenzidine		սը//	BDL	NA	NA	NA	BDL	BDL	NA.	NA I	BDL BDL	BDL BDL
-Methylcholanthrene	ĺ	ug/l ug/l	BDL BDL	NA NA	NA NA	NA	BDL	BDL	NA	NA.	BDL	BDL
Nitroaniline		ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL	BDL
-Aminobiphenyl -Bromophenyl-phenylether		ug/l	BDL	NA	NA	NA	BDL	BDL	NA I	NA NA	BDL BDL	BDL BDL
Chloroaniline		սց/I սջ/I	BDL BDL	NA NA	NA NA	NA	BDL	BDL	NA .	NA	BDL	BDL
Chlorophenylphenylether		ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA I	BDL	BDL
Nitronaline Nitro-o-toluidine	i	ug/l	BDL	NA	NA	NA	BDL	BDL	NA NA	NA NA	BDL BDL	BDL BDL
12-Dimethylbenz(a)anthracene		nā\]	BDL BDL	NA NA	NA NA	NA NA	BDL	BDL	NA	NA	BDL	BDL
cenaphthene	İ	ug/i	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL
cenaphthylene retophenone		ug/l	BDL	NA	NA	NA .	BDL	BDL	NA	NA I	BDL	BDL BDL
nthracene		ug/l ug/l	BDL BDL	NA NA	NA NA	NA NA	BDL BDL	BDL	NA	NA	BDL	BDL
enzo(a)anthracene	1	ug/l	BDL	NA	NA	NA	BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL BDL
enzo(a)pyrene enzo(b)flouranthene		սջ/l ս <u>ք</u> /l	BDL BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
:nzo(g,h,i)perylene	1	ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA	NA	BDL	BDL
nzo(k)flouranthene nzyl alcohol		ug/J	BDL	NA	NA	NA	BDL	BDL	NA NA	NA NA	BDL BDL	BDL BDL
s(2-chloroethoxy)methane	ĺ	υg/l ug/l	BDL BDL	NA	NA	NA	BDL	BDL	NA .	NA	BDL	BDL
s(2-chloroethyl)ether]	ug/ī	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA	BDL	BDL
s(2-chloro-1-methylethyl)ether s(2-ethylhexyl)phthalate		ug/l	BDL	NA	NA	NA	BDL	BDL	NA NA	NA NA	BDL BDL	BDL BDL
tylbenzylphthalate		ug/l	BDL BDL	NA NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
lorobenzilate		ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA	BDL	BDL
rysene illate		ug/l	BDL	NA	NA	NA	BDL	BDL	NA NA	NA NA	BDL BDL	BDL BDL
penz(a,h)anthracene		սց/1 սջ/I	BDL BDL	NA NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL
penzofuran	1	ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA	BDL	BDL
thylphthalaie nethoaie		ug/1	BDL	NA	NA	NA	BDL	BDL	NA NA	NA NA	BDL BDL	BDL BDL
nethylphthalate		ug/l ug/l	BDL BDL	NA NA	NA NA	NA	BDL	BDL	NA	NA	BDL	BDL
N-butylphthalate	1	ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA	BDL	BDL
N-octylphthalate ulfoton		ug/l	BDL	NA	NA	NA	BDL	BDL	NA NA	NA NA	BDL BDL	BDL BDL
ylmethanesulfonate	[ug/l ug/l	BDL BDL	NA NA	NA NA	NA	BDL	BDL	NA	NA	BDL	BDL
1phur	ł	ug/l	BDL	NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA NA	BDL	BDL
uranthene urene		ug/l	BDL BD1	NA .	NA	NA	BDL	BDL	NA NA	NA NA	BDL BDL	BDL BDL
achlorobenzene		ug/J	BDL	NA NA	NA NA	NA NA	BDL BDL	BDI,	NA	NA	BDL	BDL
achlorobutadiene		ug/l	BDL	NA	NA	NA	BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL
achlorocyclopentadiene achloroethane		ug/l ug/l	BDL BDL	NA	NA	NA	BDL	BDL	NA	NA	BDL	BDL BDL
ylchloropropene	İ	ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL	NA	NA	BDL	BDL
no(1,2,3-cd)pyrene		ug/l	BDL	NA	NA	NA	BDL	BDL BDL	NA NA	NA NA	BDL BDL	BDL BDL
horone		ug/l ug/l	BDL BDL	NA I	NA	NA	BDL	BDL	NA		BDL	BDL
afrole	ł	υ <u>α</u> /l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA		BDL	BDl.
one hapyrilene		ug/l	ND	NA	NA	NA	ND	ND	NA NA	NA NA	BDL ND	BDL ND
nyl parathion		սջ/I սջ/I	BDL BDL	NA NA	NA NA	NA	BDL	BDL	NA		BDL	BDL
nylmethanesulfonate	- 1	ug/i	BDL	NA	NA NA	NA NA	BDL BDL	BDL BDL	NA		BDL	BDL
hthalene obenzene		ug/l	BDL	NA	NA	NA	BDL	BDL	NA NA			BDL BDL
trosodiethylamine	ĺ	ug/l ug/l	BDL BDL	NA	NA	NA	BDL	BDL	NA		f	BDL
trosodimethylamine	ļ	ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL	NA		BDL	BDL
trosodi-n-butylamine		ug/l	BDL	NA	NA	NA NA	BDL	BDL BDL	NA NA			BDL
troso-di-n-propylamine trosodiphenylamine	- 1	ug/J	BDL	NA	NA	NA	BDL	BDL	NA			BDL BDL
trosoethylmethylamine		ug/l	BDL BDL	NA NA	NA NA	NA NA	BDL	BDL	NA	NA 1	BDL	BDL
trosopiperidine	ĺ	ug/l	BDL	NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA			BDL
trosopyrrolidine Triethylphosphorothioate		-	BDL	NA	NA	NA	BDL	BDL	NA NA	I		BDL BDL
o-toluidine		- 1	BDL BDL	NA NA		NA NA		BDL	NA	NA [3DL I	BDL
Phenylenediamine			BDL	NA NA		NA NA		BDL BDL	NA NA		BDL I	BDL
Parathion nethlaminoazobenzene		ug/i	BDL	NA	NA	NA		BDL BDL	NA NA			BDL BDL
chlorobenzene	1		BDL BDL	NA NA		NA .	BDL	BDL	NA			BDL
chloronitrobenzene			BDL	NA NA			_	BDL BDL	NA NA	NA B	IDL E	BDL
icetin	1	սջ/	BDL	NA	. 1	- 1		BDL BDL	NA			BDL
mathrene			BDL	NA	NA	na j	DUL	DVL I	NA	NA B	IDL E	BDL

		Well	MW-IR	MW-8A	MW-9	MW-10R	MW-13	MW-16	MW 17	MW-18	31W-19	MW-20
A trally te	Standard()	Date of Test	19/18/10	10/14/10	10/14/10	10/18/10	[0/14/[0	10/15/10	10/15/10	10/18/10	10/18/10	10/18/10
Pronamide	: Saintalati		PP PP									
Pyrene	1	ug/l ug/l	BDL BDL	NA NA	NA NA	NA NA	BDL	BDL	NA	NA	BDL	BDL
Safrole	i	ug/l	BDL	NA NA	NA NA	NA NA	BDL BDL	BDL BDL	NA NA	NA	BDL	BDL
Thionazin		ug/i	BDL	NA NA	NA NA	NA NA	BDL	BDL	NA NA	NA NA	BDL	BDL
Volutile Organics								BDL	NA.	NA	BDL	BDL
1,1,1,2-Tetrachloroethane	1	u <u>u</u> /l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	200	սջ/I	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	0 2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dibromo-3-chloropropane	5 0.2	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
I,1-Dichloroethane	700	ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichlorgethene	7	ug/i ug/i	BDL	BDL 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	BDL	BDL	BDL
1,2,3-Trichtoropropane	42	սբ/1	BDL	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	BDL	BDL
1,2-Dichloroethane	3	սջ/1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL BDL
1,2-Dichloropropane	5	ug/1	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 1,4-Dichlorobenzene	7.5	սե/յ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,2-Dichloropropane	75	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Butanone	4,200	ug/l	BDL BDL	BDL	BDL	BDL	BDL	BĎL	BDL	BDL	BDL	BDL
2-Hexanone	1,200	ug/i ug/l	BDL	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4-Methlyl-2-pentanone	350	սջ/1	BDL	BDL	BDL BDL	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acetone	700	ug/l	BDL	BDL	BDL	BDL	BDL 5.2	BDL	BDL	BDL	BDL	BDL
Acetonitrile	8	ug/l	BDL	BDL	BDL	BDL	BDL	5 6 BDL	BDL BDL	BDL BDL	5.7	61
Acrolein		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL
Acrylonitrile	i	vg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL BDL
Allyl chloride		սբ/1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene Bromochloromethane	! !	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane	4	ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromomethane	8	ug/t	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon disulfide	700	ug/l ug/l	BDL 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	BDL	BDL
hlorobenzene	100	ug/l	BDL	BDL	BDL	BDL BDL	BDL BDL	BDL	BDL	BDL	BDL	BDL
hloroethane	140	ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL BDL	BDL	BDL	BDL
Chloromethane	5	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL BDL	BDL
hloroprene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL
is-1,2-Dichloroethene	70	սց/Լ	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
is-1,3-Dichloropropene	! !	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane Dibromochloropropane	5	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
Dichlorodiflouromethane		ug/l ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Pichloromethane	5	ug/l	BDL	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
thyl methacrylate	1	ug/l	BDL	BDL	BDL BDL	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL
thylbenzene	700	ug/l	BDL	BDL	BDL	BDL	BDL BDL	BDL	BDL	BDL	BDL	BDL
thylene dibromide	0 02	ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL BDL	BDL BD L	BDL	BDL
odomethane	i	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL
sobutyl Alcohol		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL
lethacrylonitrile	- 1	սջ/1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL
lethyl methacrylate		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
ropionitrile tyrene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1.4-Dichloro-2-butene	100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
etrachloroethene	3	ug/l	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
oluene	1000	սը/I -	BDL	BDL	BDL 0 98	BDL	BDL	BDL	BDL	BDL	BDL	BDL
otal Xylenes	10000	ug/l	BDL	BDL BDL	BDL	BDL BDL	BDL	BDL	BDL	BDL	BDL	BDL
ans-1,2-Dichloroethene		ug/l	BDL	BDL	BDL	BDL	BDL BDL	BDL	BDL	BDL	BDL	0.58
ans-1,3-Dichloropropene		ug/l	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL	BDL	BDL	BDL
ribromomethane		ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL	BDL	BDL
richloroethene	3	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL	BDL BDL	BDL
ichlorofluoromethane	2100	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL BDL
richloromethane	6	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
inyl acetate inyl chloride	250	ug/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2 diphenylhydrazine	ı	ug/l ug/l	BDL BDL	BDL BDL	BDL	BDL	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 posterides and semi-volatiles unless the parameter was detected at least once.

* Secondary - Company 1975 - Compa

• = Secondary standard

Abbreviations HDL = below detection limits, mg/l = milligranis per liter, ug/l = micrograms per liter, NTH = nepholometric 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	09/11/08	99/11/08
Field Measurements				
Temperatrue		deg. C	27.5	26.75
рН]	STD	6.2	6.6
Conductivity	1 1	umhos/cm	80	231
Dissolved Oxygen (DO)]]. 1	mg/1	5.31	6.5
Turbidity	29	NTU	8.7	5.5
Inorganics	The state of the s			a la company de la company de la company de la company de la company de la company de la company de la company
Ammonia		mg/l	NA	NA
Antimony	4300	ug/l	BDL	BDL
Arsenic	50	ug/l	BDL	2.6
Barium	1	ug/l	8.9	16
Beryllium Bioghanata Albaliaina	0.13	ug/l	BDL	BDL
Bicarbonate Alkalinity	4	mg/l	7.2	32
Biochemical Oxygen Demand (BOD) Cadmium	Note 2	mg/l	4.2	2.3
Calcium	Note 2	ug/l	BDL	BDL
Carbonate Alkalinity	1 1	ug/l mg/l	6300 BDL	22000 PDI
Chemical Oxygen Demand (COD)	1 1	mg/l	110	BDL 120
Chlorophyll A	·}	mg/m3	7.8	4.4
Chromium	Note 3	ug/l	BDL	BDL
Cobalt	1	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	<u> </u>	mg/l	0.21	0.18
Nitrite as N	1	mg/l	0.005	0.008
Nitrogen, Nitrate-Nitrite Potassium	1	mg/l	0.22	0.19
Selenium	5.0	ug/l	2700	7500
Silver	0.07	ug/l	BDL	BDL
Sodium	250000	ug/l ug/l	BDL 4700	BDL
Sulfate	250000	ug/l	2.7	12000 24
Thallium	6.3	ug/l	BDL	BDL
Total Alkalinity	1 3.5	mg/l	7.2	32
Total Dissolved Solids (TDS)	<u> </u>	mg/l	110	200
Total Hardness	İ İ	ug/l	28000	73000
Total Kjeldahl Nitrogen (TKN)	·	mg/l	1.8	1.8
Total Nitrogen	1	mg/l	NA	NA
l'otal 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
Jnionized ammonia	20	mg/l	BDL	BDL
Vanadium	49	ug/l	BDL	BDL
Zinc	Note 7	ug/l	16	BDL
Organics	i	<u></u>		A STATE OF THE STA
,1,1,2-Tetrachloroethane	220	ug/l	BDL	BDL
1,1,1-Trichloroethane	270	ug/l	BDL	BDL
,1,2,2-Tetrachloroethane ,1,2-Trichloroethane	10.8	ug/l	BDL	BDL
,1,2-Themoroculaire	16	ug/l	BDL	BDL

Analyte	Location:		B2	B4R
The state of the s	Date of Test:	activity of the control of the contr	00.01.700	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Berentis a reade in Colonia de la la colonia della colonia de la colonia	Standard(1)	Units	09/11/08	09/11/08
1,1-Dichloroethane	January 2(1)	ug/l	BDL	Address of the second s
1,1-Dichloroethene	3.2	ug/l	BDL	BDL
1,2,3-Trichloropropane	0.2		BDL	BDL
1,2-Dichlorobenzene	99	ug/l		BDL
1,2-Dichloroethane	37	ug/l	BDL	BDL
1,2-Dichloropropane	14	ug/I	BDL	BDL
1,4-Dichlorobenzene	3	ug/l	BDL	BDL
2-Butanone	I I	ug/l	BDL	BDL
2-Hexanone	120000	ug/l	BDL	BDL
4-Methlyl-2-pentanone	22000	ug/l	BDL	BDL
Acetone	23000	ug/l	BDL	BDL
Accylonitrile	1700	ug/I	BDL	BDL
	0.2	ug/l	BDL	BDL
Benzene	71.28	ug/I	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL
Bromodichloromethane	49.7	ug/I	BDL	BDL
Bromomethane	35	ug/l	BDL	BDL
Carbon disulfide	110	ug/I	2.6	2.6
Carbon tetrachloride	4.42	ug/l	BDL	BDL
Chlorobenzene	17	ug/I	BDL	BDL
Chloroethane	1 1	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/I	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
odomethane	***	ug/l	BDL	BDL
Styrene	460	ug/l	BDL	BDL
-1,4-Dichloro-2-butene		ug/l	BDL	BDL
etrachloroethene	8.85	ug/l	BDL	BDL
Coluene	480	ug/l	BDL	BDL
otal xylenes	370	ug/l	BDL	BDL
rans-1,2-Dichloroethene	11000	ug/l	BDL	BDL BDL
rans-1,3-Dichloropropene	12	ug/l	BDL	
ribromoethane		ug/l	BDL	BDL
richloroethene	80.7	ug/l	BDL	BDL
richlorofluoromethane] "" [ug/l	BDL BDL	BDL
richloromethane	470,8	ug/l	the state of the s	BDL
'inyl acetate	700		BDL	BDL
inyl chloride	2.4	ug/l ug/l	BDL BDL	BDL BDL

Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nepholometric 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(InH)-3.49)

Note (3) Cr less than or equal to e(0.819(InH)+0.6848)

Note (4) Cu less than or equal to e(0.845(InH)-1.702)

Note (5) Pb less than or equal to e(1.273(InH)-4.705)

Note (6) Ni less than or equal to e(0.846(InH)+0.0584)

Note (7) Zn less than or equal to e(0.8473(InH)+0.884)

Table 2-18 Surface Water Analytical Summary Second Half 2009

Analyte	Location:		B2	B4R
Standard Light William Standard College Colleg	Date of Test:	o describer and order of the	09/16/09	9/16/2009 & 10/23/2009
	Standard(1)	Units	09/10/09 1	9/10/2009 & 10/23/2009
Field Measurements		The state of the s	1.4 Marin and Artista to the period of the Artista and	
Temperatrue		deg. C	NS	26.23
рН		STD	NS	7.07
Conductivity	i i	umhos/cm	NS	484
Dissolved Oxygen (DO)		mg/l	NS	1.74
Turbidity	29	NTU	NS	2.0
Inorganics				and the second of the second o
Ammonia	7	mg/l	NS	NA
Antimony	4300	ug/l	NS	BDL
Arsenic	50	ug/l	NS	11.0
Barium	1	ug/l	NS	29.5
Beryllium	0.13	ug/l	NS	BDL
Bicarbonate Alkalinity	1	mg/l	NS	1111
Biochemical Oxygen Demand (BOD)	1 1	mg/l	NS	2.47*
Cadmium	Note 2	ug/l	NS NS	0.13
Calcium	1	ug/l	NS	66200
Carbonate Alkalinity	1	mg/l	NS NS	BDL
Chemical Oxygen Demand (COD)	1	mg/l	NS NS	70.2
Chlorophyll A	1	mg/m3	NS NS	17.9*
Chromium	Note 3	ug/l	NS NS	BDL
Cobalt	Tione 3	ug/l	NS NS	
Copper	Note 4	ug/l ug/l		10.7
Fecal coliforms	800	cfu/100ml	NS NS	1.6
Iron	1000	the second second	NS NG	16200
Lead	Note 5	ug/l	NS NS	292
Magnesium	Note 3	ug/l	NS NS	BDL
	0.012	ug/l	ŅS.	11200
Mercury Nickel	0.012	ug/l	NS	0.0081
Nitrate as N	Note 6	ug/l	NS	BDL
······································	-[mg/l	NS	0.033
Nitrite as N	1 1	mg/l	NS	0.037
Nitrogen, Nitrate-Nitrite	1	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	1	ug/l	NS	96.6
l'hallium	6.3	ug/l	NS	BDL
Total Alkalinity		mg/l	NS	111
Total Dissolved Solids (TDS)	.][mg/l	ŊS	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	ŇĀ
Total Suspended Solids (TSS)	1	mg/l	NS	BĎL
Jnionized ammonia	20	mg/l	NS	0.21
/anadium	49	ug/l	NS	BDL
Zinc	Note 7	ug/l	NS	7.5
)rganics				*** · . * *****************************
,1,1,2-Tetrachloroethane		ug/l	NS	BDL
,1,1-Trichloroethane	270	ug/l	NS	BDL
,1,2,2-Tetrachloroethane	10.8	ug/I	NS	BDL
,1,2-Trichloroethane	16	ug/l	NS NS	BDL

Analyte	Location:	ter in the second of the secon	B2	B4R
	Date of Test:		09/16/09	0/15/2000 8:10/23/2000
The control of the particle of the property of the particle of	Standard(1)	Units	U9/10/U9:	9/16/2009 & 10/23/2009
1,1-Dichloroethane		ug/l	NS	BDL
1,1-Dichloroethene	3.2	ug/l	NS NS	BDL
1,2,3-Trichloropropane	0.2	ug/l	NS 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 NS	BDL
2-Butanone	120000	ug/l	. NS	BDL
2-Hexanone	1,20000	ug/l	NS	BDL
4-Methlyl-2-pentanone	23000	ug/l	NS	BDL
Acetone	1700	ug/l	NS	BDL
Acrylonitrile	0.2		NS	BDL
Benzene	71.28	ug/l	NS	BDL
Bromochloromethane	/1.20	ug/l	NS NS	BDL
Bromodichloromethane	49.7	ug/l	NS NS	BDL
Bromomethane	35	ug/l	NS	BDL
Carbon disulfide	110	ug/l		
Carbon disuitide Carbon tetrachloride	4.42	ug/l	NS NG	BDL
Chlorobenzene	17	ug/l	NS	BDL
Chloroethane	1/	ug/l	NS NG	BDL
Chloromethane	470.8	ug/l	NS	BDL
and the same of th	4 19 19 19 19 19 19 19 19 19 19 19 19 19	ug/l	NS NO	BDL
cis-1,2-Dichloroethene	3.2	ug/l	NS	BDL
cis-1,3-Dichloropropene	12	ug/l	NS.	BDL
Dibromochloromethane		ug/l	NS NG	BDL
Dibromochloropropane		ug/l	NS	BDL
Dibromomethane	1580	ug/l	NS	BDL
Dichloromethane	the state of the s	ug/l	NS	BDL
Ethylbenzene	610	ug/l	NS NS	BDL
Ethylene dibromide Iodomethane	13	ug/l	NS No	BDL
	160	ug/l	NS	BDL
Styrene	460	ug/l	NS NG	BDL
t-1,4-Dichloro-2-butene	0.05	ug/l	NS	BDL
Tetrachloroethene	8.85	ug/l	NS	BDL
Toluene	480	ug/l	NS	BDL
Total xylenes	370	ug/l	NS NS	BDL
trans-1,2-Dichloroethene	11000	ug/l	NS	BDL
trans-1,3-Dichloropropene	12	ug/l	NS	BDL
Tribromoethane	20.7	ug/l	NS	BDL
Trichloroethene	80.7	ug/l	NS	BDL
Trichlorofluoromethane	420.0	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 = nepholometric 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(InH)-3.49)

Note (3) Cr less than or equal to e(0.819(InH)+0.6848)

Note (4) Cu less than or equal to e(0845(InH)-1.702)

Note (5) Pb less than or equal to e(1.273(InH)-4.705)

Note (6) Ni less than or equal to e(0.846(InH)+0.0584)

Note (7) Zn less than or equal to e(0.8473(InH)+0.884)

^{* =} re-sample results from 10/23/2009

Table 2-19 Surface Water Analytical Summary First Half 2010

Analyte	Location:		B2	B4R
1	11 m 1900 C. A 24 C. A 24 C.	P. Control of the second state of the	 Bit and the control of	1 188 17.5 St. 100 1800 1800 1800 1800 1800 1800 1800
Contract to the same of the same will	Date of Test; Standard(1)	Units	03/30/10	03/30/10
Field Measurements	Standard(1)	en Omis		
Temperatrue	<u>. 1884 - 1884 - 1997 -</u>	deg. C	18,27	19.90
pH		STD	6.2	18.89
Conductivity	1.	umhos/cm	123	199
Dissolved Oxygen (DO)		mg/1	0.56	
Turbidity	29	NTU	8.1	2.28 6.48
Inorganics	2.9	INIU	O.I	0.48
Ammonia		mg/l	0.16	0.16
Antimony	4300	ug/l	BDL	0.16
Arsenic	50	ug/l	BDL	BDL
Barium	30	ug/l	13.8	BDL 14.7
Beryllium	0.13	ug/l	BDL	
Bicarbonate Alkalinity	0,13	, mg/l mg/l	9.5	BDL
Biochemical Oxygen Demand (BOD)		mg/I	5.2	28 2.9
Cadmium	Note 2	ug/l	0.06	
Calcium	Noic 2	ug/l	10100	BDL
Carbonate Alkalinity		mg/l	BDL	18100
Chemical Oxygen Demand (COD)	1 1	mg/l	173	BDL
Chlorophyll A	1	mg/m3	3.9	150
Chromium	Note 3	ug/l		8.6
Cobalt	14010.3	ug/I	BDL	BDL
Copper	Note 4	ug/l	2.5	BDL
Fecal coliforms	800	cfu/100ml	470	2.3
Iron	1000	ug/l	384	310
Lead	Note 5	ug/l	1.0	669
Magnesium	110,65	ug/l	4600	0.56
Mercury	0.012	ug/l	0.0135	5400
Nickel	Note 6	ug/l	BDL	0.0102
Nitrate as N	Hole o	mg/l	0.011	BDL
Nitrite as N		mg/I	BDL	0.068
Nitrogen, Nitrate-Nitrite	1	mg/l	0.011	0.89
Potassium	1	ug/l	6400	0.96
Selenium	5.0	ug/l	0400 BDL	9600
Silver	0.07	ug/l	BDL	BDL
Sodium	250000	ug/l	7800	BDL
Sulfate	250000	ug/l	7.6	8600
Thallium	6.3	ug/l		18.9
Total Alkalinity	0,5	mg/l	BDL 9.5	BDL
Total Dissolved Solids (TDS)	1 1	mg/l	185	28
Total Hardness		ng/I	185 44.3	214
Total Kjeldahl Nitrogen (TKN)]	mg/l		67.3
Total Nitrogen			3.3	3.2
Total Organic Carbon (TOC)		mg/l	3.3	4.1
Fotal Phosphorus	!	mg/l	45	38.8
Total Residual Chlorine	1	mg/l	1.1	1.1
Total Suspended Solids (TSS)	1	ug/l	NA DDI	NA L
Unionized ammonia	20	mg/I	BDL	BDL
Vanadium	49	mg/l	BDL	BDL
Zinc	Note 7	ug/l	BDL	BDL
Organics	Note /	ug/l	66.1	14.1
1,1,1,2-Tetrachloroethane	for the season of the season is		- in this is a second first second control of the	
1,1,1-Trichloroethane	270	ug/l	BDL	BDL
1,1,2,2-Tetrachloroethane	270	ug/l	BDL	BDL
1,1,2-Trichloroethane	10.8	ug/l	BDL	BDL
1,1,2-111cmoroemane	16	ug/l	BDL	BDL

Analyte	Location:		B2	B4R
	Marie Company Company	egişirken berkerkerine eleriş Taranın 1888-yılındır	en en en en en en en en en en en en en e	
	Date of Test:	ere leer reger to be to like the first	03/30/10	03/30/10
nter Berlinder in Berlinder State (1994) in de la particular de la companya de la companya de la companya de l La particular de la particular de la companya de la companya de la companya de la companya de la companya de l	Standard(1)	Units	Ballar III II (1994) betar i renema en la como en la co	
1,1-Dichloroethane		ug/I	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 BDL
2-Butanone	120000	ug/l	BDL	BDL
2-Hexanone		ug/l	BDL	BDL
4-Methlyl-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	1 1	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/I	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 = nepholometric 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(InH)-3.49)

Note (3) Cr less than or equal to e(0.819(InH)+0.6848)

Note (4) Cu less than or equal to e(0845(InH)-1.702)

Note (5) Pb less than or equal to e(1.273(InH)-4.705)

Note (6) Ni less than or equal to e(0.846(InH)+0.0584)

Note (7) Zn less than or equal to e(0.8473(InH)+0.884)

Table 2-20 Surface Water Analytical Summary Second Half 2010

Analyte	Location:	The control of the constant of	B2	B4R
	Date of Test:		**************************************	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
	Standard(1)	Units	09/30/10	09/30/10
Field Measurements	Standard(1)	Units		the control of the co
Temperatrue	Laid Bart Spromet Laureau	deg. C	NS	25.75
pH		STD	NS NS	6.68
Conductivity	<u> </u>	umhos/cm	NS NS	393
Dissolved Oxygen (DO)		mg/1	NS	2.41
Turbidity	29	NTU	NS I	6.71
Inorganics	111	Tricky (climaters)	Control to the control of the state of the s	O.7 I
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	1	mg/l	NS	103
Biochemical Oxygen Demand (BOD)	1	mg/l	NS	1.92
Cadmium	Note 2	ug/l	NS	BDL
Calcium	1	ug/l	NS	43200
Carbonate Alkalinity		mg/l	NS	BDL
Chemical Oxygen Demand (COD)	ľ	mg/l	NS	93.5
Chlorophyll A	1	mg/m3	l ÑS	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 I	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	1	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	1	ug/l	NS	32.3
Thallium	6.3	ug/l	NS	0.61
Total Alkalinity		mg/l	NS	103
Total Dissolved Solids (TDS)	1 1	mg/l	ŅŞ	265
Total Hardness	j 1	ug/l	NS .	140000
Total Kjeldahl Nitrogen (TKN)	.4.	mg/l	NS	1.5
Total Nitrogen		mg/l	NS	1.5
Total Organic Carbon (TOC)	ļ l	mg/l	NS	21.0
Total Phosphorus		mg/l	NS	0.61
Total Residual Chlorine		ug/l	NS	NA
Total Suspended Solids (TSS)	1 20	mg/l	NS	10
Unionized ammonia	20	mg/l	NS	BDL
Vanadium	49 Note 7	ug/l	NS	5.3
Zinc Organies	Note 7	ug/l	NS	BDL
1,1,1,2-Tetrachloroethane	Control of the second s	alian <u></u>	riini — maadiini — paganii — maarajii — ja	
	370	ug/l	NS	BDL
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane	270 10.8	ug/l	NS NG	BDL
1,1,2,2-1 etrachioroethane	1 10'8	ug/l	NS	BDL

Analyte	Location:		B2	B4R
	at the second se			And the second of the second o
## 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Date of Test:		09/30/10	09/30/10
1,1,2-Trichloroethane	Standard(1)	Units	ti i ti i ti i ti i ti i i ancesti i i i i i i i i i i i i i i i i i i	#1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
1,1-Dichloroethane	16	ug/l	NS	BDL
1,1-Dichloroethene	<u> </u>	ug/l	NS	BDL
1,2,3-Trichloropropane	3.2	ug/l	NS	BDL
1,2-Dichlorobenzene	0.2	ug/l	NS	BDL
1,2-Dichloroethane	. 99	ug/l	NS	BDL
1,2-Dichloropropane	37	ug/l	NS	BDL
1,4-Dichlorobenzene	14	ug/l	NS	BDL
2-Butanone	3	ug/l	NS.	BDL
2-Hexanone	120000	ug/l	NS NS	BDL
A CONTRACTOR OF THE CONTRACTOR		ug/l	NS	BDL
4-Methlyl-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 NS	BDL
Carbon disulfide	110	ug/l	ŊS	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	1 1	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	NŠ	BDL
Iodomethane		ug/l	NS	BDL
Styrene	460	ug/i	NS	BDL
t-1,4-Dichloro-2-butene		ug/l	NS	BDL
Tetrachloroethene	8.85	ug/l	NS	BDL
Toluene	480	ug/l	NS NS	BDL
Total xylenes	370	ug/I	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 = nepholometric 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(InH)-3.49)

Note (3) Cr less than or equal to e(0.819(InH)+0.6848)

Note (4) Cu less than or equal to e(0845(InH)-1.702)

Note (5) Pb less than or equal to e(1.273(InH)-4.705)

Note (6) Ni less than or equal to e(0.846(InH)+0.0584)

Note (7) Zn less than or equal to e(0.8473(InH)+0.884)

Table 2-21 Gas Condensate Analytical Summary 2010

Analyte	Location:		Gas Condensate (S-4)
	Date of Test: Standard(1)	Units	10/27/10
Field Measurements	Diamatical	Oms	
Temperatrue		deg. C	31.21
pH		STD	7.23
Conductivity	1	umhos/cm	7304
Dissolved Oxygen (DO)		mg/1	3.64
Turbidity	İ	NTU	2.39
Inorganics		1110	2.37
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	ľ	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	1 1	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	1	mg/I	3410
Total Dissolved Solids (TDS)	1	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

	Trend	
Parameter	in	Comments
T di diffetei	Concentration	
		l 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.
	Grou	ndwater
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.
	Surfac	e 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

ď		P-v ₈	P-values	
rarameter	MW-1R	MW-8A	6-WM	MW-10R
Hq	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	0.905	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

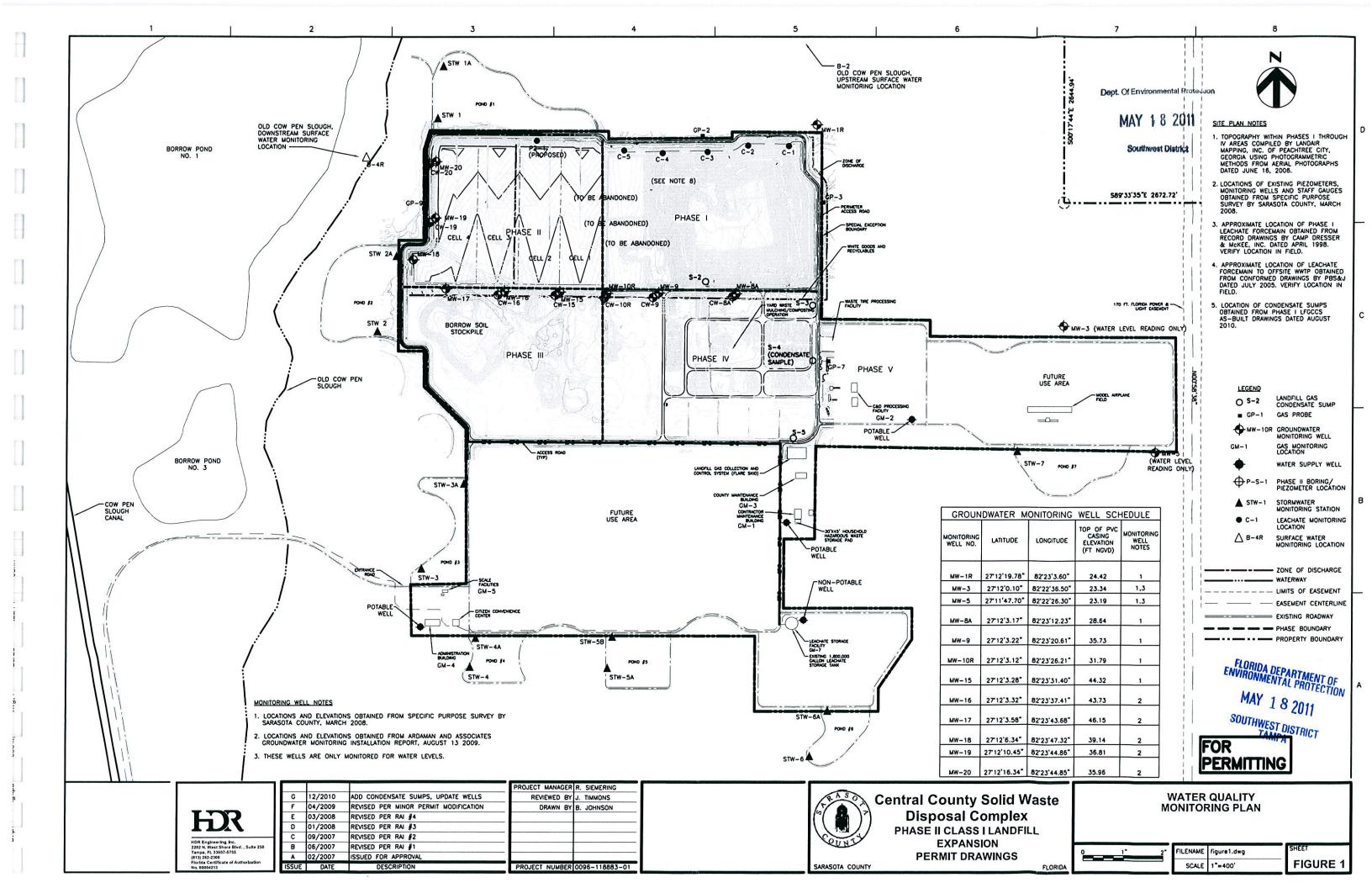
*TDS showed seasonality in line plots, therefore seasonal test was run in addition to Mann-Kendall

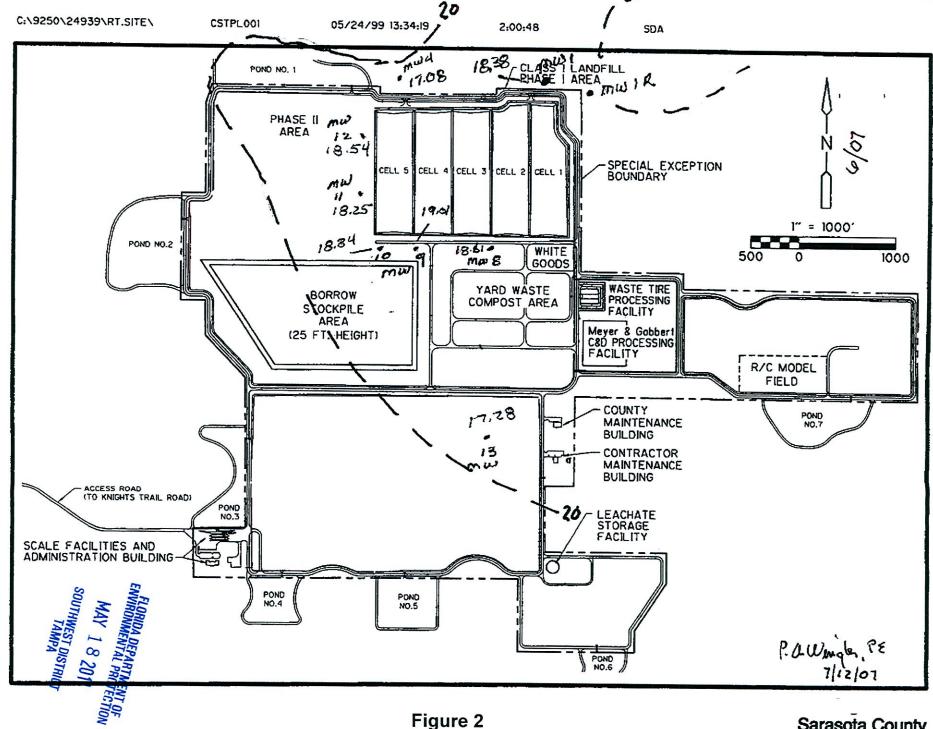
Table 4-1
Rainfall During Review Period
Central County Solid Waste Disposal Complex

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).







CDM Camp Dresser & McKee

Sarasota County
Central County Solid Waste Disposal Complex
Facility Site Plan

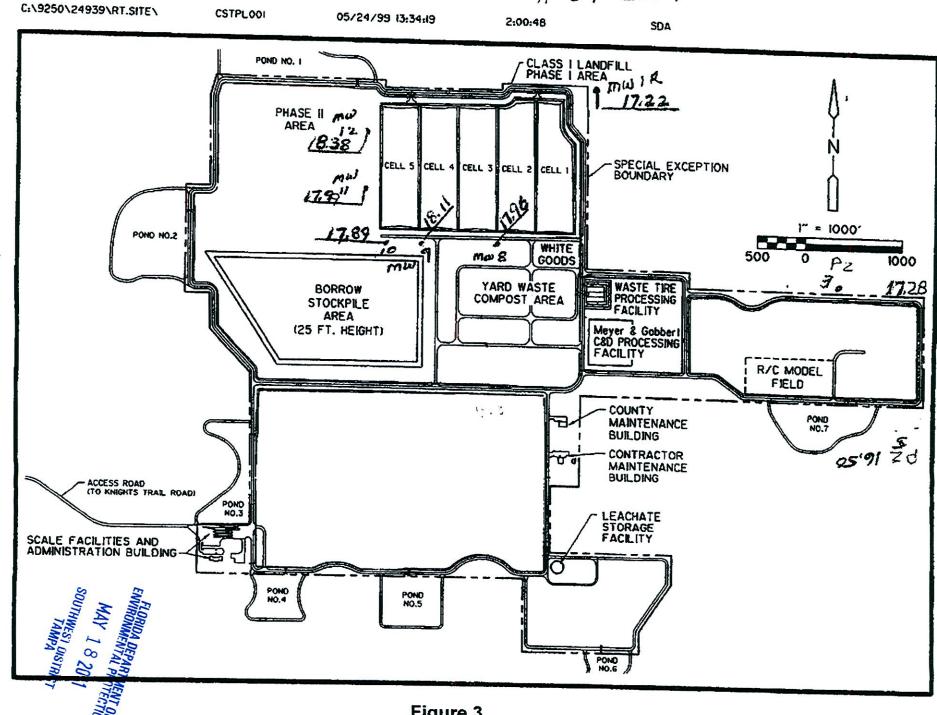
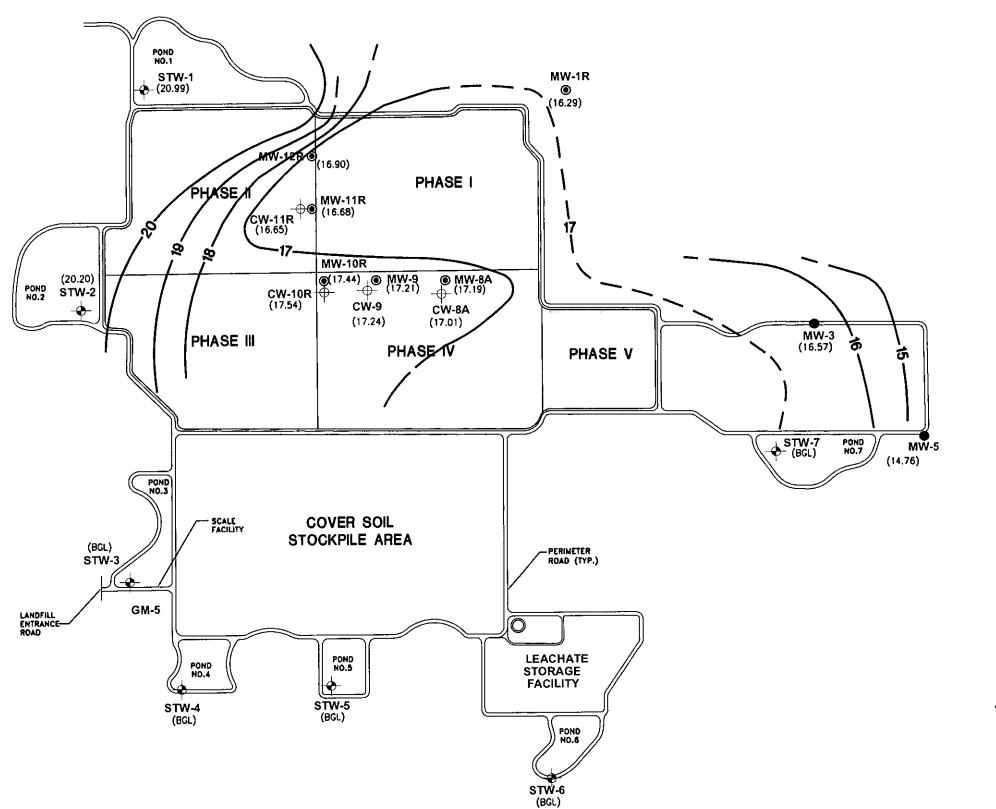
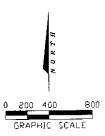


Figure 3

Sarasota County Central County Solid Waste Disposal Complex





Dept. Of Environmental Protection

MAY 18 2011

Southwest District

LEGEND:

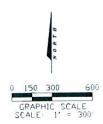
- GROUNDWATER MONITORING WELLS WITH GROUNDWATER ELEVATION (FT-NGVD) IN PARENTHESES
- COMPLIANCE WELL WITH GROUNDWATER ELEVATION (FT-NGVD) IN PARENTHESES
- PIEZOMETERS WITH GROUNDWATER ELEVATION (FT-NGVD) IN PARENTHESES
- STAFF GAUGE LOCATIONS
 WITH GROUNDWATER
 ELEVATION (FT-NGVD) IN
 PARENTHESES
- 16 GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

NM = NOT MEASURED

BGL = BELOW GROUND LEVEL

@ STAFF GAUGE





MW-10R EXISTING GROUNDWATER MONITORING WELL

EXISTING PIEZOMETERS

PHASE II BORING/PIEZOMETER LOCATION

STORMWATER MONITORING LOCATION

~20 GROUNDWATER CONTOUR

NOTE:

- 1. GROUNDWATER DATA FROM 10-21-08
- 2. GROUNDWATER ELEVATION GIVEN IN PARENTHESE

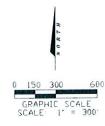
MAY 1 8 2011 SOUTHWEST DISTRICT



SARASOTA COUNTY CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

GROUNDWATER CONTOUR MAP OCTOBER 21, 2008

FIGURE 5



Dept. Of Environmental Protection

MAY 1 8 2011

Southwest District

LEGEND:

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

NOTE:

- 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



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

NOTE:

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

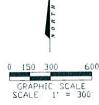


FT-NGVD = FEET ABOVE NATIONAL GEODETIC VERTICAL DATUM

DATE: DECEMBER 3, 2009

PBS

SARASOTA COUNTY CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX GROUNDWATER CONTOUR MAP OCTOBER 2009 FIGURE



- MONITORING WELL WITH GROUNDWATER ELEVATION (FT-NGVD)
- PIEZOMETERS WITH
 GROUNDWATER ELEVATION
 (FT-NGVD)
- MONITORING POINT WITH SURFACE WATER ELEVATION (FT-NGVD)
- 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



SARASOTA COUNTY CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

GROUNDWATER CONTOUR MAP MAY 2010 FIGURE



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

NOTE:

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



FT-NGVD = FEET ABOVE NATIONAL GEODETIC VERTICAL DATUM

PBSy an Atkins company

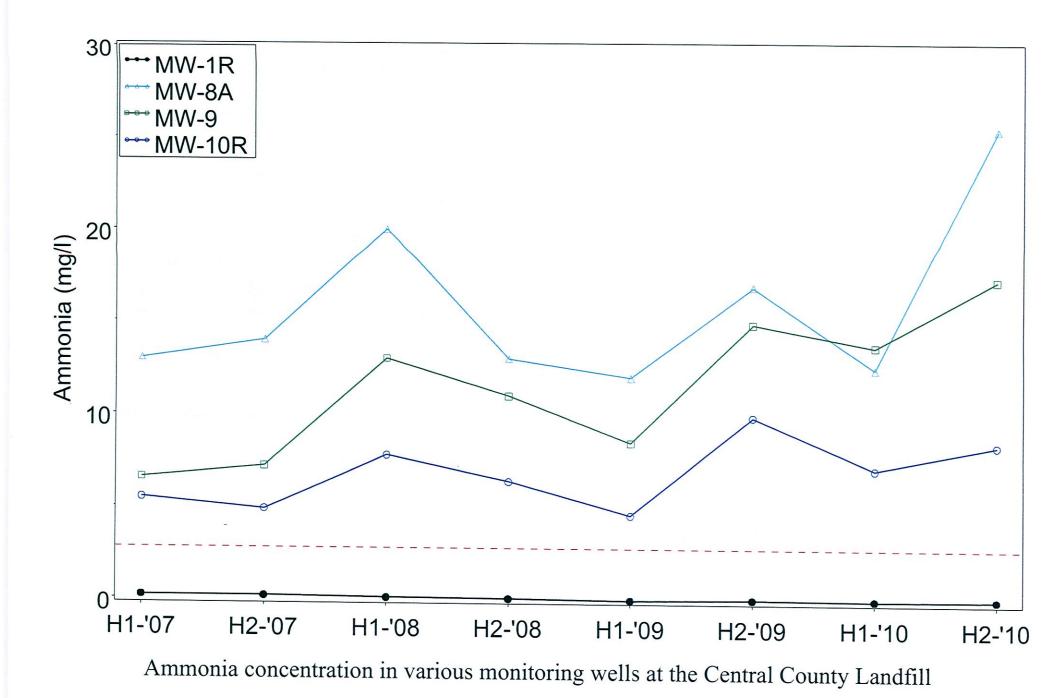
SARASOTA COUNTY CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX

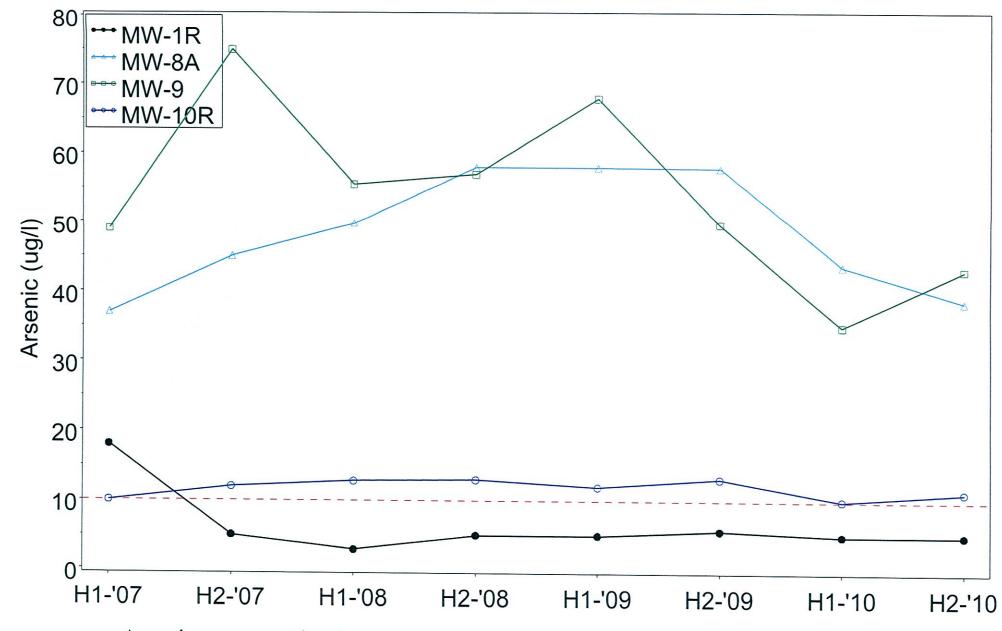
GROUNDWATER CONTOUR MAP NOVEMBER 2010 FIGURE

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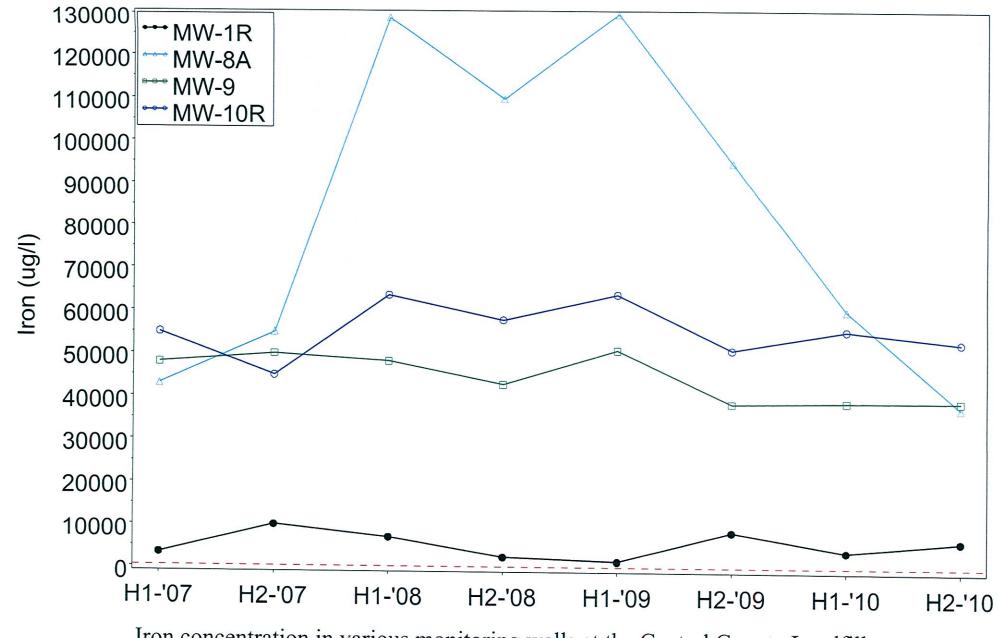
APPENDIX A

Parameter Concentration Graphs

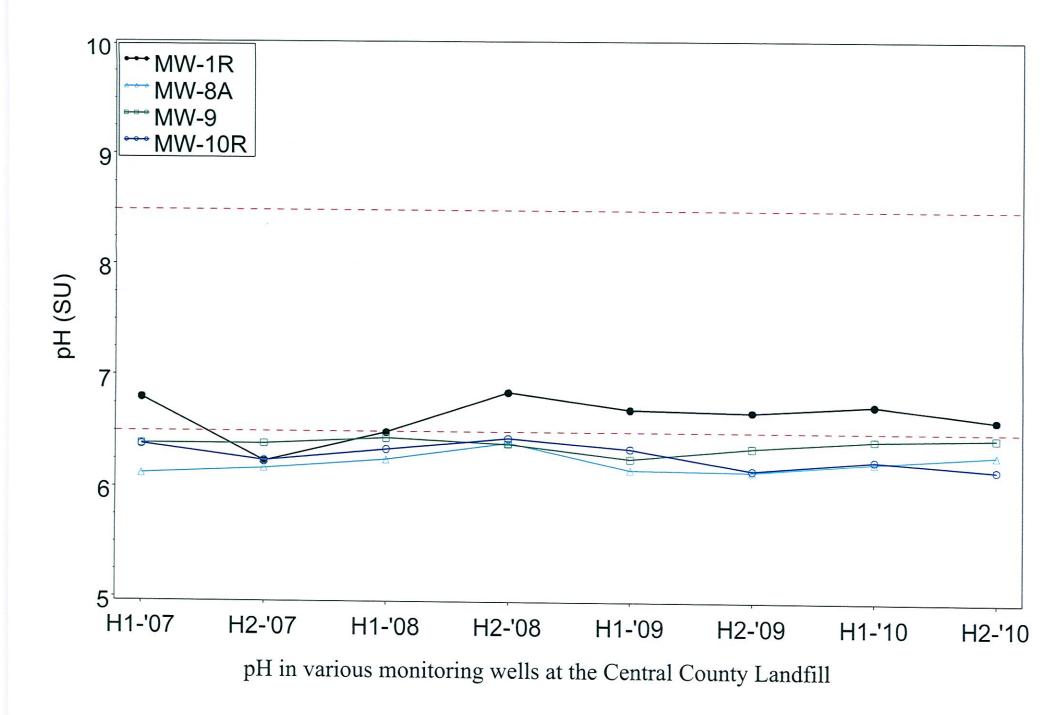


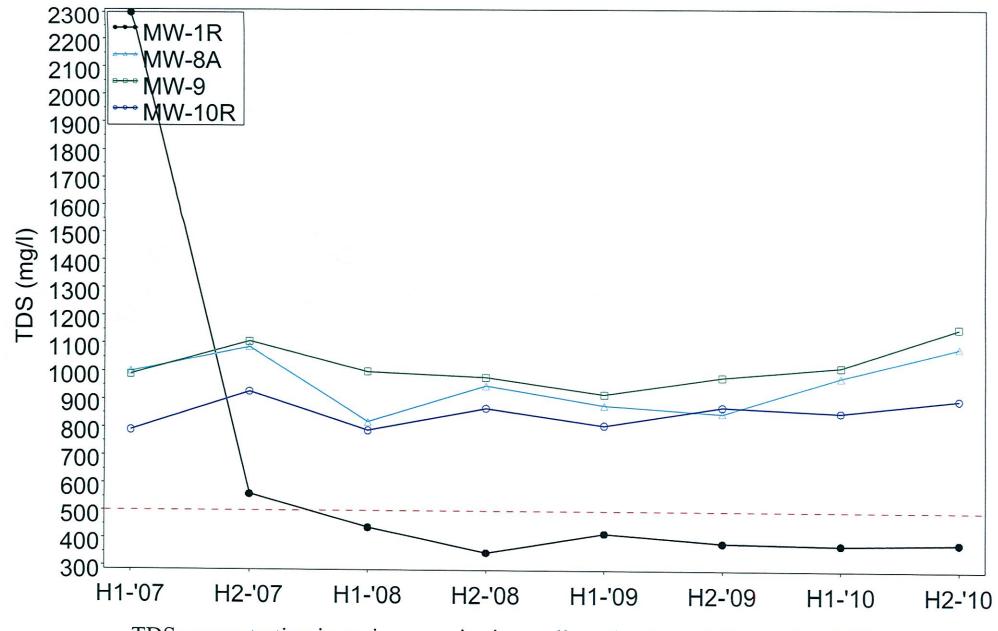


Arsenic concentration in various monitoring wells at the Central County Landfill



Iron concentration in various monitoring wells at the Central County Landfill



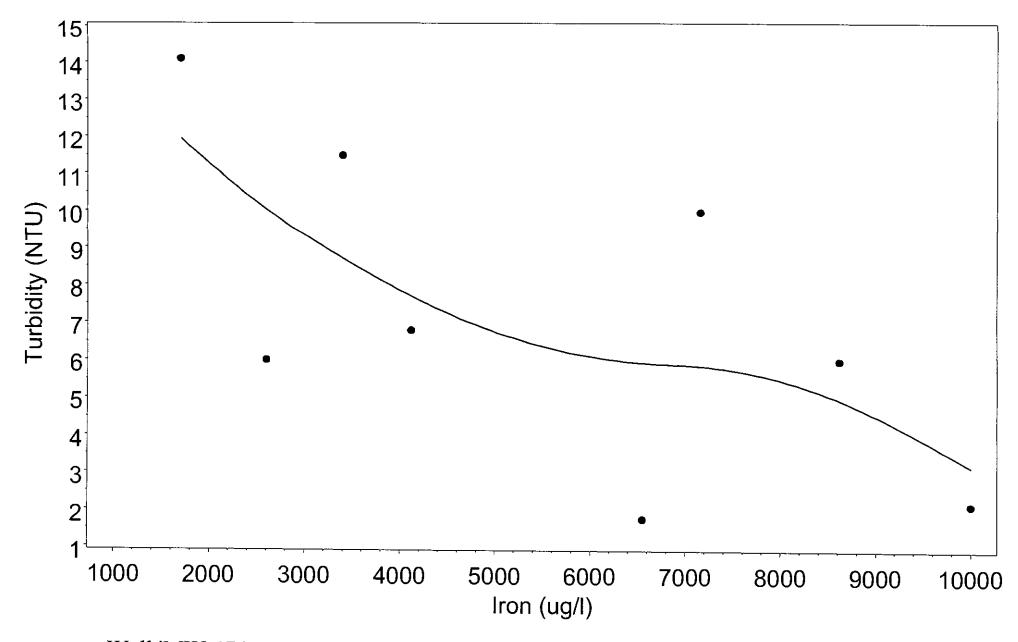


TDS concentration in various monitoring wells at the Central County Landfill

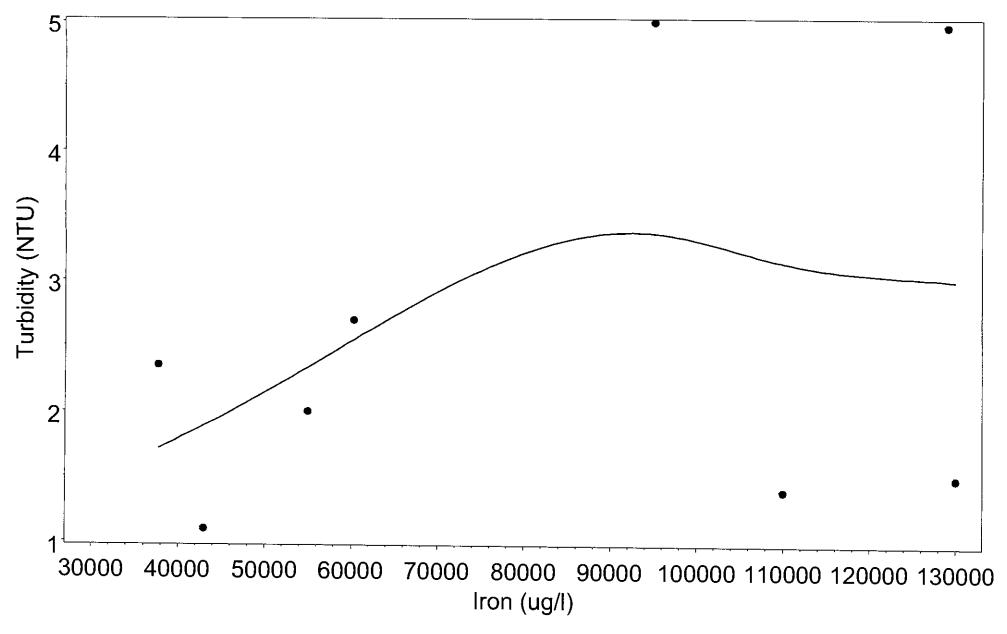
APPENDIX B

Related Parameter Correlation Graphs

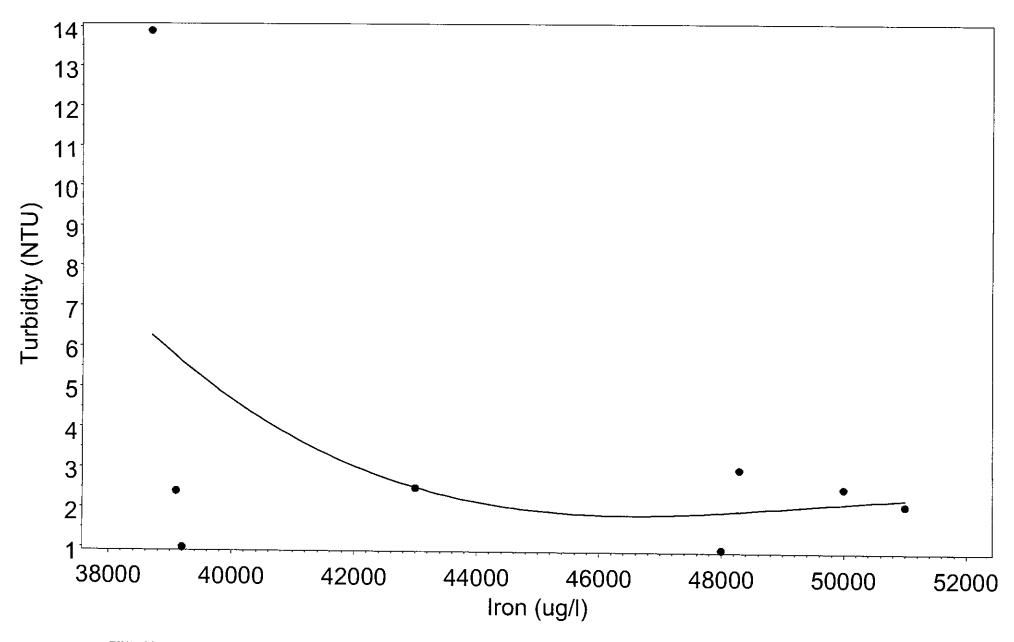
B-1 - Turbidity versus Iron



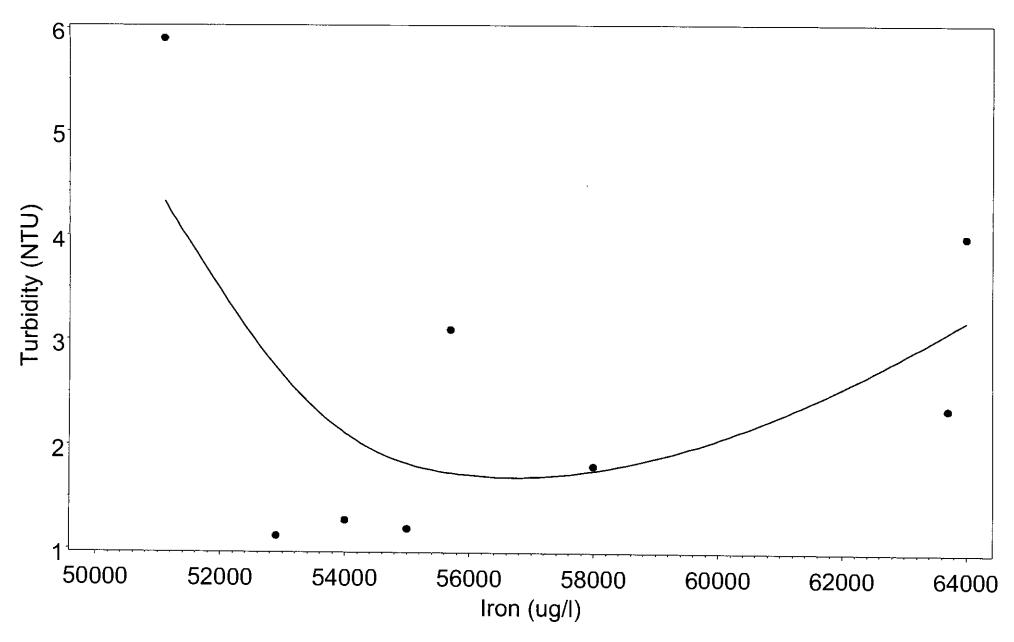
Well 'MW-1R' concentration of Turbidity versus Iron at the Central County Landfill



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

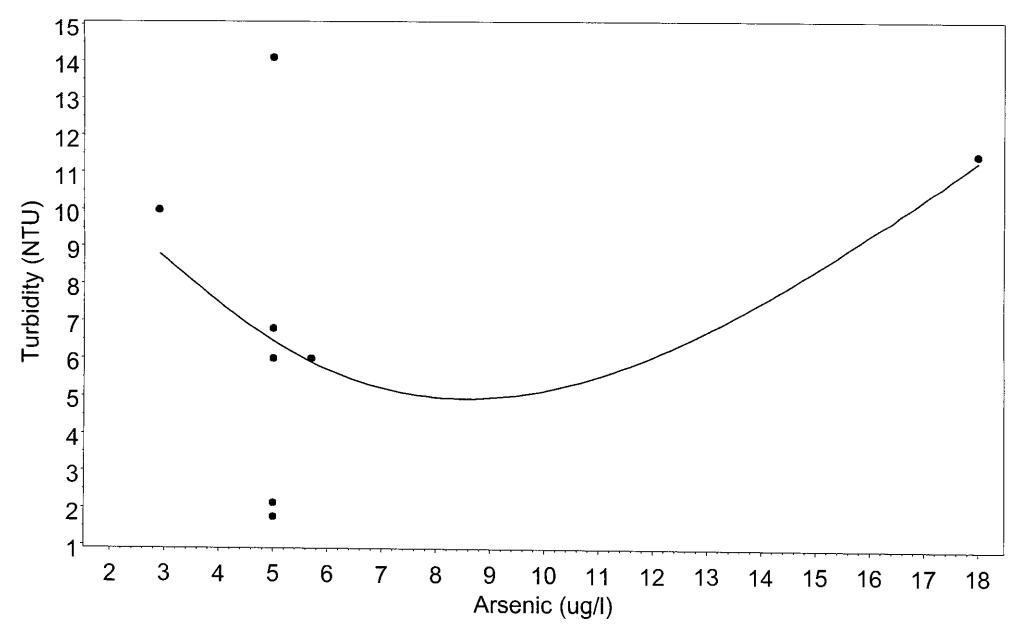


Well 'MW-9' concentration of Turbidity versus Iron at the Central County Landfill

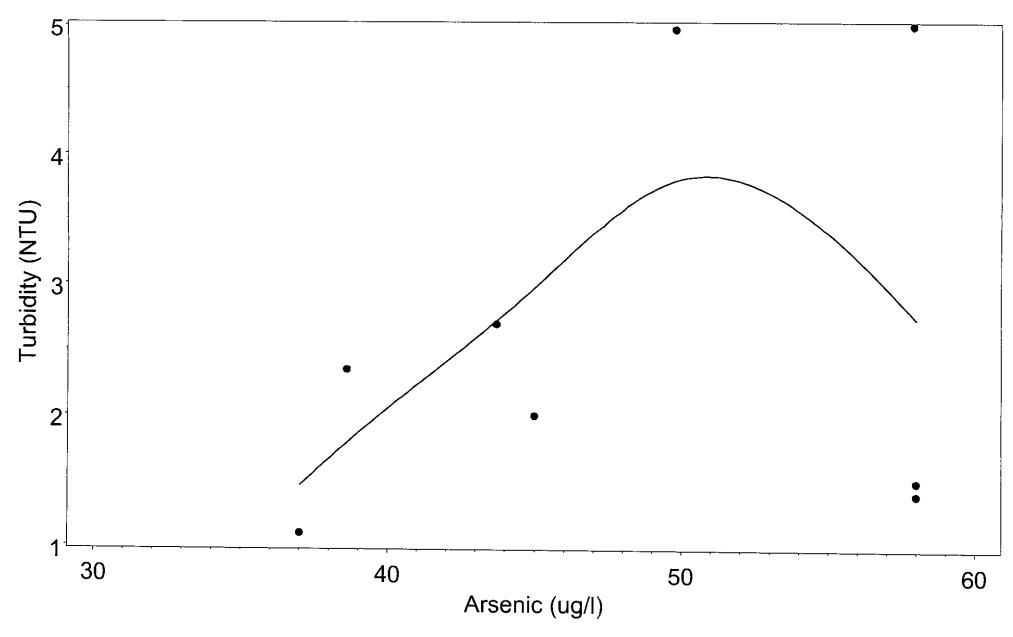


Well 'MW-10R' concentration of Turbidity versus Iron at the Central County Landfill

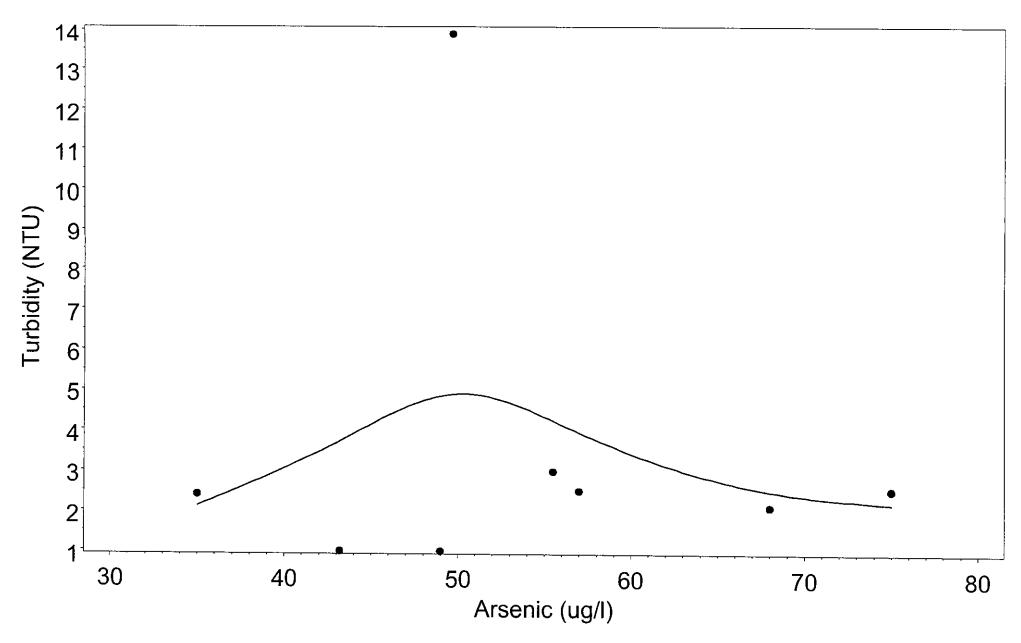
B-2 – Turbidity versus Arsenic



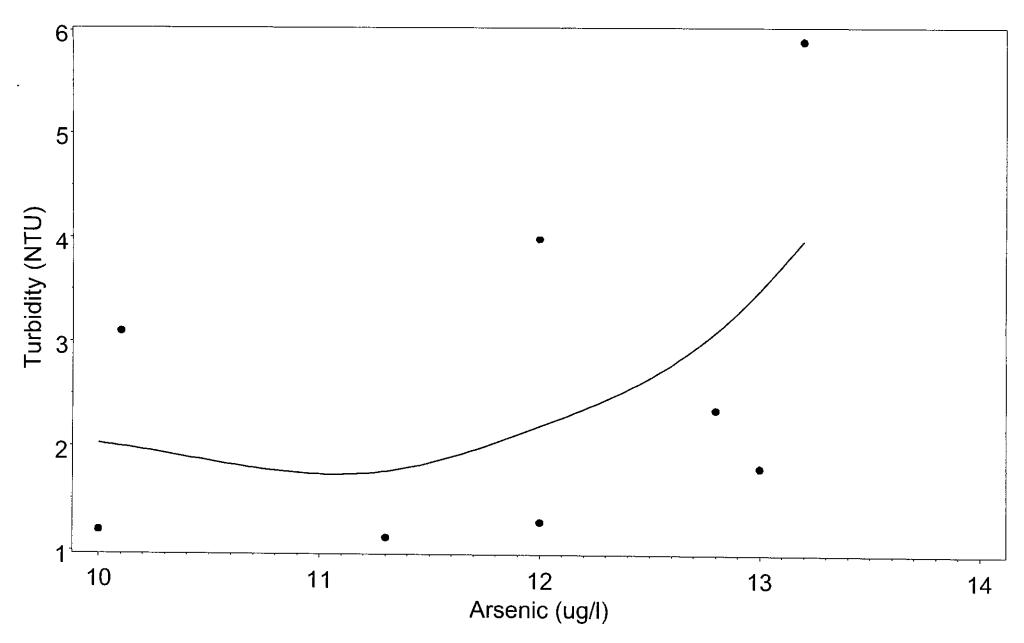
Well 'MW-1R' concentration of Turbidity versus Arsenic at the Central County Landfill



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

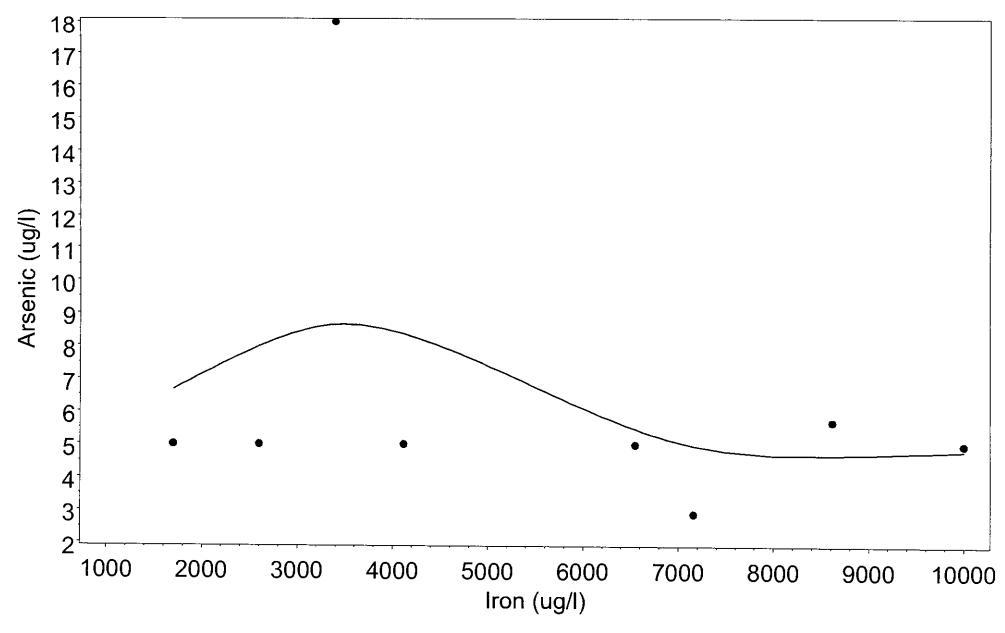


Well 'MW-9' concentration of Turbidity versus Arsenic at the Central County Landfill

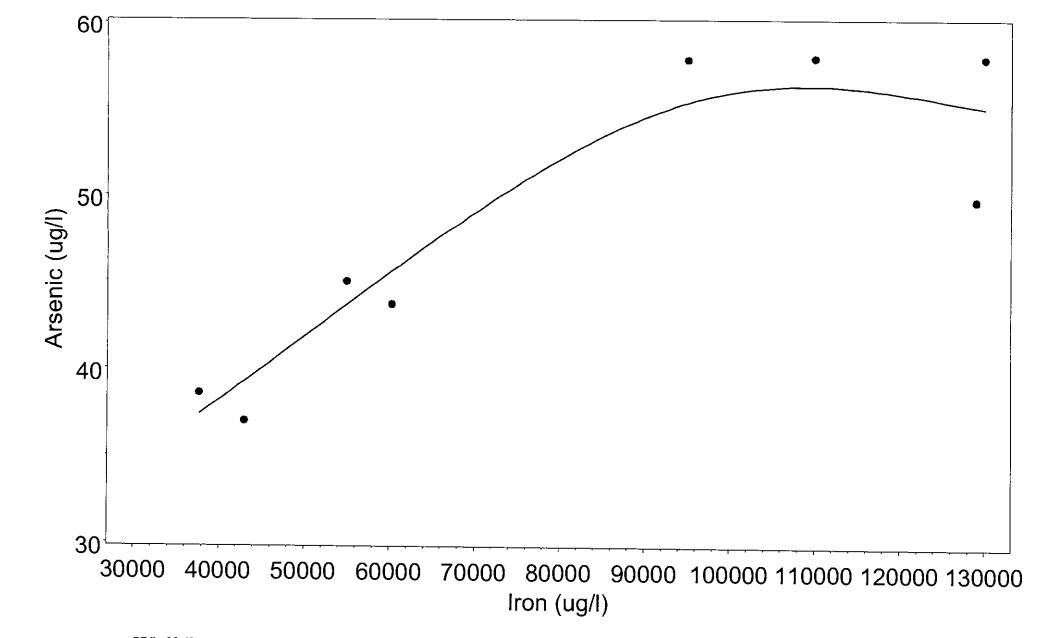


Well 'MW-10R' concentration of Turbidity versus Arsenic at the Central County Landfill

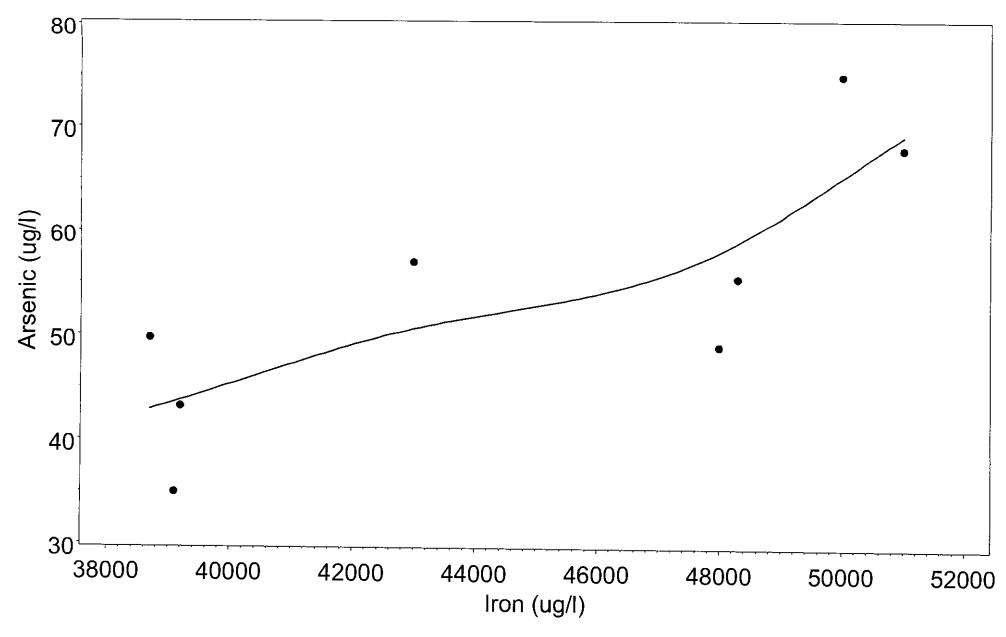
B-3 – Arsenic verses Iron



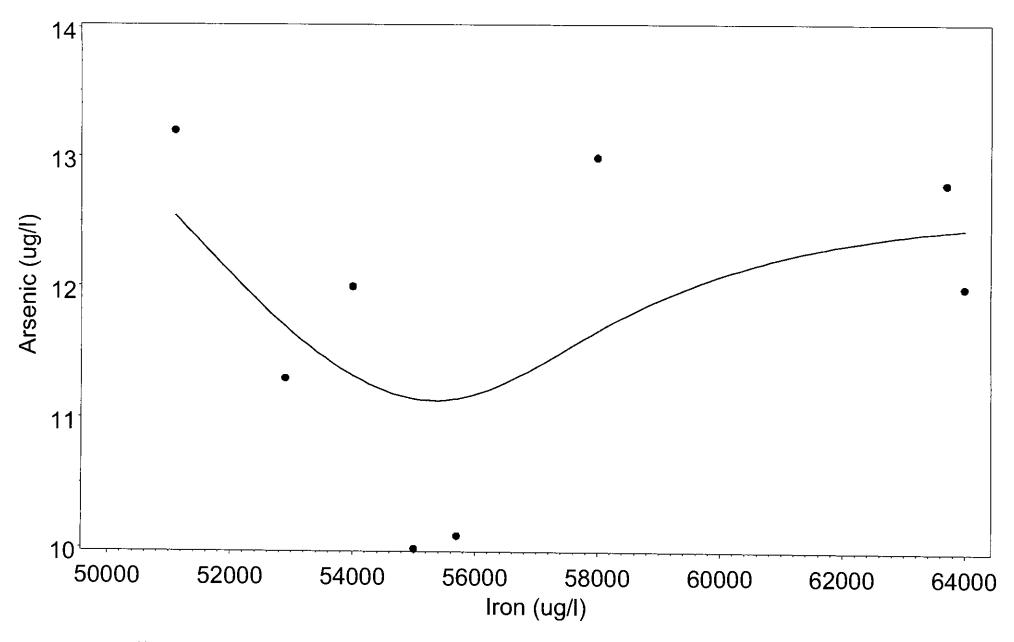
Well 'MW-1R' concentration of Arsenic versus Iron at the Central County Landfill



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

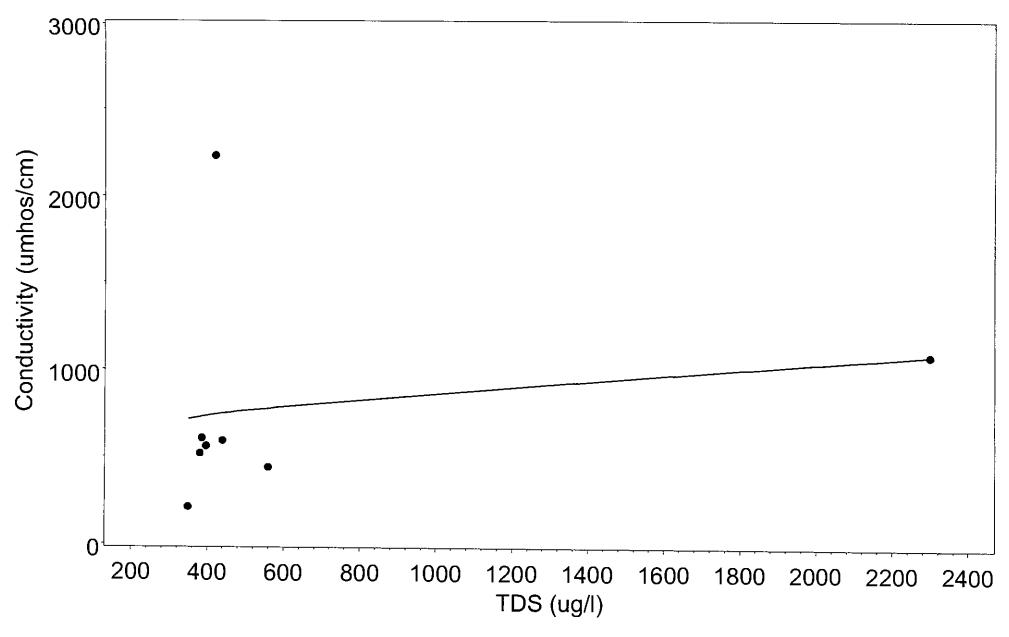


Well 'MW-9' concentration of Arsenic versus Iron at the Central County Landfill

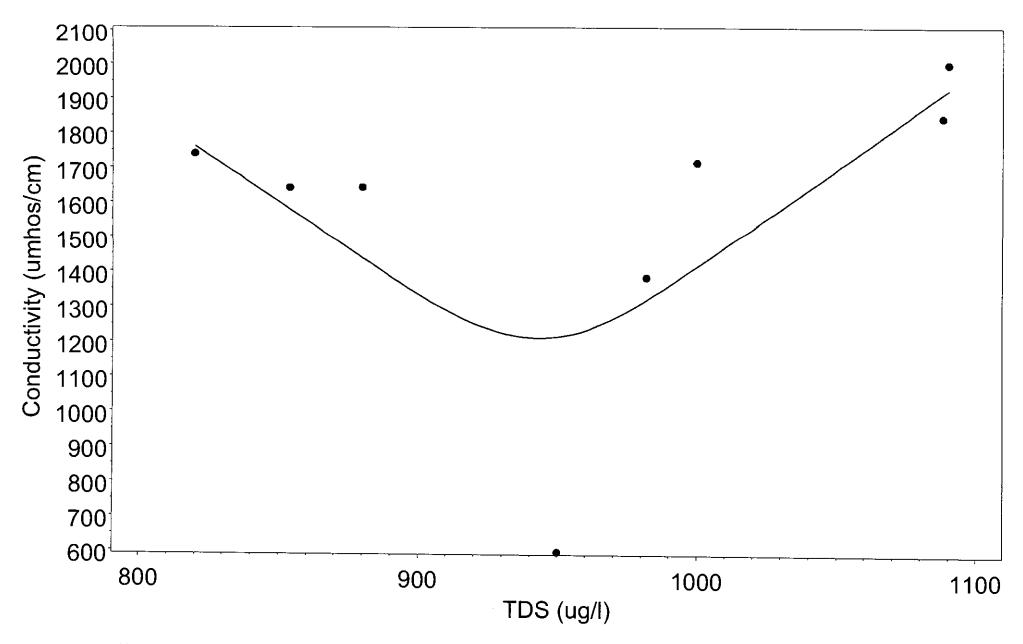


Well 'MW-10R' concentration of Arsenic versus Iron at the Central County Landfill

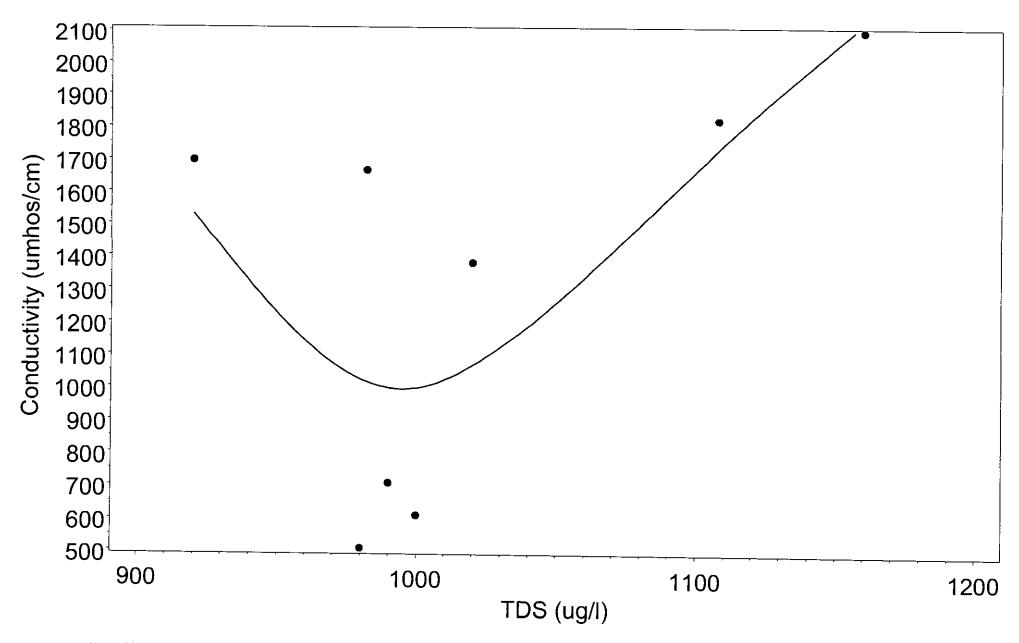
B-4 – Conductivity versus TDS



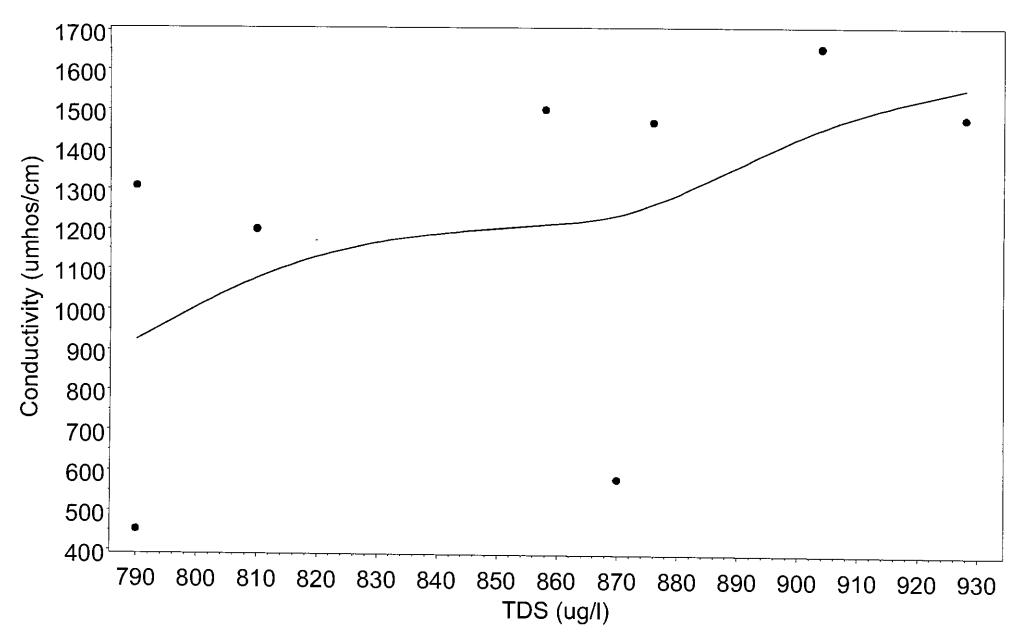
Well 'MW-1R' concentration of Conductivity versus TDS at the Central County Landfill



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



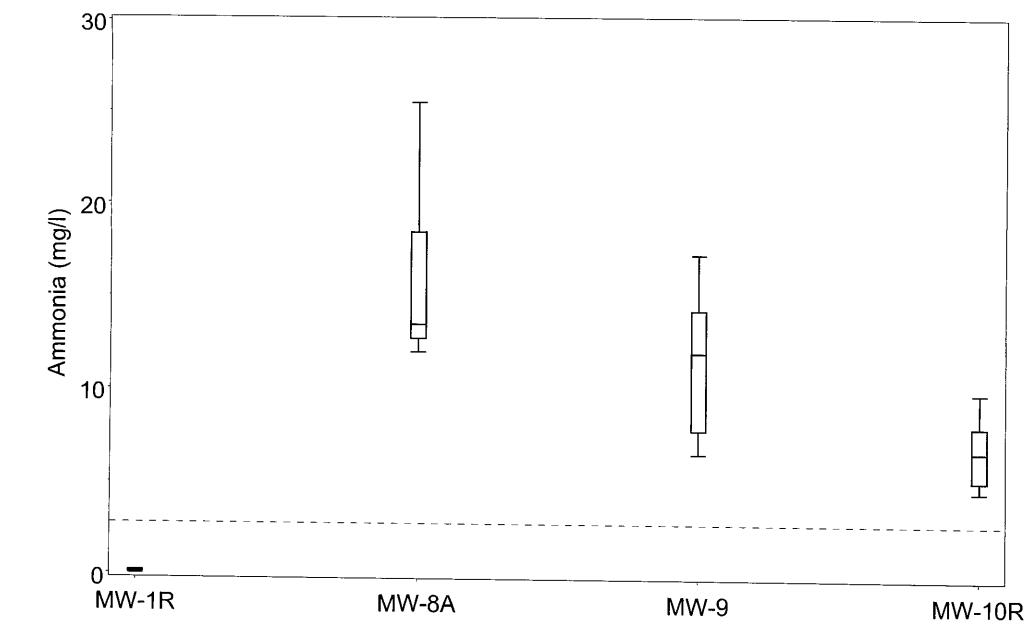
Well 'MW-9' concentration of Conductivity versus TDS at the Central County Landfill



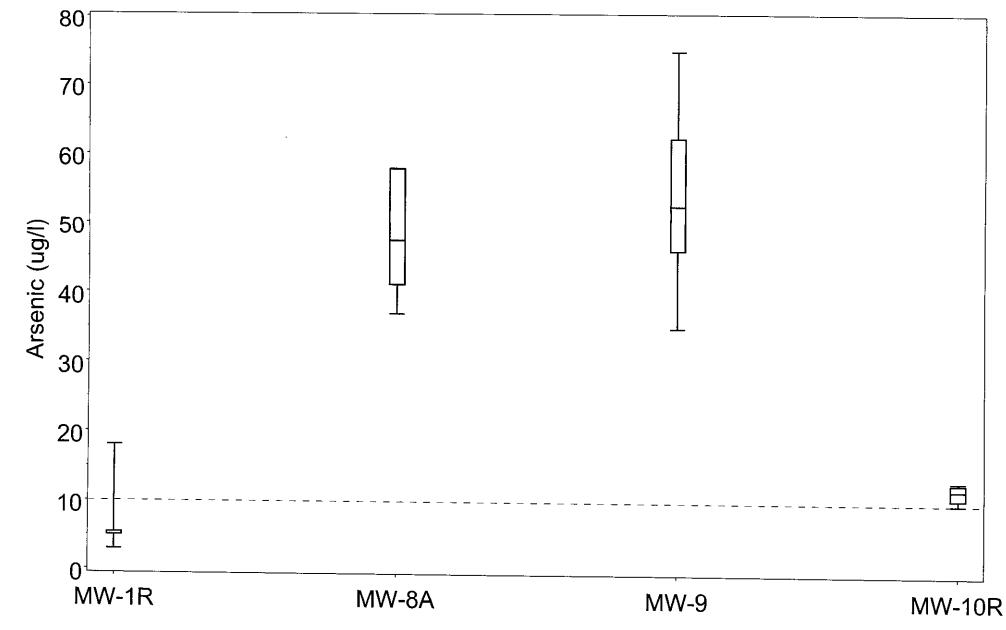
Well 'MW-10R' concentration of Conductivity versus TDS at the Central County Landfill

APPENDIX C

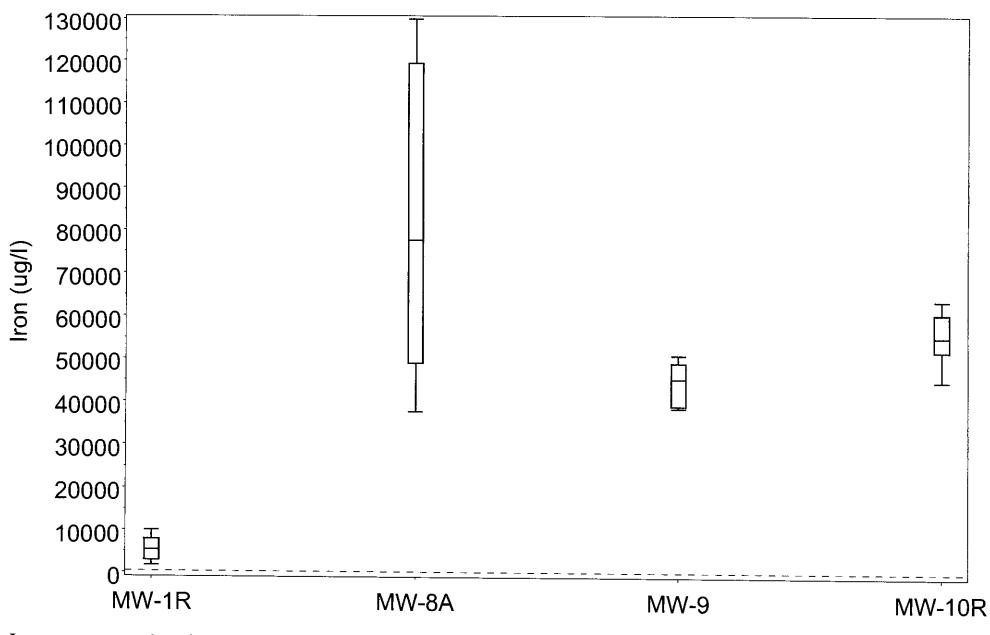
Cross-Gradient Graphs



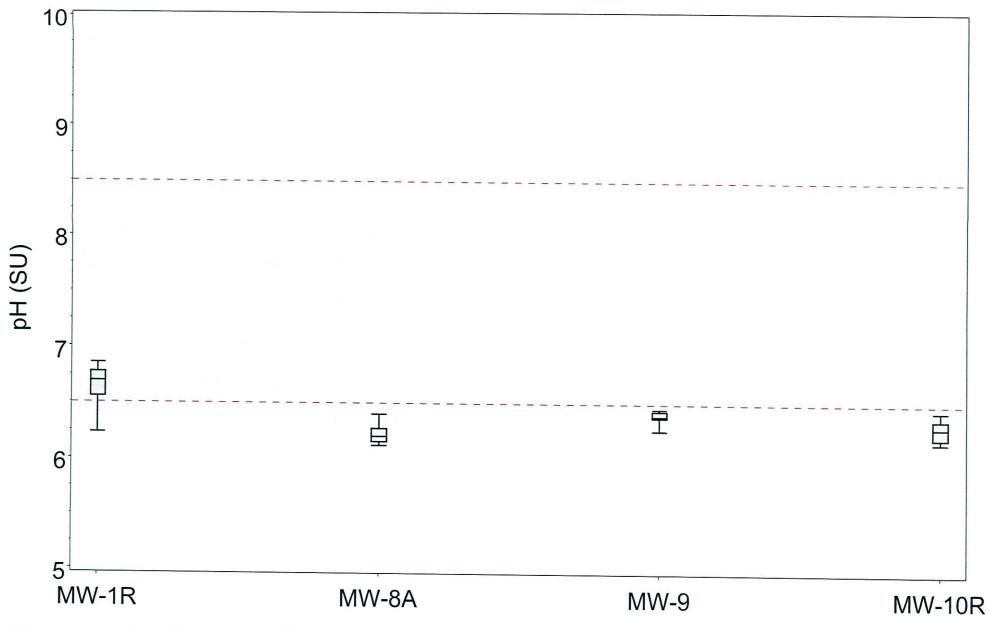
Ammonia concentration from upgradient (MW-1R) to downgradient (MW-10R) at the Central County Landfill



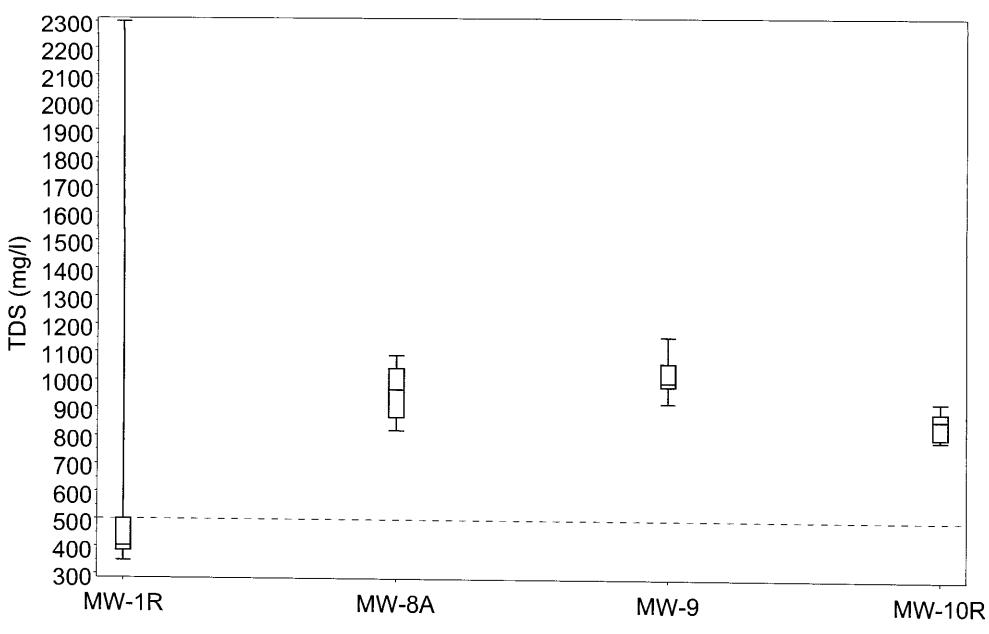
Arsenic concentration from upgradient (MW-1R) to downgradient (MW-10R) at the Central County Landfill



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