WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
PHASE III APPENDIX I DETECTION MONITORING
MAY 2008 SAMPLING EVENT

S&ME Project No.1584-98-081

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TABLE OF CONTENTS

Page

1. **EXECUTIVE SUMMARY** 1
2. **INTRODUCTION** 4
3. **SCOPE OF WORK** 4
4. **METHODS EMPLOYED** 4
   - 4.1 Monitoring Well Sampling 4
   - 4.2 Statistical Analysis of Data 5
     - 4.2.1 Software 5
     - 4.2.2 Statistical Methods-Groundwater Analyses 5
   - 4.3 Stream Sampling 6
5. **RESULTS** 6
   - 5.1 Groundwater Analytical Results 6
   - 5.2 Statistical Results 7
     - 5.2.1 Overview of Database 7
     - 5.2.2 Statistical Analyses 7
       - **5.2.2.1 Descriptive Statistics** 7
       - **5.2.2.2 Time vs. Concentration Graphs** 8
       - **5.2.2.3 Interwell Statistical Comparisons** 8
       - **5.2.2.4 Non-Parametric Tollerance Limits Test** 8
       - **5.2.2.5 Statistical Outlier Tests** 8
   - 5.3 Hydraulic Conductivity 10
   - 5.4 Groundwater Flow Direction and Rate 10
   - 5.5 Surface Water 11
   - 5.6 Leachate Sample Analytical Results 11
   - 5.7 Quality Assurance 11
6. **REFERENCES** 11

TABLES I
FIGURES II
APPENDIX A III
APPENDIX B IV
APPENDIX C V
APPENDIX D VI
APPENDIX E VII
APPENDIX F VIII
APPENDIX G IX

TABLES

Table 1: Groundwater Elevation Data Summary (5/08)
Table 2: Groundwater & Surface Water Field Data Summary (5/08)
Table 3: Groundwater Analytical Results Summary (5/08), Detected Appendix I - Volatile Organic Compounds
Table 4: Groundwater Analytical Results Summary (5/08), Detected Appendix I - Metals
Table 5: Groundwater Velocity Data (5/08)
Table 6: Surface Water Analytical Results Summary (5/08), Detected Appendix I - Volatile Organic Compounds

Table 7: Surface Water Analytical Results Summary (5/08), Detected Appendix I - Metals
Table 8: Leachate Sample Analytical Results Summary (5/08)

FIGURES

Figure 1: Groundwater Flow Map
Figure 2: Stream Sample Location

APPENDICES

Appendix A: Field Sampling Data Sheets (5/08)
Appendix B: Laboratory Analytical Report – May 2008 Monitoring Event
Appendix C: Descriptive Statistics
Appendix D: Time vs. Concentration Graphs
Appendix E: Data Distribution Tests
Appendix F: Non-Parametric Upper Tolerance Limit Computations
Appendix G: NCDENR Environmental Monitoring Reporting Form

1. EXECUTIVE SUMMARY

Twelve monitoring wells and three stream locations at the lined Subtitle D White Street Landfill were sampled on May 1, 2008 and May 2, 2008. Ten wells (MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, and MW-25B) comprise the groundwater monitoring system for the lined Subtitle D solid waste disposal area of the landfill, also known as Phase III. Monitoring wells MW-15 and MW-16 serve as background wells for Phase III. The sampling was conducted according to North Carolina Solid Waste Management Guidelines. The collected samples were submitted to a North Carolina certified laboratory. The samples collected from the Phase III area wells were submitted for analysis using the federal Appendix I list of volatile organic and inorganic constituents for detection monitoring. Samples from surface water locations SW-2 and SW-3 were analyzed for federal Appendix I detection monitoring constituents.

Analytical results from the 12 Phase III monitoring wells detected no Appendix I volatile organic compound at the sampled locations during this monitoring event. Only one Appendix I metal, chromium was detected at well MW-17 at a concentration of 112 µg/L which exceeds the corresponding 50 µg/L NCAC 2L groundwater quality standard; however, in accordance with NCAC 2L, substances at naturally occurring concentration may not represent an exceedance of the established standard.

In order to analyze the laboratory analytical results for evidence of statistically significant increases (SSIs) over background values, the data distribution of all of the quantified monitored constituents was analyzed. The Shapiro-Francia Test of Normality indicated a non-parametric distribution for the analyzed metals data sets. Non-Parametric Upper Tolerance Limits were calculated as the appropriate Statistical Upper Limit for each of the non-parametrically distributed metals.

In order to determine if any individual metals concentrations detected during this monitoring event represent a statistically significant increase over the historic background concentrations, once the respective Upper Limit was obtained, the compliance data were compared via an Inter-Well Comparison to the Statistical Upper Limit to determine if an SSI may have occurred.

The statistical analyses suggest that inorganic parameters chromium, nickel, and zinc were detected during this monitoring event in concentrations that exceed the corresponding Statistical Upper Limit. The Inter-Well comparisons of the compliance data to the statistical Upper Limits shows that the SSI's for chromium occurred in wells MW-17, MW-18, MW-19, and MW-25. The SSI for nickel occurred in well MW-17, and the SSI for zinc occurred in well MW-24. The detected concentration of chromium in MW-17 exceeds the corresponding NCAC 2L groundwater quality standard for chromium. All of the remaining reported concentrations of metals including those representing a statistically significant increase over background values are less than the corresponding NCAC 2L groundwater quality standard for Class GA groundwater.

The following is a discussion of the Appendix I metals results which represented SSIs during the current event as well as the exceedance of vanadium above the 15A NCAC 2L groundwater standard:

- The Appendix I metals chromium and nickel were detected at well MW-17 at a reported concentrations greater than their respective corresponding NCAC 2L groundwater quality standards and higher than their respective statistical Upper Limits which resulted in a statistically significant increase (SSI) for these metals in MW-17. A review of historic analytical data for well MW-17 suggests that this was the first detection of both chromium and nickel at this well. As the first detection of chromium and nickel at this well, the current results were suspect outlier data points. Rosner's test for outliers was applied in order to determine if these values are true statistical outliers. The results of the statistical outlier test confirmed that the current results of 112 μg/L of chromium as well as 87.7 μg/L of nickel in MW-17 are true statistical outliers. Additionally groundwater analytical results for the December 2008 monitoring event were used to further assess the suspect anomalous chromium and nickel detections. Results for the December 2008 event report chromium and nickel concentrations two orders of magnitude less than that results from the May 2008 monitoring event, and more consistent with prior chromium and nickel results for this well.

- Chromium was also detected in monitoring wells MW-18, MW-19, and MW-25 at reported concentrations higher than the statistical Upper Limit for chromium. These results also represent SSIs for chromium in these wells. Due to the spike in chromium concentrations from all of these wells during the May 2008 monitoring event, and because slug type releases of metals are not typical at solid waste management facilities, these data are suspected of being anomalous and outliers. Rosner's test for outliers was applied in order to determine if these values are true statistical outliers. The results of the statistical outlier test confirmed that the current results of 30.3 μg/L and 14.1 μg/L of chromium in monitoring wells MW-18 and MW-25 respectively, are statistical outliers. The reported concentration of 11.1 μg/L in monitoring well MW-19 is not a statistical outlier.

- Currently, there is no established NCAC 2L groundwater quality standard for vanadium. However, North Carolina has established a Groundwater Protection Standard (GPS) for vanadium, which is set at 3.5 μg/L. Several of the reported estimated vanadium concentrations are below the GPS for vanadium. However, the estimated vanadium concentrations from monitoring wells MW-16, MW-19, MW-20, and MW-25B are above the GPS for vanadium.

- The Appendix I metal zinc was detected at well MW-24 at a reported concentrations less than its corresponding NCAC 2L groundwater quality standards. As with chromium and nickel in MW-17, the current result for zinc in well MW-24 is suspected of being an outlier. In order to determine if the current result at well MW-24 is true statistical outliers, the Rosner's test for outliers was used. The results of the statistical outlier test confirmed that the current result of 154 μg/L of zinc in MW-24 is a true statistical outlier. Additionally groundwater analytical results for the December 2008 monitoring event were used to further assess the suspect anomalous zinc detection. Results for the December 2008 event report a zinc concentration two orders of magnitude less than the result from the May 2008 monitoring event, and more consistent with the prior zinc results for this well.

With the exception of chromium in MW-19, the reported concentrations of metals in select monitoring wells which represent SSIs during the May 2008 monitoring event are true statistical outliers and are suspected of being anomalous. The statistical analyses of the analytical results of the recent December 2008 monitoring event indicate that none of these metals triggered an SSI during the December 2008 event. Based on the statistical outlier test results, the SSIs which occurred during the April 2008 monitoring event are the result of statistical outliers in the compliance data set. Identifying a questionable result as an outlier within the compliance data set gives credence to the conclusion that the suspect data is anomalous and should be excluded from the compliance results. Consequently the SSIs which resulted from these outliers should not trigger Assessment Monitoring.

S&ME previously completed an Alternate Source Demonstration (ASD) for metals in the adjoining Phase II portion of the White Street Landfill Facility. The North Carolina Department of Environment and Natural Resources (NC DENR) approved the findings presented in ASD. The results of the ASD show that the exceedance of vanadium above it's respective 15A NCAC 2L Standard is not likely due to a release by the Facility, but instead may be attributed to the natural occurrence of vanadium in the native, residual soil at concentrations sufficient to influence the concentrations of vanadium in groundwater samples. Additionally, the EPA approved Dilution Attenuation Factor (DAF) calculations completed for the ASD suggest that the expected groundwater concentration of vanadium is 532.78 μg/L due to influence from the overlying native in-situ soil.

Although the ASD was undertaken in the Phase II portion of the Facility, based on soil descriptions obtained during the installation of the original as well as subsequent groundwater monitoring wells across the White Street Landfill Facility, the soils at the Facility appear to be relatively homogeneous in composition. Therefore the results of the ASD are likely applicable to the Phase III portion of the Landfill.

Consequently, the reported concentrations of chromium, vanadium, and zinc during the current sampling event in all of the compliance data from the previously mentioned monitoring wells in which these metals were detected are below the expected DAF calculated groundwater concentration for the respective metals and therefore may not be indicative of a metals release from the Facility.

No Appendix I volatile organic compounds were detected at the surface sample locations. No Appendix I metals were detected at concentrations exceeding the corresponding NCAC 2B surface water standard except for the estimated detection of 2.2 ug/L silver at SW-3. Sample location SW-3 is located up stream of the facility, and not influence by surface waters stemming from Phase III. As such it does not represent conditions associated with Phase III.

2. INTRODUCTION

White Street Landfill Phase III is a Solid Waste Management Facility (SWMF) located at the north end of White Street in northeastern Greensboro. The City of Greensboro operates this lined Subtitle D landfill under Solid Waste Permit #41-12. **Figure 1** is a map showing the monitor well locations. S&ME, Inc. (S&ME) was contracted by the City of Greensboro to conduct this bi-annual water quality monitoring event. Two upgradient and 10 downgradient monitoring wells are located along the perimeter of the Phase III disposal area. Surface water samples were collected in accordance with the approved site Sampling and Analysis Plan.

The Phase III monitoring well samples were analyzed for the full RCRA Subtitle D Appendix I parameters. The surface water samples were also analyzed for the Appendix I list of constituents. This report discusses the field procedures, summarizes the field measurements and analytical results, and presents the statistical evaluation results for the May 2008 water quality monitoring event.

3. SCOPE OF WORK

S&ME completed the following tasks as part of this monitoring event:

- Sampled the 12 monitoring wells and three surface water locations.
- Obtained field values for pH, temperature, dissolved oxygen (DO), turbidity, oxidation-reduction potential (ORP), and conductivity at each sample location.
- Collected depth to water measurements during well purging to monitor drawdown.
- Had the samples analyzed for Appendix I constituents by a North Carolina certified laboratory using State approved methods.
- Determined groundwater flow rates and directions at the Phase III area monitoring well locations.
- Collected a sample of landfill leachate from the wet well for laboratory analyses.
- Prepared and submitted reports to the City of Greensboro and the State of North Carolina.

4. METHODS EMPLOYED

4.1 Monitoring Well Sampling

Groundwater monitoring well sampling took place on May 1 and 2, 2008. The monitoring well locations are shown on **Figure 1**. A representative from S&ME opened each well and measured the static water level from the top edge of the PVC casing. Since dedicated MicroPurge pumps were previously installed in each groundwater monitoring well as described in the monitoring well construction details reported in the "Baseline Groundwater Monitoring Report, Phase III" prepared by G.N. Richardson and Associates, dated May 1998, micro purge sampling techniques were used for groundwater sample collection. Monitoring well construction details from the same report were used to determine the volume of water in the monitoring wells. The groundwater elevation data are summarized in **Table 1**.

At each well, the purge rate and the drawdown of the water table were monitored as an indicator of how much stress the purging placed on the aquifer. The purge rates were calculated by recording the time required to fill a graduated cylinder. The purging flow rate was approximately 100 milliliters/minute (ml/min.). During purging, the depth to water was periodically monitored and recorded on the groundwater sampling field data sheets.

For the Phase III sampling event, the measured drawdown in the sampled wells is generally less than 3 feet. The field data sheets are included in **Appendix A**. **Table 2** summarizes the results of the field measurements.

Groundwater samples were collected from the dedicated Teflon tubing at each of the pumped wells. Immediately upon collection, each sample was placed into laboratory supplied containers, packed on ice, and placed under chain-of-custody. The sampling technician wore latex gloves, which were changed between wells to reduce the possibility of cross contamination. All samples collected from Phase III monitoring wells were analyzed for Appendix I volatile organic and inorganic constituents. Analyses were conducted by Environmental Conservation Laboratories, a North Carolina certified laboratory.

4.2 Statistical Analysis of Data

4.2.1 Software

All data were analyzed using *ChemStat 6.2* software package. The *ChemPoint 4.4* database management system was used to input and create the Data files based on the recent and historic laboratory data. The *ChemPoint* database is then converted to an ASCII tab delimited file for use by the *ChemStat* software. The following procedures were used to carry out temporal and spatial analyses of the data for each constituent.

4.2.2 Statistical Methods-Groundwater Analyses

In accordance with the DEHNR-Solid Waste Management Rules 15A NCAC 13B, Section 1632 (dated 1/7/97), several rounds of samples were collected from groundwater monitoring wells that comprise the Subtitle D monitoring well system and the analytical results were used to create a statistical baseline for statistically significant increases in constituent concentrations. This sampling round (May 2008) will be incorporated into the baseline for the next round of sampling.

The following procedure is used to analyze each new data set:
A descriptive statistics program is run to provide the following information about the data.

- mean
- standard deviation
- variance
- percentage non-detects
- Time versus concentration graphs were prepared for each detected parameter and

used to evaluate data trends and to identify potential data outliers.

- The detected parameter data sets were analyzed using non-parametric Upper Tolerance Limits (Inter-Well Comparisons) due to the large number of non-detects and the lack of normality. These methods have been proven to be reliable for large databases with a high portion of non-detect results.

4.3 Stream Sampling

Surface water sampling took place on May 5, 2008. Two stream samples (SW-2 and SW-3) were collected in accordance with the approved site Sampling and Analysis Plan. Inadvertently, stream sample SW-1 was not collected during this sampling event as it was removed from the revised and NCDENR approved Sampling and Analysis Plan for Phases I and II of the facility. Sample locations SW-1 is located upstream from the landfill near the US Highway 29 bridge approximately 1 mile upstream, and is not influenced by the facility. The stream sample locations are indicated on **Figure 2**. The surface water samples were collected by immersing laboratory-supplied containers in the water to be sampled. After collection, the surface water samples were packed on ice and placed under chain-of-custody. All stream samples were analyzed for Appendix I inorganic and volatile organic constituents by Environmental Conservation Laboratories; a North Carolina certified laboratory.

5. RESULTS

5.1 Groundwater Analytical Results

The results of the laboratory analyses for Appendix I constituents in the Phase III area groundwater monitoring wells are summarized in **Tables 3** and **4**, with the complete laboratory reports included in **Appendix B**.

- No Appendix I volatile organic compound were detected at the sampled groundwater locations during this monitoring event.
- The Appendix I metal chromium was detected at well MW-17 at a concentration of 112 μg/L which exceeds the corresponding 50 μg/L NCAC 2L groundwater quality standard.
- The Appendix I metals, arsenic, barium, chromium, cobalt, copper, nickel, selenium, silver, thallium, vanadium, and zinc were detected at one or more of the 12 wells sampled in Phase III. Many of the reported concentrations of these metals were values between the Method Detection Limit (MDL) and the North Carolina Solid Waste Section Limit (SWSL) for the respective constituent and are therefore flagged as a "J" value and considered only estimated values.
- Barium, chromium, copper, nickel, and zinc were quantified (reported at a concentration greater than the SWSL) in one or more in monitoring wells; however, the reported concentrations were both below the corresponding NCAC 2L groundwater quality standard for Class GA groundwater.
- Currently, there is no established 15A NCAC 2L groundwater standard for cobalt or vanadium. However, North Carolina has published a Groundwater Protection Standard (GPS) for both cobalt and vanadium, which is set at 70 μg/L, and 3.5 μg/L

respectively. The GPS values have been established by toxicologists and are considered safe levels for the constituent of concern in private drinking water wells over a lifetime of consumption. Cobalt was only detected in the groundwater samples collected from monitoring well MW-16, MW-18, MW-21, and MW-24 during the current event at estimated, "J" flagged reported concentrations. The estimated cobalt concentrations are below the GPS for cobalt. Vanadium was detected in the groundwater samples collected from monitoring wells MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-25, and MW-25B during the current event at estimated, "J" flagged reported concentrations. The reported estimated concentrations in monitoring wells MW-17, MW-18, MW-21, and MW-25 are below the GPS for vanadium. However, the estimated concentrations reported in the groundwater samples from monitoring wells MW-16, MW-19, MW-20, and MW-25B are above the GPS for vanadium. S&ME previously prepared an Alternate Source Demonstration (ASD) for metals at the Facility. The ASD demonstrating that vanadium is naturally occurring in the in-situ soil at the Facility and is at sufficient concentrations within the soil to influence groundwater quality. Therefore, the exceedance of vanadium above the GPS should not reflect impact stemming from the Facility.

No other Appendix I metal was detected in any of the remaining Phase III monitoring wells sampled, on the dates the samples were collected.

5.2 Statistical Results

5.2.1 Overview of Database

The "Baseline Groundwater Monitoring Report, Phase III Cell, White Street Sanitary Landfill," prepared by G.N. Richardson & Associated, dated June 1998, summarizes the baseline monitoring data. The baseline monitoring samples were collected using the hand bailing procedures outlined in the approved Water Quality Monitoring Plan. Prior to the October 1998 monitoring event, but subsequent to the Baseline Groundwater Monitoring Report, the facility's approved Water Quality Monitoring Plan was modified to permit the use of dedicated MicroPurge pumps for monitoring well sample collection. This modification was approved by the North Carolina Department of Environment and Natural Resources (NCDENR) Solid Waste Section prior to conducting the monitoring event. Therefore, this monitoring event represents the seventeenth monitoring event using the MicroPurge pumps for sample acquisition.

In our statistical evaluation, non-detects are assigned values equal to their respective quantitation limits. This method of handling non-detects was used as part of the statistical analyses completed as part of the baseline water quality monitoring evaluations as set forth in the NC Solid Waste Section memo dated January 18, 1995.

5.2.2 Statistical Analyses

5.2.2.1 Descriptive Statistics

The descriptive statistics program calculates the pooled mean, background mean, pooled standard deviation, background standard deviation, rank sum, rank mean, and variance

for each constituent detected in each well. The percentages of all sample analyses for which the concentrations are below the quantitation limits (non-detects) are also calculated by constituent for each well. The descriptive statistic report is included in **Appendix C**.

5.2.2.2 Time vs. Concentration Graphs

This graph displays a plot of the concentration of one parameter for a single well over time. The concentration is plotted along the vertical axis and the sample dates are plotted along the horizontal axis. The graphs are used to visually examine changes in concentration over time for a parameter at a given well. The graphs can be found in **Appendix D**.

The time vs. concentration graph for chromium at wells MW-17, MW-18, and MW-25 indicate that the first detection of chromium in these wells occurred during the current May 2008 sampling event. Since chromium was first detected in each of these wells during the current sampling event, the current result represents a spike in chromium at wells MW-17, MW-18, and MW-25. However, no meaningful data trends can be inferred from this data set regarding projected future trends.

The time vs. concentration graph for nickel at well MW-17 indicates that the first detection of nickel in well MW-17 also occurred during the current May 2008 sampling event. Since nickel was first detected in this well during the current sampling event, the current result represents a spike in nickel at wells MW-17 and no meaningful data trends can be inferred from this data set regarding projected future trends.

Zinc has only been detected twice at monitoring well MW-24. The first detection occurred during the September 2007 groundwater monitoring event, and the second occurrence was during the current May 2008 groundwater monitoring event. Therefore, the time vs. concentration graph for zinc at well MW-24 does not clearly indicate a trend for zinc at this well; however the reported concentration from the current event is slightly higher than the reported concentration during the September 2007 monitoring event.

The remaining time series plots not discussed above but included in Appendix D are interpreted to suggest inconsistent or no discernable concentration trends in the particular constituent over time.

Analytical data from future monitoring events will be used to re-evaluate the trends interpreted from the time series plots.

5.2.2.3 Interwell Statistical Comparisons

Non-parametric Upper Tolerance Intervals were calculated from the background data set to determine if any detected individual compliance parameter concentration represents a statistically significant increase over the historic background concentrations. This test method compares the analytical data from each compliance well during the current sampling event to Upper Limits computed from the pooled background data set.

5.2.2.4 Non-Parametric Tolerance Limits Test

In order to analyze the laboratory analytical results for evidence of statistically significant increases (SSIs) over background values, the data distribution of all of the detected monitored constituents was first analyzed. Due to the large size of the pooled historical results database, the Shapiro-Francia Test of Normality was utilized. This statistical test of data distribution can effectively determine if large data sets are parametrically or non-parametrically distributed.

For all of the analyzed data sets, the data distribution tests indicated a non-parametric distribution likely due to a relatively high percentage of non-detects in the analyzed database even at the 95% Confidence Level. As a result, Non-Parametric Upper Limits Computations were employed in order to calculate the appropriate Statistical Upper Limit for each of the detected monitored parameters. Non-parametric Tolerance Limits were selected for use in calculation of the statistical Upper Limits. In order to determine if any individual parameter concentration detected during this monitoring event represent a statistically significant increase over the historic background concentrations, once the respective Upper Limit was obtained, the compliance data were compared via an Inter-Well Comparison to the Statistical Upper Limit to determine if an SSI may have occurred.

The Tolerance Limit Test suggests that three inorganic parameters (chromium, nickel, and zinc) were detected during this monitoring event in concentrations that exceed the corresponding Statistical Upper Limit. The Inter-Well comparisons of the compliance data to the statistical Upper Limits suggest compliance wells MW-17, MW-18, MW-19, and MW-25 contain one or more of the three inorganic parameters detected at concentrations that suggest a statistically significant increase over the historic background concentrations.

There were no volatile organic constituents detected in any of the Phase III groundwater monitoring wells during the current May 2008 groundwater monitoring event.

The computations used to calculate the normality of the data distribution are included in Appendix E. The Non-Parametric Upper Tolerance Limits are included in **Appendix F**.

5.2.2.5 Statistical Outlier Tests

The compliance data set was analyzed for the presence of statistical outliers to determine if the SSIs which occurred during this monitoring event were the result of outliers in the pooled compliance data. In order to complete this analysis, S&ME utilized the Rosner's Test for Outliers. This test computes the mean and standard deviation of the pooled compliance data set from which a Rosner statistic is calculated. The Rosner statistic is then compared to a critical "Lambda" value which determines outlier data points within the pooled compliance data set.

The results of the statistical outlier tests indicate that the current reported chromium results in monitoring wells MW-17, MW-18, and MW-15 are true statistical outliers. Additionally the current reported nickel result in MW-17 as well as the reported zinc

result in MW-24 are true statistical outliers.

Identifying a questionable result as an outlier within the compliance data set gives credence to the conclusion that the suspect data is anomalous and should be excluded from the compliance results. The statistical outlier test results are included in **Appendix F.**

5.3 Hydraulic Conductivity

In-situ hydraulic conductivity tests were performed by G.N. Richardson and Associates, Inc. (GNRA) on wells MW-16, MW-17, MW-18, MW-20, MW-21, MW-23, MW-25, during January 1998. The in-situ hydraulic conductivity tests were performed by GNRA on monitoring wells MW-15, MW-19, MW-22, MW-24, and MW-25d during March 1998. The data from these tests yielded hydraulic conductivity values ranging from 0.090 feet/day (in MW-24) to 3.269 feet/day (in MW-18). A complete discussion of the test methods and calculations was presented in the "Baseline Groundwater Monitoring Report, Phase III" prepared by G.N. Richardson and Associates, dated May 1998. This data is summarized on **Table 5** and was used to calculate groundwater flow velocities across the site.

5.4 Groundwater Flow Direction and Rate

The static water levels in the Phase III monitoring wells were measured in May 2008. The depth to the water table ranged from 3.11 feet to 26.46 feet below the top of well casing on these dates. Groundwater and well casing elevation data are presented in **Table 1** and summarized on **Figure 1**. A groundwater contour map was constructed using the data collected in May 2008 and is presented as **Figure 1**. Based on our field data, groundwater appears to be flowing north-northwest beneath the west half of Phase III and generally to the north-northeast in the eastern half of Phase III. The groundwater gradient at each well was calculated assuming a constant groundwater gradient along the flow line between adjacent groundwater elevation contours or between the compliance well and the upgradient well.

Based on a variation of Darcy's Law, the rate of groundwater movement within the regolith aquifer was calculated at each monitoring well using the following equation:

$$V = \frac{Ki}{n}$$

Where **V** = velocity (ft/day)
K = hydraulic conductivity (ft/ft)
i = groundwater gradient (ft/ft)
n =effective porosity (dimensionless)

Calculated hydraulic conductivity and gradient values and estimated effective porosity values for each well were used in the velocity calculations. The 20 percent effective porosity value is based on porosity and specific yield versus grain size distribution relationships presented in Fetter (1988), and is typical of the types of soils (predominantly silts and sandy silts with some clays) comprising the regolith at the landfill. The calculated groundwater velocities ranged from 0.011 at monitoring well

MW-24 to 0.643 ft/day at monitoring well MW-25 and are summarized in **Table 5**.

5.5 Surface Water

The results of the laboratory analyses for Appendix I constituents in the surface water samples are summarized in **Tables 6** and **7**. The complete laboratory reports are included in **Appendix B**.

- No Appendix I volatile organic compounds were detected at the surface sample locations.
- Appendix I metals arsenic, barium, copper, nickel, silver, and zinc were detected at one or more of the surface water sample locations. The reported concentrations of these metals during the current surface water monitoring event were values between the Method Detection Limit (MDL) and the North Carolina Solid Waste Section Limit (SWSL) for the respective constituent and are therefore flagged as a "J" value and considered only estimated values. The reported estimated concentrations for arsenic, copper, nickel, and zinc are less than the corresponding NCAC 2B surface water standards. Currently, there is no corresponding NCAC 2B surface water standard for barium. Silver was detected solely at sample location SW-3 at a concentration greater than the corresponding NCAC 2B surface water standards. Sample location SW-3 is up stream of the White Street Landfill Facility and therefore not influenced by runoff and/or impacted groundwater from the Facility.

5.6 Leachate Sample Analytical Results

On May 5, 2008, a sample of leachate was collected from the wet well in Phase III. The collected sample was submitted for laboratory analyses for Appendix I Volatile Organic Compounds, Appendix I Metals, Nitrate, Sulfur, Sulfate, Phosphate, Biological Oxygen Demand, and Chemical Oxygen Demand. **Table 8** provides a summary of the associated analytical results. The leachate analytical data is being collected to establish a database of common leachate constituents. The leachate analyses data from this event will be compared with subsequent events.

5.7 Quality Assurance

A duplicate sample was collected from monitoring well MW-19 and submitted for analysis as "Duplicate III". This sample was analyzed for Appendix I inorganics and volatile organics. The detected constituents in MW-19 were consistent with those of "Duplicate III", suggesting a good correlation between the sample analytical results. Trip blank samples accompanied the sample bottles from the time they left the laboratory until they returned. These samples were analyzed for Appendix I volatile organic constituents. No volatile organic constituents were present in the trip blank samples at detectable levels. Laboratory QC samples were analyzed for all constituents included in this sampling event. The results of the duplicate, trip blank, and laboratory QC sample analyses are included in **Appendix B**. The NCDENR Environmental Monitoring Reporting Form is included in **Appendix G**.

6. REFERENCES

Fetter, C. W., 1988, Applied Hydrogeology, New York; Macmillan Publishing Company, 1988, 592 pp.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2L, Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina, Sections .0100, .0200, and .0300 (November 8, 1993); from the Environmental Management Commission Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Environmental Management, Subchapter 2B, Classifications and Water Quality Standards Applicable to the Surface Waters of North Carolina, Section .0200 (April 1, 1991); from the Environmental Management Commission, Raleigh, North Carolina.

North Carolina Administrative Code, Title 15A, Department of Environment, Health and Natural Resources, Division of Solid Waste Management, subchapter 13B, Solid Waste Management, Section .1600 (January 1, 1997).

TABLES

Table 1

Groundwater Elevation Data Summary (04/08)
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Well No.	Elevation TOC (feet)	Depth of Well (feet)	Static Water Levels			
			April 9-10, 2007		May 1, 2008	
			DTGW (feet)	Elevation (feet)	DTGW (feet)	Elevation (feet)
MW-15	794.81	60.0	23.39	771.42	26.46	768.35
MW-16	758.02	28.5	20.58	737.44	19.23	738.79
MW-17	755.05	31.5	11.71	743.34	9.3	745.75
MW-18	742.70	17.5	10.29	732.41	9.62	733.08
MW-19	740.70	35.0	14.42	726.28	15.82	724.88
MW-20	748.87	25.0	14.58	734.29	13.99	734.88
MW-21	743.32	18.5	5.48	737.84	3.90	739.42
MW-22	744.43	30.0	9.54	734.89	8.34	736.09
MW-23	744.25	33.5	12.64	731.61	9.19	735.06
MW-24	752.52	12.0	3.54	748.98	3.11	749.41
MW-25	746.47	17.0	12.6	733.87	11.54	734.93
MW-25B	746.19	32.0	11.61	734.58	12.36	733.83

TOC = Top of Casing. Elevations determined by survey: HDR Engineering, Inc.
Depth of well data as reported by HDR Engineering Inc. and G.N. Richardson & Associates
DTGW = Depth to Groundwater
Elevation = calculated groundwater elevation

Table 2
Groundwater & Surface Water Field Data Summary (04/08)
Phase III - White Street Landfill
White Street Landfill
S&ME Project No. 1584-98-081

Location: MW-15

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1600	1-May-08	19.47	67.0	7.12	0.560	-247	2.09	13.51	26.46
0016	1-May-08	17.99	64.4	7.28	0.448	-289	1.33	2.12	
1610	1-May-08	17.72	63.9	7.31	0.446	-302	1.15	3.08	
1615	1-May-08	18.64	65.6	7.27	0.444	-304	0.98	2.96	
1620	1-May-08	19.01	66.2	7.26	0.443	-305	0.88	3.05	
1625	1-May-08	19.34	66.8	7.28	0.442	-305	0.88	3.02	

Location: MW-16

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1245	1-May-08	19.47	67.0	6.06	0.512	-111	1.65	4.41	19.23
1250	1-May-08	19.87	67.8	6.05	0.354	-183	1.38	6.43	
1255	1-May-08	20.41	68.7	5.96	0.328	-189	1.30	3.18	
1300	1-May-08	20.50	68.9	5.93	0.322	-196	1.20	2.8	
1305	1-May-08	20.08	68.1	5.94	0.322	-196	1.19	2.42	

Location: MW-17

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0905	2-May-08	18.07	64.5	5.94	0.191	-84	1.76	8.82	9.30
0910	2-May-08	17.75	64.0	5.86	0.187	-134	1.66	3.11	
0915	2-May-08	18.05	64.5	5.77	0.186	-159	1.54	1.65	
0920	2-May-08	18.11	64.6	5.78	0.185	-175	1.33	1.22	
0925	2-May-08	18.25	64.9	5.74	0.184	-186	1.30	1.4	
0930	2-May-08	18.18	64.7	5.75	0.185	-189	1.25	1.52	

Location: MW-18

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0810	2-May-08	16.46	61.6	6.39	0.252	-47	1.60	9.71	9.62
0815	2-May-08	14.57	58.2	6.37	0.289	-81	1.44	11.84	
0820	2-May-08	13.86	56.9	6.29	0.251	-90	1.03	10.97	
0825	2-May-08	13.82	56.9	6.01	0.208	-180	0.89	10.39	
0830	2-May-08	14.13	57.4	5.92	0.194	-221	0.97	8.71	
0835	2-May-08	14.43	58.0	5.93	0.194	-216	1.13	7.18	
0840	2-May-08	14.52	58.1	5.95	0.194	-213	1.16	7.54	

Location: MW-19

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0735	1-May-08	12.62	54.7	6.03	0.304	13	2.10	29.2	15.82
0740	1-May-08	12.75	55.0	5.87	0.272	10	2.10	15.07	
0750	1-May-08	13.33	56.0	5.84	0.286	-6	2.01	9.8	
0755	1-May-08	13.47	56.2	5.84	0.280	-9	2.03	7.4	
0800	1-May-08	13.44	56.2	5.83	0.289	-10	2.04	7.85	
0805	1-May-08	13.51	56.3	5.85	0.291	-11	2.06	7.64	

Location: MW-20

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1045	1-May-08	18.20	64.8	6.08	0.478	-29	1.96	15.17	13.99
1050	1-May-08	17.34	63.2	6.15	0.595	-71	1.44	4	
1055	1-May-08	17.63	63.7	6.19	0.603	-96	1.11	1.86	
1100	1-May-08	17.63	63.7	6.20	0.601	-122	0.80	1.51	
1105	1-May-08	17.76	64.0	6.19	0.599	-137	0.66	1.25	
1110	1-May-08	17.77	64.0	6.20	0.598	-144	0.57	1.35	
1115	1-May-08	17.80	64.0	6.20	0.596	-151	0.52	1.58	
1120	1-May-08	17.79	64.0	6.22	0.596	-155	0.49	1.62	

Table 2
Groundwater & Surface Water Field Data Summary (04/08)
Phase III - White Street Landfill
White Street Landfill
S&ME Project No. 1584-98-081

Location: MW-21

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1145	1-May-08	18.87	66.0	5.91	0.215	-1	2.17	3.35	3.90
1150	1-May-08	18.26	64.9	5.71	0.173	-29	1.81	2.60	
1155	1-May-08	18.28	64.9	5.70	0.170	-55	1.43	2.48	
1200	1-May-08	18.44	65.2	5.67	0.170	-83	1.19	2.55	
1205	1-May-08	18.31	65.0	5.68	0.170	-106	0.89	2.68	
1210	1-May-08	18.32	65.0	5.68	0.170	-121	0.76	2.21	
1215	1-May-08	18.40	65.1	5.65	0.170	-137	0.67	2.13	
1220	1-May-08	18.30	64.9	5.69	0.169	-134	0.61	2.28	
1225	1-May-08	18.50	65.3	5.68	0.169	-139	0.60	2.04	

Location: MW-22

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1255	1-May-08	25.13	77.2	5.98	0.194	-17	1.43	3.57	8.34
1300	1-May-08	24.77	76.6	6.18	0.243	-35	1.53	6.8	
1305	1-May-08	23.80	74.8	6.38	0.354	-100	1.63	17.32	
1310	1-May-08	23.11	73.6	6.48	0.408	-153	1.37	58.4	
1315	1-May-08	22.90	73.2	6.51	0.418	-200	1.23	118	
1320	1-May-08	22.56	72.6	6.56	0.423	-215	1.16	110	
1325	1-May-08	22.49	72.5	6.57	0.424	-221	1.18	106	

Location: MW-23

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1350	1-May-08	21.40	70.5	7.07	0.557	-153	1.66	50	9.19
1355	1-May-08	19.97	67.9	7.18	0.579	-253	1.20	9.99	
1400	1-May-08	19.57	67.2	7.26	0.576	-275	1.01	3.72	
1405	1-May-08	19.49	67.1	7.35	0.570	-297	0.70	3.96	
1410	1-May-08	19.45	67.0	7.42	0.566	-321	0.51	3.86	
1415	1-May-08	19.55	67.2	7.44	0.565	-339	0.35	3.74	
1420	1-May-08	19.59	67.3	7.49	0.563	-352	0.28	3.44	
1425	1-May-08	19.49	67.1	7.49	0.563	-353	0.28	3.94	

Location: MW-24

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1505	1-May-08	20.01	68.0	6.66	1.108	-196	1.90	10.13	3.11
1510	1-May-08	19.30	66.7	6.65	1.192	-221	1.84	18.48	
1515	1-May-08	19.55	67.2	6.64	1.194	-211	1.95	18.33	
1520	1-May-08	20.15	68.3	6.64	1.198	-209	1.95	16.03	
1525	1-May-08	20.03	68.1	6.66	1.200	-205	2.05	13.26	
1530	1-May-08	20.00	68.0	6.68	1.200	-196	2.11	14.13	

Location: MW-25

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0845	1-May-08	15.09	59.2	5.78	0.163	98	3.00	21	11.54
0850	1-May-08	14.63	58.3	5.66	0.148	49	2.61	13.48	
0855	1-May-08	14.53	58.2	5.68	0.148	40	2.67	7.99	
0900	1-May-08	14.92	58.9	5.71	0.148	34	2.69	5.08	
0905	1-May-08	15.09	59.2	5.72	0.146	29	2.74	5.42	
0910	1-May-08	15.19	59.3	5.69	0.145	28	2.78	5.52	
0915	1-May-08	15.39	59.7	5.71	0.144	27	2.79	5.51	

Location: MW-25B

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0930	1-May-08	16.27	61.3	6.03	0.141	-5	2.54	3.82	12.36
0935	1-May-08	16.29	61.3	5.94	0.147	-9	2.33	2.21	
0940	1-May-08	16.66	62.0	5.93	0.149	-12	2.25	1.96	
0945	1-May-08	16.61	61.9	5.94	0.150	-12	2.24	2.15	
0950	1-May-08	16.96	62.5	5.96	0.151	-14	2.22	2.11	
0955	1-May-08	16.94	62.5	5.93	0.151	-15	2.21	2.25	
1000	1-May-08	17.10	62.8	5.92	0.152	-17	2.18	2.42	

Table 3

Groundwater Analytical Results Summary (4/08)
Appendix I - Volatile Organic Compounds
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Compound	Sample Locations													NC SWSL	NCAC 2L
	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-25B	DUP#3	(µg/l)	stds.
All Compounds	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--

NC SWSL= North Carolina Solid Waste Section Limit
J = Parameters are estimated values between the detection limit and the NC SWSL.
ND = Compound not detected in sample
NCAC 2L stds. = 15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater
Quantities highlighted in yellow were detected above the NC SWSL
Quantities highlighted in green were detected above the 2L standards

Table 4

Groundwater Analytical Results Summary (4/08)
Appendix I - Metals
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Compound	Sample Locations													NC SWSL (µg/l)	NCAC 2L stds.	NC GPS
	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-25B	DUP#3			
Arsenic	ND	3.7 J	ND	2.4 J	2.4 J	ND	4.3 J	ND	ND	ND	ND	ND	ND	10	50	
Barium	30.3 J	148	52.7 J	23.0 J	31.7 J	55.4 J	30.0 J	136	66.6 J	444	19.6 J	16.2 J	32.1 J	100	2000	
Chromium	ND	ND	112	30.3	11.1	ND	3.2 J	ND	ND	ND	14.1	5.2 J	ND	10	50	
Cobalt	ND	2.3 J	ND	3.9 J	ND	ND	2.3 J	ND	ND	4.8 J	ND	ND	2.4 J	10	ns	70
Copper	ND	4.10 J	1.90 J	4.70 J	1.80 J	0.60 J	2.20 J	ND	0.80 J	11.1	2.90 J	ND	2.70 J	10	1000	
Nickel	ND	6.0 J	87.7	25.4 J	9.6 J	5.6 J	3.0 J	ND	ND	5.6 J	14.8 J	4.5 J	2.7 J	50	100	
Selenium	ND	ND	ND	ND	ND	2.1 J	ND	ND	ND	ND	ND	ND	ND	10	5	
Silver	ND	2.9 J	ND	3.0 J	ND	ND	3.1 J	ND	2.0 J	ND	ND	ND	3.1 J	10	18	
Thallium	ND	0.040 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5	0.28	
Vanadium	ND	4.5 J	2.0 J	2.1 J	5.0 J	5.1 J	2.6 J	ND	ND	ND	2.1 J	3.6 J	5.9 J	25	ns	3.5
Zinc	ND	5.5 J	5.8 J	5.4 J	2.2 J	ND	2.5 J	1.0 J	1.0 J	154	2.7 J	ND	5.1 J	10	1050	

NC SWSL= ***North Carolina Solid Waste Section Limit***
ND = ***Compound not detected in sample***
NA = ***compound not analyzed due to well being dry***
NCAC 2L stds. = ***15A North Carolina Administrative Code 2L .0200, Groundwater Quality Standards for Class GA groundwater***
NC GPS = ***North Carolina Groundwater Protection Standard***
If a NCAC 2L is not established the Groundwater Protection Standard is used
J = ***Parameters are estimated values between the detection limit and the NC SWSL.***
ns = ***no corresponding NCAC 2L groundwater quality standard***
all concentrations reported in micrograms per liter (ug/L)
Quantities highlighted in yellow were detected above the NC SWSL
Quantities highlighted in green were detected above the 2L standards
Blue highlights indicate a measurement higher than the North Carolina Groundwater Protection Standard

Table 5

Groundwater Velocity Data (4/08)
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Well No.	Hydraulic Conductivity (K = feet/day)	Porosity (n = %)	Gradient (I = feet/feet)	Groundwater Velocity (V= feet/day)
MW-15	0.265	0.20	0.019	0.025
MW-16	0.331	0.20	0.061	0.100
MW-17	0.160	0.20	0.068	0.054
MW-18	3.269	0.20	0.030	0.492
MW-19	0.716	0.20	0.024	0.087
MW-20	1.336	0.20	0.020	0.137
MW-21	0.681	0.20	0.019	0.066
MW-22	0.325	0.20	0.019	0.031
MW-23	0.173	0.20	0.033	0.028
MW-24	0.090	0.20	0.024	0.011
MW-25	2.088	0.20	0.062	0.643
MW-25d	0.827	0.20	NA	NA

Notes: Hydraulic Conductivity's from slug test data: G.N. Richardson & Associates
Porosity values from published literature, based on soil types
Velocity calculated using V = KI/n
NA = Not Applicable, deeper aquifer monitoring well

TABLE 6
SURFACE WATER ANALYTICAL RESULTS SUMMARY (4/08)
APPENDIX I - VOLATILE ORGANIC COMPOUNDS
PHASE III - WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA
S&ME PROJECT NO. 1584-98-081

Compound	Sample Locations			15A NCAC 2B Standards*	NC SWSL
	SW-1	SW-2	SW-3		
all compounds	not sampled	ND	ND	--	--

NC SWSL = North Carolina Solid Waste Section Limit
ND = Parameter not detected
** = Title 15A NCAC 2B Standards for Class B, C surface water*
J = Parameters are estimated values between the detection limit and the NC SWSL.
ns = Title 15A NCAC 2B provides no established standard for these constituents
Yellow highlights indicate a measurement higher than the NC SWSL.
Green highlights indicate a measurement higher than 2B standards.

Table 7

Surface Water Analytical Results Summary (04/08)
Appendix I - Metals
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Compound	Sample Locations			15A NCAC 2B	NC SWSL
	SW-1	SW-2	SW-3	Standards*	(µg/l)
Arsenic	not sampled	ND	2.4 J	50	10
Barium	not sampled	51.2 J	53.0 J	ns	100
Copper	not sampled	1.30 J	2.50 J	7	10
Nickel	not sampled	3.5 J	3.9 J	88	50
Silver	not sampled	ND	2.2 J	0.06	10
Zinc	not sampled	5.8 J	6.4 J	50	10

ug/L = ***all results reported in micrograms per liter***
NC SWSL= ***North Carolina Solid Waste Section Limit***
ND = ***compound not detected in sample***
**** =*** ***Title 15A NCAC 2B Standards for Class B, C surface water***
J = ***Parameters are estimated values between the detection limit and the NC SWSL.***
ns = ***Title 15A NCAC 2B provides no established standard for these constituents***
Quantities highlighted in yellow were detected above the NC SWSL
Quantities highlighted in green were detected above the 2B standards

Table 8
Leachate Sample Analytical Results Summary
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Appendix I Volatile Organic Compounds

Parameter	"Leachate" September-00 (µg/L)	"Wet Well" March-01 (µg/L)	"Leachate" Septebmer-01 (µg/L)	"Leachate" March-02 (µg/L)	"Leachate" September-02 (µg/L)	"Leachate" April-03 (µg/L)	"Leachate" October-03 (µg/L)	"Leachate" March-04 (µg/L)	"Leachate" October-04 (µg/L)	"Leachate" May-05 (µg/L)	"Leachate" October-05 (µg/L)	"Leachate" April-06 (µg/L)	"Leachate" April-07 (µg/L)	"Leachate" April-08 (mg/L)	NC SWSL (µg/L)
Chloroethane	BQL*	BQL*	BQL**	17	BQL***	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	10
Trichlorofluoromethane	BQL*	BQL*	BQL**	7.0	BQL***	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	1
Acetone	BQL*	BQL*	1400	BQL	BQL***	490****	830****	BQL*	BQL*	BQL[5]*	BQL*	1780**	6800**	1400	100
Methylene Chloride	97	120	BQL**	37	BQL***	BQL*	13	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	1
1,1-Dichloroethane	46	BQL*	BQL**	30	28	27*	5.2	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	5
cis 1,2-dichloroethene	BQL*	BQL*	BQL**	6.4	BQL***	BQL**	BQL	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	5
4-Methyl-2-pentanone	BQL*	BQL*	BQL**	BQL	BQL***	BQL	BQL	BQL*	BQL*	BQL	BQL*	BQL**	BQL	140	100
2-Hexanone	BQL*	BQL*	BQL**	BQL	BQL***	BQL	BQL	BQL*	BQL*	BQL	BQL*	BQL**	BQL	6.0	50
2-Butanone	BQL*	BQL*	2600	BQL	BQL***	1100****	1200****	BQL*	BQL*	BQL[5]*	BQL*	1650**	7500**	2000	100
1,1,1-Trichloroethane	BQL*	BQL*	BQL**	8.2	BQL***	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	1
Benzene	BQL*	BQL*	BQL**	10	BQL***	BQL*	8.1	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	8.4	1
Trichloroethene	BQL*	BQL*	BQL**	7.5	BQL***	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	1
Toluene	350	220	390	190*	220***	220*	240****	400	BQL*	73	55	12.8**	150**	41	1
Ethylbenzene	49	BQL*	BQL**	60	48***	56*	40	46	BQL*	31	BQL*	18.2**	87 J	48	1
m & p, Xylenes	120	65	110	140	95***	120*	87	110	38*	69	56	35**	BQL**	BQL	NE
o-Xylenes	34	BQL*	BQL**	46	32***	37*	29	32	BQL*	BQL*	BQL*	13.8**	240**	120	NE
1,4-Dichlorobenzene	BQL*	BQL*	BQL**	6.0	BQL***	BQL*	5.4	BQL*	BQL*	BQL*	BQL*	BQL**	BQL[5]	13	1

PQL = Methods Practical Quantitation Limits
BQL = Analytical results is less than the corresponding PQL
BQL* = Analyte Value Determined from a 1:5 dilution
BQL** = Analyte Value Determined from a 1:10 dilution
BQL = Analyte Value Determined from a 1:2 dilution***
BQL* = Analyte Value Determined from a 1:25 dilution***
BQL [5] = Analyte Value Determined from a 1:100 dilution

Parameters highlighted in yellow exceed the PQL.

Appendix I Metals

Compound	"Leachate" September-00 (ug/L)	"Wet Well" March-01 (ug/L)	"Leachate" September-01 (ug/L)	"Leachate" March-02 (ug/L)	"Leachate" September-02 (ug/L)	"Leachate" April-03 (ug/L)	"Leachate" October-03 (ug/L)	"Leachate" March-04 (µg/L)	"Leachate" October-04 (µg/L)	"Leachate" May-05 (µg/L)	"Leachate" October-05 (µg/L)	"Leachate" April-06 (µg/L)	"Leachate" April-07 (µg/L)	"Leachate" April-08 (mg/L)	NC SWSL (ug/L)
Antimony	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	56.1	19.2	6
Arsenic	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	23.4	23.4	2.5 J	10
Barium	580	BQL	550	580	740	590	BQL	BQL	570	BQL	BQL	678	609	762	100
Cadmium	5	21	9.7	13	16	1.6	2.2	2.3	BQL	BQL	BQL	BQL	BQL	BQL	1
Chromium	10	BQL	13	23	27	15	BQL	16	BQL	BQL	BQL	14.7	35	BQL	10
Cobalt	BQL	BQL	13	25	23	BQL	BQL	18	BQL	BQL	BQL	26.6	25.8	25.8	10
Lead	BQL	BQL	BQL	BQL	13	BQL	BQL	BQL	BQL	BQL	BQL	BQL	4.9 J	3.1 J	10
Nickel	BQL	BQL	BQL	110	99	75	BQL	BQL	61	300	BQL	1189	164	189	50
Silver	BQL	BQL	BQL	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10
Vanadium	BQL	BQL	58	45	89	41	BQL	BQL	BQL	BQL	BQL	54	36.2	12.5 J	25
Zinc	120	BQL	50	80	290	100	BQL	BQL	BQL	250	BQL	97.2	87.8	54.8	10

Miscellaneous Parameters

Compound	"Leachate" September-00 (mg/L)	"Wet Well" March-01 (mg/L)	"Leachate" September-01 (mg/L)	"Leachate" March-02 (mg/L)	"Leachate" September-02 (mg/L)	"Leachate" April-03 (mg/L)	"Leachate" October-03 (mg/L)	"Leachate" March-04 (mg/L)	"Leachate" October-04 (mg/L)	"Leachate" May-05 (µg/L)	"Leachate" October-05 (µg/L)	"Leachate" April-06 (µg/L)	"Leachate" April-07 (µg/L)	"Leachate" April-08 (mg/L)	NC SWSL (mg/L)
Nitrate	BQL	BQL	BQL	400	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2	0.46	no data	NA
Nitrite	BQL	BQL	50	BQL	BQL	no data	no data	ND	<0.10	no data	no data	2	0.032 J	no data	NA
Sulfate	BQL	BQL	2 J	BQL	BQL	11	2.9	4.2	2.3	11.3	2.2	5	3.1 J	3.1 J	NA
Phosphorous	5.43	260	1	330	0.83	2.5	0.28	0.78	0.93	4.3	1.2	3	3.6	2.3	NA
pH	ND	6.4	6.5	6.6	6.4	7 Q	6.9 Q	6.5 Q	6.6 Q	7.2 Q	6.9 Q	7.09	6.6	7	NA
Biological Oxygen Demand (BOD)	22.6	300	83	44	19	59J	330	56	34	119J	27.7	200	3400	960	NA
Chemical Oxygen Demand (COD)	166	580	330	200	210	690	390	220	240	1,810	425	1340	5400	1900	NA

J = Analyte detected; value is between the Method Detection Limit (MDL) and PQL
NC SWSL=North Carolina Solid Waste Section Limit
BQL = Analytical results is less than the corresponding PQL

Parameters highlighted in yellow exceed the NC SWSL.

FIGURES

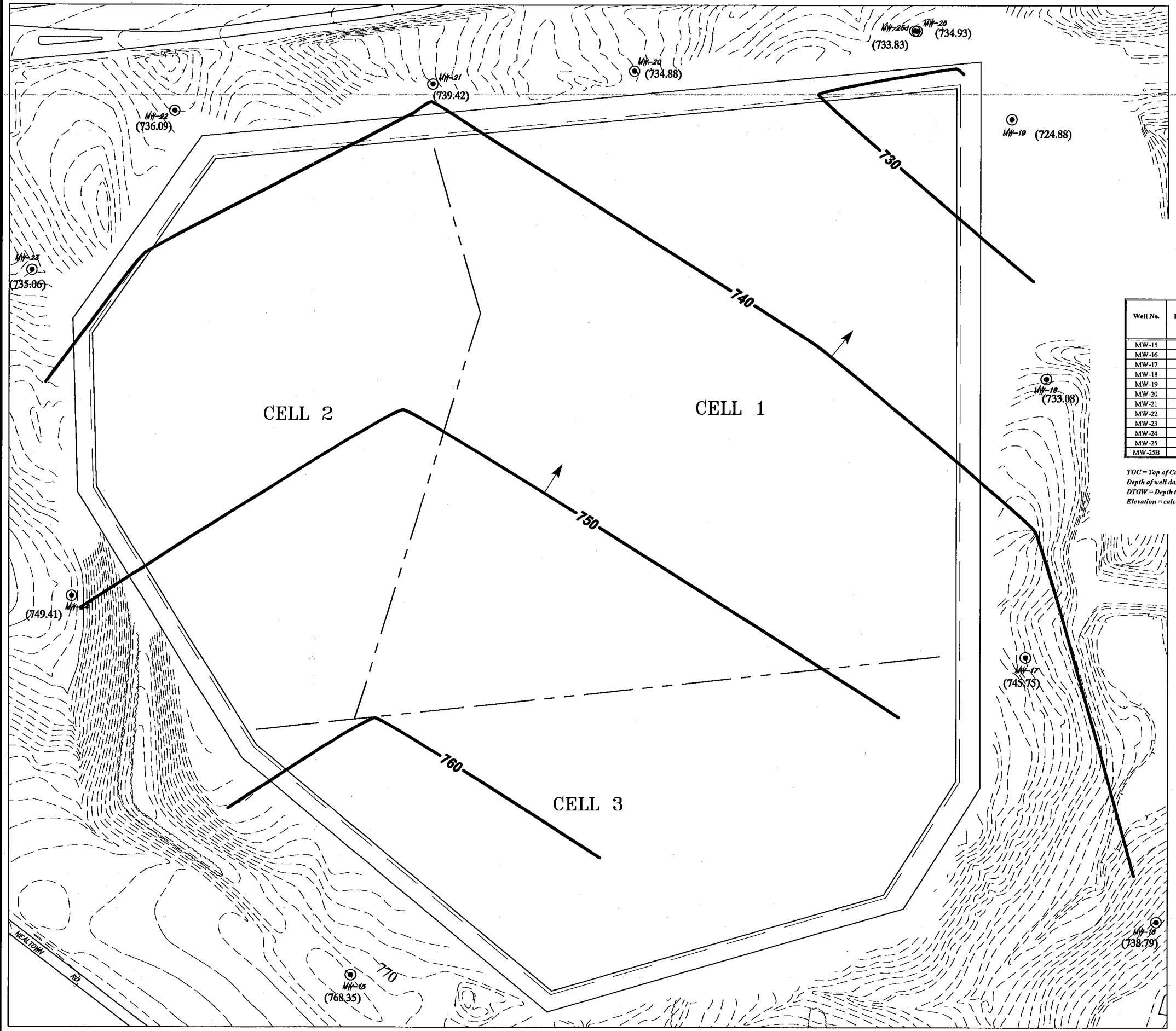


Table 1
Groundwater Elevation Data Summary (04/08)
Phase III - White Street Landfill
Greensboro, North Carolina
S&ME Project No. 1584-98-081

Well No.	Elevation TOC (feet)	Depth of Well (feet)	Static Water Levels			
			April 9-10, 2007		May 1, 2008	
			DTGW (feet)	Elevation (feet)	DTGW (feet)	Elevation (feet)
MW-15	794.81	60.0	23.39	771.42	26.46	768.35
MW-16	758.02	28.5	20.58	737.44	19.23	738.79
MW-17	755.05	31.5	11.71	743.34	9.3	745.75
MW-18	742.70	17.5	10.29	732.41	9.62	733.08
MW-19	740.70	35.0	14.42	726.28	15.82	724.88
MW-20	748.87	25.0	14.58	734.29	13.99	734.88
MW-21	743.32	18.5	5.48	737.84	3.90	739.42
MW-22	744.43	30.0	9.54	734.89	8.34	736.09
MW-23	744.25	33.5	12.64	731.61	9.19	735.06
MW-24	752.52	12.0	3.54	748.98	3.11	749.41
MW-25	746.47	17.0	12.6	733.87	11.54	734.93
MW-25B	746.19	32.0	11.61	734.58	12.36	733.83

TOC = Top of Casing. Elevations determined by survey: HDR Engineering, Inc.
Depth of well data as reported by HDR Engineering Inc. and G.N. Richardson & Associates
DTGW = Depth to Groundwater
Elevation = calculated groundwater elevation

LEGEND

- MONITOR WELL LOCATION
- ESTIMATED GROUNDWATER ELEVATION (MARCH 2000)
- PROPERTY LINE
- CELL LIMITS
- APROXIMATE GROUNDWATER FLOW DIRECTION
- (734.88) GROUNDWATER ELEVATION AS CALCULATED FOR THE 5/06 EVENT

NOTES:

1. TOPOGRAPHY PROVIDED BY BRADY SURVEYING CO. FROM AERIAL PHOTOGRAPHY DATED NOVEMBER 9, 1994 FACILITY AREA UPDATED MAY 18, 1996.
2. PLANIMETRIC FEATURES PROVIDED BY GUILFORD COUNTY MAPS DATED 1991.
3. BOUNDARY SURVEY PROVIDED BY CITY OF GREENSBORO DATED DECEMBER 27, 1994

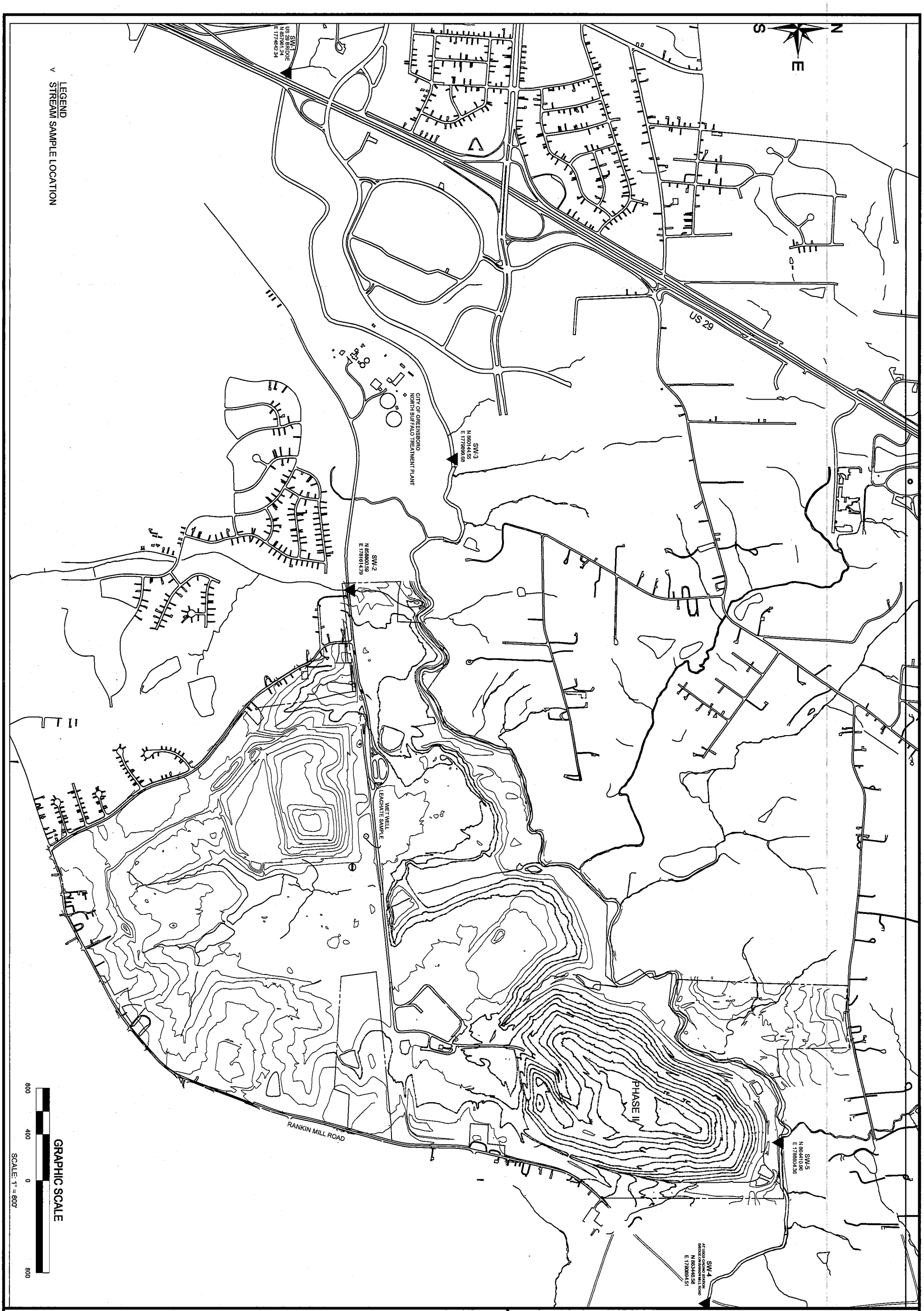
-100 0 50 100 200

SCALE: 1"=200'

GROUNDWATER FLOW MAP
PHASE III
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

S&ME
ENVIRONMENTAL SERVICES
ENGINEERING · TESTING

SCALE: AS SHOWN	DRAWN BY: CLD/RDM	CHECKED BY: LE	
JOB NO. 1584-98-081	DATE: JULY 2008	FIGURE NO. 1	



S&ME
ENVIRONMENTAL SERVICES
ENGINEERING · TESTING

STREAM SAMPLE LOCATION
PHASE III
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

SCALE: AS SHOWN	DRAWN BY: DSB/RDM	CHECKED BY: LE
JOB NO. 1584-98-081	DATE: NOVEMBER 2007	FIGURE NO. 2

APPENDIX A

Field Sampling Data Sheets

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 5/1/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-15
Sample Date: 5/1/08
Locked? (Yes) No
Sample Time: 1630
(PVC) Steel Stainless
Weather: SUNNY
Sampled By: GWS
Air Temp: 70°

Water Level and Well Data

Depth to water from measuring point: 26.46 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Rate: 100 mliter/min

Purge Time
Start 1555 Stop 1625

control settings changes? _____

cycles _____

duration _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed _____ gallon (liters)

Was well purged dry Yes (No)

Field Analyses

* *Stabilization Parameters*

Time	1600	1605	1610	1615	1620	1625		
Temp	19.47	17.99	17.72	18.64	19.01	19.34		
pH	7.12	7.28	7.31	7.27	7.26	7.28		
Conductivity	.560	.448	.446	.444	.443	.442		
ORP*	-247	-289	-302	-304	-305	-305		
D.O.*	2.09	1.33	1.15	.98	.88	.88		
Turbidity*	13.51	2.12	3.08	2.96	3.05	3.02		
	27.38	28.19	28.79	29.28	29.81			

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 5/2/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-16
Sample Date: 5/2/08
Locked? (Yes) No
Sample Time: 1310
(PVC) Steel Stainless
Weather: SUNNY
Sampled By: GWS
Air Temp: 70°

Water Level and Well Data

Depth to water from measuring point: 19.23 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Start 1240 Stop 1305

Purge Rate: 100 Mliter/min

control settings: 3 ON 23 OFF 23 PSI
changes? _____

cycles _____
duration _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed: 3.5 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

* *Stabilization Parameters*

Time	1245	1250	1255	1300	1305			
Temp	19.47	19.87	20.41	20.50	20.08			
pH	6.06	6.05	5.96	5.93	5.94			
Conductivity	.512	.354	.328	.322	.322			
ORP*	-111	-183	-189	-196	-186			
D.O.*	1.05	1.38	1.30	1.20	1.19			
Turbidity*	4.41	6.49	3.18	2.80	2.42			
H_2O	19.98	20.39	20.72	20.80				

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 5/2/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-17
Sample Date: 5/2/08
Locked? (Yes) No
Sample Time: 0935
(PVC) Steel Stainless
Weather: CLEAR
Sampled By: GWS
Air Temp: 60°

Water Level and Well Data

Depth to water from measuring point: 9.30 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Rate: 100 mliter/min

Purge Time
Start 0900 Stop 0930

control settings changes? _____

cycles _____
duration _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed: 4.0 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	0905	0910	0915	0920	0925	0930		
Temp	18.07	17.75	18.05	18.11	18.25	18.18		
pH	5.94	5.86	5.77	5.78	5.74	5.75		
Conductivity	.191	.187	.186	.185	.184	.185		
ORP*	-84	-134	-159	-175	-186	-189		
D.O.*	1.76	1.66	1.54	1.33	1.30	1.25		
Turbidity*	8.82	3.11	1.65	1.22	1.40	1.52		
H_2O	9.75	9.84	10.03	10.13	10.19			

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 5/2/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-18
Sample Date: 5/2/08
Locked? (Yes) No
Sample Time: 0845
(PVC) Steel Stainless
Weather: CLEAR
Sampled By: GWS
Air Temp: 60°

Water Level and Well Data

Depth to water from measuring point: 9.62 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Rate: 100 Mliter/min

Purge Time
Start 0805 Stop 0840

control settings changes? 4 ON 26 OFF 19 PSI

cycles _____

duration _____

Volume of Water in well
2" well (volume = 0.163 x h) _____
4" well (volume = 0.651 x h) _____

Volume of water removed: 4.5 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	0810	0815	0820	0825	0830	0835	0840	
Temp	16.46	14.57	13.86	13.82	14.13	14.43	14.52	
pH	6.39	6.37	6.29	6.01	5.92	5.93	5.95	
Conductivity	.252	.289	.251	.208	.194	.194	.194	
ORP*	-47	-81	-90	-180	-221	-216	-215	
D.O.*	1.60	1.44	1.03	.89	.97	1.13	1.16	
Turbidity*	9.71	11.84	10.97	10.33	8.71	7.18	7.54	
H_2O	9.72	9.78	9.79	9.82	9.80	9.81	9.80	

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 5/1/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-19
Sample Date: 5/1/08
Locked? (Yes) No
Sample Time: 0810
(PVC) Steel Stainless
Weather: CLEAR
Sampled By: GWS
Air Temp: 45°

Water Level and Well Data

Depth to water from measuring point: 15.82 feet
Depth to well bottom from measuring point: feet
Height of water column: feet
Measuring Point: TOC

NOTE: DUPLICATE III TAKEN @ THIS LOCATION 0700

Well Purging and Sample Collection

Purge Method: PUMP
Sample Method: PUMP

Sample Collection Time
Start: Stop:

Purge Time
Start: 0730 Stop: 0805

Purge Rate: 100 mliter/min
control settings changes?: 3on 27 off 27 psi
cycles:
duration:

Volume of Water in well
2" well (volume = 0.163 x h)
4" well (volume = 0.651 x h)

Volume of water removed: 4.5 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

* *Stabilization Parameters*

Time	0735	0740	0745	0750	0755	0800	0805	
Temp	12.62	12.75		13.33	13.47	13.44	13.51	
pH	6.03	5.87		5.84	5.84	5.83	5.85	
Conductivity	.304	.272		.286	.288	.289	.291	
ORP*	13	10		6	-9	-10	-11	
D.O.*	2.10	2.10		2.01	2.03	2.04	2.06	
Turbidity*	29.2	15.07		10.80	7.40	7.85	7.69	
H_2O	15.90	15.92		16.00	16.00	16.01	16.01	

GROUNDWATER SAMPLING FIELD DATA

Location	White Street Landfill	Purge Date	5/1/08
Project No.	1584-98-081	Purge Time	
Source Well	MW-20	Sample Date	5/1/08
Locked?	(Yes) No	Sample Time	1125
(PVC) Steel Stainless		Weather	SUNNY
Sampled By	GWS	Air Temp	60°

Water Level and Well Data

Depth to water from measuring point	13.99	feet
Depth to well bottom from measuring point		feet
Height of water column		feet
Measuring Point	TOC	

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time: Start _____ Stop _____

Purge Rate: 100 m liter/min

Purge Time: Start 1040 Stop 1120

control settings changes? _____ cycles _____ duration _____

Volume of Water in well

2" well (volume = 0.163 x h) _____

4" well (volume = 0.651 x h) _____

Volume of water removed: 5 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	1045	1050	1055	1100	1105	1110	1115	1120
Temp	18.20	17.34	17.63	17.69	17.76	17.77	17.80	17.79
pH	6.08	6.15	6.19	6.20	6.19	6.20	6.20	6.22
Conductivity	.478	.595	.603	.601	.599	.598	5.96	.596
ORP*	-29	-71	-96	-122	-137	-144	-151	-155
D.O.*	1.96	1.44	1.11	.80	.66	.57	.52	.49
Turbidity*	15.17	4.08	1.86	1.51	1.45	1.35	1.38	1.62
	14.19	14.27	14.29	14.31	14.30	14.29		

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 5/1/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-21
Sample Date: 5/1/08
Locked? (Yes) No
Sample Time: 1230
(PVC) Steel Stainless
Weather: SUNNY
Sampled By: GWS
Air Temp: 65°

Water Level and Well Data

Depth to water from measuring point: 3.90 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Start 1140 Stop 1225

Purge Rate: 100 Mliter/min

control settings changes?: 3 on 27 off 17 psi

cycles: _____

duration: _____

Volume of Water in well
2" well (volume = 0.163 x h): _____
4" well (volume = 0.651 x h): _____

Volume of water removed: 5.5 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	1145	1150	1155	1200	1205	1210	1215	1220	1225	
Temp	18.87	18.26	18.28	18.44	18.31	18.32	18.40	18.30	18.50	
pH	5.91	5.71	5.70	5.67	5.68	5.68	5.65	5.69	5.68	
Conductivity	.215	.173	.170	.170	.170	.170	.170	.169	.169	
ORP*	-1	-29	-55	-83	-106	-121	-137	-143	-139	
D.O.*	2.17	1.81	1.43	1.18	.89	.76	.67	.61	.60	
Turbidity*	3.35	2.60	2.48	2.55	2.68	2.21	2.13	2.23	2.04	
	4.23	4.29	4.29	4.31						

GROUNDWATER SAMPLING FIELD DATA

Location	White Street Landfill	Purge Date	5/1/08
Project No.	1584-98-081	Purge Time	
Source Well	MW-22	Sample Date	5/1/08
Locked?	(Yes) No	Sample Time	1330
(PVC) Steel Stainless		Weather	SUNNY
Sampled By	GWS	Air Temp	65°

Water Level and Well Data

Depth to water from measuring point	8.34	feet
Depth to well bottom from measuring point		feet
Height of water column		feet
Measuring Point	TOC	

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time Start _____ Stop _____

Purge Rate: 100 mliter/min

Purge Time Start 1250 Stop 1325

control settings changes? 3 ON 27 OFF 18 PSI

cycles _____

duration _____

Volume of Water in well

2" well (volume = 0.163 x h) _____

4" well (volume = 0.651 x h) _____

Volume of water removed: 4.5 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	1255	1300	1305	1310	1315	1320	1325	
Temp	25.13	24.77	23.80	23.11	22.90	22.56	22.49	
pH	5.98	6.18	6.38	6.48	6.51	6.56	6.57	
Conductivity	.194	.243	.354	.408	.418	.423	.424	
ORP*	-37	-35	-100	-153	-200	-215	-221	
D.O.*	1.43	1.53	1.63	1.37	1.23	1.16	1.18	
Turbidity*	3.57	6.80	17.32	58.4	118	110	106	
	8.68	8.76	9.04	9.24	9.48	9.75	9.89	

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 5/1/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-23
Sample Date: 5/1/08
Locked? (Yes) No
Sample Time: 1430
(PVC) Steel Stainless
Weather: SUNNY
Sampled By: GWS
Air Temp: 65°

Water Level and Well Data

Depth to water from measuring point: 9.19 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Start 1345 Stop _____

Purge Rate: 100 Mliter/min

control settings changes?: 3 on 26 off 22 psi

cycles: _____

duration: _____

Volume of Water in well
2" well (volume = 0.163 x h): _____
4" well (volume = 0.651 x h): _____

Volume of water removed: _____ gallon liters

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	1350	1355	1400	1405	1410	1415	1420	1425
Temp	21.40	19.97	19.57	19.49	19.45	19.55	19.59	19.49
pH	7.07	7.18	7.26	7.35	7.42	7.44	7.49	7.49
Conductivity	.557	.579	.576	.570	.566	.565	.563	.563
ORP*	-153	-253	-275	-287	-321	-339	-352	-353
D.O.*	1.66	1.20	1.01	.70	.51	.35	.28	.28
Turbidity*	50	9.88	3.72	3.86	3.86	3.74	3.44	3.94
	9.84	10.35	10.71	11.47	12.20	13.04	13.65	

GROUNDWATER SAMPLING FIELD DATA

Location	White Street Landfill	Purge Date	5/1/08
Project No.	1584-98-081	Purge Time	
Source Well	MW-24	Sample Date	5/1/08
Locked?	(Yes) No	Sample Time	1535
(PVC)	Steel Stainless	Weather	SUNNY
Sampled By	GWS	Air Temp	70°

Water Level and Well Data

Depth to water from measuring point	3.11	feet
Depth to well bottom from measuring point		feet
Height of water column		feet
Measuring Point	TOC	

NOTE: PULLED THE PUMP YESTER & DEVELOPED TH WELL W/ MNA PUMP

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time: Start _____ Stop _____

Purge Rate: 100 ml liter/min

control settings: 2.5 on 27.5 off 15 hr cycles

changes? _____ duration _____

Purge Time: Start 1500 Stop 1530

Volume of Water in well

2" well (volume = 0.163 x h) _____

4" well (volume = 0.651 x h) _____

Volume of water removed: 4 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

* *Stabilization Parameters*

Time	1505	1510	1515	1520	1525	1530		
Temp	20.01	19.30	19.55	20.15	20.03	20.00		
pH	6.66	6.65	6.64	6.64	6.66	6.68		
Conductivity	1.108	1.192	1.194	1.198	1.200	1.200		
ORP*	-196	-221	-214	-209	-205	-196		
D.O.*	1.80	1.84	1.93	1.95	2.05	2.11		
Turbidity*	10.13	18.48	18.33	16.03	13.26	18.13		
	3.78	4.65	4.85	5.31	5.58	5.89		

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 5/1/08

Project No.: 1584-98-081
Purge Time:

Source Well: MW-25
Sample Date: 5/1/08

Locked? (Yes) No
Sample Time: 0920

(PVC) Steel Stainless
Weather: SUNNY

Sampled By: GWS
Air Temp: 60°

Water Level and Well Data

Depth to water from measuring point: 11.54 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: TOC

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time
Start _____ Stop _____

Purge Time
Start 0840 Stop 0915

Purge Rate: 100 mliter/min

control settings: 3 ON 16 OFF 19 PSI
changes?

cycles
duration

Volume of Water in well
2" well (volume = 0.163 x h)
4" well (volume = 0.651 x h)

Volume of water removed: 4.5 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	0845	0850	0855	0900	0905	0910	0915	
Temp	15.09	14.63	14.53	14.92	15.09	15.19	15.39	
pH	5.78	5.66	5.68	5.71	5.72	5.69	5.71	
Conductivity	.163	.148	.148	.148	.146	.145	.144	
ORP*	98	49	40	34	29	28	27	
D.O.*	3.00	2.61	2.67	2.69	2.74	2.78	2.79	
Turbidity*	21.0	13.48	7.88	5.08	5.42	5.52	5.51	
	11.79	11.95	12.14	12.25	12.32	12.41		

GROUNDWATER SAMPLING FIELD DATA

Location	White Street Landfill	Purge Date	5/1/08
Project No.	1584-98-081	Purge Time	
Source Well	MW-25B	Sample Date	5/1/08
Locked?	(Yes) No	Sample Time	1005
(PVC) Steel Stainless		Weather	SUNNY
Sampled By	GWS	Air Temp	60°

Water Level and Well Data

Depth to water from measuring point	12.36	feet
Depth to well bottom from measuring point		feet
Height of water column		feet
Measuring Point	TOC	

Well Purging and Sample Collection

Purge Method: PUMP

Sample Method: PUMP

Sample Collection Time Start _____ Stop _____

Purge Rate: 100 Mliter/min

Purge Time Start 0925 Stop 1000

control settings changes? 3.5 on 17.5 off 25 PSI

cycles _____

duration _____

Volume of Water in well

2" well (volume = 0.163 x h) _____

4" well (volume = 0.651 x h) _____

Volume of water removed: 4.5 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

** Stabilization Parameters*

Time	0930	0935	0940	0945	0950	0955	1000	
Temp	16.27	16.29	16.66	16.61	16.96	16.94	17.10	
pH	6.03	5.94	5.93	5.94	5.96	5.93	5.92	
Conductivity	.141	.147	.149	.150	.151	.151	.152	
ORP*	-5	-9	-12	-12	-14	-15	-17	
D.O.*	2.54	2.33	2.25	2.24	2.22	2.21	2.18	
Turbidity*	3.82	2.21	1.96	2.15	2.11	2.25	2.42	
	12.72	12.81	12.82	12.81	12.85			

APPENDIX B

Laboratory Analytical Report – Main September 2007 Monitoring Event

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Tuesday, May 20, 2008

S&ME, Inc. (SM004)

Attn: Edmund Henriques

3718 Old Battleground Rd.

Greensboro, NC 27410

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill AppI Monitoring Wells
ENCO Workorder: C804272

Dear Edmund Henriques,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, May 6, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 71.

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4112 MW-15 | Lab ID: C804272-01 | Sampled: 05/01/08 16:30 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/28/08	05/08/08 11:27	5/19/2008 14:35
EPA 6020	10/28/08	05/08/08 11:33	5/12/2008 10:37
EPA 8260B	05/15/08	05/10/08 12:46	5/11/2008 09:21

Client ID: 4112 MW-16 | Lab ID: C804272-02 | Sampled: 05/02/08 13:10 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/29/08	05/08/08 11:27	5/19/2008 14:59
EPA 6020	10/29/08	05/08/08 11:33	5/12/2008 10:29
EPA 8260B	05/16/08	05/10/08 07:07	5/10/2008 18:52

Client ID: 4112 MW-17 | Lab ID: C804272-03 | Sampled: 05/02/08 09:35 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/29/08	05/08/08 11:27	5/19/2008 15:27
EPA 6020	10/29/08	05/08/08 11:33	5/12/2008 10:40
EPA 8260B	05/16/08	05/10/08 07:07	5/10/2008 19:23

Client ID: 4112 MW-18 | Lab ID: C804272-04 | Sampled: 05/02/08 08:45 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/29/08	05/08/08 11:27	5/19/2008 15:34
EPA 6020	10/29/08	05/08/08 11:33	5/12/2008 10:42
EPA 8260B	05/16/08	05/10/08 07:07	5/10/2008 19:55

Client ID: 4112 MW-19 | Lab ID: C804272-05 | Sampled: 05/01/08 08:10 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/28/08	05/08/08 11:27	5/19/2008 15:43
EPA 6020	10/28/08	05/08/08 11:33	5/12/2008 10:45
EPA 8260B	05/15/08	05/10/08 07:07	5/10/2008 20:26

Client ID: 4112 MW-20 | Lab ID: C804272-06 | Sampled: 05/01/08 11:25 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/28/08	05/08/08 11:27	5/19/2008 15:50
EPA 6020	10/28/08	05/08/08 11:33	5/12/2008 10:48
EPA 8260B	05/15/08	05/10/08 07:07	5/10/2008 20:57

Client ID: 4112 MW-21 | Lab ID: C804272-07 | Sampled: 05/01/08 12:30 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/28/08	05/08/08 11:27	5/19/2008 15:57
EPA 6020	10/28/08	05/08/08 11:33	5/12/2008 10:56
EPA 8260B	05/15/08	05/10/08 07:07	5/10/2008 21:29

Client ID: 4112 MW-22 | Lab ID: C804272-08 | Sampled: 05/01/08 13:30 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/28/08	05/08/08 11:27	5/19/2008 16:04
EPA 6020	10/28/08	05/08/08 11:33	5/12/2008 10:59
EPA 8260B	05/15/08	05/10/08 07:07	5/10/2008 22:00

Client ID: 4112 MW-23 | Lab ID: C804272-09 | Sampled: 05/01/08 14:30 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/28/08	05/08/08 11:27	5/19/2008 16:11
EPA 6020	10/28/08	05/08/08 11:33	5/12/2008 11:02
EPA 8260B	05/15/08	05/10/08 07:07	5/10/2008 22:31

Client ID: 4112 MW-24 | Lab ID: C804272-10 | Sampled: 05/01/08 15:35 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/28/08	05/08/08 11:27	5/19/2008 16:19
EPA 6020	10/28/08	05/08/08 11:33	5/12/2008 11:05
EPA 8260B	05/15/08	05/10/08 10:06	5/12/2008 20:56

Client ID: 4112 MW-25 | Lab ID: C804272-11 | Sampled: 05/01/08 09:20 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/28/08	05/08/08 11:27	5/19/2008 16:46
EPA 6020	10/28/08	05/08/08 11:33	5/12/2008 11:08
EPA 8260B	05/15/08	05/10/08 10:06	5/12/2008 21:27

Client ID: 4112 MW-25B | Lab ID: C804272-12 | Sampled: 05/01/08 10:05 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	10/28/08	05/08/08 11:27	5/19/2008 16:53
EPA 6020	10/28/08	05/08/08 11:33	5/12/2008 11:10
EPA 8260B	05/15/08	05/10/08 10:06	5/12/2008 21:58

Client ID: 4112 SW-2 | Lab ID: C804272-13 | Sampled: 05/05/08 12:30 | Received: 05/06/08 08:30

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	11/01/08	05/08/08 11:27	5/19/2008 17:01
EPA 6020	11/01/08	05/08/08 11:33	5/12/2008 11:13
EPA 8260B	05/19/08	05/10/08 10:06	5/12/2008 22:29

Client ID: 4112 SW-3	Lab ID: C804272-14	Sampled: 05/05/08 12:45	Received: 05/06/08 08:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	11/01/08	05/08/08 11:27	5/19/2008 17:08
EPA 6020	11/01/08	05/08/08 11:33	5/12/2008 11:16
EPA 8260B	05/19/08	05/10/08 10:06	5/12/2008 22:59

Client ID: 4103 SW-4	Lab ID: C804272-15	Sampled: 05/05/08 12:15	Received: 05/06/08 08:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	11/01/08	05/08/08 11:27	5/19/2008 17:15
EPA 6020	11/01/08	05/08/08 11:33	5/12/2008 11:19
EPA 8260B	05/19/08	05/10/08 10:06	5/12/2008 23:30

Client ID: 4103 SW-5	Lab ID: C804272-16	Sampled: 05/05/08 12:05	Received: 05/06/08 08:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	11/01/08	05/08/08 11:27	5/19/2008 17:22
EPA 6020	11/01/08	05/08/08 11:33	5/12/2008 11:21
EPA 8260B	05/19/08	05/10/08 10:06	5/13/2008 00:01

Client ID: 4112 DUPLICATE-III	Lab ID: C804272-17	Sampled: 05/01/08 07:00	Received: 05/06/08 08:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	10/28/08	05/08/08 11:27	5/19/2008 17:29
EPA 6020	10/28/08	05/08/08 11:33	5/12/2008 11:30
EPA 8260B	05/15/08	05/10/08 10:06	5/13/2008 00:32

Client ID: 4112 Trip Blank#3	Lab ID: C804272-18	Sampled: 05/01/08 00:00	Received: 05/06/08 08:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	05/15/08	05/10/08 10:06	5/13/2008 01:02

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4112 MW-15 — **Lab ID: C804272-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	30.3	JB	1	0.20	10.0	100	ug/L	EPA 6010B	

Client ID: 4112 MW-16 — **Lab ID: C804272-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic	3.7	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	148	B	1	0.20	10.0	100	ug/L	EPA 6010B	
Cobalt	2.3	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	4.10	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	6.0	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Silver	2.9	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Thallium	0.040	JB	1	0.036	1.00	5.5	ug/L	EPA 6020	
Vanadium	4.5	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	5.5	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-17 — **Lab ID: C804272-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	52.7	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	112		1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	1.90	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	87.7		1	2.0	10.0	50	ug/L	EPA 6010B	
Vanadium	2.0	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	5.8	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-18 — **Lab ID: C804272-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic	2.4	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	23.0	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	30.3		1	2.0	10.0	10	ug/L	EPA 6010B	
Cobalt	3.9	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	4.70	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	25.4	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Silver	3.0	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Vanadium	2.1	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	5.4	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-19 — **Lab ID: C804272-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic	2.4	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	31.7	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	11.1		1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	1.80	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	9.6	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Vanadium	5.0	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	2.2	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-20 — **Lab ID: C804272-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	55.4	JB	1	0.20	10.0	100	ug/L	EPA 6010B	

Client ID: 4112 MW-20 — **Lab ID: C804272-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Copper	0.60	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	5.6	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Selenium	2.1	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Vanadium	5.1	J	1	1.0	10.0	25	ug/L	EPA 6010B	

Client ID: 4112 MW-21 — **Lab ID: C804272-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic	4.3	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	30.0	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	3.2	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Cobalt	2.3	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	2.20	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	3.0	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Silver	3.1	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Vanadium	2.6	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	2.5	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-22 — **Lab ID: C804272-08**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	136	B	1	0.20	10.0	100	ug/L	EPA 6010B	
Zinc	1.0	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-23 — **Lab ID: C804272-09**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	66.6	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Copper	0.80	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Silver	2.0	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Zinc	1.0	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-24 — **Lab ID: C804272-10**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	444	B	1	0.20	10.0	100	ug/L	EPA 6010B	
Cobalt	4.8	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	11.1		1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	5.6	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Zinc	154		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-25 — **Lab ID: C804272-11**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	19.6	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	14.1		1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	2.90	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	14.8	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Vanadium	2.1	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	2.7	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-25B — **Lab ID: C804272-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	16.2	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	5.2	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Nickel	4.5	J	1	2.0	10.0	50	ug/L	EPA 6010B	

Client ID: 4112 MW-25B — **Lab ID: C804272-12**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Vanadium	3.6	J	1	1.0	10.0	25	ug/L	EPA 6010B	

Client ID: 4112 SW-2 — **Lab ID: C804272-13**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	51.2	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Copper	1.30	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	3.5	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Zinc	5.8	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 SW-3 — **Lab ID: C804272-14**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic	2.4	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	53.0	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Copper	2.50	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	3.9	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Silver	2.2	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Zinc	6.4	J	1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4103 SW-4 — **Lab ID: C804272-15**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	92.5	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	15.0		1	2.0	10.0	10	ug/L	EPA 6010B	
Cobalt	7.1	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	13.3		1	0.60	10.0	10	ug/L	EPA 6010B	
Lead	14.8		1	2.0	10.0	10	ug/L	EPA 6010B	
Nickel	5.5	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Vanadium	9.3	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	154		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4103 SW-5 — **Lab ID: C804272-16**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic	2.2	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	65.5	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Cobalt	3.8	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	3.70	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	6.7	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Silver	2.4	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Vanadium	2.4	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	20.4		1	1.0	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 DUPLICATE-III — **Lab ID: C804272-17**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	32.1	JB	1	0.20	10.0	100	ug/L	EPA 6010B	
Cobalt	2.4	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Copper	2.70	J	1	0.60	10.0	10	ug/L	EPA 6010B	
Nickel	2.7	J	1	2.0	10.0	50	ug/L	EPA 6010B	
Silver	3.1	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Vanadium	5.9	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Zinc	5.1	J	1	1.0	10.0	10	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: 4112 MW-15
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-01
Sampled: 05/01/08 16:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/11/08 09:21	jkg	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/11/08 09:21	jkg	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/11/08 09:21	jkg	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/11/08 09:21	jkg	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/11/08 09:21	jkg	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/11/08 09:21	jkg	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/11/08 09:21	jkg	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/11/08 09:21	jkg	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/11/08 09:21	jkg	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/11/08 09:21	jkg	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/11/08 09:21	jkg	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/11/08 09:21	jkg	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/11/08 09:21	jkg	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/11/08 09:21	jkg	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/11/08 09:21	jkg	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/11/08 09:21	jkg	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/11/08 09:21	jkg	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/11/08 09:21	jkg	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/11/08 09:21	jkg	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/11/08 09:21	jkg	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/11/08 09:21	jkg	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/11/08 09:21	jkg	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/11/08 09:21	jkg	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/11/08 09:21	jkg	

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Description: 4112 MW-15
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-01
Sampled: 05/01/08 16:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/11/08 09:21	jkg	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/11/08 09:21	jkg	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/11/08 09:21	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*77 %*	*69-120*	*8E10006*	*EPA 8260B*	*05/11/08 09:21*	*jkg*	
Dibromofluoromethane	*40*	*1*	*50.0*	*81 %*	*61-120*	*8E10006*	*EPA 8260B*	*05/11/08 09:21*	*jkg*	
Toluene-d8	*39*	*1*	*50.0*	*78 %*	*75-99*	*8E10006*	*EPA 8260B*	*05/11/08 09:21*	*jkg*	

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Description: 4112 MW-15
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-01
Sampled: 05/01/08 16:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 10:37	JDH	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:35	VLO	
Barium [7440-39-3] ^	**30.3**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 14:35	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 14:35	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 14:35	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:35	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:35	VLO	
Copper [7440-50-8] ^	0.60	U	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 14:35	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:35	VLO	
Nickel [7440-02-0] ^	2.0	U	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 14:35	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:35	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:35	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 10:37	JDH	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 14:35	VLO	
Zinc [7440-66-6] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 14:35	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-16
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-02
Sampled: 05/02/08 13:10
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/10/08 18:52	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/10/08 18:52	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/10/08 18:52	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 18:52	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/10/08 18:52	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/10/08 18:52	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/10/08 18:52	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/10/08 18:52	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/10/08 18:52	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/10/08 18:52	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/10/08 18:52	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 18:52	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/10/08 18:52	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/10/08 18:52	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/10/08 18:52	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 18:52	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/10/08 18:52	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 18:52	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/10/08 18:52	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/10/08 18:52	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/10/08 18:52	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/10/08 18:52	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/10/08 18:52	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/10/08 18:52	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/10/08 18:52	JKG	

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Description: 4112 MW-16
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-02
Sampled: 05/02/08 13:10
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 18:52	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/10/08 18:52	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*69-120*	*8E10002*	*EPA 8260B*	*05/10/08 18:52*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*61-120*	*8E10002*	*EPA 8260B*	*05/10/08 18:52*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*75-99*	*8E10002*	*EPA 8260B*	*05/10/08 18:52*	*JKG*	

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Description: 4112 MW-16
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-02
Sampled: 05/02/08 13:10
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 10:29	JDH	
Arsenic [7440-38-2] ^	**3.7**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:59	VLO	
Barium [7440-39-3] ^	**148**	B	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 14:59	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 14:59	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 14:59	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:59	VLO	
Cobalt [7440-48-4] ^	**2.3**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:59	VLO	
Copper [7440-50-8] ^	**4.10**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 14:59	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:59	VLO	
Nickel [7440-02-0] ^	**6.0**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 14:59	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:59	VLO	
Silver [7440-22-4] ^	**2.9**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 14:59	VLO	
Thallium [7440-28-0] ^	**0.040**	JB	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 10:29	JDH	
Vanadium [7440-62-2] ^	**4.5**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 14:59	VLO	
Zinc [7440-66-6] ^	**5.5**	J	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 14:59	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-17
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-03
Sampled: 05/02/08 09:35
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/10/08 19:23	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/10/08 19:23	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/10/08 19:23	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 19:23	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/10/08 19:23	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/10/08 19:23	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/10/08 19:23	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/10/08 19:23	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/10/08 19:23	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/10/08 19:23	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/10/08 19:23	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 19:23	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/10/08 19:23	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/10/08 19:23	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/10/08 19:23	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 19:23	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/10/08 19:23	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 19:23	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/10/08 19:23	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/10/08 19:23	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/10/08 19:23	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/10/08 19:23	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/10/08 19:23	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/10/08 19:23	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/10/08 19:23	JKG	

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Description: 4112 MW-17
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-03
Sampled: 05/02/08 09:35
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 19:23	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/10/08 19:23	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*69-120*	*8E10002*	*EPA 8260B*	*05/10/08 19:23*	*JKG*	
Dibromofluoromethane	*44*	*1*	*50.0*	*89 %*	*61-120*	*8E10002*	*EPA 8260B*	*05/10/08 19:23*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*75-99*	*8E10002*	*EPA 8260B*	*05/10/08 19:23*	*JKG*	

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Description: 4112 MW-17
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-03
Sampled: 05/02/08 09:35
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 10:40	JDH	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:27	VLO	
Barium [7440-39-3] ^	**52.7**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 15:27	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 15:27	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 15:27	VLO	
Chromium [7440-47-3] ^	**112**		ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:27	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:27	VLO	
Copper [7440-50-8] ^	**1.90**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 15:27	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:27	VLO	
Nickel [7440-02-0] ^	**87.7**		ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 15:27	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:27	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:27	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 10:40	JDH	
Vanadium [7440-62-2] ^	**2.0**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 15:27	VLO	
Zinc [7440-66-6] ^	**5.8**	J	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 15:27	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-18
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-04
Sampled: 05/02/08 08:45
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/10/08 19:55	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/10/08 19:55	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/10/08 19:55	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 19:55	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/10/08 19:55	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/10/08 19:55	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/10/08 19:55	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/10/08 19:55	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/10/08 19:55	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/10/08 19:55	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/10/08 19:55	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 19:55	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/10/08 19:55	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/10/08 19:55	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/10/08 19:55	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 19:55	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/10/08 19:55	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 19:55	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/10/08 19:55	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/10/08 19:55	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/10/08 19:55	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/10/08 19:55	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/10/08 19:55	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/10/08 19:55	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/10/08 19:55	JKG	

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Description: 4112 MW-18
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-04
Sampled: 05/02/08 08:45
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 19:55	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/10/08 19:55	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*69-120*	*8E10002*	*EPA 8260B*	*05/10/08 19:55*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*61-120*	*8E10002*	*EPA 8260B*	*05/10/08 19:55*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*75-99*	*8E10002*	*EPA 8260B*	*05/10/08 19:55*	*JKG*	

www.encolabs.com

Description: 4112 MW-18
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-04
Sampled: 05/02/08 08:45
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 10:42	JDH	
Arsenic [7440-38-2] ^	**2.4**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:34	VLO	
Barium [7440-39-3] ^	**23.0**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 15:34	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 15:34	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 15:34	VLO	
Chromium [7440-47-3] ^	**30.3**		ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:34	VLO	
Cobalt [7440-48-4] ^	**3.9**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:34	VLO	
Copper [7440-50-8] ^	**4.70**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 15:34	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:34	VLO	
Nickel [7440-02-0] ^	**25.4**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 15:34	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:34	VLO	
Silver [7440-22-4] ^	**3.0**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:34	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 10:42	JDH	
Vanadium [7440-62-2] ^	**2.1**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 15:34	VLO	
Zinc [7440-66-6] ^	**5.4**	J	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 15:34	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-19
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-05
Sampled: 05/01/08 08:10
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/10/08 20:26	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/10/08 20:26	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/10/08 20:26	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 20:26	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/10/08 20:26	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/10/08 20:26	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/10/08 20:26	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/10/08 20:26	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/10/08 20:26	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/10/08 20:26	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/10/08 20:26	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 20:26	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/10/08 20:26	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/10/08 20:26	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/10/08 20:26	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 20:26	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/10/08 20:26	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 20:26	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/10/08 20:26	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/10/08 20:26	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/10/08 20:26	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/10/08 20:26	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/10/08 20:26	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/10/08 20:26	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/10/08 20:26	JKG	

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Description: 4112 MW-19
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-05
Sampled: 05/01/08 08:10
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 20:26	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/10/08 20:26	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*69-120*	*8E10002*	*EPA 8260B*	*05/10/08 20:26*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*61-120*	*8E10002*	*EPA 8260B*	*05/10/08 20:26*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*75-99*	*8E10002*	*EPA 8260B*	*05/10/08 20:26*	*JKG*	

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Description: 4112 MW-19
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-05
Sampled: 05/01/08 08:10
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 10:45	JDH	
Arsenic [7440-38-2] ^	**2.4**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:43	VLO	
Barium [7440-39-3] ^	**31.7**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 15:43	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 15:43	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 15:43	VLO	
Chromium [7440-47-3] ^	**11.1**		ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:43	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:43	VLO	
Copper [7440-50-8] ^	**1.80**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 15:43	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:43	VLO	
Nickel [7440-02-0] ^	**9.6**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 15:43	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:43	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:43	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 10:45	JDH	
Vanadium [7440-62-2] ^	**5.0**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 15:43	VLO	
Zinc [7440-66-6] ^	**2.2**	J	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 15:43	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-20
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-06
Sampled: 05/01/08 11:25
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/10/08 20:57	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/10/08 20:57	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/10/08 20:57	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 20:57	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/10/08 20:57	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/10/08 20:57	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/10/08 20:57	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/10/08 20:57	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/10/08 20:57	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/10/08 20:57	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/10/08 20:57	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 20:57	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/10/08 20:57	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/10/08 20:57	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/10/08 20:57	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 20:57	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/10/08 20:57	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 20:57	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/10/08 20:57	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/10/08 20:57	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/10/08 20:57	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/10/08 20:57	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/10/08 20:57	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/10/08 20:57	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/10/08 20:57	JKG	

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Description: 4112 MW-20
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-06
Sampled: 05/01/08 11:25
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 20:57	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/10/08 20:57	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*69-120*	*8E10002*	*EPA 8260B*	*05/10/08 20:57*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*89 %*	*61-120*	*8E10002*	*EPA 8260B*	*05/10/08 20:57*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*91 %*	*75-99*	*8E10002*	*EPA 8260B*	*05/10/08 20:57*	*JKG*	

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Description: 4112 MW-20
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-06
Sampled: 05/01/08 11:25
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 10:48	JDH	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:50	VLO	
Barium [7440-39-3] ^	**55.4**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 15:50	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 15:50	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 15:50	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:50	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:50	VLO	
Copper [7440-50-8] ^	**0.60**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 15:50	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:50	VLO	
Nickel [7440-02-0] ^	**5.6**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 15:50	VLO	
Selenium [7782-49-2] ^	**2.1**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:50	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:50	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 10:48	JDH	
Vanadium [7440-62-2] ^	**5.1**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 15:50	VLO	
Zinc [7440-66-6] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 15:50	VLO	

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Description: 4112 MW-21
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-07
Sampled: 05/01/08 12:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/10/08 21:29	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/10/08 21:29	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/10/08 21:29	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 21:29	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/10/08 21:29	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/10/08 21:29	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/10/08 21:29	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/10/08 21:29	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/10/08 21:29	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/10/08 21:29	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/10/08 21:29	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 21:29	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/10/08 21:29	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/10/08 21:29	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/10/08 21:29	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 21:29	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/10/08 21:29	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 21:29	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/10/08 21:29	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/10/08 21:29	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/10/08 21:29	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/10/08 21:29	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/10/08 21:29	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/10/08 21:29	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/10/08 21:29	JKG	

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Description: 4112 MW-21
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-07
Sampled: 05/01/08 12:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 21:29	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/10/08 21:29	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*87 %*	*69-120*	*8E10002*	*EPA 8260B*	*05/10/08 21:29*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*61-120*	*8E10002*	*EPA 8260B*	*05/10/08 21:29*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*75-99*	*8E10002*	*EPA 8260B*	*05/10/08 21:29*	*JKG*	

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Description: 4112 MW-21
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-07
Sampled: 05/01/08 12:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 10:56	JDH	
Arsenic [7440-38-2] ^	**4.3**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:57	VLO	
Barium [7440-39-3] ^	**30.0**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 15:57	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 15:57	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 15:57	VLO	
Chromium [7440-47-3] ^	**3.2**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:57	VLO	
Cobalt [7440-48-4] ^	**2.3**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:57	VLO	
Copper [7440-50-8] ^	**2.20**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 15:57	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:57	VLO	
Nickel [7440-02-0] ^	**3.0**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 15:57	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:57	VLO	
Silver [7440-22-4] ^	**3.1**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 15:57	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 10:56	JDH	
Vanadium [7440-62-2] ^	**2.6**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 15:57	VLO	
Zinc [7440-66-6] ^	**2.5**	J	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 15:57	VLO	

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Description: 4112 MW-22
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-08
Sampled: 05/01/08 13:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/10/08 22:00	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/10/08 22:00	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/10/08 22:00	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 22:00	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/10/08 22:00	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/10/08 22:00	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/10/08 22:00	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/10/08 22:00	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/10/08 22:00	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/10/08 22:00	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/10/08 22:00	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 22:00	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/10/08 22:00	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/10/08 22:00	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/10/08 22:00	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 22:00	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/10/08 22:00	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 22:00	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/10/08 22:00	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/10/08 22:00	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/10/08 22:00	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/10/08 22:00	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/10/08 22:00	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/10/08 22:00	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/10/08 22:00	JKG	

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Description: 4112 MW-22
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-08
Sampled: 05/01/08 13:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 22:00	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/10/08 22:00	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*69-120*	*8E10002*	*EPA 8260B*	*05/10/08 22:00*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*61-120*	*8E10002*	*EPA 8260B*	*05/10/08 22:00*	*JKG*	
Toluene-d8	*45*	*1*	*50.0*	*91 %*	*75-99*	*8E10002*	*EPA 8260B*	*05/10/08 22:00*	*JKG*	

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Description: 4112 MW-22
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-08
Sampled: 05/01/08 13:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 10:59	JDH	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:04	VLO	
Barium [7440-39-3] ^	**136**	B	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 16:04	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 16:04	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 16:04	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:04	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:04	VLO	
Copper [7440-50-8] ^	0.60	U	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 16:04	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:04	VLO	
Nickel [7440-02-0] ^	2.0	U	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 16:04	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:04	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:04	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 10:59	JDH	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 16:04	VLO	
Zinc [7440-66-6] ^	**1.0**	J	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 16:04	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-23
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-09
Sampled: 05/01/08 14:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/10/08 22:31	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/10/08 22:31	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/10/08 22:31	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 22:31	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/10/08 22:31	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/10/08 22:31	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/10/08 22:31	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/10/08 22:31	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/10/08 22:31	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/10/08 22:31	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/10/08 22:31	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 22:31	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/10/08 22:31	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/10/08 22:31	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/10/08 22:31	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/10/08 22:31	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/10/08 22:31	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/10/08 22:31	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/10/08 22:31	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/10/08 22:31	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/10/08 22:31	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/10/08 22:31	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/10/08 22:31	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/10/08 22:31	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/10/08 22:31	JKG	

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Description: 4112 MW-23
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-09
Sampled: 05/01/08 14:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/10/08 22:31	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/10/08 22:31	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*87 %*	*69-120*	*8E10002*	*EPA 8260B*	*05/10/08 22:31*	*JKG*	
Dibromofluoromethane	*45*	*1*	*50.0*	*90 %*	*61-120*	*8E10002*	*EPA 8260B*	*05/10/08 22:31*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*75-99*	*8E10002*	*EPA 8260B*	*05/10/08 22:31*	*JKG*	

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Description: 4112 MW-23
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-09
Sampled: 05/01/08 14:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 11:02	JDH	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:11	VLO	
Barium [7440-39-3] ^	**66.6**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 16:11	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 16:11	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 16:11	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:11	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:11	VLO	
Copper [7440-50-8] ^	**0.80**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 16:11	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:11	VLO	
Nickel [7440-02-0] ^	2.0	U	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 16:11	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:11	VLO	
Silver [7440-22-4] ^	**2.0**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:11	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 11:02	JDH	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 16:11	VLO	
Zinc [7440-66-6] ^	**1.0**	J	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 16:11	VLO	

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Description: 4112 MW-24
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-10
Sampled: 05/01/08 15:35
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/12/08 20:56	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/12/08 20:56	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/12/08 20:56	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 20:56	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/12/08 20:56	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/12/08 20:56	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/12/08 20:56	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/12/08 20:56	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/12/08 20:56	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/12/08 20:56	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/12/08 20:56	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 20:56	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/12/08 20:56	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/12/08 20:56	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/12/08 20:56	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 20:56	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/12/08 20:56	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 20:56	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/12/08 20:56	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/12/08 20:56	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/12/08 20:56	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/12/08 20:56	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/12/08 20:56	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/12/08 20:56	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/12/08 20:56	JKG	

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Description: 4112 MW-24
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-10
Sampled: 05/01/08 15:35
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 20:56	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/12/08 20:56	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*87 %*	*69-120*	*8E10004*	*EPA 8260B*	*05/12/08 20:56*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*61-120*	*8E10004*	*EPA 8260B*	*05/12/08 20:56*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*75-99*	*8E10004*	*EPA 8260B*	*05/12/08 20:56*	*JKG*	

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Description: 4112 MW-24
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-10
Sampled: 05/01/08 15:35
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 11:05	JDH	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:19	VLO	
Barium [7440-39-3] ^	**444**	B	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 16:19	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 16:19	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 16:19	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:19	VLO	
Cobalt [7440-48-4] ^	**4.8**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:19	VLO	
Copper [7440-50-8] ^	**11.1**		ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 16:19	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:19	VLO	
Nickel [7440-02-0] ^	**5.6**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 16:19	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:19	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:19	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 11:05	JDH	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 16:19	VLO	
Zinc [7440-66-6] ^	**154**		ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 16:19	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-25
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-11
Sampled: 05/01/08 09:20
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/12/08 21:27	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/12/08 21:27	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/12/08 21:27	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 21:27	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/12/08 21:27	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/12/08 21:27	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/12/08 21:27	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/12/08 21:27	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/12/08 21:27	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/12/08 21:27	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/12/08 21:27	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 21:27	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/12/08 21:27	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/12/08 21:27	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/12/08 21:27	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 21:27	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/12/08 21:27	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 21:27	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/12/08 21:27	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/12/08 21:27	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/12/08 21:27	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/12/08 21:27	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/12/08 21:27	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/12/08 21:27	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/12/08 21:27	JKG	

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Description: 4112 MW-25
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-11
Sampled: 05/01/08 09:20
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 21:27	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/12/08 21:27	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*83 %*	*69-120*	*8E10004*	*EPA 8260B*	*05/12/08 21:27*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*61-120*	*8E10004*	*EPA 8260B*	*05/12/08 21:27*	*JKG*	
Toluene-d8	*46*	*1*	*50.0*	*93 %*	*75-99*	*8E10004*	*EPA 8260B*	*05/12/08 21:27*	*JKG*	

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Description: 4112 MW-25
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-11
Sampled: 05/01/08 09:20
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 11:08	JDH	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:46	VLO	
Barium [7440-39-3] ^	**19.6**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 16:46	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 16:46	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 16:46	VLO	
Chromium [7440-47-3] ^	**14.1**		ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:46	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:46	VLO	
Copper [7440-50-8] ^	**2.90**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 16:46	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:46	VLO	
Nickel [7440-02-0] ^	**14.8**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 16:46	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:46	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:46	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 11:08	JDH	
Vanadium [7440-62-2] ^	**2.1**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 16:46	VLO	
Zinc [7440-66-6] ^	**2.7**	J	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 16:46	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 MW-25B
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-12
Sampled: 05/01/08 10:05
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/12/08 21:58	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/12/08 21:58	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/12/08 21:58	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 21:58	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/12/08 21:58	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/12/08 21:58	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/12/08 21:58	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/12/08 21:58	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/12/08 21:58	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/12/08 21:58	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/12/08 21:58	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 21:58	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/12/08 21:58	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/12/08 21:58	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/12/08 21:58	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 21:58	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/12/08 21:58	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 21:58	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/12/08 21:58	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/12/08 21:58	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/12/08 21:58	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/12/08 21:58	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/12/08 21:58	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/12/08 21:58	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/12/08 21:58	JKG	

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Description: 4112 MW-25B
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-12
Sampled: 05/01/08 10:05
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 21:58	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/12/08 21:58	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*69-120*	*8E10004*	*EPA 8260B*	*05/12/08 21:58*	*JKG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*96 %*	*61-120*	*8E10004*	*EPA 8260B*	*05/12/08 21:58*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*75-99*	*8E10004*	*EPA 8260B*	*05/12/08 21:58*	*JKG*	

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Description: 4112 MW-25B
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-12
Sampled: 05/01/08 10:05
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 11:10	JDH	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:53	VLO	
Barium [7440-39-3] ^	**16.2**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 16:53	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 16:53	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 16:53	VLO	
Chromium [7440-47-3] ^	**5.2**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:53	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:53	VLO	
Copper [7440-50-8] ^	0.60	U	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 16:53	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:53	VLO	
Nickel [7440-02-0] ^	**4.5**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 16:53	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:53	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 16:53	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 11:10	JDH	
Vanadium [7440-62-2] ^	**3.6**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 16:53	VLO	
Zinc [7440-66-6] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 16:53	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 SW-2
Matrix: Surface Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-13
Sampled: 05/05/08 12:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/12/08 22:29	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/12/08 22:29	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/12/08 22:29	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 22:29	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/12/08 22:29	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/12/08 22:29	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/12/08 22:29	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/12/08 22:29	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/12/08 22:29	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/12/08 22:29	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/12/08 22:29	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 22:29	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/12/08 22:29	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/12/08 22:29	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/12/08 22:29	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 22:29	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/12/08 22:29	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 22:29	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/12/08 22:29	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/12/08 22:29	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/12/08 22:29	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/12/08 22:29	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/12/08 22:29	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/12/08 22:29	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/12/08 22:29	JKG	

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Description: 4112 SW-2
Matrix: Surface Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-13
Sampled: 05/05/08 12:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 22:29	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/12/08 22:29	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*79 %*	*69-120*	*8E10004*	*EPA 8260B*	*05/12/08 22:29*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*61-120*	*8E10004*	*EPA 8260B*	*05/12/08 22:29*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*75-99*	*8E10004*	*EPA 8260B*	*05/12/08 22:29*	*JKG*	

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Description: 4112 SW-2
Matrix: Surface Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-13
Sampled: 05/05/08 12:30
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 11:13	JDH	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:01	VLO	
Barium [7440-39-3] ^	**51.2**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 17:01	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 17:01	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 17:01	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:01	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:01	VLO	
Copper [7440-50-8] ^	**1.30**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 17:01	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:01	VLO	
Nickel [7440-02-0] ^	**3.5**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 17:01	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:01	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:01	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 11:13	JDH	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 17:01	VLO	
Zinc [7440-66-6] ^	**5.8**	J	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 17:01	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 SW-3
Matrix: Surface Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-14
Sampled: 05/05/08 12:45
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/12/08 22:59	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/12/08 22:59	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/12/08 22:59	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 22:59	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/12/08 22:59	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/12/08 22:59	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/12/08 22:59	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/12/08 22:59	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/12/08 22:59	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/12/08 22:59	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/12/08 22:59	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 22:59	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/12/08 22:59	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/12/08 22:59	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/12/08 22:59	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 22:59	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/12/08 22:59	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 22:59	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/12/08 22:59	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/12/08 22:59	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/12/08 22:59	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/12/08 22:59	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/12/08 22:59	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/12/08 22:59	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/12/08 22:59	JKG	

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Description: 4112 SW-3
Matrix: Surface Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-14
Sampled: 05/05/08 12:45
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 22:59	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/12/08 22:59	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*79 %*	*69-120*	*8E10004*	*EPA 8260B*	*05/12/08 22:59*	*JKG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*61-120*	*8E10004*	*EPA 8260B*	*05/12/08 22:59*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*95 %*	*75-99*	*8E10004*	*EPA 8260B*	*05/12/08 22:59*	*JKG*	

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Description: 4112 SW-3
Matrix: Surface Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-14
Sampled: 05/05/08 12:45
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 11:16	JDH	
Arsenic [7440-38-2] ^	**2.4**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:08	VLO	
Barium [7440-39-3] ^	**53.0**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 17:08	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 17:08	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 17:08	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:08	VLO	
Cobalt [7440-48-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:08	VLO	
Copper [7440-50-8] ^	**2.50**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 17:08	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:08	VLO	
Nickel [7440-02-0] ^	**3.9**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 17:08	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:08	VLO	
Silver [7440-22-4] ^	**2.2**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:08	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 11:16	JDH	
Vanadium [7440-62-2] ^	1.0	U	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 17:08	VLO	
Zinc [7440-66-6] ^	**6.4**	J	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 17:08	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4103 SW-4
Matrix: Surface Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-15
Sampled: 05/05/08 12:15
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/12/08 23:30	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/12/08 23:30	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/12/08 23:30	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 23:30	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/12/08 23:30	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/12/08 23:30	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/12/08 23:30	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/12/08 23:30	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/12/08 23:30	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/12/08 23:30	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/12/08 23:30	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 23:30	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/12/08 23:30	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/12/08 23:30	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/12/08 23:30	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/12/08 23:30	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/12/08 23:30	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/12/08 23:30	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/12/08 23:30	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/12/08 23:30	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/12/08 23:30	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/12/08 23:30	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/12/08 23:30	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/12/08 23:30	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/12/08 23:30	JKG	

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Description: 4103 SW-4
Matrix: Surface Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-15
Sampled: 05/05/08 12:15
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/12/08 23:30	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/12/08 23:30	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*79 %*	*69-120*	*8E10004*	*EPA 8260B*	*05/12/08 23:30*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*61-120*	*8E10004*	*EPA 8260B*	*05/12/08 23:30*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*75-99*	*8E10004*	*EPA 8260B*	*05/12/08 23:30*	*JKG*	

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Description: 4103 SW-4
Matrix: Surface Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-15
Sampled: 05/05/08 12:15
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 11:19	JDH	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:15	VLO	
Barium [7440-39-3] ^	**92.5**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 17:15	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 17:15	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 17:15	VLO	
Chromium [7440-47-3] ^	**15.0**		ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:15	VLO	
Cobalt [7440-48-4] ^	**7.1**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:15	VLO	
Copper [7440-50-8] ^	**13.3**		ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 17:15	VLO	
Lead [7439-92-1] ^	**14.8**		ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:15	VLO	
Nickel [7440-02-0] ^	**5.5**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 17:15	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:15	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:15	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 11:19	JDH	
Vanadium [7440-62-2] ^	**9.3**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 17:15	VLO	
Zinc [7440-66-6] ^	**154**		ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 17:15	VLO	

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Description: 4103 SW-5
Matrix: Surface Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-16
Sampled: 05/05/08 12:05
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/13/08 00:01	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/13/08 00:01	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/13/08 00:01	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/13/08 00:01	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/08 00:01	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/13/08 00:01	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/13/08 00:01	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/13/08 00:01	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/13/08 00:01	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/13/08 00:01	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/13/08 00:01	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/13/08 00:01	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/13/08 00:01	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/13/08 00:01	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/13/08 00:01	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/13/08 00:01	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/13/08 00:01	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/13/08 00:01	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/13/08 00:01	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/13/08 00:01	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/13/08 00:01	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/13/08 00:01	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/13/08 00:01	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/13/08 00:01	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/13/08 00:01	JKG	

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Description: 4103 SW-5
Matrix: Surface Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-16
Sampled: 05/05/08 12:05
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/13/08 00:01	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/13/08 00:01	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*69-120*	*8E10004*	*EPA 8260B*	*05/13/08 00:01*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*61-120*	*8E10004*	*EPA 8260B*	*05/13/08 00:01*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*75-99*	*8E10004*	*EPA 8260B*	*05/13/08 00:01*	*JKG*	

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Description: 4103 SW-5
Matrix: Surface Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-16
Sampled: 05/05/08 12:05
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 11:21	JDH	
Arsenic [7440-38-2] ^	**2.2**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:22	VLO	
Barium [7440-39-3] ^	**65.5**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 17:22	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 17:22	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 17:22	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:22	VLO	
Cobalt [7440-48-4] ^	**3.8**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:22	VLO	
Copper [7440-50-8] ^	**3.70**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 17:22	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:22	VLO	
Nickel [7440-02-0] ^	**6.7**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 17:22	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:22	VLO	
Silver [7440-22-4] ^	**2.4**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:22	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 11:21	JDH	
Vanadium [7440-62-2] ^	**2.4**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 17:22	VLO	
Zinc [7440-66-6] ^	**20.4**		ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 17:22	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 DUPLICATE-III
Matrix: Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-17
Sampled: 05/01/08 07:00
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/13/08 00:32	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/13/08 00:32	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/13/08 00:32	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/13/08 00:32	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/08 00:32	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/13/08 00:32	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/13/08 00:32	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/13/08 00:32	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/13/08 00:32	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/13/08 00:32	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/13/08 00:32	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/13/08 00:32	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/13/08 00:32	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/13/08 00:32	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/13/08 00:32	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/13/08 00:32	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/13/08 00:32	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/13/08 00:32	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/13/08 00:32	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/13/08 00:32	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/13/08 00:32	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/13/08 00:32	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/13/08 00:32	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/13/08 00:32	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/13/08 00:32	JKG	

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Description: 4112 DUPLICATE-III
Matrix: Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-17
Sampled: 05/01/08 07:00
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/13/08 00:32	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/13/08 00:32	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*69-120*	*8E10004*	*EPA 8260B*	*05/13/08 00:32*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*61-120*	*8E10004*	*EPA 8260B*	*05/13/08 00:32*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*75-99*	*8E10004*	*EPA 8260B*	*05/13/08 00:32*	*JKG*	

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Description: 4112 DUPLICATE-III
Matrix: Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-17
Sampled: 05/01/08 07:00
Sampled By: Gary Simcox

Received: 05/06/08 08:30
Work Order: C804272

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.68	U	ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 11:30	JDH	
Arsenic [7440-38-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:29	VLO	
Barium [7440-39-3] ^	**32.1**	JB	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 17:29	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 17:29	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 17:29	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:29	VLO	
Cobalt [7440-48-4] ^	**2.4**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:29	VLO	
Copper [7440-50-8] ^	**2.70**	J	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 17:29	VLO	
Lead [7439-92-1] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:29	VLO	
Nickel [7440-02-0] ^	**2.7**	J	ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 17:29	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:29	VLO	
Silver [7440-22-4] ^	**3.1**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:29	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 11:30	JDH	
Vanadium [7440-62-2] ^	**5.9**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 17:29	VLO	
Zinc [7440-66-6] ^	**5.1**	J	ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 17:29	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 4112 Trip Blank#3
Matrix: Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C804272-18
Sampled: 05/01/08 00:00
Sampled By:

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.29	U	ug/L	1	0.29	1.0	5	EPA 8260B	05/13/08 01:02	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	05/13/08 01:02	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	05/13/08 01:02	JKG	
1,1-Dichloroethene [75-35-4] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/13/08 01:02	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	05/13/08 01:02	JKG	
1,2-Dibromoethane [106-93-4] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	05/13/08 01:02	JKG	
1,2-Dichloroethane [107-06-2] ^	0.46	U	ug/L	1	0.46	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
2-Butanone [78-93-3] ^	0.44	U	ug/L	1	0.44	5.0	100	EPA 8260B	05/13/08 01:02	JKG	
2-Hexanone [591-78-6] ^	0.60	U	ug/L	1	0.60	5.0	50	EPA 8260B	05/13/08 01:02	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	05/13/08 01:02	JKG	
Acetone [67-64-1] ^	0.62	U	ug/L	1	0.62	5.0	100	EPA 8260B	05/13/08 01:02	JKG	
Acrylonitrile [107-13-1] ^	1.0	U	ug/L	1	1.0	5.0	200	EPA 8260B	05/13/08 01:02	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
Bromochloromethane [74-97-5] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/13/08 01:02	JKG	
Bromodichloromethane [75-27-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
Bromoform [75-25-2] ^	0.29	U	ug/L	1	0.29	1.0	3	EPA 8260B	05/13/08 01:02	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	05/13/08 01:02	JKG	
Carbon disulfide [75-15-0] ^	0.40	U	ug/L	1	0.40	5.0	100	EPA 8260B	05/13/08 01:02	JKG	
Carbon tetrachloride [56-23-5] ^	0.35	U	ug/L	1	0.35	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	05/13/08 01:02	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	05/13/08 01:02	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	05/13/08 01:02	JKG	
Chloromethane [74-87-3] ^	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.30	U	ug/L	1	0.30	1.0	5	EPA 8260B	05/13/08 01:02	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
Dibromochloromethane [124-48-1] ^	0.28	U	ug/L	1	0.28	1.0	3	EPA 8260B	05/13/08 01:02	JKG	
Dibromomethane [74-95-3] ^	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	05/13/08 01:02	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	05/13/08 01:02	JKG	
Methylene chloride [75-09-2] ^	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
Styrene [100-42-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
Toluene [108-88-3] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.25	U	ug/L	1	0.25	1.0	5	EPA 8260B	05/13/08 01:02	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.44	U	ug/L	1	0.44	1.0	100	EPA 8260B	05/13/08 01:02	JKG	
Trichloroethene [79-01-6] ^	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
Vinyl acetate [108-05-4] ^	0.40	U	ug/L	1	0.40	2.0	50	EPA 8260B	05/13/08 01:02	JKG	

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Description: 4112 Trip Blank#3
Matrix: Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C804272-18
Sampled: 05/01/08 00:00
Sampled By:

Received: 05/06/08 08:30
Work Order: C804272

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	05/13/08 01:02	JKG	
Xylenes (Total) [1330-20-7]	0.67	U	ug/L	1	0.67	1.0	5	EPA 8260B	05/13/08 01:02	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*37*	*1*	*50.0*	*74 %*	*69-120*	*8E10004*	*EPA 8260B*	*05/13/08 01:02*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*61-120*	*8E10004*	*EPA 8260B*	*05/13/08 01:02*	*JKG*	
Toluene-d8	*47*	*1*	*50.0*	*94 %*	*75-99*	*8E10004*	*EPA 8260B*	*05/13/08 01:02*	*JKG*	

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8E10002 - EPA 5030B_MS

Blank (8E10002-BLK1) Prepared: 05/10/2008 07:07 Analyzed: 05/10/2008 14:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.23	U	1.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
1,1-Dichloroethene	0.20	U	1.0	ug/L							
Acetone	0.62	U	5.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Carbon disulfide	0.40	U	5.0	ug/L							
Methylene chloride	0.24	U	1.0	ug/L							
Acrylonitrile	1.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.25	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
Vinyl acetate	0.40	U	2.0	ug/L							
2-Butanone	0.44	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.30	U	1.0	ug/L							
Bromochloromethane	0.27	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
Carbon tetrachloride	0.35	U	1.0	ug/L							
1,2-Dichloroethane	0.46	U	1.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Trichloroethene	0.25	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
Dibromomethane	0.21	U	1.0	ug/L							
Bromodichloromethane	0.20	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.24	U	1.0	ug/L							
4-Methyl-2-pentanone	0.56	U	5.0	ug/L							
Toluene	0.20	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.30	U	1.0	ug/L							
1,1,2-Trichloroethane	0.20	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
2-Hexanone	0.60	U	5.0	ug/L							
Dibromochloromethane	0.28	U	1.0	ug/L							
1,2-Dibromoethane	0.27	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.29	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Styrene	0.20	U	1.0	ug/L							
Bromoform	0.29	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,2,3-Trichloropropane	0.47	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.44	U	1.0	ug/L							
1,4-Dichlorobenzene	0.20	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
Xylenes (Total)	0.67	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*44*			*ug/L*	*50.0*		*89*	*61-120*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8E10002 - EPA 5030B_MS

Blank (8E10002-BLK1) Continued

Prepared: 05/10/2008 07:07 Analyzed: 05/10/2008 14:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*46*			*ug/L*	*50.0*		*92*	*75-99*			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*69-120*			

LCS (8E10002-BS1)

Prepared: 05/10/2008 07:07 Analyzed: 05/10/2008 14:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		99	71-121			
Benzene	21		1.0	ug/L	20.0		104	77-128			
Trichloroethene	19		1.0	ug/L	20.0		94	79-120			
Toluene	21		1.0	ug/L	20.0		104	77-120			
Chlorobenzene	20		1.0	ug/L	20.0		102	78-120			

Matrix Spike (8E10002-MS1)
Source: C804550-19

Prepared: 05/10/2008 07:07 Analyzed: 05/10/2008 15:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.20 U	105	71-121			
Benzene	21		1.0	ug/L	20.0	0.20 U	106	77-128			
Trichloroethene	19		1.0	ug/L	20.0	0.25 U	95	79-120			
Toluene	21		1.0	ug/L	20.0	0.20 U	107	77-120			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	105	78-120			

Matrix Spike Dup (8E10002-MSD1)
Source: C804550-19

Prepared: 05/10/2008 07:07 Analyzed: 05/10/2008 15:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.20 U	101	71-121	3	27	
Benzene	21		1.0	ug/L	20.0	0.20 U	105	77-128	1	27	
Trichloroethene	19		1.0	ug/L	20.0	0.25 U	93	79-120	2	27	
Toluene	21		1.0	ug/L	20.0	0.20 U	105	77-120	2	23	
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	104	78-120	0.6	25	

Batch 8E10004 - EPA 5030B_MS

Blank (8E10004-BLK1)

Prepared: 05/10/2008 10:06 Analyzed: 05/12/2008 16:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.23	U	1.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
1,1-Dichloroethene	0.20	U	1.0	ug/L							
Acetone	0.62	U	5.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Carbon disulfide	0.40	U	5.0	ug/L							
Methylene chloride	0.24	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8E10004 - EPA 5030B_MS

Blank (8E10004-BLK1) Continued

Prepared: 05/10/2008 10:06 Analyzed: 05/12/2008 16:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acrylonitrile	1.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.25	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
Vinyl acetate	0.40	U	2.0	ug/L							
2-Butanone	0.44	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.30	U	1.0	ug/L							
Bromochloromethane	0.27	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
Carbon tetrachloride	0.35	U	1.0	ug/L							
1,2-Dichloroethane	0.46	U	1.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Trichloroethene	0.25	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
Dibromomethane	0.21	U	1.0	ug/L							
Bromodichloromethane	0.20	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.24	U	1.0	ug/L							
4-Methyl-2-pentanone	0.56	U	5.0	ug/L							
Toluene	0.20	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.30	U	1.0	ug/L							
1,1,2-Trichloroethane	0.20	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
2-Hexanone	0.60	U	5.0	ug/L							
Dibromochloromethane	0.28	U	1.0	ug/L							
1,2-Dibromoethane	0.27	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.29	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Styrene	0.20	U	1.0	ug/L							
Bromoform	0.29	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,2,3-Trichloropropane	0.47	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.44	U	1.0	ug/L							
1,4-Dichlorobenzene	0.20	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
Xylenes (Total)	0.67	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*96*	*61-120*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*93*	*75-99*			
Surrogate: 4-Bromofluorobenzene	*42*			*ug/L*	*50.0*		*84*	*69-120*			

LCS (8E10004-BS1)

Prepared: 05/10/2008 10:06 Analyzed: 05/12/2008 17:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	29		1.0	ug/L	20.0		143	71-121			QL-02
Benzene	22		1.0	ug/L	20.0		110	77-128			
Trichloroethene	19		1.0	ug/L	20.0		95	79-120			
Toluene	20		1.0	ug/L	20.0		99	77-120			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8E10004 - EPA 5030B_MS

LCS (8E10004-BS1) Continued

Prepared: 05/10/2008 10:06 Analyzed: 05/12/2008 17:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	20		1.0	ug/L	20.0		102	78-120			

Matrix Spike (8E10004-MS1)
Source: C804550-22

Prepared: 05/10/2008 10:06 Analyzed: 05/12/2008 17:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	33		1.0	ug/L	20.0	0.20 U	167	71-121			QM-07
Benzene	23		1.0	ug/L	20.0	0.20 U	114	77-128			
Trichloroethene	20		1.0	ug/L	20.0	0.25 U	100	79-120			
Toluene	21		1.0	ug/L	20.0	0.20 U	105	77-120			
Chlorobenzene	21		1.0	ug/L	20.0	0.27 U	106	78-120			

Matrix Spike Dup (8E10004-MSD1)
Source: C804550-22

Prepared: 05/10/2008 10:06 Analyzed: 05/12/2008 18:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	32		1.0	ug/L	20.0	0.20 U	161	71-121	4	27	QM-07
Benzene	23		1.0	ug/L	20.0	0.20 U	116	77-128	2	27	
Trichloroethene	20		1.0	ug/L	20.0	0.25 U	100	79-120	0.2	27	
Toluene	22		1.0	ug/L	20.0	0.20 U	110	77-120	5	23	
Chlorobenzene	22		1.0	ug/L	20.0	0.27 U	108	78-120	3	25	

Batch 8E10006 - EPA 5030B_MS

Blank (8E10006-BLK1)

Prepared: 05/10/2008 12:46 Analyzed: 05/11/2008 06:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.23	U	1.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
1,1-Dichloroethene	0.20	U	1.0	ug/L							
Acetone	0.62	U	5.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Carbon disulfide	0.40	U	5.0	ug/L							
Methylene chloride	0.24	U	1.0	ug/L							
Acrylonitrile	1.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.25	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
Vinyl acetate	0.40	U	2.0	ug/L							
2-Butanone	0.44	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.30	U	1.0	ug/L							
Bromochloromethane	0.27	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
Carbon tetrachloride	0.35	U	1.0	ug/L							
1,2-Dichloroethane	0.46	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8E10006 - EPA 5030B_MS

Blank (8E10006-BLK1) Continued Prepared: 05/10/2008 12:46 Analyzed: 05/11/2008 06:54

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Benzene	0.20	U	1.0	ug/L							
Trichloroethene	0.25	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
Dibromomethane	0.21	U	1.0	ug/L							
Bromodichloromethane	0.20	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.24	U	1.0	ug/L							
4-Methyl-2-pentanone	0.56	U	5.0	ug/L							
Toluene	0.20	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.30	U	1.0	ug/L							
1,1,2-Trichloroethane	0.20	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
2-Hexanone	0.60	U	5.0	ug/L							
Dibromochloromethane	0.28	U	1.0	ug/L							
1,2-Dibromoethane	0.27	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.29	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Styrene	0.20	U	1.0	ug/L							
Bromoform	0.29	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,2,3-Trichloropropane	0.47	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.44	U	1.0	ug/L							
1,4-Dichlorobenzene	0.20	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
Xylenes (Total)	0.67	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*61-120*			
Surrogate: Toluene-d8	*40*			*ug/L*	*50.0*		*81*	*75-99*			
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*77*	*69-120*			

LCS (8E10006-BS1) Prepared: 05/10/2008 12:46 Analyzed: 05/11/2008 07:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	71-121			
Benzene	23		1.0	ug/L	20.0		117	77-128			
Trichloroethene	18		1.0	ug/L	20.0		88	79-120			
Toluene	20		1.0	ug/L	20.0		102	77-120			
Chlorobenzene	20		1.0	ug/L	20.0		98	78-120			

Matrix Spike (8E10006-MS1) Prepared: 05/10/2008 12:46 Analyzed: 05/11/2008 07:53

Source: C804550-23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.20 U	105	71-121			
Benzene	24		1.0	ug/L	20.0	0.20 U	120	77-128			
Trichloroethene	18		1.0	ug/L	20.0	0.25 U	91	79-120			
Toluene	21		1.0	ug/L	20.0	0.20 U	106	77-120			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	102	78-120			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8E10006 - EPA 5030B_MS

Matrix Spike Dup (8E10006-MSD1) Prepared: 05/10/2008 12:46 Analyzed: 05/11/2008 08:22

Source: C804550-23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.20 U	104	71-121	1	27	
Benzene	23		1.0	ug/L	20.0	0.20 U	116	77-128	4	27	
Trichloroethene	18		1.0	ug/L	20.0	0.25 U	89	79-120	2	27	
Toluene	21		1.0	ug/L	20.0	0.20 U	105	77-120	0.7	23	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	99	78-120	4	25	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E08018 - EPA 3005A

Blank (8E08018-BLK1) Prepared: 05/08/2008 11:27 Analyzed: 05/19/2008 14:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.0	U	10.0	ug/L							
Barium	**0.50**	**J**	10.0	ug/L							
Beryllium	0.70	U	1.00	ug/L							
Cadmium	0.50	U	1.00	ug/L							
Chromium	2.0	U	10.0	ug/L							
Cobalt	2.0	U	10.0	ug/L							
Copper	0.60	U	10.0	ug/L							
Lead	2.0	U	10.0	ug/L							
Nickel	2.0	U	10.0	ug/L							
Selenium	2.0	U	10.0	ug/L							
Silver	2.0	U	10.0	ug/L							
Vanadium	1.0	U	10.0	ug/L							
Zinc	1.0	U	10.0	ug/L							

LCS (8E08018-BS1) Prepared: 05/08/2008 11:27 Analyzed: 05/19/2008 14:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	526		10.0	ug/L	500		105	82-117			
Barium	536	B	10.0	ug/L	500		107	72-125			
Beryllium	267		1.00	ug/L	250		107	75-121			
Cadmium	271		1.00	ug/L	250		108	72-120			
Chromium	517		10.0	ug/L	500		103	78-119			
Cobalt	512		10.0	ug/L	500		102	76-117			
Copper	260		10.0	ug/L	250		104	80-117			
Lead	518		10.0	ug/L	500		104	72-121			
Nickel	530		10.0	ug/L	500		106	78-116			
Selenium	544		10.0	ug/L	500		109	82-127			
Silver	50.8		10.0	ug/L	50.0		102	80-128			
Vanadium	250		10.0	ug/L	250		100	78-117			
Zinc	519		10.0	ug/L	500		104	80-120			

Matrix Spike (8E08018-MS1) Prepared: 05/08/2008 11:27 Analyzed: 05/19/2008 14:42

Source: C804272-01

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E08018 - EPA 3005A

Matrix Spike (8E08018-MS1) Continued Prepared: 05/08/2008 11:27 Analyzed: 05/19/2008 14:42

Source: C804272-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	508		10.0	ug/L	500	2.0 U	102	64-126			
Barium	549	B	10.0	ug/L	500	30.3	104	74-119			
Beryllium	260		1.00	ug/L	250	0.70 U	104	70-131			
Cadmium	256		1.00	ug/L	250	0.50 U	102	68-121			
Chromium	496		10.0	ug/L	500	2.0 U	99	73-120			
Cobalt	489		10.0	ug/L	500	2.0 U	98	76-120			
Copper	253		10.0	ug/L	250	0.60 U	101	75-123			
Lead	492		10.0	ug/L	500	2.0 U	98	68-126			
Nickel	506		10.0	ug/L	500	2.0 U	101	64-126			
Selenium	525		10.0	ug/L	500	2.0 U	105	65-129			
Silver	50.4		10.0	ug/L	50.0	2.0 U	101	69-121			
Vanadium	235		10.0	ug/L	250	1.0 U	94	71-130			
Zinc	494		10.0	ug/L	500	1.0 U	99	63-131			

Matrix Spike Dup (8E08018-MSD1) Prepared: 05/08/2008 11:27 Analyzed: 05/19/2008 14:49

Source: C804272-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	517		10.0	ug/L	500	2.0 U	103	64-126	2	12	
Barium	550	B	10.0	ug/L	500	30.3	104	74-119	0.1	11	
Beryllium	262		1.00	ug/L	250	0.70 U	105	70-131	0.8	21	
Cadmium	260		1.00	ug/L	250	0.50 U	104	68-121	1	12	
Chromium	498		10.0	ug/L	500	2.0 U	100	73-120	0.3	10	
Cobalt	495		10.0	ug/L	500	2.0 U	99	76-120	1	17	
Copper	253		10.0	ug/L	250	0.60 U	101	75-123	0	16	
Lead	498		10.0	ug/L	500	2.0 U	100	68-126	1	19	
Nickel	512		10.0	ug/L	500	2.0 U	102	64-126	1	12	
Selenium	531		10.0	ug/L	500	2.0 U	106	65-129	1	10	
Silver	50.8		10.0	ug/L	50.0	2.0 U	102	69-121	0.8	12	
Vanadium	236		10.0	ug/L	250	1.0 U	94	71-130	0.6	16	
Zinc	503		10.0	ug/L	500	1.0 U	101	63-131	2	24	

Batch 8E08019 - EPA 3005A

Blank (8E08019-BLK1) Prepared: 05/08/2008 11:33 Analyzed: 05/12/2008 10:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	2.00	ug/L							
Thallium	**0.053**	**J**	1.00	ug/L							

LCS (8E08019-BS1) Prepared: 05/08/2008 11:33 Analyzed: 05/12/2008 10:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.3		2.00	ug/L	25.0		101	85-115			
Thallium	26.2	B	1.00	ug/L	25.0		105	85-115			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E08019 - EPA 3005A

Matrix Spike (8E08019-MS1)
Source: C804272-02

Prepared: 05/08/2008 11:33 Analyzed: 05/12/2008 10:31

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.9		2.00	ug/L	25.0	0.68 U	100	85-115			
Thallium	24.6	B	1.00	ug/L	25.0	0.040	98	85-115			

Matrix Spike Dup (8E08019-MSD1)
Source: C804272-02

Prepared: 05/08/2008 11:33 Analyzed: 05/12/2008 10:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.7		2.00	ug/L	25.0	0.68 U	99	85-115	0.5	20	
Thallium	24.3	B	1.00	ug/L	25.0	0.040	97	85-115	1	20	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 3

Client Name: S&ME, Inc. (SN004)	Project Number: (none)
Address: 3718 Old Battleground Rd	Project Name/Desc: White Street Landfill Ind Monitoring Well
City/ST/Zip: Greensboro, NC 27410	PO # / Billing Info:
Tel: (336) 288-7180 Fax: (336) 288-6980	Reporting Contact: Edmund Henderson
Sampler(s) Name, Affiliation (Print): Gary Simcox / S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Analyses: 8260B Appendix I

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. ___ Standard ___ Expedited Due __/__/__

Lab Workorder: C804272

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers										Sample Comments
	4112 MW-15	5/1/08	1630	G	GW	4	X	X								
	4112 MW-16	5/2/08	1310	G	GW	4	X	X								
	4112 MW-17	5/2/08	0935	G	GW	4	X	X								
	4112 MW-18	5/2/08	0845	G	GW	4	X	X								
	4112 MW-19	5/1/08	0810	G	GW	4	X	X								
	4112 MW-20	5/1/08	1125	G	GW	4	X	X								
	4112 MW-21	5/1/08	1230	G	GW	4	X	X								
	4112 MW-22	5/1/08	1330	G	GW	4	X	X								
	4112 MW-23	5/1/08	1430	G	GW	4	X	X								
	4112 MW-24	5/1/08	1535	G	GW	4	X	X								
	4112 MW-25	5/1/08	0920	G	GW	4	X	X								
	4112 MW-25B	5/1/08	1005	G	GW	4	X	X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
BJG	4/04/08				
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: John Lowe	Date/Time: 5/6 830
		Cooler ID's & Temps on Receipt: C-433 5.8		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SS-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: Hcl: H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreement exist

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 2 of 2

Client Name	S&ME, Inc. (SM004)
Project Number	[none]
Address	3718 Old Battleground Rd.
Project Name/Desc.	White Street Landfill Appr Monitoring Wells
City/ST/Zip	Greensboro, NC 27410
PO # / Billing Info	
Tel	(336) 288-7180
Fax	(336) 288-8989
Reporting Contact	Edmund Hemricuss
Sampler(s) Name, Affiliation (Print)	Shawn McCrory
Billing Contact	Accounts Payable
Sampler(s) Signature	
Facility # (if required)	

Requested Analyses: 8260B Appendix 1

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: 0804272

Preservation (See Codes) (Continue as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers			Sample Comments
	4112 SW-2	5/5/08	1230	G	SW	4	X	X	
	4112 SW-3	5/5/08	1245	G	SW	4	X	X	
	4103 SW-4	5/5/08	1215	G	SW	4	X	X	
	4103 SW-6	5/5/08	1205	G	SW	4	X	X	
	4112 DUPLICATE-III	5/1/08	0200	G	WA	4	X	X	
	4112 Trip Blank#3				WA	2	X		

<- Total # of Containers

Sample Kit Prepared By: BJG	Date/Time: 4/24/08	Relinquished By:	Date/Time	Received By	Date/Time
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: John Lowe	Date/Time: 5/6 830
		Cooler #'s & Temps on Receipt: C-435 5.8		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: H-or-H-HCl N-HNO3 S-H2SO4 ND-NaOH O-Other (detail in comments)

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Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: S&ME, Inc. (SM004)	Project Number: Inonel
Address: 3718 Old Battleground Rd.	Project Name/Desc: White Street Landfill Appl Monitoring Wells
City/ST/Zip: Greensboro, NC 27410	PO # / Billing Info:
Tel: (336) 288-7180 / Fax: (336) 288-8980	Reporting Contact: Edmund Henriques
Sampler(s) Name, Affiliation (Print): GARY SIMCOX / S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Analyses: 8260B Appendix 1; Ag As Ba Be Cd Co Cr Cu Ni Pb Sb Se Tl V Zn

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C804272

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag As Ba Be Cd Co Cr Cu Ni Pb Sb Se Tl V Zn									Sample Comments
	4112 MW-15	5/1/08	1630	G	GW	4	X	X									
	4112 MW-16	5/2/08	1310	G	GW	4	X	X									
	4112 MW-17	5/2/08	0935	G	GW	4	X	X									
	4112 MW-18	5/2/08	0845	G	GW	4	X	X									
	4112 MW-19	5/1/08	0810	G	GW	4	X	X									
	4112 MW-20	5/1/08	1125	G	GW	4	X	X									
	4112 MW-21	5/1/08	1230	G	GW	4	X	X									
	4112 MW-22	5/1/08	1330	G	GW	4	X	X									
	4112 MW-23	5/1/08	1430	G	GW	4	X	X									
	4112 MW-24	5/1/08	1535	G	GW	4	X	X									
	4112 MW-25	5/1/08	0920	G	GW	4	X	X									
	4112 MW-25B	5/1/08	1005	G	GW	4	X	X									
							<-- Total # of Containers										

Sample Kit Prepared By: BJG	Date/Time: 4/24/08	Relinquished By:	Date/Time	Received By	Date/Time
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: John Lawn	Date/Time: 5/6 830
		Cooler #'s & Temps on Receipt: C-433 5.8		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: S&ME, Inc. (SM004)	Project Number: [none]
Address: 3718 Old Battleground Rd.	Project Name/Desc: White Street Landfill Appl Monitoring Wells
City/ST/Zip: Greensboro, NC 27410	PO # / Billing Info:
Tel: (336) 288-7180 / Fax: (336) 288-8980	Reporting Contact: Edmund Henriques
Sampler(s) Name, Affiliation (Print): Shawn Melroney	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses: 8260B Appendix 1; Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C804272

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers			Sample Comments
	4112 SW-2	5/5/08	1230	G	SW	4	X	X	
	4112 SW-3	5/5/08	1245	G	SW	4	X	X	
	4103 SW-4	5/5/08	1215	G	SW	4	X	X	
	4103 SW-5	5/5/08	1205	G	SW	4	X	X	
	4112 DUPLICATE-III	5/1/08	0700	G	WA	4	X	X	
	4112 Trip Blank#3				WA	2	X		

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
BJG	4/24/08	[signature]			
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By: John Lawrence	Date/Time: 5/6 830

Cooler #'s & Temps on Receipt: C-433 5.8

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515
www.encolabs.com

Tuesday, May 20, 2008

S&ME, Inc. (SM004)

Attn: Edmund Henriques

3718 Old Battleground Rd.

Greensboro, NC 27410

RE: Laboratory Results for
Project Number: [none], Project Name/Desc: White Street Landfill Leachate
ENCO Workorder: C804273

Dear Edmund Henriques,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, May 6, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Chuck Smith
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 15.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4103 Leachate | Lab ID: C804273-01 | Sampled: 05/05/08 11:35 | Received: 05/06/08 10:40

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 150.1	05/05/08 11:49	05/07/08 14:45	5/7/2008 14:45
EPA 300.0	06/02/08	05/09/08 14:22	5/10/2008 07:17
EPA 365.4	06/02/08	05/13/08 11:15	5/14/2008 11:41
EPA 405.1	05/07/08 11:35 05/12/08	05/07/08 10:46	5/12/2008 13:59
EPA 410.4	06/02/08	05/15/08 12:33	5/15/2008 16:30
EPA 6010B	11/01/08	05/08/08 11:27	5/19/2008 17:36
EPA 6020	11/01/08	05/08/08 11:33	5/12/2008 11:32
EPA 8260B	05/19/08	05/16/08 07:45	5/16/2008 12:06

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4103 Leachate — Lab ID: C804273-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	13	D	10	2.0	10	1	ug/L	EPA 8260B	PH
2-Butanone	2000	D	10	4.4	50	100	ug/L	EPA 8260B	PH
2-Hexanone	6.0	JD	10	6.0	50	50	ug/L	EPA 8260B	PH
4-Methyl-2-pentanone	140	D	10	5.6	50	100	ug/L	EPA 8260B	PH
Acetone	1400	D	10	6.2	50	100	ug/L	EPA 8260B	PH
Antimony	19.2		1	0.68	2.00	6	ug/L	EPA 6020	
Arsenic	2.5	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	762	B	1	0.20	10.0	100	ug/L	EPA 6010B	
Benzene	8.4	JD	10	2.0	10	1	ug/L	EPA 8260B	PH
Biochemical Oxygen Demand	960		1	2.0	2.0	NE	mg/L	EPA 405.1	B-03
Chemical Oxygen Demand	1900		1	200	200	NE	mg/L	EPA 410.4	
Cobalt	25.8		1	2.0	10.0	10	ug/L	EPA 6010B	
Ethylbenzene	48	D	10	2.0	10	1	ug/L	EPA 8260B	PH
Lead	3.1	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Nickel	189		1	2.0	10.0	50	ug/L	EPA 6010B	
Phosphorus	2.3		1	0.050	0.10	NE	mg/L	EPA 365.4	
Sulfate as SO4	3.1	J	1	0.25	5.0	250	mg/L	EPA 300.0	
Sulfate as SO4	3.1	J	1	0.25	5.0	250	mg/L	EPA 300.0	
Toluene	41	D	10	2.0	10	1	ug/L	EPA 8260B	PH
Vanadium	12.5	J	1	1.0	10.0	25	ug/L	EPA 6010B	
Xylenes (Total)	120	D	10	6.7	10	5	ug/L	EPA 8260B	PH
Zinc	54.8		1	1.0	10.0	10	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: 4103 Leachate
Matrix: Ground Water
Project: White Street Landfill Leachate

Lab Sample ID: C804273-01
Sampled: 05/05/08 11:35
Sampled By:

Received: 05/06/08 10:40
Work Order: C804273

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	2.9	UD	ug/L	10	2.9	10	5	EPA 8260B	05/16/08 12:06	jkg	PH
1,1,1-Trichloroethane [71-55-6] ^	2.7	UD	ug/L	10	2.7	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
1,1,2,2-Tetrachloroethane [79-34-5] ^	3.3	UD	ug/L	10	3.3	10	3	EPA 8260B	05/16/08 12:06	jkg	PH
1,1,2-Trichloroethane [79-00-5] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
1,1-Dichloroethane [75-34-3] ^	3.3	UD	ug/L	10	3.3	10	5	EPA 8260B	05/16/08 12:06	jkg	PH
1,1-Dichloroethene [75-35-4] ^	2.0	UD	ug/L	10	2.0	10	5	EPA 8260B	05/16/08 12:06	jkg	PH
1,2,3-Trichloropropane [96-18-4] ^	4.7	UD	ug/L	10	4.7	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
1,2-Dibromo-3-chloropropane [96-12-8] ^	4.8	UD	ug/L	10	4.8	10	13	EPA 8260B	05/16/08 12:06	jkg	PH
1,2-Dibromoethane [106-93-4] ^	2.7	UD	ug/L	10	2.7	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
1,2-Dichlorobenzene [95-50-1] ^	2.7	UD	ug/L	10	2.7	10	5	EPA 8260B	05/16/08 12:06	jkg	PH
1,2-Dichloroethane [107-06-2] ^	4.6	UD	ug/L	10	4.6	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
1,2-Dichloropropane [78-87-5] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
1,4-Dichlorobenzene [106-46-7] ^	**13**	D	ug/L	10	2.0	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
2-Butanone [78-93-3] ^	**2000**	D	ug/L	10	4.4	50	100	EPA 8260B	05/16/08 12:06	jkg	PH
2-Hexanone [591-78-6] ^	**6.0**	JD	ug/L	10	6.0	50	50	EPA 8260B	05/16/08 12:06	jkg	PH
4-Methyl-2-pentanone [108-10-1] ^	**140**	D	ug/L	10	5.6	50	100	EPA 8260B	05/16/08 12:06	jkg	PH
Acetone [67-64-1] ^	**1400**	D	ug/L	10	6.2	50	100	EPA 8260B	05/16/08 12:06	jkg	PH
Acrylonitrile [107-13-1] ^	10	UD	ug/L	10	10	50	200	EPA 8260B	05/16/08 12:06	jkg	PH
Benzene [71-43-2] ^	**8.4**	JD	ug/L	10	2.0	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
Bromochloromethane [74-97-5] ^	2.7	UD	ug/L	10	2.7	10	3	EPA 8260B	05/16/08 12:06	jkg	PH
Bromodichloromethane [75-27-4] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
Bromoform [75-25-2] ^	2.9	UD	ug/L	10	2.9	10	3	EPA 8260B	05/16/08 12:06	jkg	PH
Bromomethane [74-83-9] ^	4.9	UD	ug/L	10	4.9	10	10	EPA 8260B	05/16/08 12:06	jkg	PH
Carbon disulfide [75-15-0] ^	4.0	UD	ug/L	10	4.0	50	100	EPA 8260B	05/16/08 12:06	jkg	PH
Carbon tetrachloride [56-23-5] ^	3.5	UD	ug/L	10	3.5	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
Chlorobenzene [108-90-7] ^	2.7	UD	ug/L	10	2.7	10	3	EPA 8260B	05/16/08 12:06	jkg	PH
Chloroethane [75-00-3] ^	3.0	UD	ug/L	10	3.0	10	10	EPA 8260B	05/16/08 12:06	jkg	PH
Chloroform [67-66-3] ^	2.0	UD	ug/L	10	2.0	10	5	EPA 8260B	05/16/08 12:06	jkg	PH
Chloromethane [74-87-3] ^	2.3	UD	ug/L	10	2.3	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
cis-1,2-Dichloroethene [156-59-2] ^	3.0	UD	ug/L	10	3.0	10	5	EPA 8260B	05/16/08 12:06	jkg	PH
cis-1,3-Dichloropropene [10061-01-5] ^	2.4	UD	ug/L	10	2.4	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
Dibromochloromethane [124-48-1] ^	2.8	UD	ug/L	10	2.8	10	3	EPA 8260B	05/16/08 12:06	jkg	PH
Dibromomethane [74-95-3] ^	2.1	UD	ug/L	10	2.1	10	10	EPA 8260B	05/16/08 12:06	jkg	PH
Ethylbenzene [100-41-4] ^	**48**	D	ug/L	10	2.0	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
Iodomethane [74-88-4] ^	5.2	UD	ug/L	10	5.2	20	10	EPA 8260B	05/16/08 12:06	jkg	PH
Methylene chloride [75-09-2] ^	2.4	UD	ug/L	10	2.4	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
Styrene [100-42-5] ^	2.0	UD	ug/L	10	2.0	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
Tetrachloroethene [127-18-4] ^	3.6	UD	ug/L	10	3.6	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
Toluene [108-88-3] ^	**41**	D	ug/L	10	2.0	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
trans-1,2-Dichloroethene [156-60-5] ^	2.5	UD	ug/L	10	2.5	10	5	EPA 8260B	05/16/08 12:06	jkg	PH
trans-1,3-Dichloropropene [10061-02-6] ^	3.0	UD	ug/L	10	3.0	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
trans-1,4-Dichloro-2-butene [110-57-6] ^	4.4	UD	ug/L	10	4.4	10	100	EPA 8260B	05/16/08 12:06	jkg	PH
Trichloroethene [79-01-6] ^	2.5	UD	ug/L	10	2.5	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
Trichlorofluoromethane [75-69-4] ^	2.8	UD	ug/L	10	2.8	10	1	EPA 8260B	05/16/08 12:06	jkg	PH

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Description: 4103 Leachate
Matrix: Ground Water
Project: White Street Landfill Leachate

Lab Sample ID: C804273-01
Sampled: 05/05/08 11:35
Sampled By:

Received: 05/06/08 10:40
Work Order: C804273

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	4.0	UD	ug/L	10	4.0	20	50	EPA 8260B	05/16/08 12:06	jkg	PH
Vinyl chloride [75-01-4] ^	3.0	UD	ug/L	10	3.0	10	1	EPA 8260B	05/16/08 12:06	jkg	PH
Xylenes (Total) [1330-20-7]	**120**	D	ug/L	10	6.7	10	5	EPA 8260B	05/16/08 12:06	jkg	PH

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*69-120*	*8E16002*	*EPA 8260B*	*05/16/08 12:06*	*jkg*	*PH*
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*61-120*	*8E16002*	*EPA 8260B*	*05/16/08 12:06*	*jkg*	*PH*
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*75-99*	*8E16002*	*EPA 8260B*	*05/16/08 12:06*	*jkg*	*PH*

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Description: 4103 Leachate
Matrix: Ground Water
Project: White Street Landfill Leachate

Lab Sample ID: C804273-01
Sampled: 05/05/08 11:35
Sampled By:

Received: 05/06/08 10:40
Work Order: C804273

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**19.2**		ug/L	1	0.68	2.00	6	EPA 6020	05/12/08 11:32	JDH	
Arsenic [7440-38-2] ^	**2.5**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:36	VLO	
Barium [7440-39-3] ^	**762**	B	ug/L	1	0.20	10.0	100	EPA 6010B	05/19/08 17:36	VLO	
Beryllium [7440-41-7] ^	0.70	U	ug/L	1	0.70	1.00	1	EPA 6010B	05/19/08 17:36	VLO	
Cadmium [7440-43-9] ^	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	05/19/08 17:36	VLO	
Chromium [7440-47-3] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:36	VLO	
Cobalt [7440-48-4] ^	**25.8**		ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:36	VLO	
Copper [7440-50-8] ^	0.60	U	ug/L	1	0.60	10.0	10	EPA 6010B	05/19/08 17:36	VLO	
Lead [7439-92-1] ^	**3.1**	J	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:36	VLO	
Nickel [7440-02-0] ^	**189**		ug/L	1	2.0	10.0	50	EPA 6010B	05/19/08 17:36	VLO	
Selenium [7782-49-2] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:36	VLO	
Silver [7440-22-4] ^	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	05/19/08 17:36	VLO	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	05/12/08 11:32	JDH	
Vanadium [7440-62-2] ^	**12.5**	J	ug/L	1	1.0	10.0	25	EPA 6010B	05/19/08 17:36	VLO	
Zinc [7440-66-6] ^	**54.8**		ug/L	1	1.0	10.0	10	EPA 6010B	05/19/08 17:36	VLO	

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Description: 4103 Leachate
Matrix: Ground Water
Project: White Street Landfill Leachate

Lab Sample ID: C804273-01
Sampled: 05/05/08 11:35
Sampled By:

Received: 05/06/08 10:40
Work Order: C804273

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [NA] ^	**960**		mg/L	1	2.0	2.0	NE	EPA 405.1	05/12/08 13:59	GPW	B-03
Chemical Oxygen Demand [NA] ^	**1900**		mg/L	1	200	200	NE	EPA 410.4	05/15/08 16:30	GPW	
pH [NA] ^	**7.0**		pH Units	1	1.0	1.0		EPA 150.1	05/07/08 14:45	FLT	Q
Phosphorus [7723-14-0] ^	**2.3**		mg/L	1	0.050	0.10	NE	EPA 365.4	05/14/08 11:41	PEV	
Sulfate as SO4 [14808-79-8]	**3.1**	J	mg/L	1	0.25	5.0	250	EPA 300.0	05/10/08 07:17	AJ	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8E16002 - EPA 5030B_MS

Blank (8E16002-BLK1) Prepared: 05/16/2008 07:45 Analyzed: 05/16/2008 09:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.23	U	1.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
1,1-Dichloroethene	0.20	U	1.0	ug/L							
Acetone	0.62	U	5.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Carbon disulfide	0.40	U	5.0	ug/L							
Methylene chloride	0.24	U	1.0	ug/L							
Acrylonitrile	1.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.25	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
Vinyl acetate	0.40	U	2.0	ug/L							
2-Butanone	0.44	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.30	U	1.0	ug/L							
Bromochloromethane	0.27	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
Carbon tetrachloride	0.35	U	1.0	ug/L							
1,2-Dichloroethane	0.46	U	1.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Trichloroethene	0.25	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
Dibromomethane	0.21	U	1.0	ug/L							
Bromodichloromethane	0.20	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.24	U	1.0	ug/L							
4-Methyl-2-pentanone	0.56	U	5.0	ug/L							
Toluene	0.20	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.30	U	1.0	ug/L							
1,1,2-Trichloroethane	0.20	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
2-Hexanone	0.60	U	5.0	ug/L							
Dibromochloromethane	0.28	U	1.0	ug/L							
1,2-Dibromoethane	0.27	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.29	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Styrene	0.20	U	1.0	ug/L							
Bromoform	0.29	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,2,3-Trichloropropane	0.47	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.44	U	1.0	ug/L							
1,4-Dichlorobenzene	0.20	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
Xylenes (Total)	0.67	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*42*			*ug/L*	*50.0*		*84*	*61-120*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8E16002 - EPA 5030B_MS

Blank (8E16002-BLK1) Continued Prepared: 05/16/2008 07:45 Analyzed: 05/16/2008 09:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*85*	*75-99*			
Surrogate: 4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*78*	*69-120*			

LCS (8E16002-BS1) Prepared: 05/16/2008 07:45 Analyzed: 05/16/2008 10:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		111	71-121			
Benzene	22		1.0	ug/L	20.0		111	77-128			
Trichloroethene	18		1.0	ug/L	20.0		91	79-120			
Toluene	20		1.0	ug/L	20.0		102	77-120			
Chlorobenzene	20		1.0	ug/L	20.0		99	78-120			

Matrix Spike (8E16002-MS1) Prepared: 05/16/2008 07:45 Analyzed: 05/16/2008 10:37

Source: C804960-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.20 U	109	71-121			
Benzene	23		1.0	ug/L	20.0	0.20 U	113	77-128			
Trichloroethene	18		1.0	ug/L	20.0	0.25 U	90	79-120			
Toluene	20		1.0	ug/L	20.0	0.20 U	102	77-120			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	99	78-120			

Matrix Spike Dup (8E16002-MSD1) Prepared: 05/16/2008 07:45 Analyzed: 05/16/2008 11:06

Source: C804960-17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.20 U	102	71-121	7	27	
Benzene	23		1.0	ug/L	20.0	0.20 U	115	77-128	2	27	
Trichloroethene	18		1.0	ug/L	20.0	0.25 U	90	79-120	0.3	27	
Toluene	20		1.0	ug/L	20.0	0.20 U	102	77-120	0.6	23	
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	97	78-120	2	25	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E08018 - EPA 3005A

Blank (8E08018-BLK1) Prepared: 05/08/2008 11:27 Analyzed: 05/19/2008 14:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.0	U	10.0	ug/L							
Barium	**0.50**	**J**	10.0	ug/L							
Beryllium	0.70	U	1.00	ug/L							
Cadmium	0.50	U	1.00	ug/L							
Chromium	2.0	U	10.0	ug/L							
Cobalt	2.0	U	10.0	ug/L							
Copper	0.60	U	10.0	ug/L							
Lead	2.0	U	10.0	ug/L							
Nickel	2.0	U	10.0	ug/L							

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E08018 - EPA 3005A

Blank (8E08018-BLK1) Continued Prepared: 05/08/2008 11:27 Analyzed: 05/19/2008 14:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Selenium	2.0	U	10.0	ug/L							
Silver	2.0	U	10.0	ug/L							
Vanadium	1.0	U	10.0	ug/L							
Zinc	1.0	U	10.0	ug/L							

LCS (8E08018-BS1) Prepared: 05/08/2008 11:27 Analyzed: 05/19/2008 14:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	526		10.0	ug/L	500		105	82-117			
Barium	536	B	10.0	ug/L	500		107	72-125			
Beryllium	267		1.00	ug/L	250		107	75-121			
Cadmium	271		1.00	ug/L	250		108	72-120			
Chromium	517		10.0	ug/L	500		103	78-119			
Cobalt	512		10.0	ug/L	500		102	76-117			
Copper	260		10.0	ug/L	250		104	80-117			
Lead	518		10.0	ug/L	500		104	72-121			
Nickel	530		10.0	ug/L	500		106	78-116			
Selenium	544		10.0	ug/L	500		109	82-127			
Silver	50.8		10.0	ug/L	50.0		102	80-128			
Vanadium	250		10.0	ug/L	250		100	78-117			
Zinc	519		10.0	ug/L	500		104	80-120			

Matrix Spike (8E08018-MS1) Prepared: 05/08/2008 11:27 Analyzed: 05/19/2008 14:42

Source: C804272-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	508		10.0	ug/L	500	2.0 U	102	64-126			
Barium	549	B	10.0	ug/L	500	30.3	104	74-119			
Beryllium	260		1.00	ug/L	250	0.70 U	104	70-131			
Cadmium	256		1.00	ug/L	250	0.50 U	102	68-121			
Chromium	496		10.0	ug/L	500	2.0 U	99	73-120			
Cobalt	489		10.0	ug/L	500	2.0 U	98	76-120			
Copper	253		10.0	ug/L	250	0.60 U	101	75-123			
Lead	492		10.0	ug/L	500	2.0 U	98	68-126			
Nickel	506		10.0	ug/L	500	2.0 U	101	64-126			
Selenium	525		10.0	ug/L	500	2.0 U	105	65-129			
Silver	50.4		10.0	ug/L	50.0	2.0 U	101	69-121			
Vanadium	235		10.0	ug/L	250	1.0 U	94	71-130			
Zinc	494		10.0	ug/L	500	1.0 U	99	63-131			

Matrix Spike Dup (8E08018-MSD1) Prepared: 05/08/2008 11:27 Analyzed: 05/19/2008 14:49

Source: C804272-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	517		10.0	ug/L	500	2.0 U	103	64-126	2	12	
Barium	550	B	10.0	ug/L	500	30.3	104	74-119	0.1	11	
Beryllium	262		1.00	ug/L	250	0.70 U	105	70-131	0.8	21	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8E08018 - EPA 3005A

Matrix Spike Dup (8E08018-MSD1) Continued Prepared: 05/08/2008 11:27 Analyzed: 05/19/2008 14:49

Source: C804272-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	260		1.00	ug/L	250	0.50 U	104	68-121	1	12	
Chromium	498		10.0	ug/L	500	2.0 U	100	73-120	0.3	10	
Cobalt	495		10.0	ug/L	500	2.0 U	99	76-120	1	17	
Copper	253		10.0	ug/L	250	0.60 U	101	75-123	0	16	
Lead	498		10.0	ug/L	500	2.0 U	100	68-126	1	19	
Nickel	512		10.0	ug/L	500	2.0 U	102	64-126	1	12	
Selenium	531		10.0	ug/L	500	2.0 U	106	65-129	1	10	
Silver	50.8		10.0	ug/L	50.0	2.0 U	102	69-121	0.8	12	
Vanadium	236		10.0	ug/L	250	1.0 U	94	71-130	0.6	16	
Zinc	503		10.0	ug/L	500	1.0 U	101	63-131	2	24	

Batch 8E08019 - EPA 3005A

Blank (8E08019-BLK1) Prepared: 05/08/2008 11:33 Analyzed: 05/12/2008 10:23

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.68	U	2.00	ug/L							
Thallium	**0.053**	**J**	1.00	ug/L							

LCS (8E08019-BS1) Prepared: 05/08/2008 11:33 Analyzed: 05/12/2008 10:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	25.3		2.00	ug/L	25.0		101	85-115			
Thallium	26.2	B	1.00	ug/L	25.0		105	85-115			

Matrix Spike (8E08019-MS1) Prepared: 05/08/2008 11:33 Analyzed: 05/12/2008 10:31

Source: C804272-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.9		2.00	ug/L	25.0	0.68 U	100	85-115			
Thallium	24.6	B	1.00	ug/L	25.0	0.040	98	85-115			

Matrix Spike Dup (8E08019-MSD1) Prepared: 05/08/2008 11:33 Analyzed: 05/12/2008 10:34

Source: C804272-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.7		2.00	ug/L	25.0	0.68 U	99	85-115	0.5	20	
Thallium	24.3	B	1.00	ug/L	25.0	0.040	97	85-115	1	20	

Classical Chemistry Parameters - Quality Control

Batch 8E07014 - NO PREP

Blank (8E07014-BLK1) Prepared: 05/07/2008 10:46 Analyzed: 05/12/2008 13:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							B-03

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E07014 - NO PREP

LCS (8E07014-BS1) Prepared: 05/07/2008 10:46 Analyzed: 05/12/2008 13:59

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	210		2.0	mg/L	198		108	82-118			B-03

Duplicate (8E07014-DUP1) Prepared: 05/07/2008 10:46 Analyzed: 05/12/2008 13:59
Source: C804168-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L		2.0 U				25	B-03

Batch 8E07034 - NO PREP

LCS (8E07034-BS1) Prepared & Analyzed: 05/07/2008 14:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.0		1.0	pH Units	7.00		100	99-101			

Duplicate (8E07034-DUP1) Prepared & Analyzed: 05/07/2008 14:45
Source: C804273-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.0		1.0	pH Units		7.0			0.1	25	Q

Batch 8E09018 - NO PREP

Blank (8E09018-BLK1) Prepared: 05/09/2008 14:22 Analyzed: 05/09/2008 23:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.25	U	5.0	mg/L							

LCS (8E09018-BS1) Prepared: 05/09/2008 14:22 Analyzed: 05/10/2008 00:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	46		5.0	mg/L	50.0		93	90-110			

Matrix Spike (8E09018-MS1) Prepared: 05/09/2008 14:22 Analyzed: 05/10/2008 01:21
Source: C801910-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	48		5.0	mg/L	50.0	8.0	81	90-110			QM-13

Matrix Spike Dup (8E09018-MSD1) Prepared: 05/09/2008 14:22 Analyzed: 05/10/2008 01:50
Source: C801910-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	50		5.0	mg/L	50.0	8.0	84	90-110	3	10	QM-13

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QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8E12011 - Same

Blank (8E12011-BLK1) Prepared: 05/13/2008 11:15 Analyzed: 05/14/2008 11:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.050	U	0.10	mg/L							

LCS (8E12011-BS1) Prepared: 05/13/2008 11:15 Analyzed: 05/14/2008 11:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.7		0.10	mg/L	1.60		104	80-120			

Matrix Spike (8E12011-MS1) Prepared: 05/13/2008 11:15 Analyzed: 05/14/2008 11:15
Source: C804646-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	3.2		0.10	mg/L	1.60	1.7	88	80-120			

Matrix Spike Dup (8E12011-MSD1) Prepared: 05/13/2008 11:15 Analyzed: 05/14/2008 11:17
Source: C804646-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	3.3	E	0.10	mg/L	1.60	1.7	97	80-120	4	25	QM-16

Batch 8E15013 - NO PREP

Blank (8E15013-BLK1) Prepared: 05/15/2008 12:33 Analyzed: 05/15/2008 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	10	U	10	mg/L							

LCS (8E15013-BS1) Prepared: 05/15/2008 12:33 Analyzed: 05/15/2008 16:30

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	500		10	mg/L	500		99	90-110			

Matrix Spike (8E15013-MS1) Prepared: 05/15/2008 12:33 Analyzed: 05/15/2008 16:30
Source: C805027-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	540		10	mg/L	500	54	97	90-110			

Matrix Spike Dup (8E15013-MSD1) Prepared: 05/15/2008 12:33 Analyzed: 05/15/2008 16:30
Source: C805027-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	550		10	mg/L	500	54	100	90-110	3	15	

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
B-03	Blank exceeds the method required oxygen depletion of < 0.2 mg/L.
PH	Insufficient preservative to reduce the sample pH to less than 2. Sample was analyzed within 14 days of sampling, but beyond the 7 days recommended for Benzene, Toluene, and Ethylbenzene.
Q	Analysis performed outside of method - specified holding time.
QM-13	Suspected matrix effects
QM-16	Matrix spike recovery could not be calculated due to high concentrations of analyte in source sample.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3696 Fax (919) 467-3815

Page 1 of 1

Client Name: S&ME, Inc. (SM004)	Project Number: [none]
Address: 3718 Old Battleground Rd.	Project Name/Date: White Street Landfill Leachate
City/ST/Zip: Greensboro, NC 27410	PO # / Billing Info:
Tel: (336) 288-7180 Fax: (336) 288-8980	Reporting Contact: Edmund Hendrickx
Sampler(s) Name, Affiliation (Print):	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses: 8260B Appendix 1; 40 Additional Compounds; BOD 405.1; COD 410.4; pH; BH 150.1; Sulfate 375.4

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. ___ Standard ___ Expedited Due __/__/__

Lab Workorder: C804273

Preservation (See Codes) (Continue as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	40 Additional Compounds	BOD 405.1	COD 410.4	pH	BH 150.1	Sulfate 375.4						Sample Comments
	41031 Leachate	5/5/08	1135	G	GW	8	X	X	X	X	X	X							

<- Total # of Containers

Sample Kit Prepared By: JWL	Date/Time: 4/24 1015	Relinquished By: [signature]	Date/Time: 5/5/08	Received By: [signature]	Date/Time: 5/6/08 10:40
Comments:		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:

Cooler #'s & Temps on Receipt: C-278 1.3°C

Condition Upon Receipt: Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: H-Ice N-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: S&ME, Inc. (SM004)	Project Number: [none]
Address: 3718 Old Battleground Rd.	Project Name/Desc: White Street Landfill Leachate
City/ST/Zip: Greensboro, NC 27410	PO # / Billing Info:
Tel: (336) 288-7180 / Fax: (336) 288-8980	Reporting Contact: Edmund Henriques
Sampler(s) Name, Affiliation (Print):	Billing Contact: Accounts Payable
Sampler(s) Signature:	Facility # (if required):

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedite

Due ___/___/___

Lab Workorder: C804273

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Be,Cd,Co,Cr,Cu,Ni,Pb,Sb,Se,Tl,V,Zn	BOD 405.1	COD 410.4	P	pH 150.1,Sulfate 375.4					Sample Comments
	4103 Leachate	5/5/08	1135	G	GW	8	X	X	X	X	X	X					

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
JWL	4/24 1015	[signature]	5/5/08	[signature]	5/6/08 10:40
Comments		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-278 1.3°C

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

APPENDIX C

Descriptive Statistics

Basic Statistics

Parameter: Barium, total

Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	240
Total Non-Detects	214 (89.1667%)
Pooled Mean	456.542
Pooled Std Dev	130.669
Compliance Meas.	200
Compliance Mean	457.39
Compliance Std Dev	131.002
Background Meas.	40
Background Mean	452.305
Background Std Dev	130.557

Background Locations

There are 2 background location

Location	Meas.	Non-Detects	% ND	Total
MW-15	20	18	90	9060.2
MW-16	20	17	85	9032

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-15	453.01	144.632	0	2379	118.95
MW-16	451.6	118.609	0	2535.5	126.775

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-17	20	18	90	9103
MW-18	20	18	90	9052
MW-19	20	17	85	8617.9
MW-20	20	18	90	9094.6
MW-21	20	18	90	9060.7
MW-22	20	18	90	9216.4
MW-23	20	18	90	9126.6
MW-24	20	17	85	9658
MW-25	20	19	95	9519.6
MW-25d	20	18	90	9029.2

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-17	455.15	138.046	2.845	36.4723	2390	119.5
MW-18	452.6	145.897	0.295	36.4723	2374	118.7
MW-19	430.895	168.999	-21.41	36.4723	2501.5	125.075
MW-20	454.73	139.363	2.425	36.4723	2390	119.5
MW-21	453.035	144.555	0.73	36.4723	2381	119.05
MW-22	460.82	120.93	8.515	36.4723	2402	120.1
MW-23	456.33	134.418	4.025	36.4723	2396	119.8
MW-24	482.9	45.5584	30.595	36.4723	2544.5	127.225
MW-25	475.98	107.421	23.675	36.4723	2260.5	113.025
MW-25d	451.46	149.404	-0.845	36.4723	2366	118.3

Analysis of Variance Statistics

SS Wells	36889.6
SS Total	4.08079e+006

Kruskal-Wallis Statistics

Non-Detect Rank	107.5
Background Rank Sum	4914.5
Background Rank Mean	122.863
H Statistic	0.605922
H Adjusted for Ties	2.08173

Basic Statistics

Parameter: Chromium, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements	240
Total Non-Detects	226 (94.1667%)
Pooled Mean	10.4892
Pooled Std Dev	6.80792
Compliance Meas.	200
Compliance Mean	10.587
Compliance Std Dev	7.45696
Background Meas.	40
Background Mean	10
Background Std Dev	0

Background Locations

There are 2 background location

Location	Meas.	Non-Detects	% ND	Total
MW-15	20	20	100	200
MW-16	20	20	100	200

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-15	10	0	0	2270	113.5
MW-16	10	0	0	2270	113.5

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-17	20	19	95	302
MW-18	20	19	95	220.3
MW-19	20	18	90	203.1
MW-20	20	19	95	201
MW-21	20	18	90	193.2
MW-22	20	19	95	205
MW-23	20	20	100	200
MW-24	20	19	95	192.4
MW-25	20	18	90	213.1
MW-25d	20	17	85	187.3

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-17	15.1	22.8079	5.1	1.86468	2396.5	119.825
MW-18	11.015	4.53922	1.015	1.86468	2395.5	119.775
MW-19	10.155	0.49892	0.155	1.86468	2512	125.6
MW-20	10.05	0.223607	0.05	1.86468	2389.5	119.475
MW-21	9.66	1.52053	-0.34	1.86468	2503	125.15
MW-22	10.25	1.11803	0.25	1.86468	2393.5	119.675
MW-23	10	0	0	1.86468	2270	113.5
MW-24	9.62	1.69941	-0.38	1.86468	2384.5	119.225
MW-25	10.655	2.16709	0.655	1.86468	2517	125.85
MW-25d	9.365	2.01815	-0.635	1.86468	2618.5	130.925

Analysis of Variance Statistics

SS Wells	507.002
SS Total	11077.1

Kruskal-Wallis Statistics

Non-Detect Rank	113.5
Background Rank Sum	4540
Background Rank Mean	113.5
H Statistic	1.39533
H Adjusted for Ties	8.45694

Basic Statistics

Parameter: Copper, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements	240
Total Non-Detects	228 (95%)
Pooled Mean	190.229
Pooled Std Dev	42.6946
Compliance Meas.	200
Compliance Mean	190.23
Compliance Std Dev	42.7119
Background Meas.	40
Background Mean	190.225
Background Std Dev	43.1511

Background Locations

There are 2 background location

Location	Meas.	Non-Detects	% ND	Total
MW-15	20	20	100	4000
MW-16	20	18	90	3609

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-15	200	0	0	2290	114.5
MW-16	180.45	60.1738	0	2535	126.75

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-17	20	19	95	3801.9
MW-18	20	19	95	3804.7
MW-19	20	18	90	3620.8
MW-20	20	18	90	3601.6
MW-21	20	19	95	3802.2
MW-22	20	20	100	4000
MW-23	20	19	95	3800.8
MW-24	20	19	95	3811.1
MW-25	20	19	95	3802.9
MW-25d	20	20	100	4000

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-17	190.095	44.2965	-0.13	11.8136	2408.5	120.425
MW-18	190.235	43.6704	0.01	11.8136	2412.5	120.625
MW-19	181.04	58.4243	-9.185	11.8136	2533	126.65
MW-20	180.08	61.3125	-10.145	11.8136	2521	126.05
MW-21	190.11	44.2294	-0.115	11.8136	2409.5	120.475
MW-22	200	0	9.775	11.8136	2290	114.5
MW-23	190.04	44.5425	-0.185	11.8136	2405.5	120.275
MW-24	190.555	42.2393	0.33	11.8136	2414.5	120.725
MW-25	190.145	44.0729	-0.08	11.8136	2410.5	120.525
MW-25d	200	0	9.775	11.8136	2290	114.5

Analysis of Variance Statistics

SS Wells	11393.3
SS Total	435657

Kruskal-Wallis Statistics

Non-Detect Rank	114.5
Background Rank Sum	4825
Background Rank Mean	120.625
H Statistic	0.584149
H Adjusted for Ties	4.09565

Basic Statistics

Parameter: Nickel, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements	240
Total Non-Detects	229 (95.4167%)
Pooled Mean	48.4437
Pooled Std Dev	8.71605
Compliance Meas.	200
Compliance Mean	48.578
Compliance Std Dev	8.49581
Background Meas.	40
Background Mean	47.7725
Background Std Dev	9.83393

Background Locations

There are 2 background location

Location	Meas.	Non-Detects	% ND	Total
MW-15	20	20	100	1000
MW-16	20	18	90	910.9

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-15	50	0	0	2300	115
MW-16	45.545	13.7134	0	2537	126.85

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-17	20	19	95	1037.7
MW-18	20	19	95	975.4
MW-19	20	19	95	959.6
MW-20	20	19	95	955.6
MW-21	20	19	95	953
MW-22	20	20	100	1000
MW-23	20	20	100	1000
MW-24	20	18	90	915
MW-25	20	19	95	964.8
MW-25d	20	19	95	954.5

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-17	51.885	8.42998	4.1125	2.39396	2425	121.25
MW-18	48.77	5.50073	0.9975	2.39396	2424	121.2
MW-19	47.98	9.03371	0.2075	2.39396	2422	121.1
MW-20	47.78	9.92814	0.0075	2.39396	2418	120.9
MW-21	47.65	10.5095	-0.1225	2.39396	2415	120.75
MW-22	50	0	2.2275	2.39396	2300	115
MW-23	50	0	2.2275	2.39396	2300	115
MW-24	45.75	13.0957	-2.0225	2.39396	2540	127
MW-25	48.24	7.87096	0.4675	2.39396	2423	121.15
MW-25d	47.725	10.1741	-0.0475	2.39396	2416	120.8

Analysis of Variance Statistics

SS Wells	734.344
SS Total	18156.7

Kruskal-Wallis Statistics

Non-Detect Rank	115
Background Rank Sum	4837
Background Rank Mean	120.925
H Statistic	0.436758
H Adjusted for Ties	3.32652

Basic Statistics

Parameter: Vanadium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements	252
Total Non-Detects	238 (94.4444%)
Pooled Mean	38.2194
Pooled Std Dev	8.23586
Compliance Meas.	210
Compliance Mean	38.0324
Compliance Std Dev	8.68118
Background Meas.	42
Background Mean	39.1548
Background Std Dev	5.47777

Background Locations

There are 2 background location

Location	Meas.	Non-Detects	% ND	Total
MW-15	21	21	100	840
MW-16	21	20	95.2381	804.5

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-15	40	0	0	2509.5	119.5
MW-16	38.3095	7.74674	0	2638	125.619

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-17	21	19	90.4762	763.4
MW-18	21	19	90.4762	772
MW-19	21	18	85.7143	792.9
MW-20	21	19	90.4762	767.4
MW-21	21	20	95.2381	802.6
MW-22	21	21	100	840
MW-23	21	21	100	840
MW-24	21	21	100	840
MW-25	21	20	95.2381	802.1
MW-25d	21	19	90.4762	766.4

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-17	36.3524	11.5207	-2.80238	2.21701	2749.5	130.929
MW-18	36.7619	10.301	-2.39286	2.21701	2762.5	131.548
MW-19	37.7571	12.2445	-1.39762	2.21701	2899	138.048
MW-20	36.5429	10.9277	-2.6119	2.21701	2763.5	131.595
MW-21	38.219	8.16135	-0.935714	2.21701	2634	125.429
MW-22	40	0	0.845238	2.21701	2509.5	119.5
MW-23	40	0	0.845238	2.21701	2509.5	119.5
MW-24	40	0	0.845238	2.21701	2509.5	119.5
MW-25	38.1952	8.27046	-0.959524	2.21701	2632	125.333
MW-25d	36.4952	11.0699	-2.65952	2.21701	2761.5	131.5

Analysis of Variance Statistics

SS Wells	510.26
SS Total	17025.2

Kruskal-Wallis Statistics

Non-Detect Rank	119.5
Background Rank Sum	5147.5
Background Rank Mean	122.56
H Statistic	1.62041
H Adjusted for Ties	10.2831

Basic Statistics

Parameter: Zinc, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements	240
Total Non-Detects	220 (91.6667%)
Pooled Mean	47.595
Pooled Std Dev	13.4917
Compliance Meas.	200
Compliance Mean	47.571
Compliance Std Dev	14.0945
Background Meas.	40
Background Mean	47.715
Background Std Dev	10.0906

Background Locations

There are 2 background location

Location	Meas.	Non-Detects	% ND	Total
MW-15	20	20	100	1000
MW-16	20	18	90	908.6

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-15	50	0	0	2210	110.5
MW-16	45.43	14.0716	0	2455	122.75

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-17	20	18	90	908.1
MW-18	20	16	80	913.5
MW-19	20	17	85	907.2
MW-20	20	20	100	1000
MW-21	20	18	90	904.9
MW-22	20	18	90	902.3
MW-23	20	19	95	951
MW-24	20	18	90	1055.5
MW-25	20	18	90	971.7
MW-25d	20	20	100	1000

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-17	45.405	14.1545	-2.31	3.71714	2452	122.6
MW-18	45.675	14.4103	-2.04	3.71714	2701	135.05
MW-19	45.36	14.9934	-2.355	3.71714	2563.5	128.175
MW-20	50	0	2.285	3.71714	2210	110.5
MW-21	45.245	14.6356	-2.47	3.71714	2448	122.4
MW-22	45.115	15.0358	-2.6	3.71714	2435	121.75
MW-23	47.55	10.9567	-0.165	3.71714	2322.5	116.125
MW-24	52.775	26.1717	5.06	3.71714	2454	122.7
MW-25	48.585	11.6036	0.87	3.71714	2459	122.95
MW-25d	50	0	2.285	3.71714	2210	110.5

Analysis of Variance Statistics

SS Wells	1500.09
SS Total	43504.3

Kruskal-Wallis Statistics

Non-Detect Rank	110.5
Background Rank Sum	4665
Background Rank Mean	116.625
H Statistic	2.24151
H Adjusted for Ties	9.75641

Concentrations (ppb)

Parameter: Barium, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 240
Total Non-Detect: 214
Percent Non-Detects: 89.1667%
Total Background Measurements: 40
There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-15	20	18 (90%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	29.9	29.9
			5/2/2008	30.3	30.3
MW-16	20	17 (85%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	208	208
			9/24/2007	176	176
			5/2/2008	148	148

There are 10 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-17	20	18 (90%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	50.3	50.3
			5/2/2008	52.7	52.7

MW-18	20	18 (90%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	29	29
			5/2/2008	23	23
MW-19	20	17 (85%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	69	69
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	17.2	17.2
			5/2/2008	31.7	31.7
MW-20	20	18 (90%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	39.2	39.2
			5/2/2008	55.4	55.4
MW-21	20	18 (90%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500

			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	30.7	30.7
			5/2/2008	30	30
MW-22	20	18 (90%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	80.4	80.4
			5/2/2008	136	136
MW-23	20	18 (90%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	60	60
			5/2/2008	66.6	66.6
MW-24	20	17 (85%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	332	332
			9/24/2007	382	382
			5/2/2008	444	444
MW-25	20	19 (95%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500

			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	ND<500	ND<500
			5/2/2008	19.6	19.6
MW-25d	20	18 (90%)	12/16/1997	ND<500	ND<500
			1/14/1998	ND<500	ND<500
			2/13/1998	ND<500	ND<500
			3/6/1998	ND<500	ND<500
			10/15/1998	ND<500	ND<500
			3/25/1999	ND<500	ND<500
			9/23/1999	ND<500	ND<500
			3/29/2000	ND<500	ND<500
			9/14/2000	ND<500	ND<500
			3/12/2001	ND<500	ND<500
			10/13/2001	ND<500	ND<500
			3/8/2002	ND<500	ND<500
			9/19/2002	ND<500	ND<500
			4/15/2003	ND<500	ND<500
			10/16/2003	ND<500	ND<500
			3/25/2004	ND<500	ND<500
			10/18/2006	ND<500	ND<500
			4/9/2007	ND<500	ND<500
			9/24/2007	13	13
			5/2/2008	16.2	16.2

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Concentrations (ppb)

Parameter: Chromium, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 240
Total Non-Detect: 226
Percent Non-Detects: 94.1667%
Total Background Measurements: 40
There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-15	20	20 (100%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	ND<10	ND<10
			3/6/1998	ND<10	ND<10
			10/15/1998	ND<10	ND<10
			3/25/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10
			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	ND<10	ND<10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10
			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	ND<10	ND<10
			5/2/2008	ND<10	ND<10
MW-16	20	20 (100%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	ND<10	ND<10
			3/6/1998	ND<10	ND<10
			10/15/1998	ND<10	ND<10
			3/25/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10
			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	ND<10	ND<10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10
			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	ND<10	ND<10
			5/2/2008	ND<10	ND<10

There are 10 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-17	20	19 (95%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	ND<10	ND<10
			3/6/1998	ND<10	ND<10
			10/15/1998	ND<10	ND<10
			3/25/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10
			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	ND<10	ND<10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10
			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	ND<10	ND<10
			5/2/2008	112	112

MW-18	20	19 (95%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	ND<10	ND<10
			3/6/1998	ND<10	ND<10
			10/15/1998	ND<10	ND<10
			3/25/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10
			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	ND<10	ND<10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10
			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	ND<10	ND<10
			5/2/2008	30.3	30.3
MW-19	20	18 (90%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	12	12
			3/6/1998	ND<10	ND<10
			10/15/1998	ND<10	ND<10
			3/25/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10
			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	ND<10	ND<10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10
			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	ND<10	ND<10
			5/2/2008	11.1	11.1
MW-20	20	19 (95%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	ND<10	ND<10
			3/6/1998	ND<10	ND<10
			10/15/1998	ND<10	ND<10
			3/25/1999	11	11
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10
			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	ND<10	ND<10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10
			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	ND<10	ND<10
			5/2/2008	ND<10	ND<10
MW-21	20	18 (90%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	10	10
			3/6/1998	ND<10	ND<10
			10/15/1998	ND<10	ND<10
			3/25/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10
			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	ND<10	ND<10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10

			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	ND<10	ND<10
			5/2/2008	3.2	3.2
MW-22	20	19 (95%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	ND<10	ND<10
			3/6/1998	15	15
			10/15/1998	ND<10	ND<10
			3/25/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10
			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	ND<10	ND<10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10
			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	ND<10	ND<10
			5/2/2008	ND<10	ND<10
MW-23	20	20 (100%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	ND<10	ND<10
			3/6/1998	ND<10	ND<10
			10/15/1998	ND<10	ND<10
			3/25/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10
			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	ND<10	ND<10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10
			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	ND<10	ND<10
			5/2/2008	ND<10	ND<10
MW-24	20	19 (95%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	ND<10	ND<10
			3/6/1998	ND<10	ND<10
			10/15/1998	ND<10	ND<10
			3/25/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10
			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	ND<10	ND<10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10
			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	2.4	2.4
			5/2/2008	ND<10	ND<10
MW-25	20	18 (90%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	19	19
			3/6/1998	ND<10	ND<10
			10/15/1998	ND<10	ND<10
			3/25/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10

			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	ND<10	ND<10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10
			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	ND<10	ND<10
			5/2/2008	14.1	14.1
MW-25d	20	17 (85%)	12/16/1997	ND<10	ND<10
			1/14/1998	ND<10	ND<10
			2/13/1998	ND<10	ND<10
			3/6/1998	ND<10	ND<10
			10/15/1998	ND<10	ND<10
			3/25/1999	ND<10	ND<10
			9/23/1999	ND<10	ND<10
			3/29/2000	ND<10	ND<10
			9/14/2000	ND<10	ND<10
			3/12/2001	ND<10	ND<10
			10/13/2001	ND<10	ND<10
			3/8/2002	ND<10	ND<10
			9/19/2002	ND<10	ND<10
			4/15/2003	10	10
			10/16/2003	ND<10	ND<10
			3/25/2004	ND<10	ND<10
			10/18/2006	ND<10	ND<10
			4/9/2007	ND<10	ND<10
			9/24/2007	2.1	2.1
			5/2/2008	5.2	5.2

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Concentrations (ppb)

Parameter: Copper, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 240
Total Non-Detect: 228
Percent Non-Detects: 95%
Total Background Measurements: 40
There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-15	20	20 (100%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	ND<200	ND<200
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200
			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200
			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	ND<200	ND<200
			5/2/2008	ND<200	ND<200
MW-16	20	18 (90%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	ND<200	ND<200
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200
			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200
			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	4.9	4.9
			5/2/2008	4.1	4.1

There are 10 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-17	20	19 (95%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	ND<200	ND<200
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200
			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200
			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	ND<200	ND<200
			5/2/2008	1.9	1.9

MW-18	20	19 (95%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	ND<200	ND<200
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200
			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200
			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	ND<200	ND<200
			5/2/2008	4.7	4.7
MW-19	20	18 (90%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	19	19
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200
			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200
			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	ND<200	ND<200
			5/2/2008	1.8	1.8
MW-20	20	18 (90%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	ND<200	ND<200
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200
			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200
			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	1	1
			5/2/2008	0.6	0.6
MW-21	20	19 (95%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	ND<200	ND<200
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200
			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200

			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	ND<200	ND<200
			5/2/2008	2.2	2.2
MW-22	20	20 (100%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	ND<200	ND<200
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200
			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200
			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	ND<200	ND<200
			5/2/2008	ND<200	ND<200
MW-23	20	19 (95%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	ND<200	ND<200
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200
			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200
			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	ND<200	ND<200
			5/2/2008	0.8	0.8
MW-24	20	19 (95%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	ND<200	ND<200
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200
			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200
			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	ND<200	ND<200
			5/2/2008	11.1	11.1
MW-25	20	19 (95%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	ND<200	ND<200
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200

			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200
			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	ND<200	ND<200
			5/2/2008	2.9	2.9
MW-25d	20	20 (100%)	12/16/1997	ND<200	ND<200
			1/14/1998	ND<200	ND<200
			2/13/1998	ND<200	ND<200
			3/6/1998	ND<200	ND<200
			10/15/1998	ND<200	ND<200
			3/25/1999	ND<200	ND<200
			9/23/1999	ND<200	ND<200
			3/29/2000	ND<200	ND<200
			9/14/2000	ND<200	ND<200
			3/12/2001	ND<200	ND<200
			10/13/2001	ND<200	ND<200
			3/8/2002	ND<200	ND<200
			9/19/2002	ND<200	ND<200
			4/15/2003	ND<200	ND<200
			10/16/2003	ND<200	ND<200
			3/25/2004	ND<200	ND<200
			10/18/2006	ND<200	ND<200
			4/9/2007	ND<200	ND<200
			9/24/2007	ND<200	ND<200
			5/2/2008	ND<200	ND<200

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Concentrations (ppb)

Parameter: Nickel, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 240
Total Non-Detect: 229
Percent Non-Detects: 95.4167%
Total Background Measurements: 40
There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-15	20	20 (100%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	ND<50	ND<50
MW-16	20	18 (90%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	4.9	4.9
			5/2/2008	6	6

There are 10 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-17	20	19 (95%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	87.7	87.7

MW-18	20	19 (95%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	25.4	25.4
MW-19	20	19 (95%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	9.6	9.6
MW-20	20	19 (95%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	5.6	5.6
MW-21	20	19 (95%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50

			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	3	3
MW-22	20	20 (100%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	ND<50	ND<50
MW-23	20	20 (100%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	ND<50	ND<50
MW-24	20	18 (90%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	9.4	9.4
			5/2/2008	5.6	5.6
MW-25	20	19 (95%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50

			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	14.8	14.8
MW-25d	20	19 (95%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	4.5	4.5

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Concentrations (ppb)

Parameter: Vanadium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 252
Total Non-Detect: 238
Percent Non-Detects: 94.4444%
Total Background Measurements: 42
There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-15	21	21 (100%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	ND<40	ND<40
MW-16	21	20 (95.2381%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	4.5	4.5

There are 10 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-17	21	19 (90.4762%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40

			9/24/2007	1.4	1.4
			5/2/2008	2	2
MW-18	21	19 (90.4762%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	9.9	9.9
			5/2/2008	2.1	2.1
MW-19	21	18 (85.7143%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	64	64
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	3.9	3.9
			5/2/2008	5	5
MW-20	21	19 (90.4762%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	2.3	2.3
			5/2/2008	5.1	5.1
MW-21	21	20 (95.2381%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40

			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	2.6	2.6
MW-22	21	21 (100%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	ND<40	ND<40
MW-23	21	21 (100%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	ND<40	ND<40
MW-24	21	21 (100%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	ND<40	ND<40
MW-25	21	20 (95.2381%)	12/16/1997	ND<40	ND<40

			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	ND<40	ND<40
			5/2/2008	2.1	2.1
MW-25d	21	19 (90.4762%)	12/16/1997	ND<40	ND<40
			1/14/1998	ND<40	ND<40
			2/13/1998	ND<40	ND<40
			3/6/1998	ND<40	ND<40
			10/15/1998	ND<40	ND<40
			3/25/1999	ND<40	ND<40
			9/23/1999	ND<40	ND<40
			3/29/2000	ND<40	ND<40
			9/14/2000	ND<40	ND<40
			3/12/2001	ND<40	ND<40
			10/13/2001	ND<40	ND<40
			3/8/2002	ND<40	ND<40
			9/19/2002	ND<40	ND<40
			4/15/2003	ND<40	ND<40
			10/16/2003	ND<40	ND<40
			3/25/2004	ND<40	ND<40
			10/22/2004	ND<40	ND<40
			10/18/2006	ND<40	ND<40
			4/9/2007	ND<40	ND<40
			9/24/2007	2.8	2.8
			5/2/2008	3.6	3.6

There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

Concentrations (ppb)

Parameter: Zinc, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Measurements: 240
Total Non-Detect: 220
Percent Non-Detects: 91.6667%
Total Background Measurements: 40
There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-15	20	20 (100%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	ND<50	ND<50
MW-16	20	18 (90%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	3.1	3.1
			5/2/2008	5.5	5.5

There are 10 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-17	20	18 (90%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	2.3	2.3
			5/2/2008	5.8	5.8

MW-18	20	16 (80%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	56	56
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	50	50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	2.1	2.1
			5/2/2008	5.4	5.4
MW-19	20	17 (85%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	54	54
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	1	1
			5/2/2008	2.2	2.2
MW-20	20	20 (100%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	ND<50	ND<50
MW-21	20	18 (90%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50

			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	2.4	2.4
			5/2/2008	2.5	2.5
MW-22	20	18 (90%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	1.3	1.3
			5/2/2008	1	1
MW-23	20	19 (95%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	1	1
MW-24	20	18 (90%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	1.5	1.5
			5/2/2008	154	154
MW-25	20	18 (90%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	69	69
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50

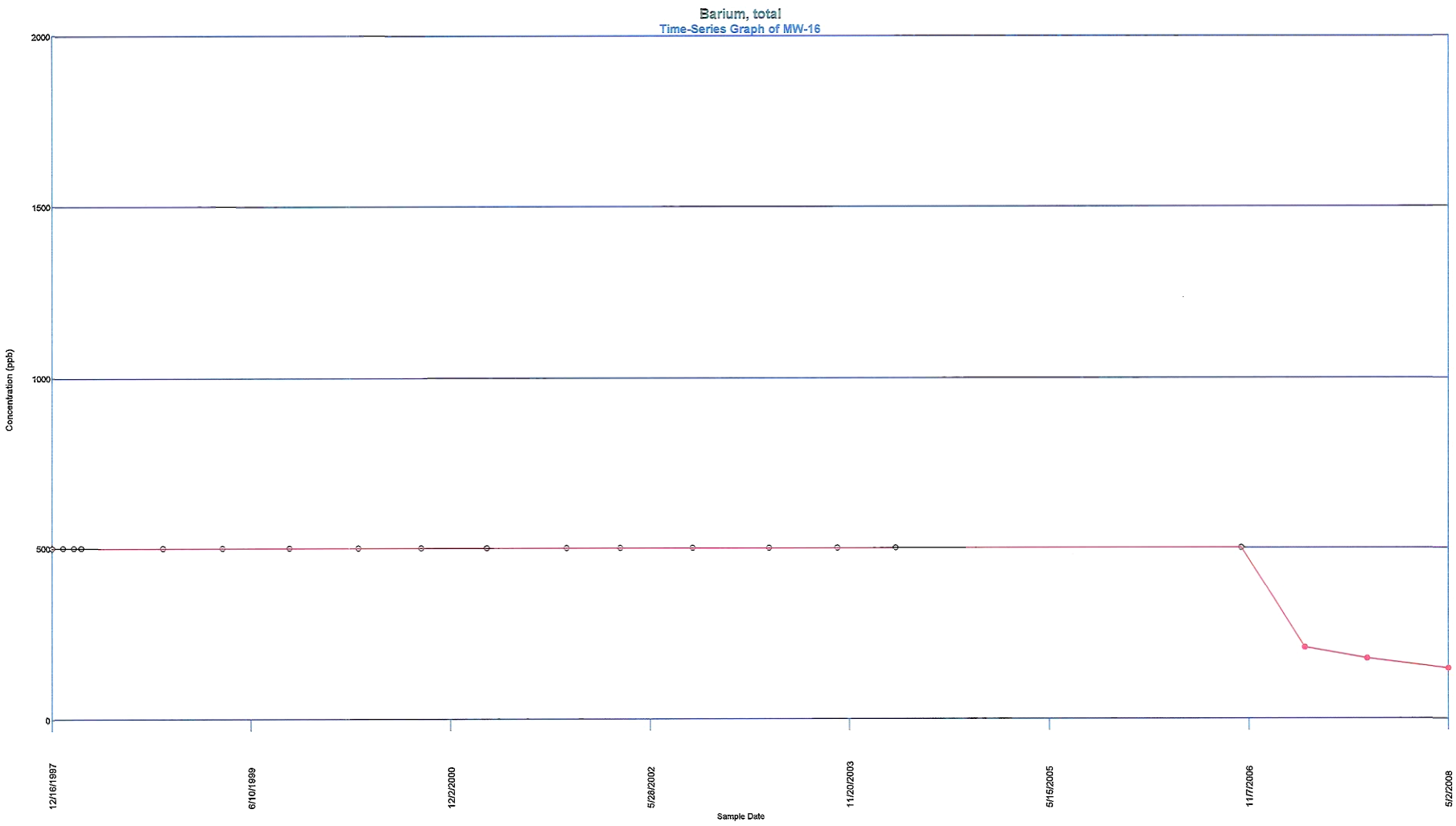
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	2.7	2.7
MW-25d	20	20 (100%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	ND<50	ND<50
			9/19/2002	ND<50	ND<50
			4/15/2003	ND<50	ND<50
			10/16/2003	ND<50	ND<50
			3/25/2004	ND<50	ND<50
			10/18/2006	ND<50	ND<50
			4/9/2007	ND<50	ND<50
			9/24/2007	ND<50	ND<50
			5/2/2008	ND<50	ND<50

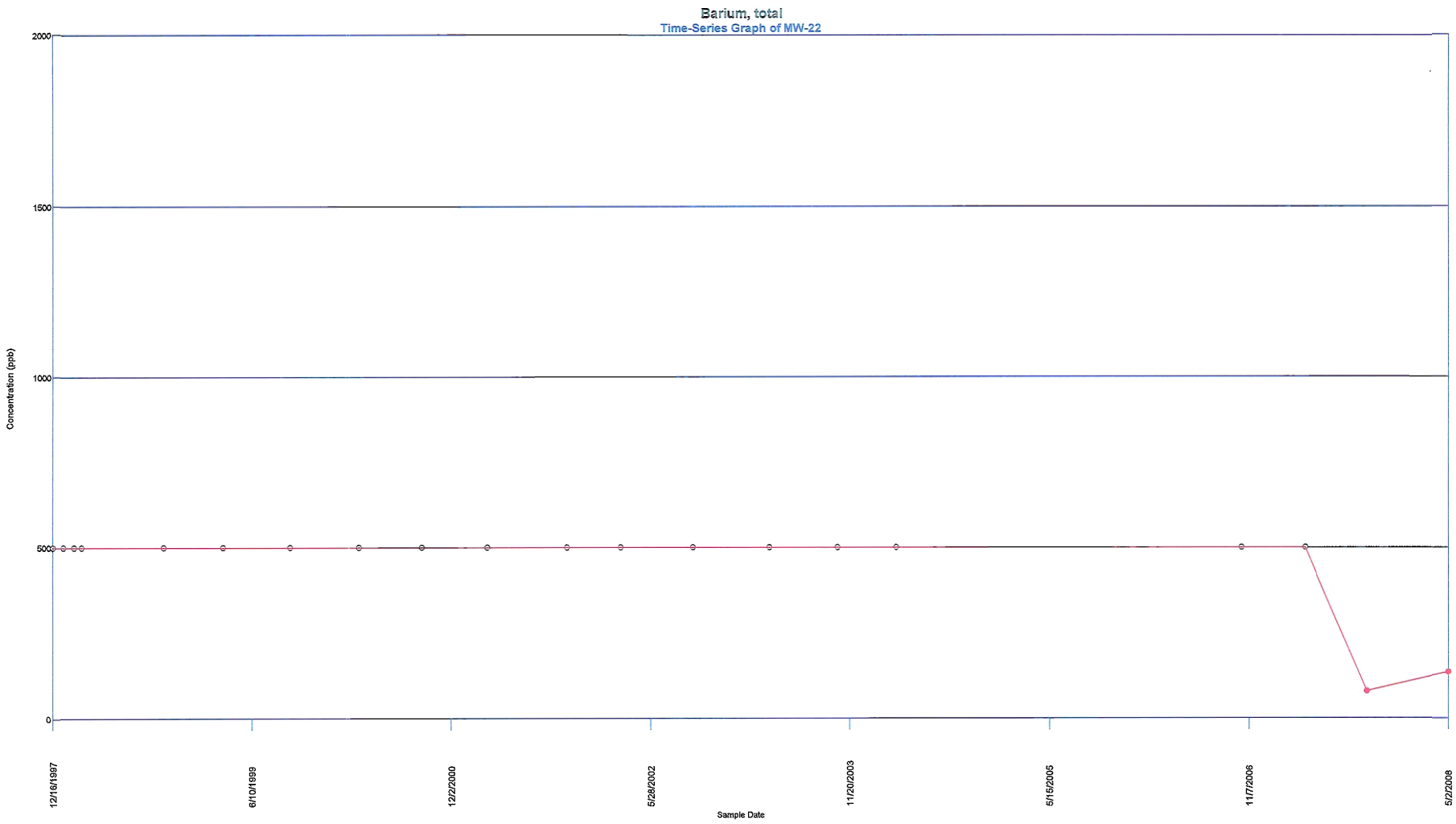
There are 0 unused locations

Loc.	Meas.	ND	Date	Conc.	Original

APPENDIX D

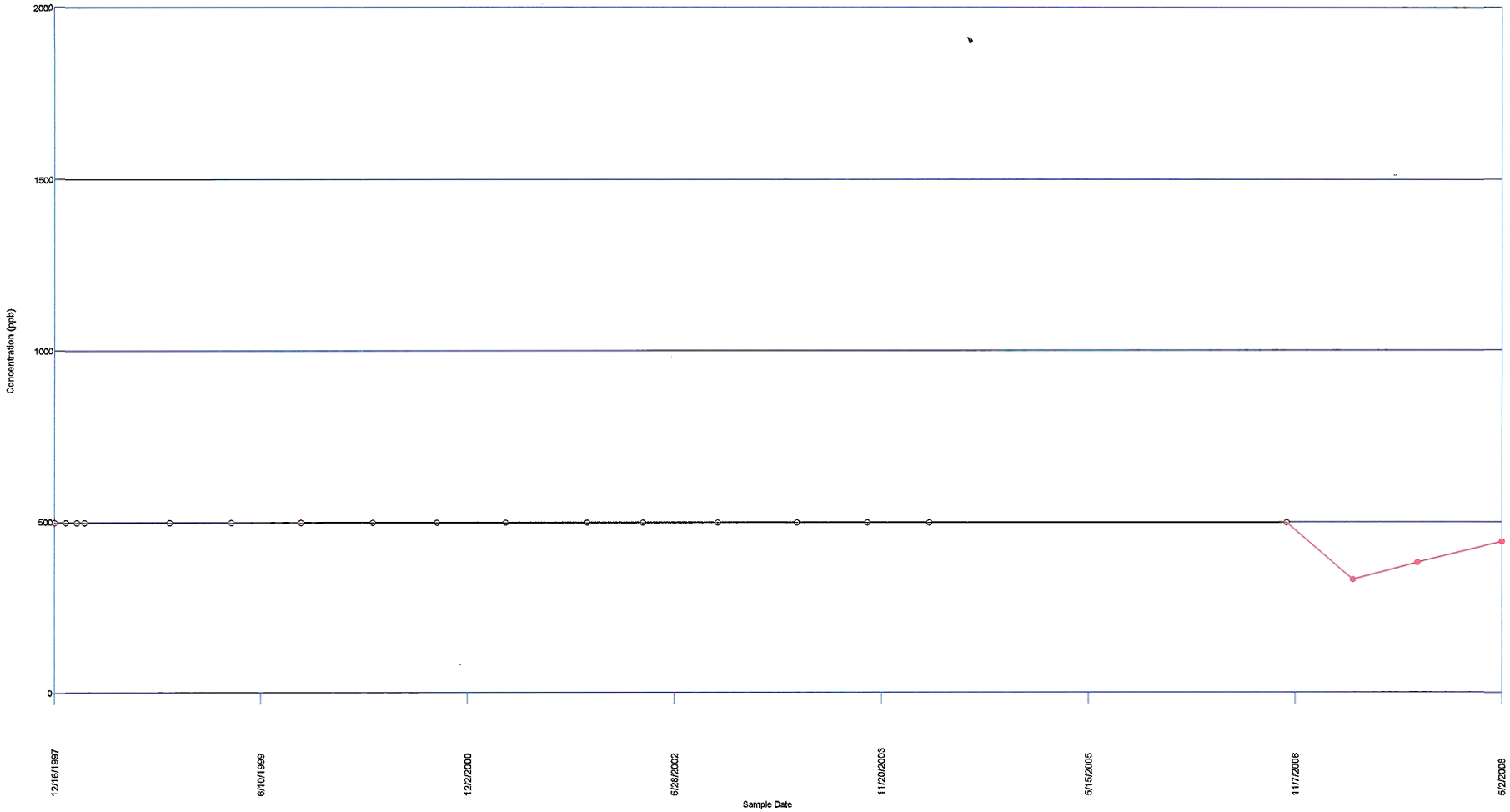
Time vs. Concentration Graphs

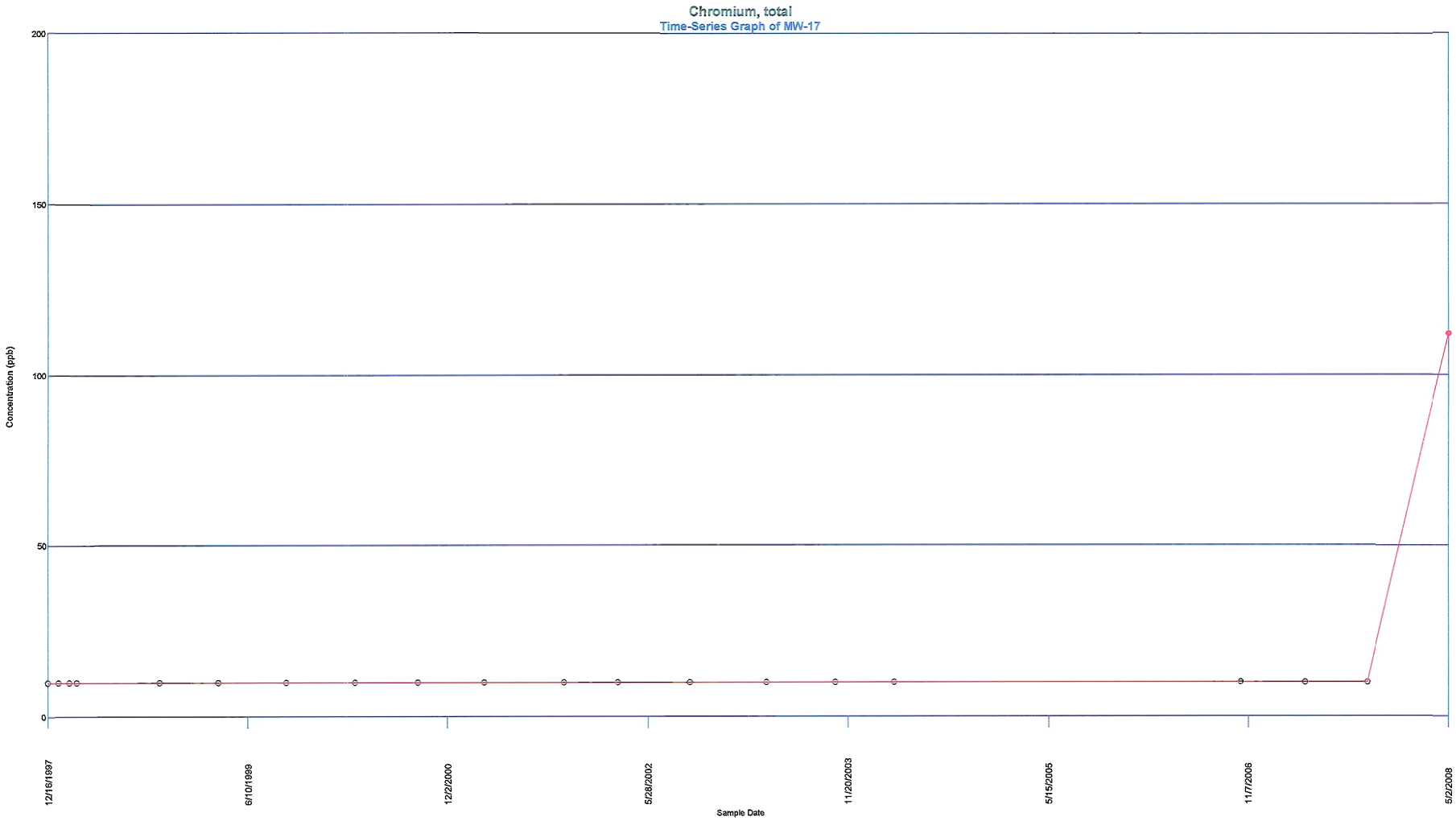

Barium, total
Time-Series Graph of MW-16
Concentration (ppb)
2000
1500
1000
500
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date

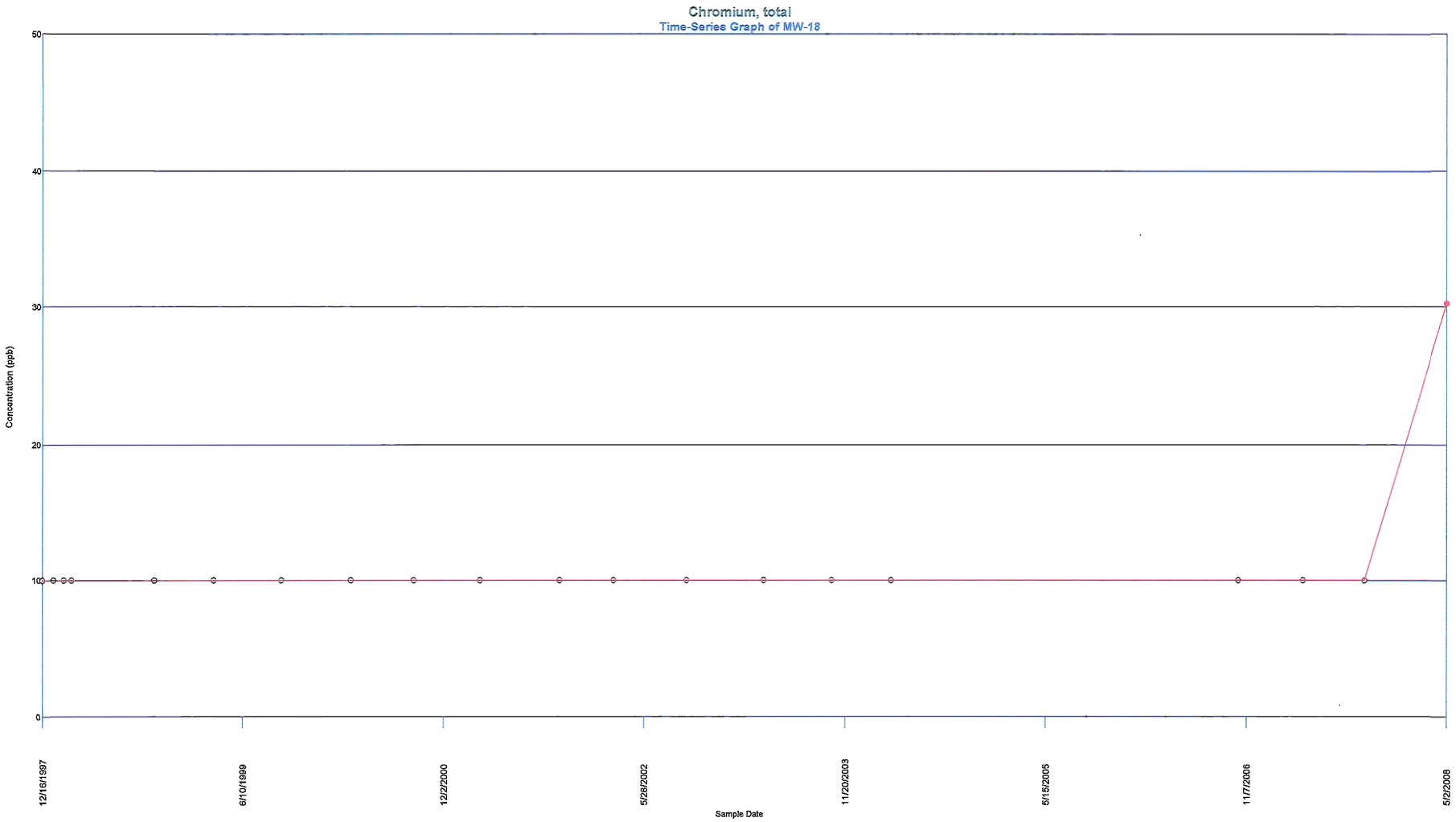

Barium, total
Time-Series Graph of MW-22
Concentration (ppb)
2000
1500
1000
500
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date

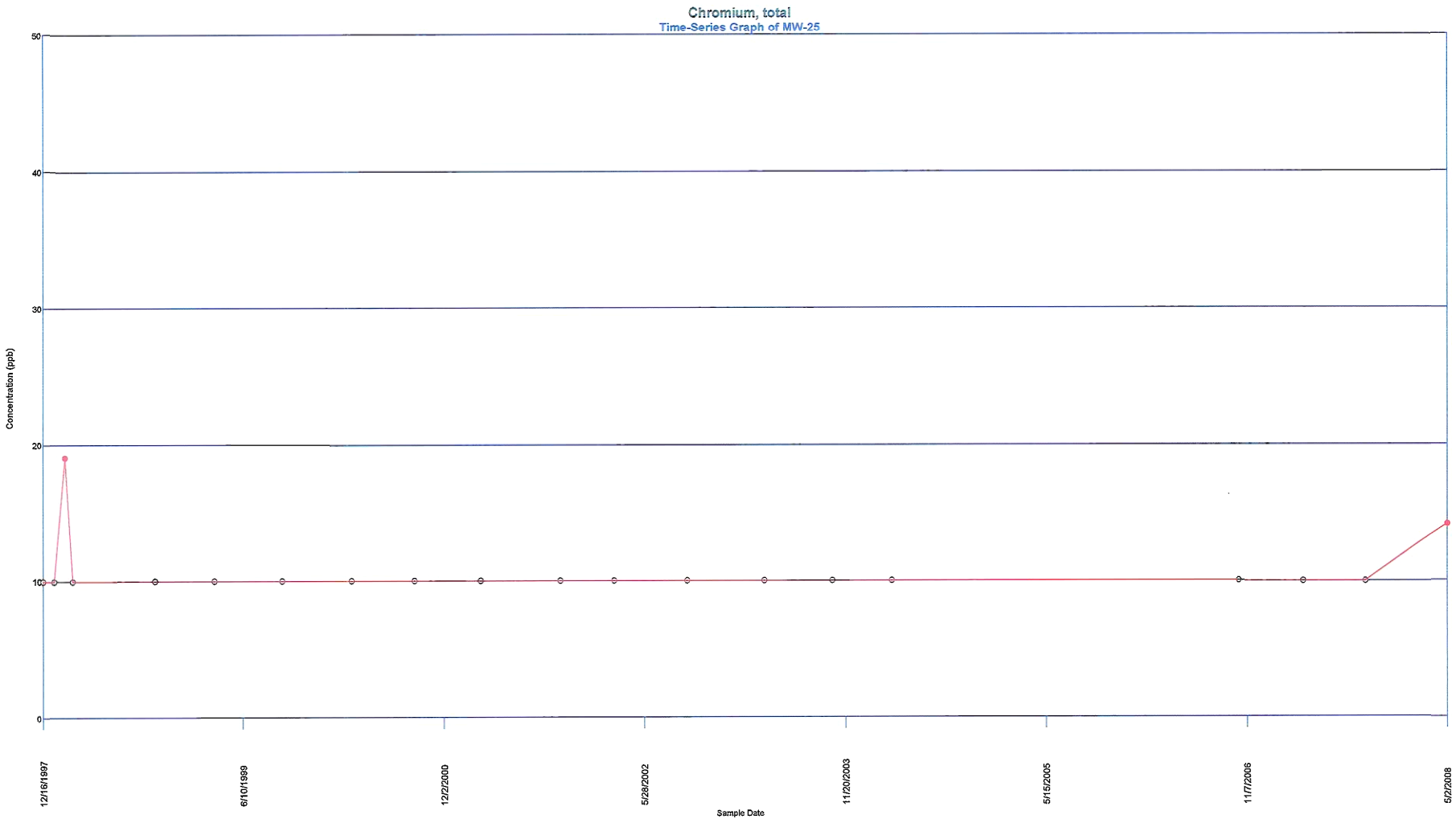
Barium, total

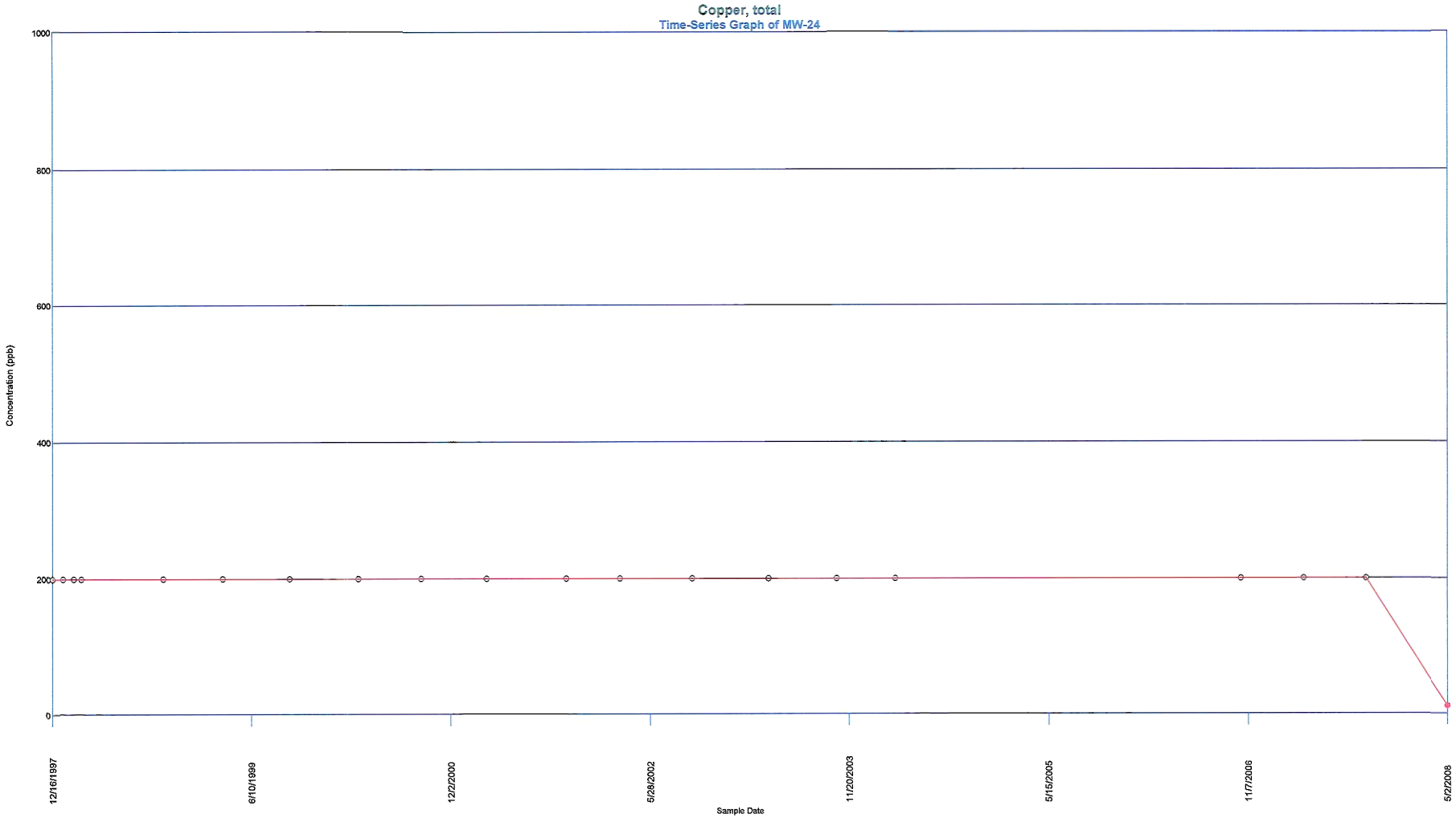
Time-Series Graph of MW-24

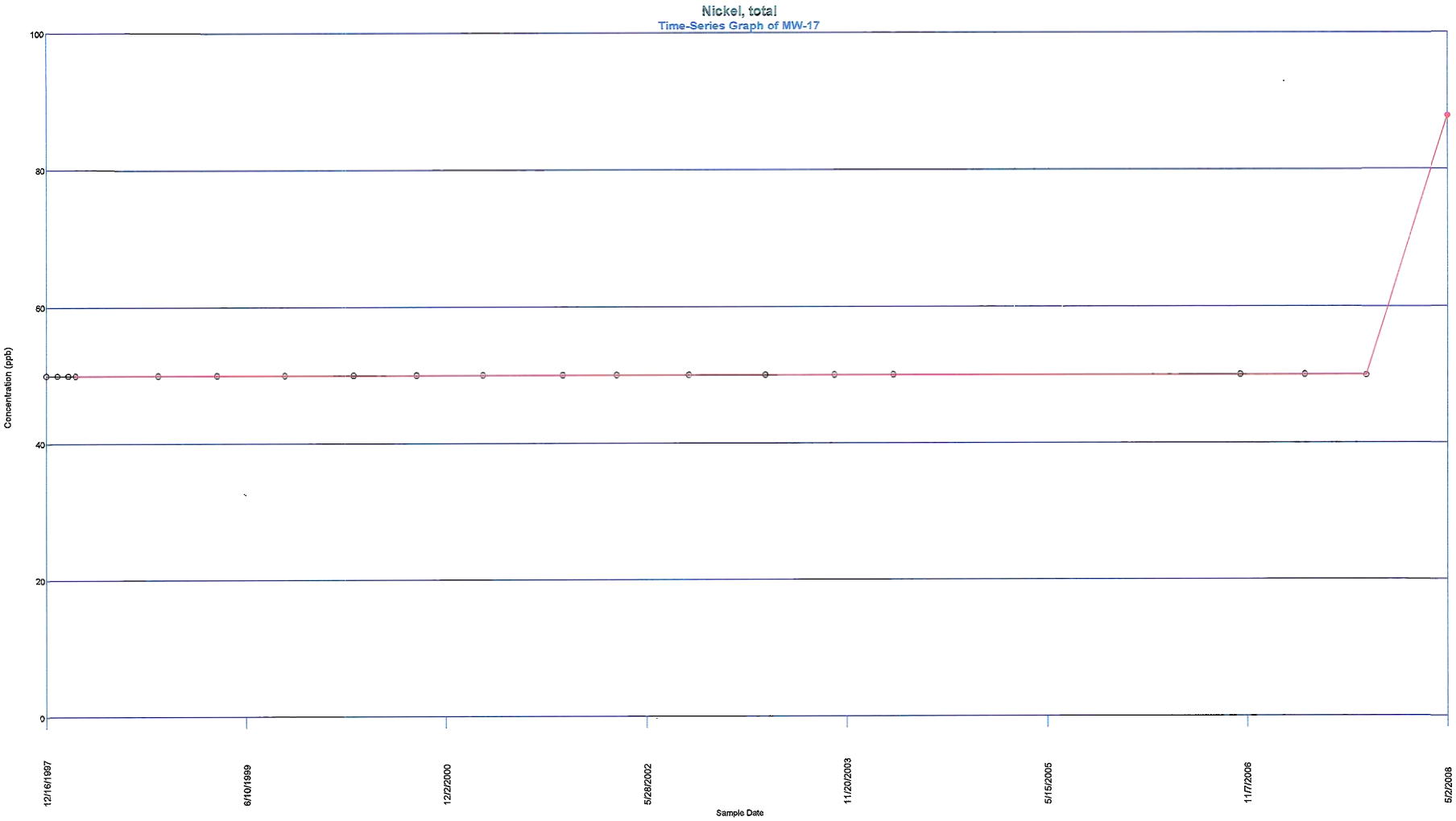


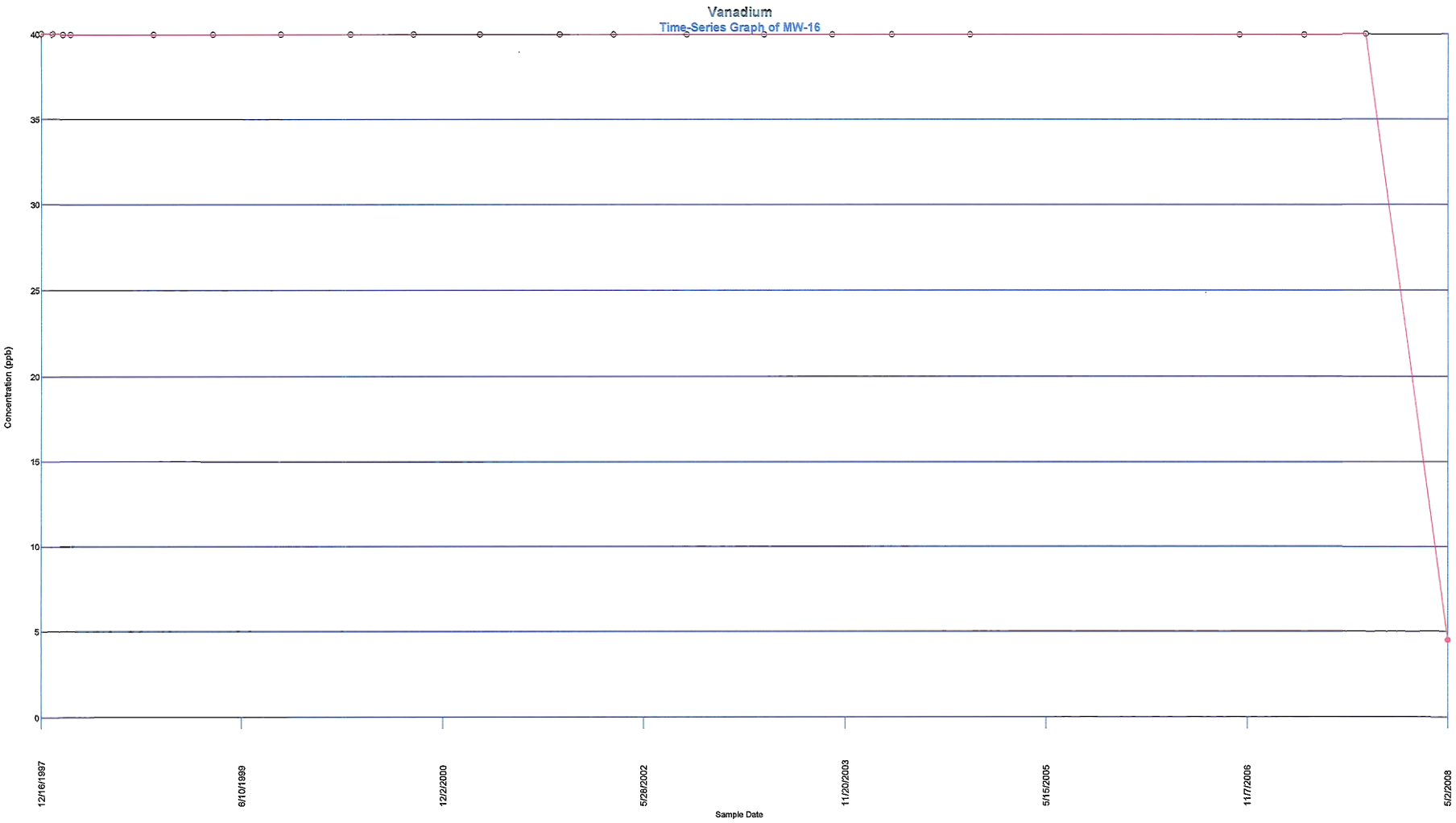

Chromium, total
Time-Series Graph of MW-17
Concentration (ppb)
200
150
100
50
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date

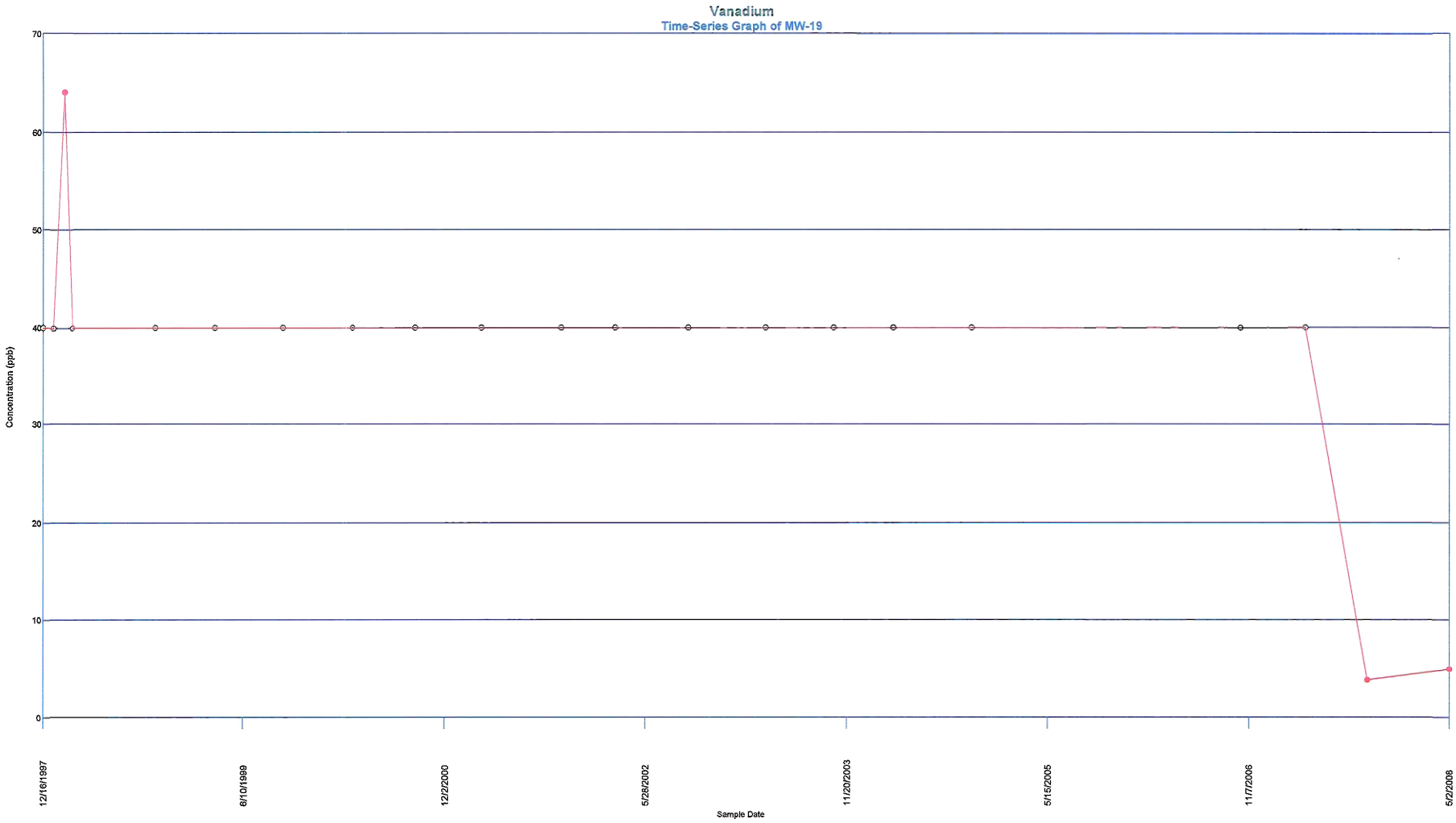

Chromium, total
Time-Series Graph of MW-18
Concentration (ppb)
50
40
30
20
10
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date

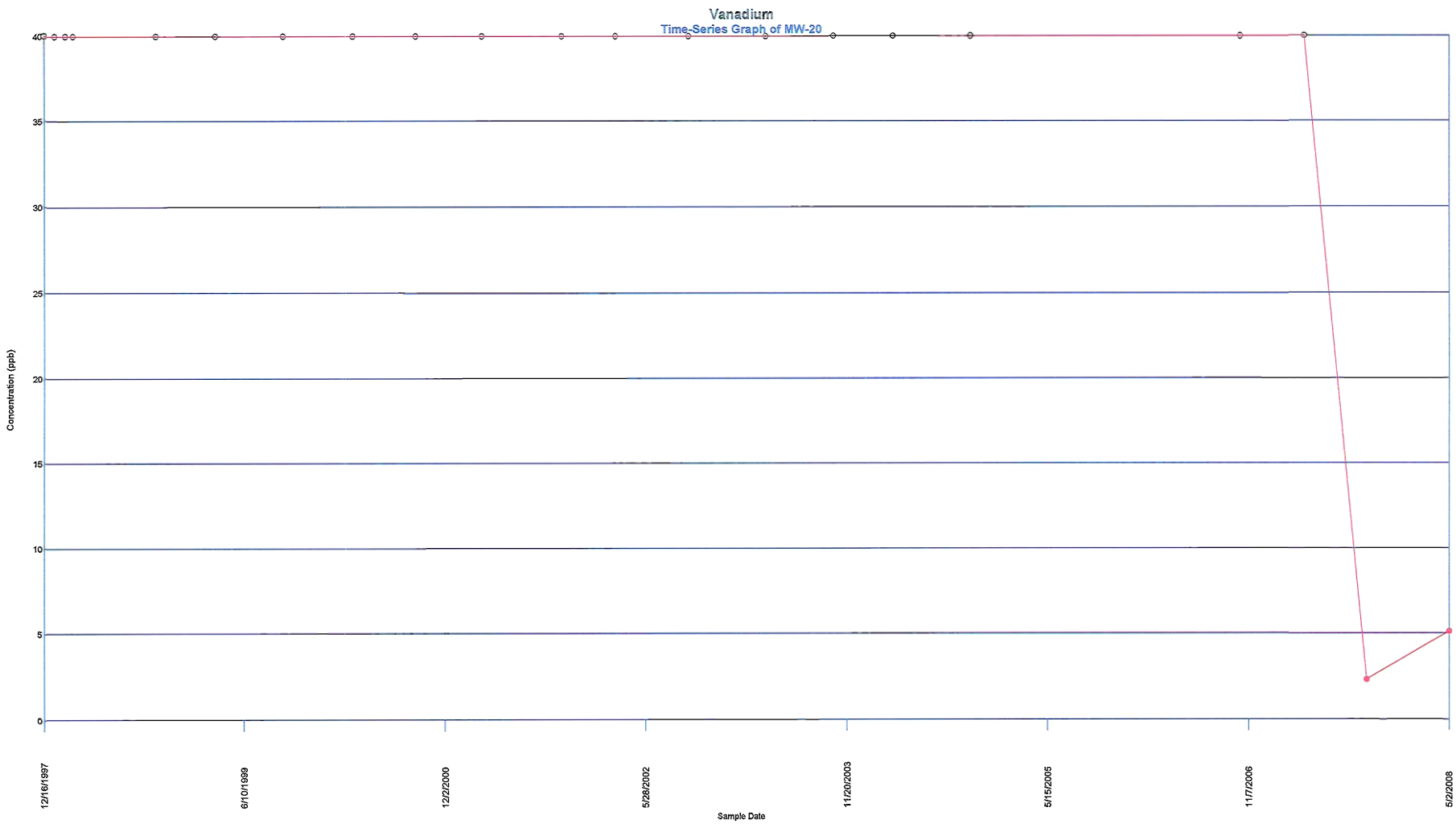

Chromium, total
Time-Series Graph of MW-25
Concentration (ppb)
50
40
30
20
10
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date

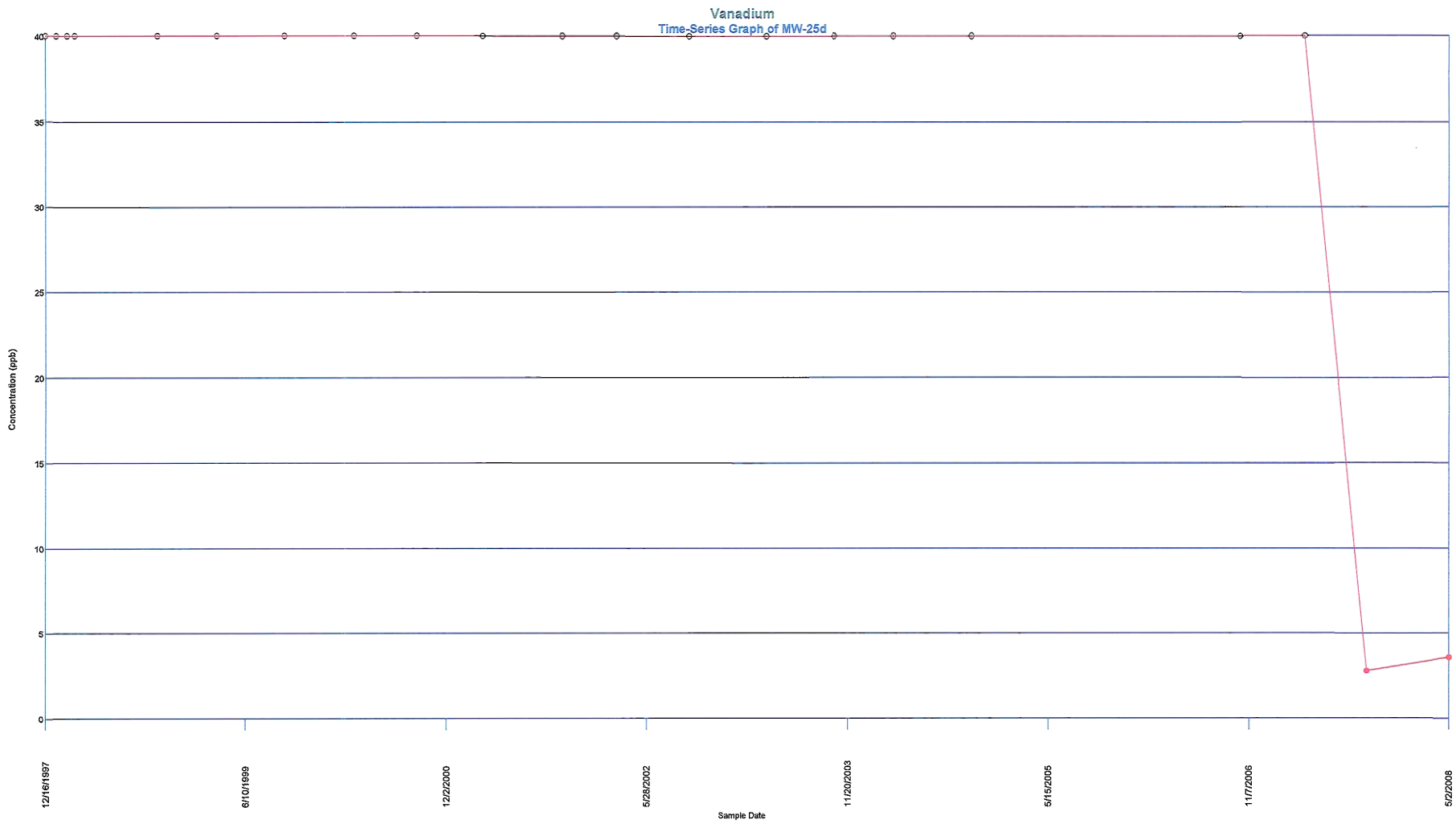

Copper, total
Time-Series Graph of MW-24
Concentration (ppb)
1000
800
600
400
200
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date

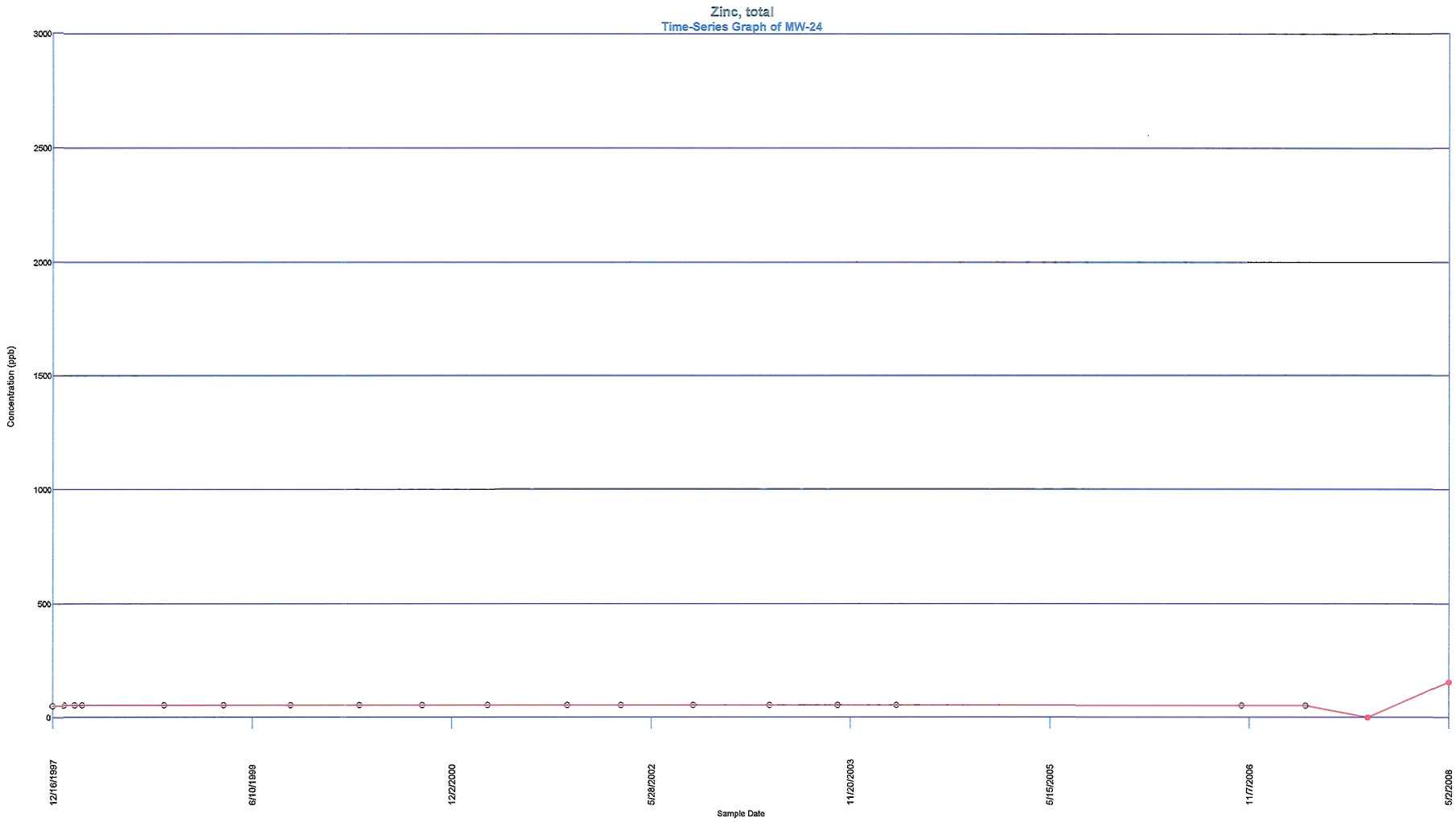

Nickel, total
Time-Series Graph of MW-17
Concentration (ppb)
100
80
60
40
20
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date


Vanadium
Time-Series Graph of MW-16
Concentration (ppb)
40
35
30
25
20
15
10
5
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date


Vanadium
Time-Series Graph of MW-19
Concentration (ppb)
70
60
50
40
30
20
10
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date


Vanadium
Time-Series Graph of MW-20
Concentration (ppb)
40
35
30
25
20
15
10
5
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date


Vanadium
Time-Series Graph of MW-25d
Concentration (ppb)
40
35
30
25
20
15
10
5
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date


Zinc, total
Time-Series Graph of MW-24
Concentration (ppb)
3000
2500
2000
1500
1000
500
0
12/16/1997
6/10/1999
12/2/2000
5/28/2002
11/20/2003
5/15/2005
11/7/2006
5/2/2008
Sample Date

APPENDIX E

Data Distribution Tests

Shapiro-Francia Test of Normality

Parameter: Barium, total
All Locations
Normality Test of Parameter Concentrations
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Number of Measurements = 240

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	13	-2.65209	7.03356	-34.4771
2	16.2	-2.40892	12.8365	-73.5017
3	17.2	-2.25713	17.9311	-112.324
4	19.6	-2.14441	22.5296	-154.355
5	23	-2.05375	26.7475	-201.591
6	29	-1.97737	30.6575	-258.935
7	29.9	-1.8957	34.2511	-315.616
8	30	-1.83843	37.6309	-370.769
9	30.3	-1.78661	40.8229	-424.903
10	30.7	-1.7392	43.8477	-478.296
11	31.7	-1.6954	46.7221	-532.041
12	39.2	-1.65463	49.4599	-596.902
13	50.3	-1.61644	52.0728	-678.209
14	52.7	-1.57179	54.5433	-761.042
15	55.4	-1.5382	56.9093	-846.258
16	60	-1.50626	59.1782	-936.634
17	66.6	-1.47579	61.3561	-1034.92
18	69	-1.44663	63.4489	-1134.74
19	80.4	-1.41865	65.4614	-1248.8
20	136	-1.39175	67.3984	-1438.08
21	148	-1.35946	69.2465	-1639.28
22	176	-1.33462	71.0278	-1874.17
23	208	-1.31058	72.7454	-2146.77
24	332	-1.28727	74.4024	-2574.15
25	382	-1.26464	76.0018	-3057.24
26	444	-1.24264	77.5459	-3608.97
27	500	-1.21596	79.0245	-4216.95
28	500	-1.19522	80.453	-4814.56
29	500	-1.17499	81.8336	-5402.06
30	500	-1.15522	83.1682	-5979.67
31	500	-1.1359	84.4584	-6547.61
32	500	-1.11699	85.7061	-7106.11
33	500	-1.09847	86.9127	-7655.34
34	500	-1.07584	88.0701	-8193.26
35	500	-1.05812	89.1898	-8722.32
36	500	-1.04073	90.2729	-9242.69
37	500	-1.02365	91.3208	-9754.51
38	500	-1.00687	92.3345	-10257.9
39	500	-0.990356	93.3153	-10753.1
40	500	-0.974114	94.2642	-11240.2
41	500	-0.954165	95.1747	-11717.3
42	500	-0.938476	96.0554	-12186.5
43	500	-0.923014	96.9074	-12648
44	500	-0.907769	97.7314	-13101.9
45	500	-0.892733	98.5284	-13548.3
46	500	-0.877897	99.2991	-13987.2
47	500	-0.859618	100.038	-14417
48	500	-0.845198	100.752	-14839.6
49	500	-0.830953	101.443	-15255.1
50	500	-0.816874	102.11	-15663.5
51	500	-0.802956	102.755	-16065
52	500	-0.789191	103.378	-16459.6
53	500	-0.775574	103.979	-16847.4
54	500	-0.758753	104.555	-17226.8
55	500	-0.745449	105.111	-17599.5
56	500	-0.732275	105.647	-17965.6
57	500	-0.719228	106.164	-18325.2
58	500	-0.706302	106.663	-18678.4
59	500	-0.693493	107.144	-19025.1
60	500	-0.680797	107.607	-19365.5
61	500	-0.665079	108.05	-19698.1
62	500	-0.652622	108.476	-20024.4
63	500	-0.640266	108.886	-20344.5
64	500	-0.628006	109.28	-20658.5
65	500	-0.615839	109.659	-20966.4
66	500	-0.603765	110.024	-21268.3
67	500	-0.588793	110.37	-21562.7
68	500	-0.576911	110.703	-21851.2
69	500	-0.565108	111.023	-22133.7
70	500	-0.553384	111.329	-22410.4

71	500	-0.541736	111.622	-22681.3
72	500	-0.530162	111.903	-22946.4
73	500	-0.518658	112.172	-23205.7
74	500	-0.504372	112.427	-23457.9
75	500	-0.493018	112.67	-23704.4
76	500	-0.481728	112.902	-23945.3
77	500	-0.470498	113.123	-24180.5
78	500	-0.459327	113.334	-24410.2
79	500	-0.448213	113.535	-24634.3
80	500	-0.437153	113.726	-24852.9
81	500	-0.423405	113.906	-25064.6
82	500	-0.412463	114.076	-25270.8
83	500	-0.401571	114.237	-25471.6
84	500	-0.390726	114.39	-25666.9
85	500	-0.379927	114.534	-25856.9
86	500	-0.369171	114.67	-26041.5
87	500	-0.358459	114.799	-26220.7
88	500	-0.345126	114.918	-26393.3
89	500	-0.334503	115.03	-26560.5
90	500	-0.323919	115.135	-26722.5
91	500	-0.31337	115.233	-26879.2
92	500	-0.302855	115.325	-27030.6
93	500	-0.292375	115.41	-27176.8
94	500	-0.279319	115.488	-27316.5
95	500	-0.268908	115.56	-27450.9
96	500	-0.258527	115.627	-27580.2
97	500	-0.248174	115.689	-27704.3
98	500	-0.237847	115.745	-27823.2
99	500	-0.227545	115.797	-27937
100	500	-0.217267	115.844	-28045.6
101	500	-0.204452	115.886	-28147.8
102	500	-0.194225	115.924	-28244.9
103	500	-0.184017	115.958	-28336.9
104	500	-0.173829	115.988	-28423.8
105	500	-0.163659	116.015	-28505.7
106	500	-0.153505	116.038	-28582.4
107	500	-0.143367	116.059	-28654.1
108	500	-0.130716	116.076	-28719.5
109	500	-0.12061	116.091	-28779.8
110	500	-0.110516	116.103	-28835
111	500	-0.100433	116.113	-28885.3
112	500	-0.0903606	116.121	-28930.4
113	500	-0.0802981	116.127	-28970.6
114	500	-0.0677301	116.132	-29004.4
115	500	-0.0576847	116.135	-29033.3
116	500	-0.0476439	116.138	-29057.1
117	500	-0.0376076	116.139	-29075.9
118	500	-0.0275759	116.14	-29089.7
119	500	-0.0175476	116.14	-29098.5
120	500	-0.00751925	116.14	-29102.2
121	500	0.00751925	116.14	-29098.5
122	500	0.0175476	116.141	-29089.7
123	500	0.0275759	116.141	-29075.9
124	500	0.0376076	116.143	-29057.1
125	500	0.0476439	116.145	-29033.3
126	500	0.0576847	116.148	-29004.4
127	500	0.0677301	116.153	-28970.6
128	500	0.0802981	116.159	-28930.4
129	500	0.0903606	116.167	-28885.3
130	500	0.100433	116.178	-28835
131	500	0.110516	116.19	-28779.8
132	500	0.12061	116.204	-28719.5
133	500	0.130716	116.221	-28654.1
134	500	0.143367	116.242	-28582.4
135	500	0.153505	116.266	-28505.7
136	500	0.163659	116.292	-28423.8
137	500	0.173829	116.323	-28336.9
138	500	0.184017	116.356	-28244.9
139	500	0.194225	116.394	-28147.8
140	500	0.204452	116.436	-28045.6
141	500	0.217267	116.483	-27937
142	500	0.227545	116.535	-27823.2
143	500	0.237847	116.591	-27704.3
144	500	0.248174	116.653	-27580.2
145	500	0.258527	116.72	-27450.9
146	500	0.268908	116.792	-27316.5
147	500	0.279319	116.87	-27176.8
148	500	0.292375	116.956	-27030.6
149	500	0.302855	117.047	-26879.2

150	500	0.31337	117.146	-26722.5
151	500	0.323919	117.251	-26560.5
152	500	0.334503	117.362	-26393.3
153	500	0.345126	117.482	-26220.7
154	500	0.358459	117.61	-26041.5
155	500	0.369171	117.746	-25856.9
156	500	0.379927	117.891	-25666.9
157	500	0.390726	118.043	-25471.6
158	500	0.401571	118.205	-25270.8
159	500	0.412463	118.375	-25064.6
160	500	0.423405	118.554	-24852.9
161	500	0.437153	118.745	-24634.3
162	500	0.448213	118.946	-24410.2
163	500	0.459327	119.157	-24180.5
164	500	0.470498	119.378	-23945.3
165	500	0.481728	119.61	-23704.4
166	500	0.493018	119.853	-23457.9
167	500	0.504372	120.108	-23205.7
168	500	0.518658	120.377	-22946.4
169	500	0.530162	120.658	-22681.3
170	500	0.541736	120.951	-22410.4
171	500	0.553384	121.258	-22133.7
172	500	0.565108	121.577	-21851.2
173	500	0.576911	121.91	-21562.7
174	500	0.588793	122.257	-21268.3
175	500	0.603765	122.621	-20966.4
176	500	0.615839	123	-20658.5
177	500	0.628006	123.395	-20344.5
178	500	0.640266	123.805	-20024.4
179	500	0.652622	124.231	-19698.1
180	500	0.665079	124.673	-19365.5
181	500	0.680797	125.136	-19025.1
182	500	0.693493	125.617	-18678.4
183	500	0.706302	126.116	-18325.2
184	500	0.719228	126.633	-17965.6
185	500	0.732275	127.17	-17599.5
186	500	0.745449	127.725	-17226.8
187	500	0.758753	128.301	-16847.4
188	500	0.775574	128.903	-16459.6
189	500	0.789191	129.525	-16065
190	500	0.802956	130.17	-15663.5
191	500	0.816874	130.837	-15255.1
192	500	0.830953	131.528	-14839.6
193	500	0.845198	132.242	-14417
194	500	0.859618	132.981	-13987.2
195	500	0.877897	133.752	-13548.3
196	500	0.892733	134.549	-13101.9
197	500	0.907769	135.373	-12648
198	500	0.923014	136.225	-12186.5
199	500	0.938476	137.106	-11717.3
200	500	0.954165	138.016	-11240.2
201	500	0.974114	138.965	-10753.1
202	500	0.990356	139.946	-10257.9
203	500	1.00687	140.96	-9754.51
204	500	1.02365	142.007	-9242.69
205	500	1.04073	143.091	-8722.32
206	500	1.05812	144.21	-8193.26
207	500	1.07584	145.368	-7655.34
208	500	1.09847	146.574	-7106.11
209	500	1.11699	147.822	-6547.61
210	500	1.1359	149.112	-5979.67
211	500	1.15522	150.447	-5402.06
212	500	1.17499	151.827	-4814.56
213	500	1.19522	153.256	-4216.95
214	500	1.21596	154.734	-3608.97
215	500	1.24264	156.279	-2987.65
216	500	1.26464	157.878	-2355.33
217	500	1.28727	159.535	-1711.69
218	500	1.31058	161.253	-1056.4
219	500	1.33462	163.034	-389.092
220	500	1.35946	164.882	290.639
221	500	1.39175	166.819	986.512
222	500	1.41865	168.831	1695.84
223	500	1.44663	170.924	2419.15
224	500	1.47579	173.102	3157.05
225	500	1.50626	175.371	3910.18
226	500	1.5382	177.737	4679.28
227	500	1.57179	180.208	5465.18
228	500	1.61644	182.82	6273.39

229	500	1.65463	185.558	7100.71
230	500	1.6954	188.433	7948.41
231	500	1.7392	191.457	8818
232	500	1.78661	194.649	9711.31
233	500	1.83843	198.029	10630.5
234	500	1.8957	201.623	11578.4
235	500	1.97737	205.533	12567.1
236	500	2.05375	209.751	13593.9
237	500	2.14441	214.349	14666.1
238	500	2.25713	219.444	15794.7
239	500	2.40892	225.247	16999.2
240	500	2.65209	232.28	18325.2

Data Set Standard Deviation = 130.669
Numerator = 3.35813e+008
Denominator = 9.47886e+008
W Statistic = 0.354276 = 3.35813e+008 / 9.47886e+008

5% Critical value of 0.976 exceeds 0.354276
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.354276
Evidence of non-normality at 99% level of significance

Shapiro-Francia Test of Normality
Parameter: Chromium, total
All Locations
Normality Test of Parameter Concentrations
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Number of Measurements = 240

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	2.1	-2.65209	7.03356	-5.56938
2	2.4	-2.40892	12.8365	-11.3508
3	3.2	-2.25713	17.9311	-18.5736
4	5.2	-2.14441	22.5296	-29.7245
5	10	-2.05375	26.7475	-50.262
6	10	-1.97737	30.6575	-70.0357
7	10	-1.8957	34.2511	-88.9927
8	10	-1.83843	37.6309	-107.377
9	10	-1.78661	40.8229	-125.243
10	10	-1.7392	43.8477	-142.635
11	10	-1.6954	46.7221	-159.589
12	10	-1.65463	49.4599	-176.135
13	10	-1.61644	52.0728	-192.3
14	10	-1.57179	54.5433	-208.018
15	10	-1.5382	56.9093	-223.4
16	10	-1.50626	59.1782	-238.462
17	10	-1.47579	61.3561	-253.22
18	10	-1.44663	63.4489	-267.686
19	10	-1.41865	65.4614	-281.873
20	10	-1.39175	67.3984	-295.79
21	10	-1.35946	69.2465	-309.385
22	10	-1.33462	71.0278	-322.731
23	10	-1.31058	72.7454	-335.837
24	10	-1.28727	74.4024	-348.71
25	10	-1.26464	76.0018	-361.356
26	10	-1.24264	77.5459	-373.783
27	10	-1.21596	79.0245	-385.942
28	10	-1.19522	80.453	-397.894
29	10	-1.17499	81.8336	-409.644
30	10	-1.15522	83.1682	-421.196
31	10	-1.1359	84.4584	-432.555
32	10	-1.11699	85.7061	-443.725
33	10	-1.09847	86.9127	-454.71
34	10	-1.07584	88.0701	-465.468
35	10	-1.05812	89.1898	-476.05
36	10	-1.04073	90.2729	-486.457
37	10	-1.02365	91.3208	-496.693
38	10	-1.00687	92.3345	-506.762
39	10	-0.990356	93.3153	-516.666
40	10	-0.974114	94.2642	-526.407
41	10	-0.954165	95.1747	-535.948
42	10	-0.938476	96.0554	-545.333
43	10	-0.923014	96.9074	-554.563
44	10	-0.907769	97.7314	-563.641
45	10	-0.892733	98.5284	-572.568
46	10	-0.877897	99.2991	-581.347
47	10	-0.859618	100.038	-589.943
48	10	-0.845198	100.752	-598.395
49	10	-0.830953	101.443	-606.705
50	10	-0.816874	102.11	-614.874
51	10	-0.802956	102.755	-622.903
52	10	-0.789191	103.378	-630.795
53	10	-0.775574	103.979	-638.551
54	10	-0.758753	104.555	-646.138
55	10	-0.745449	105.111	-653.593
56	10	-0.732275	105.647	-660.916
57	10	-0.719228	106.164	-668.108
58	10	-0.706302	106.663	-675.171
59	10	-0.693493	107.144	-682.106
60	10	-0.680797	107.607	-688.914
61	10	-0.665079	108.05	-695.565
62	10	-0.652622	108.476	-702.091
63	10	-0.640266	108.886	-708.494
64	10	-0.628006	109.28	-714.774
65	10	-0.615839	109.659	-720.932
66	10	-0.603765	110.024	-726.97
67	10	-0.588793	110.37	-732.858
68	10	-0.576911	110.703	-738.627
69	10	-0.565108	111.023	-744.278
70	10	-0.553384	111.329	-749.812

71	10	-0.541736	111.622	-755.229
72	10	-0.530162	111.903	-760.531
73	10	-0.518658	112.172	-765.717
74	10	-0.504372	112.427	-770.761
75	10	-0.493018	112.67	-775.691
76	10	-0.481728	112.902	-780.508
77	10	-0.470498	113.123	-785.213
78	10	-0.459327	113.334	-789.807
79	10	-0.448213	113.535	-794.289
80	10	-0.437153	113.726	-798.66
81	10	-0.423405	113.906	-802.894
82	10	-0.412463	114.076	-807.019
83	10	-0.401571	114.237	-811.035
84	10	-0.390726	114.39	-814.942
85	10	-0.379927	114.534	-818.741
86	10	-0.369171	114.67	-822.433
87	10	-0.358459	114.799	-826.017
88	10	-0.345126	114.918	-829.469
89	10	-0.334503	115.03	-832.814
90	10	-0.323919	115.135	-836.053
91	10	-0.31337	115.233	-839.187
92	10	-0.302855	115.325	-842.215
93	10	-0.292375	115.41	-845.139
94	10	-0.279319	115.488	-847.932
95	10	-0.268908	115.56	-850.621
96	10	-0.258527	115.627	-853.207
97	10	-0.248174	115.689	-855.688
98	10	-0.237847	115.745	-858.067
99	10	-0.227545	115.797	-860.342
100	10	-0.217267	115.844	-862.515
101	10	-0.204452	115.886	-864.559
102	10	-0.194225	115.924	-866.502
103	10	-0.184017	115.958	-868.342
104	10	-0.173829	115.988	-870.08
105	10	-0.163659	116.015	-871.717
106	10	-0.153505	116.038	-873.252
107	10	-0.143367	116.059	-874.685
108	10	-0.130716	116.076	-875.993
109	10	-0.12061	116.091	-877.199
110	10	-0.110516	116.103	-878.304
111	10	-0.100433	116.113	-879.308
112	10	-0.0903606	116.121	-880.212
113	10	-0.0802981	116.127	-881.015
114	10	-0.0677301	116.132	-881.692
115	10	-0.0576847	116.135	-882.269
116	10	-0.0476439	116.138	-882.745
117	10	-0.0376076	116.139	-883.121
118	10	-0.0275759	116.14	-883.397
119	10	-0.0175476	116.14	-883.573
120	10	-0.00751925	116.14	-883.648
121	10	0.00751925	116.14	-883.573
122	10	0.0175476	116.141	-883.397
123	10	0.0275759	116.141	-883.121
124	10	0.0376076	116.143	-882.745
125	10	0.0476439	116.145	-882.269
126	10	0.0576847	116.148	-881.692
127	10	0.0677301	116.153	-881.015
128	10	0.0802981	116.159	-880.212
129	10	0.0903606	116.167	-879.308
130	10	0.100433	116.178	-878.304
131	10	0.110516	116.19	-877.199
132	10	0.12061	116.204	-875.993
133	10	0.130716	116.221	-874.685
134	10	0.143367	116.242	-873.252
135	10	0.153505	116.266	-871.717
136	10	0.163659	116.292	-870.08
137	10	0.173829	116.323	-868.342
138	10	0.184017	116.356	-866.502
139	10	0.194225	116.394	-864.559
140	10	0.204452	116.436	-862.515
141	10	0.217267	116.483	-860.342
142	10	0.227545	116.535	-858.067
143	10	0.237847	116.591	-855.688
144	10	0.248174	116.653	-853.207
145	10	0.258527	116.72	-850.621
146	10	0.268908	116.792	-847.932
147	10	0.279319	116.87	-845.139
148	10	0.292375	116.956	-842.215
149	10	0.302855	117.047	-839.187

150	10	0.31337	117.146	-836.053
151	10	0.323919	117.251	-832.814
152	10	0.334503	117.362	-829.469
153	10	0.345126	117.482	-826.017
154	10	0.358459	117.61	-822.433
155	10	0.369171	117.746	-818.741
156	10	0.379927	117.891	-814.942
157	10	0.390726	118.043	-811.035
158	10	0.401571	118.205	-807.019
159	10	0.412463	118.375	-802.894
160	10	0.423405	118.554	-798.66
161	10	0.437153	118.745	-794.289
162	10	0.448213	118.946	-789.807
163	10	0.459327	119.157	-785.213
164	10	0.470498	119.378	-780.508
165	10	0.481728	119.61	-775.691
166	10	0.493018	119.853	-770.761
167	10	0.504372	120.108	-765.717
168	10	0.518658	120.377	-760.531
169	10	0.530162	120.658	-755.229
170	10	0.541736	120.951	-749.812
171	10	0.553384	121.258	-744.278
172	10	0.565108	121.577	-738.627
173	10	0.576911	121.91	-732.858
174	10	0.588793	122.257	-726.97
175	10	0.603765	122.621	-720.932
176	10	0.615839	123	-714.774
177	10	0.628006	123.395	-708.494
178	10	0.640266	123.805	-702.091
179	10	0.652622	124.231	-695.565
180	10	0.665079	124.673	-688.914
181	10	0.680797	125.136	-682.106
182	10	0.693493	125.617	-675.171
183	10	0.706302	126.116	-668.108
184	10	0.719228	126.633	-660.916
185	10	0.732275	127.17	-653.593
186	10	0.745449	127.725	-646.138
187	10	0.758753	128.301	-638.551
188	10	0.775574	128.903	-630.795
189	10	0.789191	129.525	-622.903
190	10	0.802956	130.17	-614.874
191	10	0.816874	130.837	-606.705
192	10	0.830953	131.528	-598.395
193	10	0.845198	132.242	-589.943
194	10	0.859618	132.981	-581.347
195	10	0.877897	133.752	-572.568
196	10	0.892733	134.549	-563.641
197	10	0.907769	135.373	-554.563
198	10	0.923014	136.225	-545.333
199	10	0.938476	137.106	-535.948
200	10	0.954165	138.016	-526.407
201	10	0.974114	138.965	-516.666
202	10	0.990356	139.946	-506.762
203	10	1.00687	140.96	-496.693
204	10	1.02365	142.007	-486.457
205	10	1.04073	143.091	-476.05
206	10	1.05812	144.21	-465.468
207	10	1.07584	145.368	-454.71
208	10	1.09847	146.574	-443.725
209	10	1.11699	147.822	-432.555
210	10	1.1359	149.112	-421.196
211	10	1.15522	150.447	-409.644
212	10	1.17499	151.827	-397.894
213	10	1.19522	153.256	-385.942
214	10	1.21596	154.734	-373.783
215	10	1.24264	156.279	-361.356
216	10	1.26464	157.878	-348.71
217	10	1.28727	159.535	-335.837
218	10	1.31058	161.253	-322.731
219	10	1.33462	163.034	-309.385
220	10	1.35946	164.882	-295.79
221	10	1.39175	166.819	-281.873
222	10	1.41865	168.831	-267.686
223	10	1.44663	170.924	-253.22
224	10	1.47579	173.102	-238.462
225	10	1.50626	175.371	-223.4
226	10	1.5382	177.737	-208.018
227	10	1.57179	180.208	-192.3
228	10	1.61644	182.82	-176.135

229	10	1.65463	185.558	-159.589
230	10	1.6954	188.433	-142.635
231	10	1.7392	191.457	-125.243
232	10	1.78661	194.649	-107.377
233	11	1.83843	198.029	-87.1542
234	11.1	1.8957	201.623	-66.112
235	12	1.97737	205.533	-42.3836
236	14.1	2.05375	209.751	-13.4257
237	15	2.14441	214.349	18.7404
238	19	2.25713	219.444	61.6258
239	30.3	2.40892	225.247	134.616
240	112	2.65209	232.28	431.65

Data Set Standard Deviation = 6.80792
Numerator = 186322
Denominator = 2.573e+006
W Statistic = 0.0724142 = 186322 / 2.573e+006

5% Critical value of 0.976 exceeds 0.0724142
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.0724142
Evidence of non-normality at 99% level of significance

Shapiro-Francia Test of Normality

Parameter: Copper, total
All Locations
Normality Test of Parameter Concentrations
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Number of Measurements = 240

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	0.6	-2.65209	7.03356	-1.59125
2	0.8	-2.40892	12.8365	-3.51839
3	1	-2.25713	17.9311	-5.77552
4	1.8	-2.14441	22.5296	-9.63545
5	1.9	-2.05375	26.7475	-13.5376
6	2.2	-1.97737	30.6575	-17.8878
7	2.9	-1.8957	34.2511	-23.3853
8	4.1	-1.83843	37.6309	-30.9228
9	4.7	-1.78661	40.8229	-39.3199
10	4.9	-1.7392	43.8477	-47.842
11	11.1	-1.6954	46.7221	-66.6609
12	19	-1.65463	49.4599	-98.0988
13	200	-1.61644	52.0728	-421.386
14	200	-1.57179	54.5433	-735.744
15	200	-1.5382	56.9093	-1043.38
16	200	-1.50626	59.1782	-1344.64
17	200	-1.47579	61.3561	-1639.79
18	200	-1.44663	63.4489	-1929.12
19	200	-1.41865	65.4614	-2212.85
20	200	-1.39175	67.3984	-2491.2
21	200	-1.35946	69.2465	-2763.09
22	200	-1.33462	71.0278	-3030.02
23	200	-1.31058	72.7454	-3292.13
24	200	-1.28727	74.4024	-3549.59
25	200	-1.26464	76.0018	-3802.52
26	200	-1.24264	77.5459	-4051.04
27	200	-1.21596	79.0245	-4294.24
28	200	-1.19522	80.453	-4533.28
29	200	-1.17499	81.8336	-4768.28
30	200	-1.15522	83.1682	-4999.32
31	200	-1.1359	84.4584	-5226.5
32	200	-1.11699	85.7061	-5449.9
33	200	-1.09847	86.9127	-5669.59
34	200	-1.07584	88.0701	-5884.76
35	200	-1.05812	89.1898	-6096.39
36	200	-1.04073	90.2729	-6304.53
37	200	-1.02365	91.3208	-6509.26
38	200	-1.00687	92.3345	-6710.64
39	200	-0.990356	93.3153	-6908.71
40	200	-0.974114	94.2642	-7103.53
41	200	-0.954165	95.1747	-7294.36
42	200	-0.938476	96.0554	-7482.06
43	200	-0.923014	96.9074	-7666.66
44	200	-0.907769	97.7314	-7848.21
45	200	-0.892733	98.5284	-8026.76
46	200	-0.877897	99.2991	-8202.34
47	200	-0.859618	100.038	-8374.26
48	200	-0.845198	100.752	-8543.3
49	200	-0.830953	101.443	-8709.49
50	200	-0.816874	102.11	-8872.87
51	200	-0.802956	102.755	-9033.46
52	200	-0.789191	103.378	-9191.3
53	200	-0.775574	103.979	-9346.41
54	200	-0.758753	104.555	-9498.16
55	200	-0.745449	105.111	-9647.25
56	200	-0.732275	105.647	-9793.71
57	200	-0.719228	106.164	-9937.55
58	200	-0.706302	106.663	-10078.8
59	200	-0.693493	107.144	-10217.5
60	200	-0.680797	107.607	-10353.7
61	200	-0.665079	108.05	-10486.7
62	200	-0.652622	108.476	-10617.2
63	200	-0.640266	108.886	-10745.3
64	200	-0.628006	109.28	-10870.9
65	200	-0.615839	109.659	-10994
66	200	-0.603765	110.024	-11114.8
67	200	-0.588793	110.37	-11232.5
68	200	-0.576911	110.703	-11347.9
69	200	-0.565108	111.023	-11460.9
70	200	-0.553384	111.329	-11571.6

71	200	-0.541736	111.622	-11680
72	200	-0.530162	111.903	-11786
73	200	-0.518658	112.172	-11889.7
74	200	-0.504372	112.427	-11990.6
75	200	-0.493018	112.67	-12089.2
76	200	-0.481728	112.902	-12185.6
77	200	-0.470498	113.123	-12279.7
78	200	-0.459327	113.334	-12371.5
79	200	-0.448213	113.535	-12461.2
80	200	-0.437153	113.726	-12548.6
81	200	-0.423405	113.906	-12633.3
82	200	-0.412463	114.076	-12715.8
83	200	-0.401571	114.237	-12796.1
84	200	-0.390726	114.39	-12874.2
85	200	-0.379927	114.534	-12950.2
86	200	-0.369171	114.67	-13024.1
87	200	-0.358459	114.799	-13095.7
88	200	-0.345126	114.918	-13164.8
89	200	-0.334503	115.03	-13231.7
90	200	-0.323919	115.135	-13296.5
91	200	-0.31337	115.233	-13359.1
92	200	-0.302855	115.325	-13419.7
93	200	-0.292375	115.41	-13478.2
94	200	-0.279319	115.488	-13534
95	200	-0.268908	115.56	-13587.8
96	200	-0.258527	115.627	-13639.5
97	200	-0.248174	115.689	-13689.2
98	200	-0.237847	115.745	-13736.7
99	200	-0.227545	115.797	-13782.2
100	200	-0.217267	115.844	-13825.7
101	200	-0.204452	115.886	-13866.6
102	200	-0.194225	115.924	-13905.4
103	200	-0.184017	115.958	-13942.2
104	200	-0.173829	115.988	-13977
105	200	-0.163659	116.015	-14009.7
106	200	-0.153505	116.038	-14040.4
107	200	-0.143367	116.059	-14069.1
108	200	-0.130716	116.076	-14095.2
109	200	-0.12061	116.091	-14119.4
110	200	-0.110516	116.103	-14141.5
111	200	-0.100433	116.113	-14161.6
112	200	-0.0903606	116.121	-14179.6
113	200	-0.0802981	116.127	-14195.7
114	200	-0.0677301	116.132	-14209.2
115	200	-0.0576847	116.135	-14220.8
116	200	-0.0476439	116.138	-14230.3
117	200	-0.0376076	116.139	-14237.8
118	200	-0.0275759	116.14	-14243.3
119	200	-0.0175476	116.14	-14246.8
120	200	-0.00751925	116.14	-14248.3
121	200	0.00751925	116.14	-14246.8
122	200	0.0175476	116.141	-14243.3
123	200	0.0275759	116.141	-14237.8
124	200	0.0376076	116.143	-14230.3
125	200	0.0476439	116.145	-14220.8
126	200	0.0576847	116.148	-14209.2
127	200	0.0677301	116.153	-14195.7
128	200	0.0802981	116.159	-14179.6
129	200	0.0903606	116.167	-14161.6
130	200	0.100433	116.178	-14141.5
131	200	0.110516	116.19	-14119.4
132	200	0.12061	116.204	-14095.2
133	200	0.130716	116.221	-14069.1
134	200	0.143367	116.242	-14040.4
135	200	0.153505	116.266	-14009.7
136	200	0.163659	116.292	-13977
137	200	0.173829	116.323	-13942.2
138	200	0.184017	116.356	-13905.4
139	200	0.194225	116.394	-13866.6
140	200	0.204452	116.436	-13825.7
141	200	0.217267	116.483	-13782.2
142	200	0.227545	116.535	-13736.7
143	200	0.237847	116.591	-13689.2
144	200	0.248174	116.653	-13639.5
145	200	0.258527	116.72	-13587.8
146	200	0.268908	116.792	-13534
147	200	0.279319	116.87	-13478.2
148	200	0.292375	116.956	-13419.7
149	200	0.302855	117.047	-13359.1

150	200	0.31337	117.146	-13296.5
151	200	0.323919	117.251	-13231.7
152	200	0.334503	117.362	-13164.8
153	200	0.345126	117.482	-13095.7
154	200	0.358459	117.61	-13024.1
155	200	0.369171	117.746	-12950.2
156	200	0.379927	117.891	-12874.2
157	200	0.390726	118.043	-12796.1
158	200	0.401571	118.205	-12715.8
159	200	0.412463	118.375	-12633.3
160	200	0.423405	118.554	-12548.6
161	200	0.437153	118.745	-12461.2
162	200	0.448213	118.946	-12371.5
163	200	0.459327	119.157	-12279.7
164	200	0.470498	119.378	-12185.6
165	200	0.481728	119.61	-12089.2
166	200	0.493018	119.853	-11990.6
167	200	0.504372	120.108	-11889.7
168	200	0.518658	120.377	-11786
169	200	0.530162	120.658	-11680
170	200	0.541736	120.951	-11571.6
171	200	0.553384	121.258	-11460.9
172	200	0.565108	121.577	-11347.9
173	200	0.576911	121.91	-11232.5
174	200	0.588793	122.257	-11114.8
175	200	0.603765	122.621	-10994
176	200	0.615839	123	-10870.9
177	200	0.628006	123.395	-10745.3
178	200	0.640266	123.805	-10617.2
179	200	0.652622	124.231	-10486.7
180	200	0.665079	124.673	-10353.7
181	200	0.680797	125.136	-10217.5
182	200	0.693493	125.617	-10078.8
183	200	0.706302	126.116	-9937.55
184	200	0.719228	126.633	-9793.71
185	200	0.732275	127.17	-9647.25
186	200	0.745449	127.725	-9498.16
187	200	0.758753	128.301	-9346.41
188	200	0.775574	128.903	-9191.3
189	200	0.789191	129.525	-9033.46
190	200	0.802956	130.17	-8872.87
191	200	0.816874	130.837	-8709.49
192	200	0.830953	131.528	-8543.3
193	200	0.845198	132.242	-8374.26
194	200	0.859618	132.981	-8202.34
195	200	0.877897	133.752	-8026.76
196	200	0.892733	134.549	-7848.21
197	200	0.907769	135.373	-7666.66
198	200	0.923014	136.225	-7482.06
199	200	0.938476	137.106	-7294.36
200	200	0.954165	138.016	-7103.53
201	200	0.974114	138.965	-6908.71
202	200	0.990356	139.946	-6710.64
203	200	1.00687	140.96	-6509.26
204	200	1.02365	142.007	-6304.53
205	200	1.04073	143.091	-6096.39
206	200	1.05812	144.21	-5884.76
207	200	1.07584	145.368	-5669.59
208	200	1.09847	146.574	-5449.9
209	200	1.11699	147.822	-5226.5
210	200	1.1359	149.112	-4999.32
211	200	1.15522	150.447	-4768.28
212	200	1.17499	151.827	-4533.28
213	200	1.19522	153.256	-4294.24
214	200	1.21596	154.734	-4051.04
215	200	1.24264	156.279	-3802.52
216	200	1.26464	157.878	-3549.59
217	200	1.28727	159.535	-3292.13
218	200	1.31058	161.253	-3030.02
219	200	1.33462	163.034	-2763.09
220	200	1.35946	164.882	-2491.2
221	200	1.39175	166.819	-2212.85
222	200	1.41865	168.831	-1929.12
223	200	1.44663	170.924	-1639.79
224	200	1.47579	173.102	-1344.64
225	200	1.50626	175.371	-1043.38
226	200	1.5382	177.737	-735.744
227	200	1.57179	180.208	-421.386
228	200	1.61644	182.82	-98.0988

229	200	1.65463	185.558	232.826
230	200	1.6954	188.433	571.906
231	200	1.7392	191.457	919.746
232	200	1.78661	194.649	1277.07
233	200	1.83843	198.029	1644.75
234	200	1.8957	201.623	2023.89
235	200	1.97737	205.533	2419.37
236	200	2.05375	209.751	2830.12
237	200	2.14441	214.349	3259
238	200	2.25713	219.444	3710.42
239	200	2.40892	225.247	4192.21
240	200	2.65209	232.28	4722.63

Data Set Standard Deviation = 42.6946
Numerator = 2.23032e+007
Denominator = 1.01194e+008
W Statistic = 0.220399 = 2.23032e+007 / 1.01194e+008

5% Critical value of 0.976 exceeds 0.220399
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.220399
Evidence of non-normality at 99% level of significance

Shapiro-Francia Test of Normality

Parameter: Nickel, total
All Locations
Normality Test of Parameter Concentrations
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Number of Measurements = 240

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	3	-2.65209	7.03356	-7.95626
2	4.5	-2.40892	12.8365	-18.7964
3	4.9	-2.25713	17.9311	-29.8564
4	5.6	-2.14441	22.5296	-41.865
5	5.6	-2.05375	26.7475	-53.366
6	6	-1.97737	30.6575	-65.2302
7	9.4	-1.8957	34.2511	-83.0498
8	9.6	-1.83843	37.6309	-100.699
9	14.8	-1.78661	40.8229	-127.141
10	25.4	-1.7392	43.8477	-171.316
11	50	-1.6954	46.7221	-256.086
12	50	-1.65463	49.4599	-338.817
13	50	-1.61644	52.0728	-419.639
14	50	-1.57179	54.5433	-498.229
15	50	-1.5382	56.9093	-575.139
16	50	-1.50626	59.1782	-650.452
17	50	-1.47579	61.3561	-724.241
18	50	-1.44663	63.4489	-796.573
19	50	-1.41865	65.4614	-867.505
20	50	-1.39175	67.3984	-937.093
21	50	-1.35946	69.2465	-1005.07
22	50	-1.33462	71.0278	-1071.8
23	50	-1.31058	72.7454	-1137.33
24	50	-1.28727	74.4024	-1201.69
25	50	-1.26464	76.0018	-1264.92
26	50	-1.24264	77.5459	-1327.05
27	50	-1.21596	79.0245	-1387.85
28	50	-1.19522	80.453	-1447.61
29	50	-1.17499	81.8336	-1506.36
30	50	-1.15522	83.1682	-1564.12
31	50	-1.1359	84.4584	-1620.92
32	50	-1.11699	85.7061	-1676.77
33	50	-1.09847	86.9127	-1731.69
34	50	-1.07584	88.0701	-1785.48
35	50	-1.05812	89.1898	-1838.39
36	50	-1.04073	90.2729	-1890.43
37	50	-1.02365	91.3208	-1941.61
38	50	-1.00687	92.3345	-1991.95
39	50	-0.990356	93.3153	-2041.47
40	50	-0.974114	94.2642	-2090.17
41	50	-0.954165	95.1747	-2137.88
42	50	-0.938476	96.0554	-2184.81
43	50	-0.923014	96.9074	-2230.96
44	50	-0.907769	97.7314	-2276.35
45	50	-0.892733	98.5284	-2320.98
46	50	-0.877897	99.2991	-2364.88
47	50	-0.859618	100.038	-2407.86
48	50	-0.845198	100.752	-2450.12
49	50	-0.830953	101.443	-2491.67
50	50	-0.816874	102.11	-2532.51
51	50	-0.802956	102.755	-2572.66
52	50	-0.789191	103.378	-2612.12
53	50	-0.775574	103.979	-2650.9
54	50	-0.758753	104.555	-2688.83
55	50	-0.745449	105.111	-2726.11
56	50	-0.732275	105.647	-2762.72
57	50	-0.719228	106.164	-2798.68
58	50	-0.706302	106.663	-2834
59	50	-0.693493	107.144	-2868.67
60	50	-0.680797	107.607	-2902.71
61	50	-0.665079	108.05	-2935.96
62	50	-0.652622	108.476	-2968.6
63	50	-0.640266	108.886	-3000.61
64	50	-0.628006	109.28	-3032.01
65	50	-0.615839	109.659	-3062.8
66	50	-0.603765	110.024	-3092.99
67	50	-0.588793	110.37	-3122.43
68	50	-0.576911	110.703	-3151.27
69	50	-0.565108	111.023	-3179.53
70	50	-0.553384	111.329	-3207.2

71	50	-0.541736	111.622	-3234.29
72	50	-0.530162	111.903	-3260.79
73	50	-0.518658	112.172	-3286.73
74	50	-0.504372	112.427	-3311.95
75	50	-0.493018	112.67	-3336.6
76	50	-0.481728	112.902	-3360.68
77	50	-0.470498	113.123	-3384.21
78	50	-0.459327	113.334	-3407.17
79	50	-0.448213	113.535	-3429.58
80	50	-0.437153	113.726	-3451.44
81	50	-0.423405	113.906	-3472.61
82	50	-0.412463	114.076	-3493.24
83	50	-0.401571	114.237	-3513.31
84	50	-0.390726	114.39	-3532.85
85	50	-0.379927	114.534	-3551.85
86	50	-0.369171	114.67	-3570.31
87	50	-0.358459	114.799	-3588.23
88	50	-0.345126	114.918	-3605.48
89	50	-0.334503	115.03	-3622.21
90	50	-0.323919	115.135	-3638.41
91	50	-0.31337	115.233	-3654.07
92	50	-0.302855	115.325	-3669.22
93	50	-0.292375	115.41	-3683.84
94	50	-0.279319	115.488	-3697.8
95	50	-0.268908	115.56	-3711.25
96	50	-0.258527	115.627	-3724.17
97	50	-0.248174	115.689	-3736.58
98	50	-0.237847	115.745	-3748.47
99	50	-0.227545	115.797	-3759.85
100	50	-0.217267	115.844	-3770.72
101	50	-0.204452	115.886	-3780.94
102	50	-0.194225	115.924	-3790.65
103	50	-0.184017	115.958	-3799.85
104	50	-0.173829	115.988	-3808.54
105	50	-0.163659	116.015	-3816.72
106	50	-0.153505	116.038	-3824.4
107	50	-0.143367	116.059	-3831.57
108	50	-0.130716	116.076	-3838.1
109	50	-0.12061	116.091	-3844.13
110	50	-0.110516	116.103	-3849.66
111	50	-0.100433	116.113	-3854.68
112	50	-0.0903606	116.121	-3859.2
113	50	-0.0802981	116.127	-3863.21
114	50	-0.0677301	116.132	-3866.6
115	50	-0.0576847	116.135	-3869.49
116	50	-0.0476439	116.138	-3871.87
117	50	-0.0376076	116.139	-3873.75
118	50	-0.0275759	116.14	-3875.13
119	50	-0.0175476	116.14	-3876
120	50	-0.00751925	116.14	-3876.38
121	50	0.00751925	116.14	-3876
122	50	0.0175476	116.141	-3875.13
123	50	0.0275759	116.141	-3873.75
124	50	0.0376076	116.143	-3871.87
125	50	0.0476439	116.145	-3869.49
126	50	0.0576847	116.148	-3866.6
127	50	0.0677301	116.153	-3863.21
128	50	0.0802981	116.159	-3859.2
129	50	0.0903606	116.167	-3854.68
130	50	0.100433	116.178	-3849.66
131	50	0.110516	116.19	-3844.13
132	50	0.12061	116.204	-3838.1
133	50	0.130716	116.221	-3831.57
134	50	0.143367	116.242	-3824.4
135	50	0.153505	116.266	-3816.72
136	50	0.163659	116.292	-3808.54
137	50	0.173829	116.323	-3799.85
138	50	0.184017	116.356	-3790.65
139	50	0.194225	116.394	-3780.94
140	50	0.204452	116.436	-3770.72
141	50	0.217267	116.483	-3759.85
142	50	0.227545	116.535	-3748.47
143	50	0.237847	116.591	-3736.58
144	50	0.248174	116.653	-3724.17
145	50	0.258527	116.72	-3711.25
146	50	0.268908	116.792	-3697.8
147	50	0.279319	116.87	-3683.84
148	50	0.292375	116.956	-3669.22
149	50	0.302855	117.047	-3654.07

150	50	0.31337	117.146	-3638.41
151	50	0.323919	117.251	-3622.21
152	50	0.334503	117.362	-3605.48
153	50	0.345126	117.482	-3588.23
154	50	0.358459	117.61	-3570.31
155	50	0.369171	117.746	-3551.85
156	50	0.379927	117.891	-3532.85
157	50	0.390726	118.043	-3513.31
158	50	0.401571	118.205	-3493.24
159	50	0.412463	118.375	-3472.61
160	50	0.423405	118.554	-3451.44
161	50	0.437153	118.745	-3429.58
162	50	0.448213	118.946	-3407.17
163	50	0.459327	119.157	-3384.21
164	50	0.470498	119.378	-3360.68
165	50	0.481728	119.61	-3336.6
166	50	0.493018	119.853	-3311.95
167	50	0.504372	120.108	-3286.73
168	50	0.518658	120.377	-3260.79
169	50	0.530162	120.658	-3234.29
170	50	0.541736	120.951	-3207.2
171	50	0.553384	121.258	-3179.53
172	50	0.565108	121.577	-3151.27
173	50	0.576911	121.91	-3122.43
174	50	0.588793	122.257	-3092.99
175	50	0.603765	122.621	-3062.8
176	50	0.615839	123	-3032.01
177	50	0.628006	123.395	-3000.61
178	50	0.640266	123.805	-2968.6
179	50	0.652622	124.231	-2935.96
180	50	0.665079	124.673	-2902.71
181	50	0.680797	125.136	-2868.67
182	50	0.693493	125.617	-2834
183	50	0.706302	126.116	-2798.68
184	50	0.719228	126.633	-2762.72
185	50	0.732275	127.17	-2726.11
186	50	0.745449	127.725	-2688.83
187	50	0.758753	128.301	-2650.9
188	50	0.775574	128.903	-2612.12
189	50	0.789191	129.525	-2572.66
190	50	0.802956	130.17	-2532.51
191	50	0.816874	130.837	-2491.67
192	50	0.830953	131.528	-2450.12
193	50	0.845198	132.242	-2407.86
194	50	0.859618	132.981	-2364.88
195	50	0.877897	133.752	-2320.98
196	50	0.892733	134.549	-2276.35
197	50	0.907769	135.373	-2230.96
198	50	0.923014	136.225	-2184.81
199	50	0.938476	137.106	-2137.88
200	50	0.954165	138.016	-2090.17
201	50	0.974114	138.965	-2041.47
202	50	0.990356	139.946	-1991.95
203	50	1.00687	140.96	-1941.61
204	50	1.02365	142.007	-1890.43
205	50	1.04073	143.091	-1838.39
206	50	1.05812	144.21	-1785.48
207	50	1.07584	145.368	-1731.69
208	50	1.09847	146.574	-1676.77
209	50	1.11699	147.822	-1620.92
210	50	1.1359	149.112	-1564.12
211	50	1.15522	150.447	-1506.36
212	50	1.17499	151.827	-1447.61
213	50	1.19522	153.256	-1387.85
214	50	1.21596	154.734	-1327.05
215	50	1.24264	156.279	-1264.92
216	50	1.26464	157.878	-1201.69
217	50	1.28727	159.535	-1137.33
218	50	1.31058	161.253	-1071.8
219	50	1.33462	163.034	-1005.07
220	50	1.35946	164.882	-937.093
221	50	1.39175	166.819	-867.505
222	50	1.41865	168.831	-796.573
223	50	1.44663	170.924	-724.241
224	50	1.47579	173.102	-650.452
225	50	1.50626	175.371	-575.139
226	50	1.5382	177.737	-498.229
227	50	1.57179	180.208	-419.639
228	50	1.61644	182.82	-338.817

229	50	1.65463	185.558	-256.086
230	50	1.6954	188.433	-171.316
231	50	1.7392	191.457	-84.3562
232	50	1.78661	194.649	4.97437
233	50	1.83843	198.029	96.8956
234	50	1.8957	201.623	191.68
235	50	1.97737	205.533	290.549
236	50	2.05375	209.751	393.236
237	50	2.14441	214.349	500.457
238	50	2.25713	219.444	613.313
239	50	2.40892	225.247	733.759
240	87.7	2.65209	232.28	966.347

Data Set Standard Deviation = 8.71605
Numerator = 933827
Denominator = 4.21745e+006
W Statistic = 0.22142 = 933827 / 4.21745e+006

5% Critical value of 0.976 exceeds 0.22142
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.22142
Evidence of non-normality at 99% level of significance

Shapiro-Francia Test of Normality
Parameter: Vanadium
All Locations
Normality Test of Parameter Concentrations
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Number of Measurements = 252

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	1.4	-2.74777	7.55021	-3.84687
2	2	-2.45727	13.5884	-8.76142
3	2.1	-2.29036	18.8342	-13.5712
4	2.1	-2.17009	23.5435	-18.1284
5	2.3	-2.07485	27.8485	-22.9005
6	2.6	-1.99539	31.8301	-28.0885
7	2.8	-1.92684	35.5428	-33.4837
8	3.6	-1.86629	39.0258	-40.2023
9	3.9	-1.81191	42.3088	-47.2688
10	4.5	-1.76241	45.4149	-55.1996
11	5	-1.71688	48.3626	-63.7841
12	5.1	-1.67466	51.1671	-72.3248
13	9.9	-1.63524	53.8411	-88.5137
14	40	-1.59819	56.3953	-152.441
15	40	-1.56322	58.839	-214.97
16	40	-1.53007	61.1801	-276.173
17	40	-1.49852	63.4256	-336.113
18	40	-1.46838	65.5818	-394.849
19	40	-1.43953	67.654	-452.43
20	40	-1.41183	69.6473	-508.903
21	40	-1.38517	71.566	-564.31
22	40	-1.36581	73.4314	-618.942
23	40	-1.34075	75.229	-672.573
24	40	-1.31652	76.9623	-725.233
25	40	-1.29303	78.6342	-776.955
26	40	-1.27024	80.2477	-827.764
27	40	-1.24809	81.8054	-877.688
28	40	-1.22653	83.3098	-926.749
29	40	-1.20553	84.7631	-974.97
30	40	-1.18504	86.1674	-1022.37
31	40	-1.16505	87.5248	-1068.97
32	40	-1.1455	88.8369	-1114.79
33	40	-1.12639	90.1057	-1159.85
34	40	-1.10768	91.3326	-1204.16
35	40	-1.08935	92.5193	-1247.73
36	40	-1.07138	93.6672	-1290.59
37	40	-1.05375	94.7776	-1332.74
38	40	-1.03643	95.8518	-1374.19
39	40	-1.01943	96.891	-1414.97
40	40	-1.00271	97.8964	-1455.08
41	40	-0.986272	98.8691	-1494.53
42	40	-0.970094	99.8102	-1533.33
43	40	-0.958125	100.728	-1571.66
44	40	-0.942375	101.616	-1609.35
45	40	-0.926859	102.475	-1646.43
46	40	-0.911562	103.306	-1682.89
47	40	-0.896473	104.11	-1718.75
48	40	-0.881587	104.887	-1754.01
49	40	-0.866894	105.639	-1788.69
50	40	-0.852385	106.365	-1822.78
51	40	-0.838054	107.068	-1856.31
52	40	-0.823893	107.746	-1889.26
53	40	-0.809896	108.402	-1921.66
54	40	-0.796056	109.036	-1953.5
55	40	-0.782366	109.648	-1984.79
56	40	-0.768821	110.239	-2015.55
57	40	-0.755415	110.81	-2045.76
58	40	-0.742143	111.361	-2075.45
59	40	-0.729003	111.892	-2104.61
60	40	-0.715986	112.405	-2133.25
61	40	-0.703089	112.899	-2161.37
62	40	-0.690309	113.376	-2188.98
63	40	-0.677639	113.835	-2216.09
64	40	-0.668209	114.281	-2242.82
65	40	-0.655726	114.711	-2269.05
66	40	-0.643345	115.125	-2294.78
67	40	-0.631062	115.523	-2320.02
68	40	-0.618872	115.906	-2344.78
69	40	-0.606775	116.275	-2369.05
70	40	-0.594766	116.628	-2392.84

71	40	-0.582841	116.968	-2416.15
72	40	-0.570999	117.294	-2438.99
73	40	-0.559237	117.607	-2461.36
74	40	-0.547551	117.907	-2483.27
75	40	-0.53594	118.194	-2504.7
76	40	-0.524401	118.469	-2525.68
77	40	-0.51293	118.732	-2546.2
78	40	-0.501527	118.983	-2566.26
79	40	-0.490189	119.224	-2585.86
80	40	-0.478914	119.453	-2605.02
81	40	-0.467699	119.672	-2623.73
82	40	-0.456542	119.88	-2641.99
83	40	-0.445443	120.079	-2659.81
84	40	-0.434397	120.267	-2677.18
85	40	-0.426148	120.449	-2694.23
86	40	-0.415193	120.621	-2710.84
87	40	-0.40429	120.785	-2727.01
88	40	-0.393433	120.94	-2742.75
89	40	-0.382622	121.086	-2758.05
90	40	-0.371856	121.224	-2772.93
91	40	-0.361133	121.355	-2787.37
92	40	-0.350451	121.478	-2801.39
93	40	-0.33981	121.593	-2814.98
94	40	-0.329206	121.701	-2828.15
95	40	-0.318639	121.803	-2840.9
96	40	-0.308108	121.898	-2853.22
97	40	-0.297612	121.986	-2865.12
98	40	-0.287147	122.069	-2876.61
99	40	-0.276714	122.145	-2887.68
100	40	-0.266311	122.216	-2898.33
101	40	-0.255936	122.282	-2908.57
102	40	-0.24559	122.342	-2918.39
103	40	-0.235269	122.398	-2927.8
104	40	-0.224974	122.448	-2936.8
105	40	-0.214702	122.494	-2945.39
106	40	-0.207012	122.537	-2953.67
107	40	-0.196779	122.576	-2961.54
108	40	-0.186567	122.611	-2969
109	40	-0.176374	122.642	-2976.06
110	40	-0.166199	122.669	-2982.71
111	40	-0.156042	122.694	-2988.95
112	40	-0.1459	122.715	-2994.79
113	40	-0.135774	122.733	-3000.22
114	40	-0.125661	122.749	-3005.24
115	40	-0.115562	122.763	-3009.87
116	40	-0.105474	122.774	-3014.08
117	40	-0.0953969	122.783	-3017.9
118	40	-0.0853288	122.79	-3021.31
119	40	-0.0752698	122.796	-3024.32
120	40	-0.0652187	122.8	-3026.93
121	40	-0.0551734	122.803	-3029.14
122	40	-0.0451348	122.805	-3030.95
123	40	-0.0350997	122.806	-3032.35
124	40	-0.0250691	122.807	-3033.35
125	40	-0.0150408	122.807	-3033.95
126	40	-0.00501359	122.807	-3034.15
127	40	0.00501359	122.807	-3033.95
128	40	0.0150408	122.807	-3033.35
129	40	0.0250691	122.808	-3032.35
130	40	0.0350997	122.809	-3030.95
131	40	0.0451348	122.811	-3029.14
132	40	0.0551734	122.814	-3026.93
133	40	0.0652187	122.819	-3024.32
134	40	0.0752698	122.824	-3021.31
135	40	0.0853288	122.832	-3017.9
136	40	0.0953969	122.841	-3014.08
137	40	0.105474	122.852	-3009.87
138	40	0.115562	122.865	-3005.24
139	40	0.125661	122.881	-3000.22
140	40	0.135774	122.899	-2994.79
141	40	0.1459	122.921	-2988.95
142	40	0.156042	122.945	-2982.71
143	40	0.166199	122.973	-2976.06
144	40	0.176374	123.004	-2969
145	40	0.186567	123.039	-2961.54
146	40	0.196779	123.077	-2953.67
147	40	0.207012	123.12	-2945.39
148	40	0.214702	123.166	-2936.8
149	40	0.224974	123.217	-2927.8

150	40	0.235269	123.272	-2918.39
151	40	0.24559	123.333	-2908.57
152	40	0.255936	123.398	-2898.33
153	40	0.266311	123.469	-2887.68
154	40	0.276714	123.546	-2876.61
155	40	0.287147	123.628	-2865.12
156	40	0.297612	123.717	-2853.22
157	40	0.308108	123.811	-2840.9
158	40	0.318639	123.913	-2828.15
159	40	0.329206	124.021	-2814.98
160	40	0.33981	124.137	-2801.39
161	40	0.350451	124.26	-2787.37
162	40	0.361133	124.39	-2772.93
163	40	0.371856	124.528	-2758.05
164	40	0.382622	124.675	-2742.75
165	40	0.393433	124.83	-2727.01
166	40	0.40429	124.993	-2710.84
167	40	0.415193	125.165	-2694.23
168	40	0.426148	125.347	-2677.18
169	40	0.434397	125.536	-2659.81
170	40	0.445443	125.734	-2641.99
171	40	0.456542	125.943	-2623.73
172	40	0.467699	126.161	-2605.02
173	40	0.478914	126.391	-2585.86
174	40	0.490189	126.631	-2566.26
175	40	0.501527	126.882	-2546.2
176	40	0.51293	127.146	-2525.68
177	40	0.524401	127.421	-2504.7
178	40	0.53594	127.708	-2483.27
179	40	0.547551	128.008	-2461.36
180	40	0.559237	128.32	-2438.99
181	40	0.570999	128.646	-2416.15
182	40	0.582841	128.986	-2392.84
183	40	0.594766	129.34	-2369.05
184	40	0.606775	129.708	-2344.78
185	40	0.618872	130.091	-2320.02
186	40	0.631062	130.489	-2294.78
187	40	0.643345	130.903	-2269.05
188	40	0.655726	131.333	-2242.82
189	40	0.668209	131.78	-2216.09
190	40	0.677639	132.239	-2188.98
191	40	0.690309	132.715	-2161.37
192	40	0.703089	133.21	-2133.25
193	40	0.715986	133.722	-2104.61
194	40	0.729003	134.254	-2075.45
195	40	0.742143	134.805	-2045.76
196	40	0.755415	135.375	-2015.55
197	40	0.768821	135.966	-1984.79
198	40	0.782366	136.578	-1953.5
199	40	0.796056	137.212	-1921.66
200	40	0.809896	137.868	-1889.26
201	40	0.823893	138.547	-1856.31
202	40	0.838054	139.249	-1822.78
203	40	0.852385	139.976	-1788.69
204	40	0.866894	140.727	-1754.01
205	40	0.881587	141.504	-1718.75
206	40	0.896473	142.308	-1682.89
207	40	0.911562	143.139	-1646.43
208	40	0.926859	143.998	-1609.35
209	40	0.942375	144.886	-1571.66
210	40	0.958125	145.804	-1533.33
211	40	0.970094	146.745	-1494.53
212	40	0.986272	147.718	-1455.08
213	40	1.00271	148.723	-1414.97
214	40	1.01943	149.763	-1374.19
215	40	1.03643	150.837	-1332.74
216	40	1.05375	151.947	-1290.59
217	40	1.07138	153.095	-1247.73
218	40	1.08935	154.282	-1204.16
219	40	1.10768	155.509	-1159.85
220	40	1.12639	156.777	-1114.79
221	40	1.1455	158.09	-1068.97
222	40	1.16505	159.447	-1022.37
223	40	1.18504	160.851	-974.97
224	40	1.20553	162.305	-926.749
225	40	1.22653	163.809	-877.688
226	40	1.24809	165.367	-827.764
227	40	1.27024	166.98	-776.955
228	40	1.29303	168.652	-725.233

229	40	1.31652	170.385	-672.573
230	40	1.34075	172.183	-618.942
231	40	1.36581	174.048	-564.31
232	40	1.38517	175.967	-508.903
233	40	1.41183	177.96	-452.43
234	40	1.43953	180.033	-394.849
235	40	1.46838	182.189	-336.113
236	40	1.49852	184.434	-276.173
237	40	1.53007	186.775	-214.97
238	40	1.56322	189.219	-152.441
239	40	1.59819	191.773	-88.5137
240	40	1.63524	194.447	-23.1043
241	40	1.67466	197.252	43.8822
242	40	1.71688	200.199	112.558
243	40	1.76241	203.306	183.054
244	40	1.81191	206.589	255.531
245	40	1.86629	210.072	330.182
246	40	1.92684	213.784	407.256
247	40	1.99539	217.766	487.072
248	40	2.07485	222.071	570.065
249	40	2.17009	226.78	656.869
250	40	2.29036	232.026	748.484
251	40	2.45727	238.064	846.774
252	64	2.74777	245.614	1022.63

Data Set Standard Deviation = 8.23586
Numerator = 1.04578e+006
Denominator = 4.18163e+006
W Statistic = 0.250088 = 1.04578e+006 / 4.18163e+006

5% Critical value of 0.976 exceeds 0.250088
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.250088
Evidence of non-normality at 99% level of significance

Shapiro-Francia Test of Normality

Parameter: Zinc, total
All Locations
Normality Test of Parameter Concentrations
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Number of Measurements = 240

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	1	-2.65209	7.03356	-2.65209
2	1	-2.40892	12.8365	-5.06101
3	1	-2.25713	17.9311	-7.31814
4	1.3	-2.14441	22.5296	-10.1059
5	1.5	-2.05375	26.7475	-13.1865
6	2.1	-1.97737	30.6575	-17.339
7	2.2	-1.8957	34.2511	-21.5095
8	2.3	-1.83843	37.6309	-25.7379
9	2.4	-1.78661	40.8229	-30.0257
10	2.5	-1.7392	43.8477	-34.3737
11	2.7	-1.6954	46.7221	-38.9513
12	3.1	-1.65463	49.4599	-44.0807
13	5.4	-1.61644	52.0728	-52.8094
14	5.5	-1.57179	54.5433	-61.4542
15	5.8	-1.5382	56.9093	-70.3758
16	50	-1.50626	59.1782	-145.689
17	50	-1.47579	61.3561	-219.478
18	50	-1.44663	63.4489	-291.81
19	50	-1.41865	65.4614	-362.743
20	50	-1.39175	67.3984	-432.33
21	50	-1.35946	69.2465	-500.303
22	50	-1.33462	71.0278	-567.034
23	50	-1.31058	72.7454	-632.563
24	50	-1.28727	74.4024	-696.927
25	50	-1.26464	76.0018	-760.159
26	50	-1.24264	77.5459	-822.291
27	50	-1.21596	79.0245	-883.089
28	50	-1.19522	80.453	-942.85
29	50	-1.17499	81.8336	-1001.6
30	50	-1.15522	83.1682	-1059.36
31	50	-1.1359	84.4584	-1116.16
32	50	-1.11699	85.7061	-1172
33	50	-1.09847	86.9127	-1226.93
34	50	-1.07584	88.0701	-1280.72
35	50	-1.05812	89.1898	-1333.63
36	50	-1.04073	90.2729	-1385.66
37	50	-1.02365	91.3208	-1436.85
38	50	-1.00687	92.3345	-1487.19
39	50	-0.990356	93.3153	-1536.71
40	50	-0.974114	94.2642	-1585.41
41	50	-0.954165	95.1747	-1633.12
42	50	-0.938476	96.0554	-1680.04
43	50	-0.923014	96.9074	-1726.19
44	50	-0.907769	97.7314	-1771.58
45	50	-0.892733	98.5284	-1816.22
46	50	-0.877897	99.2991	-1860.11
47	50	-0.859618	100.038	-1903.1
48	50	-0.845198	100.752	-1945.36
49	50	-0.830953	101.443	-1986.9
50	50	-0.816874	102.11	-2027.75
51	50	-0.802956	102.755	-2067.89
52	50	-0.789191	103.378	-2107.35
53	50	-0.775574	103.979	-2146.13
54	50	-0.758753	104.555	-2184.07
55	50	-0.745449	105.111	-2221.34
56	50	-0.732275	105.647	-2257.96
57	50	-0.719228	106.164	-2293.92
58	50	-0.706302	106.663	-2329.23
59	50	-0.693493	107.144	-2363.91
60	50	-0.680797	107.607	-2397.95
61	50	-0.665079	108.05	-2431.2
62	50	-0.652622	108.476	-2463.83
63	50	-0.640266	108.886	-2495.85
64	50	-0.628006	109.28	-2527.25
65	50	-0.615839	109.659	-2558.04
66	50	-0.603765	110.024	-2588.23
67	50	-0.588793	110.37	-2617.67
68	50	-0.576911	110.703	-2646.51
69	50	-0.565108	111.023	-2674.77
70	50	-0.553384	111.329	-2702.44

71	50	-0.541736	111.622	-2729.52
72	50	-0.530162	111.903	-2756.03
73	50	-0.518658	112.172	-2781.96
74	50	-0.504372	112.427	-2807.18
75	50	-0.493018	112.67	-2831.83
76	50	-0.481728	112.902	-2855.92
77	50	-0.470498	113.123	-2879.44
78	50	-0.459327	113.334	-2902.41
79	50	-0.448213	113.535	-2924.82
80	50	-0.437153	113.726	-2946.68
81	50	-0.423405	113.906	-2967.85
82	50	-0.412463	114.076	-2988.47
83	50	-0.401571	114.237	-3008.55
84	50	-0.390726	114.39	-3028.09
85	50	-0.379927	114.534	-3047.08
86	50	-0.369171	114.67	-3065.54
87	50	-0.358459	114.799	-3083.47
88	50	-0.345126	114.918	-3100.72
89	50	-0.334503	115.03	-3117.45
90	50	-0.323919	115.135	-3133.64
91	50	-0.31337	115.233	-3149.31
92	50	-0.302855	115.325	-3164.45
93	50	-0.292375	115.41	-3179.07
94	50	-0.279319	115.488	-3193.04
95	50	-0.268908	115.56	-3206.48
96	50	-0.258527	115.627	-3219.41
97	50	-0.248174	115.689	-3231.82
98	50	-0.237847	115.745	-3243.71
99	50	-0.227545	115.797	-3255.09
100	50	-0.217267	115.844	-3265.95
101	50	-0.204452	115.886	-3276.18
102	50	-0.194225	115.924	-3285.89
103	50	-0.184017	115.958	-3295.09
104	50	-0.173829	115.988	-3303.78
105	50	-0.163659	116.015	-3311.96
106	50	-0.153505	116.038	-3319.64
107	50	-0.143367	116.059	-3326.81
108	50	-0.130716	116.076	-3333.34
109	50	-0.12061	116.091	-3339.37
110	50	-0.110516	116.103	-3344.9
111	50	-0.100433	116.113	-3349.92
112	50	-0.0903606	116.121	-3354.44
113	50	-0.0802981	116.127	-3358.45
114	50	-0.0677301	116.132	-3361.84
115	50	-0.0576847	116.135	-3364.72
116	50	-0.0476439	116.138	-3367.1
117	50	-0.0376076	116.139	-3368.99
118	50	-0.0275759	116.14	-3370.36
119	50	-0.0175476	116.14	-3371.24
120	50	-0.00751925	116.14	-3371.62
121	50	0.00751925	116.14	-3371.24
122	50	0.0175476	116.141	-3370.36
123	50	0.0275759	116.141	-3368.99
124	50	0.0376076	116.143	-3367.1
125	50	0.0476439	116.145	-3364.72
126	50	0.0576847	116.148	-3361.84
127	50	0.0677301	116.153	-3358.45
128	50	0.0802981	116.159	-3354.44
129	50	0.0903606	116.167	-3349.92
130	50	0.100433	116.178	-3344.9
131	50	0.110516	116.19	-3339.37
132	50	0.12061	116.204	-3333.34
133	50	0.130716	116.221	-3326.81
134	50	0.143367	116.242	-3319.64
135	50	0.153505	116.266	-3311.96
136	50	0.163659	116.292	-3303.78
137	50	0.173829	116.323	-3295.09
138	50	0.184017	116.356	-3285.89
139	50	0.194225	116.394	-3276.18
140	50	0.204452	116.436	-3265.95
141	50	0.217267	116.483	-3255.09
142	50	0.227545	116.535	-3243.71
143	50	0.237847	116.591	-3231.82
144	50	0.248174	116.653	-3219.41
145	50	0.258527	116.72	-3206.48
146	50	0.268908	116.792	-3193.04
147	50	0.279319	116.87	-3179.07
148	50	0.292375	116.956	-3164.45
149	50	0.302855	117.047	-3149.31

150	50	0.31337	117.146	-3133.64
151	50	0.323919	117.251	-3117.45
152	50	0.334503	117.362	-3100.72
153	50	0.345126	117.482	-3083.47
154	50	0.358459	117.61	-3065.54
155	50	0.369171	117.746	-3047.08
156	50	0.379927	117.891	-3028.09
157	50	0.390726	118.043	-3008.55
158	50	0.401571	118.205	-2988.47
159	50	0.412463	118.375	-2967.85
160	50	0.423405	118.554	-2946.68
161	50	0.437153	118.745	-2924.82
162	50	0.448213	118.946	-2902.41
163	50	0.459327	119.157	-2879.44
164	50	0.470498	119.378	-2855.92
165	50	0.481728	119.61	-2831.83
166	50	0.493018	119.853	-2807.18
167	50	0.504372	120.108	-2781.96
168	50	0.518658	120.377	-2756.03
169	50	0.530162	120.658	-2729.52
170	50	0.541736	120.951	-2702.44
171	50	0.553384	121.258	-2674.77
172	50	0.565108	121.577	-2646.51
173	50	0.576911	121.91	-2617.67
174	50	0.588793	122.257	-2588.23
175	50	0.603765	122.621	-2558.04
176	50	0.615839	123	-2527.25
177	50	0.628006	123.395	-2495.85
178	50	0.640266	123.805	-2463.83
179	50	0.652622	124.231	-2431.2
180	50	0.665079	124.673	-2397.95
181	50	0.680797	125.136	-2363.91
182	50	0.693493	125.617	-2329.23
183	50	0.706302	126.116	-2293.92
184	50	0.719228	126.633	-2257.96
185	50	0.732275	127.17	-2221.34
186	50	0.745449	127.725	-2184.07
187	50	0.758753	128.301	-2146.13
188	50	0.775574	128.903	-2107.35
189	50	0.789191	129.525	-2067.89
190	50	0.802956	130.17	-2027.75
191	50	0.816874	130.837	-1986.9
192	50	0.830953	131.528	-1945.36
193	50	0.845198	132.242	-1903.1
194	50	0.859618	132.981	-1860.11
195	50	0.877897	133.752	-1816.22
196	50	0.892733	134.549	-1771.58
197	50	0.907769	135.373	-1726.19
198	50	0.923014	136.225	-1680.04
199	50	0.938476	137.106	-1633.12
200	50	0.954165	138.016	-1585.41
201	50	0.974114	138.965	-1536.71
202	50	0.990356	139.946	-1487.19
203	50	1.00687	140.96	-1436.85
204	50	1.02365	142.007	-1385.66
205	50	1.04073	143.091	-1333.63
206	50	1.05812	144.21	-1280.72
207	50	1.07584	145.368	-1226.93
208	50	1.09847	146.574	-1172
209	50	1.11699	147.822	-1116.16
210	50	1.1359	149.112	-1059.36
211	50	1.15522	150.447	-1001.6
212	50	1.17499	151.827	-942.85
213	50	1.19522	153.256	-883.089
214	50	1.21596	154.734	-822.291
215	50	1.24264	156.279	-760.159
216	50	1.26464	157.878	-696.927
217	50	1.28727	159.535	-632.563
218	50	1.31058	161.253	-567.034
219	50	1.33462	163.034	-500.303
220	50	1.35946	164.882	-432.33
221	50	1.39175	166.819	-362.743
222	50	1.41865	168.831	-291.81
223	50	1.44663	170.924	-219.478
224	50	1.47579	173.102	-145.689
225	50	1.50626	175.371	-70.3758
226	50	1.5382	177.737	6.53424
227	50	1.57179	180.208	85.1237
228	50	1.61644	182.82	165.945

229	50	1.65463	185.558	248.677
230	50	1.6954	188.433	333.447
231	50	1.7392	191.457	420.407
232	50	1.78661	194.649	509.737
233	50	1.83843	198.029	601.658
234	50	1.8957	201.623	696.443
235	50	1.97737	205.533	795.312
236	50	2.05375	209.751	897.999
237	54	2.14441	214.349	1013.8
238	56	2.25713	219.444	1140.2
239	69	2.40892	225.247	1306.41
240	154	2.65209	232.28	1714.83

Data Set Standard Deviation = 13.4917
Numerator = 2.94065e+006
Denominator = 1.01052e+007
W Statistic = 0.291004 = 2.94065e+006 / 1.01052e+007

5% Critical value of 0.976 exceeds 0.291004
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.291004
Evidence of non-normality at 99% level of significance

APPENDIX F

Non-Parametric Upper Tolerance Limit Computations

Non-Parametric Tolerance Interval

Parameter: Barium, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 89.1667%
Background measurements (n) = 40
Maximum Background Concentration = 500
Minimum Coverage = 92.8%
Average Coverage = 97.561%

Location	Date	Value	Significant
MW-17	12/16/1997	ND<500	FALSE
MW-17	1/14/1998	ND<500	FALSE
MW-17	2/13/1998	ND<500	FALSE
MW-17	3/6/1998	ND<500	FALSE
MW-17	10/15/1998	ND<500	FALSE
MW-17	3/25/1999	ND<500	FALSE
MW-17	9/23/1999	ND<500	FALSE
MW-17	3/29/2000	ND<500	FALSE
MW-17	9/14/2000	ND<500	FALSE
MW-17	3/12/2001	ND<500	FALSE
MW-17	10/13/2001	ND<500	FALSE
MW-17	3/8/2002	ND<500	FALSE
MW-17	9/19/2002	ND<500	FALSE
MW-17	4/15/2003	ND<500	FALSE
MW-17	10/16/2003	ND<500	FALSE
MW-17	3/25/2004	ND<500	FALSE
MW-17	10/18/2006	ND<500	FALSE
MW-17	4/9/2007	ND<500	FALSE
MW-17	9/24/2007	50.3	FALSE
MW-17	5/2/2008	52.7	FALSE
MW-18	12/16/1997	ND<500	FALSE
MW-18	1/14/1998	ND<500	FALSE
MW-18	2/13/1998	ND<500	FALSE
MW-18	3/6/1998	ND<500	FALSE
MW-18	10/15/1998	ND<500	FALSE
MW-18	3/25/1999	ND<500	FALSE
MW-18	9/23/1999	ND<500	FALSE
MW-18	3/29/2000	ND<500	FALSE
MW-18	9/14/2000	ND<500	FALSE
MW-18	3/12/2001	ND<500	FALSE
MW-18	10/13/2001	ND<500	FALSE
MW-18	3/8/2002	ND<500	FALSE
MW-18	9/19/2002	ND<500	FALSE
MW-18	4/15/2003	ND<500	FALSE
MW-18	10/16/2003	ND<500	FALSE
MW-18	3/25/2004	ND<500	FALSE
MW-18	10/18/2006	ND<500	FALSE
MW-18	4/9/2007	ND<500	FALSE
MW-18	9/24/2007	29	FALSE
MW-18	5/2/2008	23	FALSE
MW-19	12/16/1997	ND<500	FALSE
MW-19	1/14/1998	ND<500	FALSE
MW-19	2/13/1998	69	FALSE
MW-19	3/6/1998	ND<500	FALSE
MW-19	10/15/1998	ND<500	FALSE
MW-19	3/25/1999	ND<500	FALSE
MW-19	9/23/1999	ND<500	FALSE
MW-19	3/29/2000	ND<500	FALSE
MW-19	9/14/2000	ND<500	FALSE
MW-19	3/12/2001	ND<500	FALSE
MW-19	10/13/2001	ND<500	FALSE
MW-19	3/8/2002	ND<500	FALSE
MW-19	9/19/2002	ND<500	FALSE
MW-19	4/15/2003	ND<500	FALSE
MW-19	10/16/2003	ND<500	FALSE
MW-19	3/25/2004	ND<500	FALSE
MW-19	10/18/2006	ND<500	FALSE
MW-19	4/9/2007	ND<500	FALSE
MW-19	9/24/2007	17.2	FALSE
MW-19	5/2/2008	31.7	FALSE

MW-20	12/16/1997	ND<500	FALSE
MW-20	1/14/1998	ND<500	FALSE
MW-20	2/13/1998	ND<500	FALSE
MW-20	3/6/1998	ND<500	FALSE
MW-20	10/15/1998	ND<500	FALSE
MW-20	3/25/1999	ND<500	FALSE
MW-20	9/23/1999	ND<500	FALSE
MW-20	3/29/2000	ND<500	FALSE
MW-20	9/14/2000	ND<500	FALSE
MW-20	3/12/2001	ND<500	FALSE
MW-20	10/13/2001	ND<500	FALSE
MW-20	3/8/2002	ND<500	FALSE
MW-20	9/19/2002	ND<500	FALSE
MW-20	4/15/2003	ND<500	FALSE
MW-20	10/16/2003	ND<500	FALSE
MW-20	3/25/2004	ND<500	FALSE
MW-20	10/18/2006	ND<500	FALSE
MW-20	4/9/2007	ND<500	FALSE
MW-20	9/24/2007	39.2	FALSE
MW-20	5/2/2008	55.4	FALSE
MW-21	12/16/1997	ND<500	FALSE
MW-21	1/14/1998	ND<500	FALSE
MW-21	2/13/1998	ND<500	FALSE
MW-21	3/6/1998	ND<500	FALSE
MW-21	10/15/1998	ND<500	FALSE
MW-21	3/25/1999	ND<500	FALSE
MW-21	9/23/1999	ND<500	FALSE
MW-21	3/29/2000	ND<500	FALSE
MW-21	9/14/2000	ND<500	FALSE
MW-21	3/12/2001	ND<500	FALSE
MW-21	10/13/2001	ND<500	FALSE
MW-21	3/8/2002	ND<500	FALSE
MW-21	9/19/2002	ND<500	FALSE
MW-21	4/15/2003	ND<500	FALSE
MW-21	10/16/2003	ND<500	FALSE
MW-21	3/25/2004	ND<500	FALSE
MW-21	10/18/2006	ND<500	FALSE
MW-21	4/9/2007	ND<500	FALSE
MW-21	9/24/2007	30.7	FALSE
MW-21	5/2/2008	30	FALSE
MW-22	12/16/1997	ND<500	FALSE
MW-22	1/14/1998	ND<500	FALSE
MW-22	2/13/1998	ND<500	FALSE
MW-22	3/6/1998	ND<500	FALSE
MW-22	10/15/1998	ND<500	FALSE
MW-22	3/25/1999	ND<500	FALSE
MW-22	9/23/1999	ND<500	FALSE
MW-22	3/29/2000	ND<500	FALSE
MW-22	9/14/2000	ND<500	FALSE
MW-22	3/12/2001	ND<500	FALSE
MW-22	10/13/2001	ND<500	FALSE
MW-22	3/8/2002	ND<500	FALSE
MW-22	9/19/2002	ND<500	FALSE
MW-22	4/15/2003	ND<500	FALSE
MW-22	10/16/2003	ND<500	FALSE
MW-22	3/25/2004	ND<500	FALSE
MW-22	10/18/2006	ND<500	FALSE
MW-22	4/9/2007	ND<500	FALSE
MW-22	9/24/2007	80.4	FALSE
MW-22	5/2/2008	136	FALSE
MW-23	12/16/1997	ND<500	FALSE
MW-23	1/14/1998	ND<500	FALSE
MW-23	2/13/1998	ND<500	FALSE
MW-23	3/6/1998	ND<500	FALSE
MW-23	10/15/1998	ND<500	FALSE
MW-23	3/25/1999	ND<500	FALSE
MW-23	9/23/1999	ND<500	FALSE
MW-23	3/29/2000	ND<500	FALSE
MW-23	9/14/2000	ND<500	FALSE
MW-23	3/12/2001	ND<500	FALSE
MW-23	10/13/2001	ND<500	FALSE
MW-23	3/8/2002	ND<500	FALSE
MW-23	9/19/2002	ND<500	FALSE

MW-23	4/15/2003	ND<500	FALSE
MW-23	10/16/2003	ND<500	FALSE
MW-23	3/25/2004	ND<500	FALSE
MW-23	10/18/2006	ND<500	FALSE
MW-23	4/9/2007	ND<500	FALSE
MW-23	9/24/2007	60	FALSE
MW-23	5/2/2008	66.6	FALSE
MW-24	12/16/1997	ND<500	FALSE
MW-24	1/14/1998	ND<500	FALSE
MW-24	2/13/1998	ND<500	FALSE
MW-24	3/6/1998	ND<500	FALSE
MW-24	10/15/1998	ND<500	FALSE
MW-24	3/25/1999	ND<500	FALSE
MW-24	9/23/1999	ND<500	FALSE
MW-24	3/29/2000	ND<500	FALSE
MW-24	9/14/2000	ND<500	FALSE
MW-24	3/12/2001	ND<500	FALSE
MW-24	10/13/2001	ND<500	FALSE
MW-24	3/8/2002	ND<500	FALSE
MW-24	9/19/2002	ND<500	FALSE
MW-24	4/15/2003	ND<500	FALSE
MW-24	10/16/2003	ND<500	FALSE
MW-24	3/25/2004	ND<500	FALSE
MW-24	10/18/2006	ND<500	FALSE
MW-24	4/9/2007	332	FALSE
MW-24	9/24/2007	382	FALSE
MW-24	5/2/2008	444	FALSE
MW-25	12/16/1997	ND<500	FALSE
MW-25	1/14/1998	ND<500	FALSE
MW-25	2/13/1998	ND<500	FALSE
MW-25	3/6/1998	ND<500	FALSE
MW-25	10/15/1998	ND<500	FALSE
MW-25	3/25/1999	ND<500	FALSE
MW-25	9/23/1999	ND<500	FALSE
MW-25	3/29/2000	ND<500	FALSE
MW-25	9/14/2000	ND<500	FALSE
MW-25	3/12/2001	ND<500	FALSE
MW-25	10/13/2001	ND<500	FALSE
MW-25	3/8/2002	ND<500	FALSE
MW-25	9/19/2002	ND<500	FALSE
MW-25	4/15/2003	ND<500	FALSE
MW-25	10/16/2003	ND<500	FALSE
MW-25	3/25/2004	ND<500	FALSE
MW-25	10/18/2006	ND<500	FALSE
MW-25	4/9/2007	ND<500	FALSE
MW-25	9/24/2007	ND<500	FALSE
MW-25	5/2/2008	19.6	FALSE
MW-25d	12/16/1997	ND<500	FALSE
MW-25d	1/14/1998	ND<500	FALSE
MW-25d	2/13/1998	ND<500	FALSE
MW-25d	3/6/1998	ND<500	FALSE
MW-25d	10/15/1998	ND<500	FALSE
MW-25d	3/25/1999	ND<500	FALSE
MW-25d	9/23/1999	ND<500	FALSE
MW-25d	3/29/2000	ND<500	FALSE
MW-25d	9/14/2000	ND<500	FALSE
MW-25d	3/12/2001	ND<500	FALSE
MW-25d	10/13/2001	ND<500	FALSE
MW-25d	3/8/2002	ND<500	FALSE
MW-25d	9/19/2002	ND<500	FALSE
MW-25d	4/15/2003	ND<500	FALSE
MW-25d	10/16/2003	ND<500	FALSE
MW-25d	3/25/2004	ND<500	FALSE
MW-25d	10/18/2006	ND<500	FALSE
MW-25d	4/9/2007	ND<500	FALSE
MW-25d	9/24/2007	13	FALSE
MW-25d	5/2/2008	16.2	FALSE

Non-Parametric Tolerance Interval

Parameter: Chromium, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 94.1667%
Background measurements (n) = 40
Maximum Background Concentration = 10
Minimum Coverage = 92.8%
Average Coverage = 97.561%

Location	Date	Value	Significant
MW-17	12/16/1997	ND<10	FALSE
MW-17	1/14/1998	ND<10	FALSE
MW-17	2/13/1998	ND<10	FALSE
MW-17	3/6/1998	ND<10	FALSE
MW-17	10/15/1998	ND<10	FALSE
MW-17	3/25/1999	ND<10	FALSE
MW-17	9/23/1999	ND<10	FALSE
MW-17	3/29/2000	ND<10	FALSE
MW-17	9/14/2000	ND<10	FALSE
MW-17	3/12/2001	ND<10	FALSE
MW-17	10/13/2001	ND<10	FALSE
MW-17	3/8/2002	ND<10	FALSE
MW-17	9/19/2002	ND<10	FALSE
MW-17	4/15/2003	ND<10	FALSE
MW-17	10/16/2003	ND<10	FALSE
MW-17	3/25/2004	ND<10	FALSE
MW-17	10/18/2006	ND<10	FALSE
MW-17	4/9/2007	ND<10	FALSE
MW-17	9/24/2007	ND<10	FALSE
MW-17	**5/2/2008**	**112**	**TRUE**
MW-18	12/16/1997	ND<10	FALSE
MW-18	1/14/1998	ND<10	FALSE
MW-18	2/13/1998	ND<10	FALSE
MW-18	3/6/1998	ND<10	FALSE
MW-18	10/15/1998	ND<10	FALSE
MW-18	3/25/1999	ND<10	FALSE
MW-18	9/23/1999	ND<10	FALSE
MW-18	3/29/2000	ND<10	FALSE
MW-18	9/14/2000	ND<10	FALSE
MW-18	3/12/2001	ND<10	FALSE
MW-18	10/13/2001	ND<10	FALSE
MW-18	3/8/2002	ND<10	FALSE
MW-18	9/19/2002	ND<10	FALSE
MW-18	4/15/2003	ND<10	FALSE
MW-18	10/16/2003	ND<10	FALSE
MW-18	3/25/2004	ND<10	FALSE
MW-18	10/18/2006	ND<10	FALSE
MW-18	4/9/2007	ND<10	FALSE
MW-18	9/24/2007	ND<10	FALSE
MW-18	**5/2/2008**	**30.3**	**TRUE**
MW-19	12/16/1997	ND<10	FALSE
MW-19	1/14/1998	ND<10	FALSE
MW-19	**2/13/1998**	**12**	**TRUE**
MW-19	3/6/1998	ND<10	FALSE
MW-19	10/15/1998	ND<10	FALSE
MW-19	3/25/1999	ND<10	FALSE
MW-19	9/23/1999	ND<10	FALSE
MW-19	3/29/2000	ND<10	FALSE
MW-19	9/14/2000	ND<10	FALSE
MW-19	3/12/2001	ND<10	FALSE
MW-19	10/13/2001	ND<10	FALSE
MW-19	3/8/2002	ND<10	FALSE
MW-19	9/19/2002	ND<10	FALSE
MW-19	4/15/2003	ND<10	FALSE
MW-19	10/16/2003	ND<10	FALSE
MW-19	3/25/2004	ND<10	FALSE
MW-19	10/18/2006	ND<10	FALSE
MW-19	4/9/2007	ND<10	FALSE
MW-19	9/24/2007	ND<10	FALSE
MW-19	**5/2/2008**	**11.1**	**TRUE**

MW-20	12/16/1997	ND<10	FALSE
MW-20	1/14/1998	ND<10	FALSE
MW-20	2/13/1998	ND<10	FALSE
MW-20	3/6/1998	ND<10	FALSE
MW-20	10/15/1998	ND<10	FALSE
MW-20	**3/25/1999**	**11**	**TRUE**
MW-20	9/23/1999	ND<10	FALSE
MW-20	3/29/2000	ND<10	FALSE
MW-20	9/14/2000	ND<10	FALSE
MW-20	3/12/2001	ND<10	FALSE
MW-20	10/13/2001	ND<10	FALSE
MW-20	3/8/2002	ND<10	FALSE
MW-20	9/19/2002	ND<10	FALSE
MW-20	4/15/2003	ND<10	FALSE
MW-20	10/16/2003	ND<10	FALSE
MW-20	3/25/2004	ND<10	FALSE
MW-20	10/18/2006	ND<10	FALSE
MW-20	4/9/2007	ND<10	FALSE
MW-20	9/24/2007	ND<10	FALSE
MW-20	5/2/2008	ND<10	FALSE
MW-21	12/16/1997	ND<10	FALSE
MW-21	1/14/1998	ND<10	FALSE
MW-21	2/13/1998	10	FALSE
MW-21	3/6/1998	ND<10	FALSE
MW-21	10/15/1998	ND<10	FALSE
MW-21	3/25/1999	ND<10	FALSE
MW-21	9/23/1999	ND<10	FALSE
MW-21	3/29/2000	ND<10	FALSE
MW-21	9/14/2000	ND<10	FALSE
MW-21	3/12/2001	ND<10	FALSE
MW-21	10/13/2001	ND<10	FALSE
MW-21	3/8/2002	ND<10	FALSE
MW-21	9/19/2002	ND<10	FALSE
MW-21	4/15/2003	ND<10	FALSE
MW-21	10/16/2003	ND<10	FALSE
MW-21	3/25/2004	ND<10	FALSE
MW-21	10/18/2006	ND<10	FALSE
MW-21	4/9/2007	ND<10	FALSE
MW-21	9/24/2007	ND<10	FALSE
MW-21	5/2/2008	3.2	FALSE
MW-22	12/16/1997	ND<10	FALSE
MW-22	1/14/1998	ND<10	FALSE
MW-22	2/13/1998	ND<10	FALSE
MW-22	**3/6/1998**	**15**	**TRUE**
MW-22	10/15/1998	ND<10	FALSE
MW-22	3/25/1999	ND<10	FALSE
MW-22	9/23/1999	ND<10	FALSE
MW-22	3/29/2000	ND<10	FALSE
MW-22	9/14/2000	ND<10	FALSE
MW-22	3/12/2001	ND<10	FALSE
MW-22	10/13/2001	ND<10	FALSE
MW-22	3/8/2002	ND<10	FALSE
MW-22	9/19/2002	ND<10	FALSE
MW-22	4/15/2003	ND<10	FALSE
MW-22	10/16/2003	ND<10	FALSE
MW-22	3/25/2004	ND<10	FALSE
MW-22	10/18/2006	ND<10	FALSE
MW-22	4/9/2007	ND<10	FALSE
MW-22	9/24/2007	ND<10	FALSE
MW-22	5/2/2008	ND<10	FALSE
MW-23	12/16/1997	ND<10	FALSE
MW-23	1/14/1998	ND<10	FALSE
MW-23	2/13/1998	ND<10	FALSE
MW-23	3/6/1998	ND<10	FALSE
MW-23	10/15/1998	ND<10	FALSE
MW-23	3/25/1999	ND<10	FALSE
MW-23	9/23/1999	ND<10	FALSE
MW-23	3/29/2000	ND<10	FALSE
MW-23	9/14/2000	ND<10	FALSE
MW-23	3/12/2001	ND<10	FALSE
MW-23	10/13/2001	ND<10	FALSE
MW-23	3/8/2002	ND<10	FALSE
MW-23	9/19/2002	ND<10	FALSE

MW-23	4/15/2003	ND<10	FALSE
MW-23	10/16/2003	ND<10	FALSE
MW-23	3/25/2004	ND<10	FALSE
MW-23	10/18/2006	ND<10	FALSE
MW-23	4/9/2007	ND<10	FALSE
MW-23	9/24/2007	ND<10	FALSE
MW-23	5/2/2008	ND<10	FALSE
MW-24	12/16/1997	ND<10	FALSE
MW-24	1/14/1998	ND<10	FALSE
MW-24	2/13/1998	ND<10	FALSE
MW-24	3/6/1998	ND<10	FALSE
MW-24	10/15/1998	ND<10	FALSE
MW-24	3/25/1999	ND<10	FALSE
MW-24	9/23/1999	ND<10	FALSE
MW-24	3/29/2000	ND<10	FALSE
MW-24	9/14/2000	ND<10	FALSE
MW-24	3/12/2001	ND<10	FALSE
MW-24	10/13/2001	ND<10	FALSE
MW-24	3/8/2002	ND<10	FALSE
MW-24	9/19/2002	ND<10	FALSE
MW-24	4/15/2003	ND<10	FALSE
MW-24	10/16/2003	ND<10	FALSE
MW-24	3/25/2004	ND<10	FALSE
MW-24	10/18/2006	ND<10	FALSE
MW-24	4/9/2007	ND<10	FALSE
MW-24	9/24/2007	2.4	FALSE
MW-24	5/2/2008	ND<10	FALSE
MW-25	12/16/1997	ND<10	FALSE
MW-25	1/14/1998	ND<10	FALSE
MW-25	**2/13/1998**	**19**	**TRUE**
MW-25	3/6/1998	ND<10	FALSE
MW-25	10/15/1998	ND<10	FALSE
MW-25	3/25/1999	ND<10	FALSE
MW-25	9/23/1999	ND<10	FALSE
MW-25	3/29/2000	ND<10	FALSE
MW-25	9/14/2000	ND<10	FALSE
MW-25	3/12/2001	ND<10	FALSE
MW-25	10/13/2001	ND<10	FALSE
MW-25	3/8/2002	ND<10	FALSE
MW-25	9/19/2002	ND<10	FALSE
MW-25	4/15/2003	ND<10	FALSE
MW-25	10/16/2003	ND<10	FALSE
MW-25	3/25/2004	ND<10	FALSE
MW-25	10/18/2006	ND<10	FALSE
MW-25	4/9/2007	ND<10	FALSE
MW-25	9/24/2007	ND<10	FALSE
MW-25	**5/2/2008**	**14.1**	**TRUE**
MW-25d	12/16/1997	ND<10	FALSE
MW-25d	1/14/1998	ND<10	FALSE
MW-25d	2/13/1998	ND<10	FALSE
MW-25d	3/6/1998	ND<10	FALSE
MW-25d	10/15/1998	ND<10	FALSE
MW-25d	3/25/1999	ND<10	FALSE
MW-25d	9/23/1999	ND<10	FALSE
MW-25d	3/29/2000	ND<10	FALSE
MW-25d	9/14/2000	ND<10	FALSE
MW-25d	3/12/2001	ND<10	FALSE
MW-25d	10/13/2001	ND<10	FALSE
MW-25d	3/8/2002	ND<10	FALSE
MW-25d	9/19/2002	ND<10	FALSE
MW-25d	4/15/2003	10	FALSE
MW-25d	10/16/2003	ND<10	FALSE
MW-25d	3/25/2004	ND<10	FALSE
MW-25d	10/18/2006	ND<10	FALSE
MW-25d	4/9/2007	ND<10	FALSE
MW-25d	9/24/2007	2.1	FALSE
MW-25d	5/2/2008	5.2	FALSE

Non-Parametric Tolerance Interval

Parameter: Copper, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95%
Background measurements (n) = 40
Maximum Background Concentration = 200
Minimum Coverage = 92.8%
Average Coverage = 97.561%

Location	Date	Value	Significant
MW-17	12/16/1997	ND<200	FALSE
MW-17	1/14/1998	ND<200	FALSE
MW-17	2/13/1998	ND<200	FALSE
MW-17	3/6/1998	ND<200	FALSE
MW-17	10/15/1998	ND<200	FALSE
MW-17	3/25/1999	ND<200	FALSE
MW-17	9/23/1999	ND<200	FALSE
MW-17	3/29/2000	ND<200	FALSE
MW-17	9/14/2000	ND<200	FALSE
MW-17	3/12/2001	ND<200	FALSE
MW-17	10/13/2001	ND<200	FALSE
MW-17	3/8/2002	ND<200	FALSE
MW-17	9/19/2002	ND<200	FALSE
MW-17	4/15/2003	ND<200	FALSE
MW-17	10/16/2003	ND<200	FALSE
MW-17	3/25/2004	ND<200	FALSE
MW-17	10/18/2006	ND<200	FALSE
MW-17	4/9/2007	ND<200	FALSE
MW-17	9/24/2007	ND<200	FALSE
MW-17	5/2/2008	1.9	FALSE
MW-18	12/16/1997	ND<200	FALSE
MW-18	1/14/1998	ND<200	FALSE
MW-18	2/13/1998	ND<200	FALSE
MW-18	3/6/1998	ND<200	FALSE
MW-18	10/15/1998	ND<200	FALSE
MW-18	3/25/1999	ND<200	FALSE
MW-18	9/23/1999	ND<200	FALSE
MW-18	3/29/2000	ND<200	FALSE
MW-18	9/14/2000	ND<200	FALSE
MW-18	3/12/2001	ND<200	FALSE
MW-18	10/13/2001	ND<200	FALSE
MW-18	3/8/2002	ND<200	FALSE
MW-18	9/19/2002	ND<200	FALSE
MW-18	4/15/2003	ND<200	FALSE
MW-18	10/16/2003	ND<200	FALSE
MW-18	3/25/2004	ND<200	FALSE
MW-18	10/18/2006	ND<200	FALSE
MW-18	4/9/2007	ND<200	FALSE
MW-18	9/24/2007	ND<200	FALSE
MW-18	5/2/2008	4.7	FALSE
MW-19	12/16/1997	ND<200	FALSE
MW-19	1/14/1998	ND<200	FALSE
MW-19	2/13/1998	19	FALSE
MW-19	3/6/1998	ND<200	FALSE
MW-19	10/15/1998	ND<200	FALSE
MW-19	3/25/1999	ND<200	FALSE
MW-19	9/23/1999	ND<200	FALSE
MW-19	3/29/2000	ND<200	FALSE
MW-19	9/14/2000	ND<200	FALSE
MW-19	3/12/2001	ND<200	FALSE
MW-19	10/13/2001	ND<200	FALSE
MW-19	3/8/2002	ND<200	FALSE
MW-19	9/19/2002	ND<200	FALSE
MW-19	4/15/2003	ND<200	FALSE
MW-19	10/16/2003	ND<200	FALSE
MW-19	3/25/2004	ND<200	FALSE
MW-19	10/18/2006	ND<200	FALSE
MW-19	4/9/2007	ND<200	FALSE
MW-19	9/24/2007	ND<200	FALSE
MW-19	5/2/2008	1.8	FALSE

MW-20	12/16/1997	ND<200	FALSE
MW-20	1/14/1998	ND<200	FALSE
MW-20	2/13/1998	ND<200	FALSE
MW-20	3/6/1998	ND<200	FALSE
MW-20	10/15/1998	ND<200	FALSE
MW-20	3/25/1999	ND<200	FALSE
MW-20	9/23/1999	ND<200	FALSE
MW-20	3/29/2000	ND<200	FALSE
MW-20	9/14/2000	ND<200	FALSE
MW-20	3/12/2001	ND<200	FALSE
MW-20	10/13/2001	ND<200	FALSE
MW-20	3/8/2002	ND<200	FALSE
MW-20	9/19/2002	ND<200	FALSE
MW-20	4/15/2003	ND<200	FALSE
MW-20	10/16/2003	ND<200	FALSE
MW-20	3/25/2004	ND<200	FALSE
MW-20	10/18/2006	ND<200	FALSE
MW-20	4/9/2007	ND<200	FALSE
MW-20	9/24/2007	1	FALSE
MW-20	5/2/2008	0.6	FALSE
MW-21	12/16/1997	ND<200	FALSE
MW-21	1/14/1998	ND<200	FALSE
MW-21	2/13/1998	ND<200	FALSE
MW-21	3/6/1998	ND<200	FALSE
MW-21	10/15/1998	ND<200	FALSE
MW-21	3/25/1999	ND<200	FALSE
MW-21	9/23/1999	ND<200	FALSE
MW-21	3/29/2000	ND<200	FALSE
MW-21	9/14/2000	ND<200	FALSE
MW-21	3/12/2001	ND<200	FALSE
MW-21	10/13/2001	ND<200	FALSE
MW-21	3/8/2002	ND<200	FALSE
MW-21	9/19/2002	ND<200	FALSE
MW-21	4/15/2003	ND<200	FALSE
MW-21	10/16/2003	ND<200	FALSE
MW-21	3/25/2004	ND<200	FALSE
MW-21	10/18/2006	ND<200	FALSE
MW-21	4/9/2007	ND<200	FALSE
MW-21	9/24/2007	ND<200	FALSE
MW-21	5/2/2008	2.2	FALSE
MW-22	12/16/1997	ND<200	FALSE
MW-22	1/14/1998	ND<200	FALSE
MW-22	2/13/1998	ND<200	FALSE
MW-22	3/6/1998	ND<200	FALSE
MW-22	10/15/1998	ND<200	FALSE
MW-22	3/25/1999	ND<200	FALSE
MW-22	9/23/1999	ND<200	FALSE
MW-22	3/29/2000	ND<200	FALSE
MW-22	9/14/2000	ND<200	FALSE
MW-22	3/12/2001	ND<200	FALSE
MW-22	10/13/2001	ND<200	FALSE
MW-22	3/8/2002	ND<200	FALSE
MW-22	9/19/2002	ND<200	FALSE
MW-22	4/15/2003	ND<200	FALSE
MW-22	10/16/2003	ND<200	FALSE
MW-22	3/25/2004	ND<200	FALSE
MW-22	10/18/2006	ND<200	FALSE
MW-22	4/9/2007	ND<200	FALSE
MW-22	9/24/2007	ND<200	FALSE
MW-22	5/2/2008	ND<200	FALSE
MW-23	12/16/1997	ND<200	FALSE
MW-23	1/14/1998	ND<200	FALSE
MW-23	2/13/1998	ND<200	FALSE
MW-23	3/6/1998	ND<200	FALSE
MW-23	10/15/1998	ND<200	FALSE
MW-23	3/25/1999	ND<200	FALSE
MW-23	9/23/1999	ND<200	FALSE
MW-23	3/29/2000	ND<200	FALSE
MW-23	9/14/2000	ND<200	FALSE
MW-23	3/12/2001	ND<200	FALSE
MW-23	10/13/2001	ND<200	FALSE
MW-23	3/8/2002	ND<200	FALSE
MW-23	9/19/2002	ND<200	FALSE

MW-23	4/15/2003	ND<200	FALSE
MW-23	10/16/2003	ND<200	FALSE
MW-23	3/25/2004	ND<200	FALSE
MW-23	10/18/2006	ND<200	FALSE
MW-23	4/9/2007	ND<200	FALSE
MW-23	9/24/2007	ND<200	FALSE
MW-23	5/2/2008	0.8	FALSE
MW-24	12/16/1997	ND<200	FALSE
MW-24	1/14/1998	ND<200	FALSE
MW-24	2/13/1998	ND<200	FALSE
MW-24	3/6/1998	ND<200	FALSE
MW-24	10/15/1998	ND<200	FALSE
MW-24	3/25/1999	ND<200	FALSE
MW-24	9/23/1999	ND<200	FALSE
MW-24	3/29/2000	ND<200	FALSE
MW-24	9/14/2000	ND<200	FALSE
MW-24	3/12/2001	ND<200	FALSE
MW-24	10/13/2001	ND<200	FALSE
MW-24	3/8/2002	ND<200	FALSE
MW-24	9/19/2002	ND<200	FALSE
MW-24	4/15/2003	ND<200	FALSE
MW-24	10/16/2003	ND<200	FALSE
MW-24	3/25/2004	ND<200	FALSE
MW-24	10/18/2006	ND<200	FALSE
MW-24	4/9/2007	ND<200	FALSE
MW-24	9/24/2007	ND<200	FALSE
MW-24	5/2/2008	11.1	FALSE
MW-25	12/16/1997	ND<200	FALSE
MW-25	1/14/1998	ND<200	FALSE
MW-25	2/13/1998	ND<200	FALSE
MW-25	3/6/1998	ND<200	FALSE
MW-25	10/15/1998	ND<200	FALSE
MW-25	3/25/1999	ND<200	FALSE
MW-25	9/23/1999	ND<200	FALSE
MW-25	3/29/2000	ND<200	FALSE
MW-25	9/14/2000	ND<200	FALSE
MW-25	3/12/2001	ND<200	FALSE
MW-25	10/13/2001	ND<200	FALSE
MW-25	3/8/2002	ND<200	FALSE
MW-25	9/19/2002	ND<200	FALSE
MW-25	4/15/2003	ND<200	FALSE
MW-25	10/16/2003	ND<200	FALSE
MW-25	3/25/2004	ND<200	FALSE
MW-25	10/18/2006	ND<200	FALSE
MW-25	4/9/2007	ND<200	FALSE
MW-25	9/24/2007	ND<200	FALSE
MW-25	5/2/2008	2.9	FALSE
MW-25d	12/16/1997	ND<200	FALSE
MW-25d	1/14/1998	ND<200	FALSE
MW-25d	2/13/1998	ND<200	FALSE
MW-25d	3/6/1998	ND<200	FALSE
MW-25d	10/15/1998	ND<200	FALSE
MW-25d	3/25/1999	ND<200	FALSE
MW-25d	9/23/1999	ND<200	FALSE
MW-25d	3/29/2000	ND<200	FALSE
MW-25d	9/14/2000	ND<200	FALSE
MW-25d	3/12/2001	ND<200	FALSE
MW-25d	10/13/2001	ND<200	FALSE
MW-25d	3/8/2002	ND<200	FALSE
MW-25d	9/19/2002	ND<200	FALSE
MW-25d	4/15/2003	ND<200	FALSE
MW-25d	10/16/2003	ND<200	FALSE
MW-25d	3/25/2004	ND<200	FALSE
MW-25d	10/18/2006	ND<200	FALSE
MW-25d	4/9/2007	ND<200	FALSE
MW-25d	9/24/2007	ND<200	FALSE
MW-25d	5/2/2008	ND<200	FALSE

Non-Parametric Tolerance Interval

Parameter: Nickel, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 95.4167%
Background measurements (n) = 40
Maximum Background Concentration = 50
Minimum Coverage = 92.8%
Average Coverage = 97.561%

Location	Date	Value	Significant
MW-17	12/16/1997	ND<50	FALSE
MW-17	1/14/1998	ND<50	FALSE
MW-17	2/13/1998	ND<50	FALSE
MW-17	3/6/1998	ND<50	FALSE
MW-17	10/15/1998	ND<50	FALSE
MW-17	3/25/1999	ND<50	FALSE
MW-17	9/23/1999	ND<50	FALSE
MW-17	3/29/2000	ND<50	FALSE
MW-17	9/14/2000	ND<50	FALSE
MW-17	3/12/2001	ND<50	FALSE
MW-17	10/13/2001	ND<50	FALSE
MW-17	3/8/2002	ND<50	FALSE
MW-17	9/19/2002	ND<50	FALSE
MW-17	4/15/2003	ND<50	FALSE
MW-17	10/16/2003	ND<50	FALSE
MW-17	3/25/2004	ND<50	FALSE
MW-17	10/18/2006	ND<50	FALSE
MW-17	4/9/2007	ND<50	FALSE
MW-17	9/24/2007	ND<50	FALSE
MW-17	**5/2/2008**	**87.7**	**TRUE**
MW-18	12/16/1997	ND<50	FALSE
MW-18	1/14/1998	ND<50	FALSE
MW-18	2/13/1998	ND<50	FALSE
MW-18	3/6/1998	ND<50	FALSE
MW-18	10/15/1998	ND<50	FALSE
MW-18	3/25/1999	ND<50	FALSE
MW-18	9/23/1999	ND<50	FALSE
MW-18	3/29/2000	ND<50	FALSE
MW-18	9/14/2000	ND<50	FALSE
MW-18	3/12/2001	ND<50	FALSE
MW-18	10/13/2001	ND<50	FALSE
MW-18	3/8/2002	ND<50	FALSE
MW-18	9/19/2002	ND<50	FALSE
MW-18	4/15/2003	ND<50	FALSE
MW-18	10/16/2003	ND<50	FALSE
MW-18	3/25/2004	ND<50	FALSE
MW-18	10/18/2006	ND<50	FALSE
MW-18	4/9/2007	ND<50	FALSE
MW-18	9/24/2007	ND<50	FALSE
MW-18	5/2/2008	25.4	FALSE
MW-19	12/16/1997	ND<50	FALSE
MW-19	1/14/1998	ND<50	FALSE
MW-19	2/13/1998	ND<50	FALSE
MW-19	3/6/1998	ND<50	FALSE
MW-19	10/15/1998	ND<50	FALSE
MW-19	3/25/1999	ND<50	FALSE
MW-19	9/23/1999	ND<50	FALSE
MW-19	3/29/2000	ND<50	FALSE
MW-19	9/14/2000	ND<50	FALSE
MW-19	3/12/2001	ND<50	FALSE
MW-19	10/13/2001	ND<50	FALSE
MW-19	3/8/2002	ND<50	FALSE
MW-19	9/19/2002	ND<50	FALSE
MW-19	4/15/2003	ND<50	FALSE
MW-19	10/16/2003	ND<50	FALSE
MW-19	3/25/2004	ND<50	FALSE
MW-19	10/18/2006	ND<50	FALSE
MW-19	4/9/2007	ND<50	FALSE
MW-19	9/24/2007	ND<50	FALSE
MW-19	5/2/2008	9.6	FALSE

MW-20	12/16/1997	ND<50	FALSE
MW-20	1/14/1998	ND<50	FALSE
MW-20	2/13/1998	ND<50	FALSE
MW-20	3/6/1998	ND<50	FALSE
MW-20	10/15/1998	ND<50	FALSE
MW-20	3/25/1999	ND<50	FALSE
MW-20	9/23/1999	ND<50	FALSE
MW-20	3/29/2000	ND<50	FALSE
MW-20	9/14/2000	ND<50	FALSE
MW-20	3/12/2001	ND<50	FALSE
MW-20	10/13/2001	ND<50	FALSE
MW-20	3/8/2002	ND<50	FALSE
MW-20	9/19/2002	ND<50	FALSE
MW-20	4/15/2003	ND<50	FALSE
MW-20	10/16/2003	ND<50	FALSE
MW-20	3/25/2004	ND<50	FALSE
MW-20	10/18/2006	ND<50	FALSE
MW-20	4/9/2007	ND<50	FALSE
MW-20	9/24/2007	ND<50	FALSE
MW-20	5/2/2008	5.6	FALSE
MW-21	12/16/1997	ND<50	FALSE
MW-21	1/14/1998	ND<50	FALSE
MW-21	2/13/1998	ND<50	FALSE
MW-21	3/6/1998	ND<50	FALSE
MW-21	10/15/1998	ND<50	FALSE
MW-21	3/25/1999	ND<50	FALSE
MW-21	9/23/1999	ND<50	FALSE
MW-21	3/29/2000	ND<50	FALSE
MW-21	9/14/2000	ND<50	FALSE
MW-21	3/12/2001	ND<50	FALSE
MW-21	10/13/2001	ND<50	FALSE
MW-21	3/8/2002	ND<50	FALSE
MW-21	9/19/2002	ND<50	FALSE
MW-21	4/15/2003	ND<50	FALSE
MW-21	10/16/2003	ND<50	FALSE
MW-21	3/25/2004	ND<50	FALSE
MW-21	10/18/2006	ND<50	FALSE
MW-21	4/9/2007	ND<50	FALSE
MW-21	9/24/2007	ND<50	FALSE
MW-21	5/2/2008	3	FALSE
MW-22	12/16/1997	ND<50	FALSE
MW-22	1/14/1998	ND<50	FALSE
MW-22	2/13/1998	ND<50	FALSE
MW-22	3/6/1998	ND<50	FALSE
MW-22	10/15/1998	ND<50	FALSE
MW-22	3/25/1999	ND<50	FALSE
MW-22	9/23/1999	ND<50	FALSE
MW-22	3/29/2000	ND<50	FALSE
MW-22	9/14/2000	ND<50	FALSE
MW-22	3/12/2001	ND<50	FALSE
MW-22	10/13/2001	ND<50	FALSE
MW-22	3/8/2002	ND<50	FALSE
MW-22	9/19/2002	ND<50	FALSE
MW-22	4/15/2003	ND<50	FALSE
MW-22	10/16/2003	ND<50	FALSE
MW-22	3/25/2004	ND<50	FALSE
MW-22	10/18/2006	ND<50	FALSE
MW-22	4/9/2007	ND<50	FALSE
MW-22	9/24/2007	ND<50	FALSE
MW-22	5/2/2008	ND<50	FALSE
MW-23	12/16/1997	ND<50	FALSE
MW-23	1/14/1998	ND<50	FALSE
MW-23	2/13/1998	ND<50	FALSE
MW-23	3/6/1998	ND<50	FALSE
MW-23	10/15/1998	ND<50	FALSE
MW-23	3/25/1999	ND<50	FALSE
MW-23	9/23/1999	ND<50	FALSE
MW-23	3/29/2000	ND<50	FALSE
MW-23	9/14/2000	ND<50	FALSE
MW-23	3/12/2001	ND<50	FALSE
MW-23	10/13/2001	ND<50	FALSE
MW-23	3/8/2002	ND<50	FALSE
MW-23	9/19/2002	ND<50	FALSE

MW-23	4/15/2003	ND<50	FALSE
MW-23	10/16/2003	ND<50	FALSE
MW-23	3/25/2004	ND<50	FALSE
MW-23	10/18/2006	ND<50	FALSE
MW-23	4/9/2007	ND<50	FALSE
MW-23	9/24/2007	ND<50	FALSE
MW-23	5/2/2008	ND<50	FALSE
MW-24	12/16/1997	ND<50	FALSE
MW-24	1/14/1998	ND<50	FALSE
MW-24	2/13/1998	ND<50	FALSE
MW-24	3/6/1998	ND<50	FALSE
MW-24	10/15/1998	ND<50	FALSE
MW-24	3/25/1999	ND<50	FALSE
MW-24	9/23/1999	ND<50	FALSE
MW-24	3/29/2000	ND<50	FALSE
MW-24	9/14/2000	ND<50	FALSE
MW-24	3/12/2001	ND<50	FALSE
MW-24	10/13/2001	ND<50	FALSE
MW-24	3/8/2002	ND<50	FALSE
MW-24	9/19/2002	ND<50	FALSE
MW-24	4/15/2003	ND<50	FALSE
MW-24	10/16/2003	ND<50	FALSE
MW-24	3/25/2004	ND<50	FALSE
MW-24	10/18/2006	ND<50	FALSE
MW-24	4/9/2007	ND<50	FALSE
MW-24	9/24/2007	9.4	FALSE
MW-24	5/2/2008	5.6	FALSE
MW-25	12/16/1997	ND<50	FALSE
MW-25	1/14/1998	ND<50	FALSE
MW-25	2/13/1998	ND<50	FALSE
MW-25	3/6/1998	ND<50	FALSE
MW-25	10/15/1998	ND<50	FALSE
MW-25	3/25/1999	ND<50	FALSE
MW-25	9/23/1999	ND<50	FALSE
MW-25	3/29/2000	ND<50	FALSE
MW-25	9/14/2000	ND<50	FALSE
MW-25	3/12/2001	ND<50	FALSE
MW-25	10/13/2001	ND<50	FALSE
MW-25	3/8/2002	ND<50	FALSE
MW-25	9/19/2002	ND<50	FALSE
MW-25	4/15/2003	ND<50	FALSE
MW-25	10/16/2003	ND<50	FALSE
MW-25	3/25/2004	ND<50	FALSE
MW-25	10/18/2006	ND<50	FALSE
MW-25	4/9/2007	ND<50	FALSE
MW-25	9/24/2007	ND<50	FALSE
MW-25	5/2/2008	14.8	FALSE
MW-25d	12/16/1997	ND<50	FALSE
MW-25d	1/14/1998	ND<50	FALSE
MW-25d	2/13/1998	ND<50	FALSE
MW-25d	3/6/1998	ND<50	FALSE
MW-25d	10/15/1998	ND<50	FALSE
MW-25d	3/25/1999	ND<50	FALSE
MW-25d	9/23/1999	ND<50	FALSE
MW-25d	3/29/2000	ND<50	FALSE
MW-25d	9/14/2000	ND<50	FALSE
MW-25d	3/12/2001	ND<50	FALSE
MW-25d	10/13/2001	ND<50	FALSE
MW-25d	3/8/2002	ND<50	FALSE
MW-25d	9/19/2002	ND<50	FALSE
MW-25d	4/15/2003	ND<50	FALSE
MW-25d	10/16/2003	ND<50	FALSE
MW-25d	3/25/2004	ND<50	FALSE
MW-25d	10/18/2006	ND<50	FALSE
MW-25d	4/9/2007	ND<50	FALSE
MW-25d	9/24/2007	ND<50	FALSE
MW-25d	5/2/2008	4.5	FALSE

Non-Parametric Tolerance Interval

Parameter: Vanadium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 94.4444%
Background measurements (n) = 42
Maximum Background Concentration = 40
Minimum Coverage = 93.1%
Average Coverage = 97.6744%

Location	Date	Value	Significant
MW-17	12/16/1997	ND<40	FALSE
MW-17	1/14/1998	ND<40	FALSE
MW-17	2/13/1998	ND<40	FALSE
MW-17	3/6/1998	ND<40	FALSE
MW-17	10/15/1998	ND<40	FALSE
MW-17	3/25/1999	ND<40	FALSE
MW-17	9/23/1999	ND<40	FALSE
MW-17	3/29/2000	ND<40	FALSE
MW-17	9/14/2000	ND<40	FALSE
MW-17	3/12/2001	ND<40	FALSE
MW-17	10/13/2001	ND<40	FALSE
MW-17	3/8/2002	ND<40	FALSE
MW-17	9/19/2002	ND<40	FALSE
MW-17	4/15/2003	ND<40	FALSE
MW-17	10/16/2003	ND<40	FALSE
MW-17	3/25/2004	ND<40	FALSE
MW-17	10/22/2004	ND<40	FALSE
MW-17	10/18/2006	ND<40	FALSE
MW-17	4/9/2007	ND<40	FALSE
MW-17	9/24/2007	1.4	FALSE
MW-17	5/2/2008	2	FALSE
MW-18	12/16/1997	ND<40	FALSE
MW-18	1/14/1998	ND<40	FALSE
MW-18	2/13/1998	ND<40	FALSE
MW-18	3/6/1998	ND<40	FALSE
MW-18	10/15/1998	ND<40	FALSE
MW-18	3/25/1999	ND<40	FALSE
MW-18	9/23/1999	ND<40	FALSE
MW-18	3/29/2000	ND<40	FALSE
MW-18	9/14/2000	ND<40	FALSE
MW-18	3/12/2001	ND<40	FALSE
MW-18	10/13/2001	ND<40	FALSE
MW-18	3/8/2002	ND<40	FALSE
MW-18	9/19/2002	ND<40	FALSE
MW-18	4/15/2003	ND<40	FALSE
MW-18	10/16/2003	ND<40	FALSE
MW-18	3/25/2004	ND<40	FALSE
MW-18	10/22/2004	ND<40	FALSE
MW-18	10/18/2006	ND<40	FALSE
MW-18	4/9/2007	ND<40	FALSE
MW-18	9/24/2007	9.9	FALSE
MW-18	5/2/2008	2.1	FALSE
MW-19	12/16/1997	ND<40	FALSE
MW-19	1/14/1998	ND<40	FALSE
MW-19	**2/13/1998**	**64**	**TRUE**
MW-19	3/6/1998	ND<40	FALSE
MW-19	10/15/1998	ND<40	FALSE
MW-19	3/25/1999	ND<40	FALSE
MW-19	9/23/1999	ND<40	FALSE
MW-19	3/29/2000	ND<40	FALSE
MW-19	9/14/2000	ND<40	FALSE
MW-19	3/12/2001	ND<40	FALSE
MW-19	10/13/2001	ND<40	FALSE
MW-19	3/8/2002	ND<40	FALSE
MW-19	9/19/2002	ND<40	FALSE
MW-19	4/15/2003	ND<40	FALSE
MW-19	10/16/2003	ND<40	FALSE
MW-19	3/25/2004	ND<40	FALSE
MW-19	10/22/2004	ND<40	FALSE
MW-19	10/18/2006	ND<40	FALSE
MW-19	4/9/2007	ND<40	FALSE
MW-19	9/24/2007	3.9	FALSE

MW-19	5/2/2008	5	FALSE
MW-20	12/16/1997	ND<40	FALSE
MW-20	1/14/1998	ND<40	FALSE
MW-20	2/13/1998	ND<40	FALSE
MW-20	3/6/1998	ND<40	FALSE
MW-20	10/15/1998	ND<40	FALSE
MW-20	3/25/1999	ND<40	FALSE
MW-20	9/23/1999	ND<40	FALSE
MW-20	3/29/2000	ND<40	FALSE
MW-20	9/14/2000	ND<40	FALSE
MW-20	3/12/2001	ND<40	FALSE
MW-20	10/13/2001	ND<40	FALSE
MW-20	3/8/2002	ND<40	FALSE
MW-20	9/19/2002	ND<40	FALSE
MW-20	4/15/2003	ND<40	FALSE
MW-20	10/16/2003	ND<40	FALSE
MW-20	3/25/2004	ND<40	FALSE
MW-20	10/22/2004	ND<40	FALSE
MW-20	10/18/2006	ND<40	FALSE
MW-20	4/9/2007	ND<40	FALSE
MW-20	9/24/2007	2.3	FALSE
MW-20	5/2/2008	5.1	FALSE
MW-21	12/16/1997	ND<40	FALSE
MW-21	1/14/1998	ND<40	FALSE
MW-21	2/13/1998	ND<40	FALSE
MW-21	3/6/1998	ND<40	FALSE
MW-21	10/15/1998	ND<40	FALSE
MW-21	3/25/1999	ND<40	FALSE
MW-21	9/23/1999	ND<40	FALSE
MW-21	3/29/2000	ND<40	FALSE
MW-21	9/14/2000	ND<40	FALSE
MW-21	3/12/2001	ND<40	FALSE
MW-21	10/13/2001	ND<40	FALSE
MW-21	3/8/2002	ND<40	FALSE
MW-21	9/19/2002	ND<40	FALSE
MW-21	4/15/2003	ND<40	FALSE
MW-21	10/16/2003	ND<40	FALSE
MW-21	3/25/2004	ND<40	FALSE
MW-21	10/22/2004	ND<40	FALSE
MW-21	10/18/2006	ND<40	FALSE
MW-21	4/9/2007	ND<40	FALSE
MW-21	9/24/2007	ND<40	FALSE
MW-21	5/2/2008	2.6	FALSE
MW-22	12/16/1997	ND<40	FALSE
MW-22	1/14/1998	ND<40	FALSE
MW-22	2/13/1998	ND<40	FALSE
MW-22	3/6/1998	ND<40	FALSE
MW-22	10/15/1998	ND<40	FALSE
MW-22	3/25/1999	ND<40	FALSE
MW-22	9/23/1999	ND<40	FALSE
MW-22	3/29/2000	ND<40	FALSE
MW-22	9/14/2000	ND<40	FALSE
MW-22	3/12/2001	ND<40	FALSE
MW-22	10/13/2001	ND<40	FALSE
MW-22	3/8/2002	ND<40	FALSE
MW-22	9/19/2002	ND<40	FALSE
MW-22	4/15/2003	ND<40	FALSE
MW-22	10/16/2003	ND<40	FALSE
MW-22	3/25/2004	ND<40	FALSE
MW-22	10/22/2004	ND<40	FALSE
MW-22	10/18/2006	ND<40	FALSE
MW-22	4/9/2007	ND<40	FALSE
MW-22	9/24/2007	ND<40	FALSE
MW-22	5/2/2008	ND<40	FALSE
MW-23	12/16/1997	ND<40	FALSE
MW-23	1/14/1998	ND<40	FALSE
MW-23	2/13/1998	ND<40	FALSE
MW-23	3/6/1998	ND<40	FALSE
MW-23	10/15/1998	ND<40	FALSE
MW-23	3/25/1999	ND<40	FALSE
MW-23	9/23/1999	ND<40	FALSE

MW-23	3/29/2000	ND<40	FALSE
MW-23	9/14/2000	ND<40	FALSE
MW-23	3/12/2001	ND<40	FALSE
MW-23	10/13/2001	ND<40	FALSE
MW-23	3/8/2002	ND<40	FALSE
MW-23	9/19/2002	ND<40	FALSE
MW-23	4/15/2003	ND<40	FALSE
MW-23	10/16/2003	ND<40	FALSE
MW-23	3/25/2004	ND<40	FALSE
MW-23	10/22/2004	ND<40	FALSE
MW-23	10/18/2006	ND<40	FALSE
MW-23	4/9/2007	ND<40	FALSE
MW-23	9/24/2007	ND<40	FALSE
MW-23	5/2/2008	ND<40	FALSE
MW-24	12/16/1997	ND<40	FALSE
MW-24	1/14/1998	ND<40	FALSE
MW-24	2/13/1998	ND<40	FALSE
MW-24	3/6/1998	ND<40	FALSE
MW-24	10/15/1998	ND<40	FALSE
MW-24	3/25/1999	ND<40	FALSE
MW-24	9/23/1999	ND<40	FALSE
MW-24	3/29/2000	ND<40	FALSE
MW-24	9/14/2000	ND<40	FALSE
MW-24	3/12/2001	ND<40	FALSE
MW-24	10/13/2001	ND<40	FALSE
MW-24	3/8/2002	ND<40	FALSE
MW-24	9/19/2002	ND<40	FALSE
MW-24	4/15/2003	ND<40	FALSE
MW-24	10/16/2003	ND<40	FALSE
MW-24	3/25/2004	ND<40	FALSE
MW-24	10/22/2004	ND<40	FALSE
MW-24	10/18/2006	ND<40	FALSE
MW-24	4/9/2007	ND<40	FALSE
MW-24	9/24/2007	ND<40	FALSE
MW-24	5/2/2008	ND<40	FALSE
MW-25	12/16/1997	ND<40	FALSE
MW-25	1/14/1998	ND<40	FALSE
MW-25	2/13/1998	ND<40	FALSE
MW-25	3/6/1998	ND<40	FALSE
MW-25	10/15/1998	ND<40	FALSE
MW-25	3/25/1999	ND<40	FALSE
MW-25	9/23/1999	ND<40	FALSE
MW-25	3/29/2000	ND<40	FALSE
MW-25	9/14/2000	ND<40	FALSE
MW-25	3/12/2001	ND<40	FALSE
MW-25	10/13/2001	ND<40	FALSE
MW-25	3/8/2002	ND<40	FALSE
MW-25	9/19/2002	ND<40	FALSE
MW-25	4/15/2003	ND<40	FALSE
MW-25	10/16/2003	ND<40	FALSE
MW-25	3/25/2004	ND<40	FALSE
MW-25	10/22/2004	ND<40	FALSE
MW-25	10/18/2006	ND<40	FALSE
MW-25	4/9/2007	ND<40	FALSE
MW-25	9/24/2007	ND<40	FALSE
MW-25	5/2/2008	2.1	FALSE
MW-25d	12/16/1997	ND<40	FALSE
MW-25d	1/14/1998	ND<40	FALSE
MW-25d	2/13/1998	ND<40	FALSE
MW-25d	3/6/1998	ND<40	FALSE
MW-25d	10/15/1998	ND<40	FALSE
MW-25d	3/25/1999	ND<40	FALSE
MW-25d	9/23/1999	ND<40	FALSE
MW-25d	3/29/2000	ND<40	FALSE
MW-25d	9/14/2000	ND<40	FALSE
MW-25d	3/12/2001	ND<40	FALSE
MW-25d	10/13/2001	ND<40	FALSE
MW-25d	3/8/2002	ND<40	FALSE
MW-25d	9/19/2002	ND<40	FALSE
MW-25d	4/15/2003	ND<40	FALSE
MW-25d	10/16/2003	ND<40	FALSE
MW-25d	3/25/2004	ND<40	FALSE
MW-25d	10/22/2004	ND<40	FALSE

MW-25d	10/18/2006	ND<40	FALSE
MW-25d	4/9/2007	ND<40	FALSE
MW-25d	9/24/2007	2.8	FALSE
MW-25d	5/2/2008	3.6	FALSE

Non-Parametric Tolerance Interval

Parameter: Zinc, total

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 91.6667%
Background measurements (n) = 40
Maximum Background Concentration = 50
Minimum Coverage = 92.8%
Average Coverage = 97.561%

Location	Date	Value	Significant
MW-17	12/16/1997	ND<50	FALSE
MW-17	1/14/1998	ND<50	FALSE
MW-17	2/13/1998	ND<50	FALSE
MW-17	3/6/1998	ND<50	FALSE
MW-17	10/15/1998	ND<50	FALSE
MW-17	3/25/1999	ND<50	FALSE
MW-17	9/23/1999	ND<50	FALSE
MW-17	3/29/2000	ND<50	FALSE
MW-17	9/14/2000	ND<50	FALSE
MW-17	3/12/2001	ND<50	FALSE
MW-17	10/13/2001	ND<50	FALSE
MW-17	3/8/2002	ND<50	FALSE
MW-17	9/19/2002	ND<50	FALSE
MW-17	4/15/2003	ND<50	FALSE
MW-17	10/16/2003	ND<50	FALSE
MW-17	3/25/2004	ND<50	FALSE
MW-17	10/18/2006	ND<50	FALSE
MW-17	4/9/2007	ND<50	FALSE
MW-17	9/24/2007	2.3	FALSE
MW-17	5/2/2008	5.8	FALSE
MW-18	12/16/1997	ND<50	FALSE
MW-18	1/14/1998	ND<50	FALSE
MW-18	2/13/1998	ND<50	FALSE
MW-18	**3/6/1998**	**56**	**TRUE**
MW-18	10/15/1998	ND<50	FALSE
MW-18	3/25/1999	ND<50	FALSE
MW-18	9/23/1999	ND<50	FALSE
MW-18	3/29/2000	ND<50	FALSE
MW-18	9/14/2000	ND<50	FALSE
MW-18	3/12/2001	ND<50	FALSE
MW-18	10/13/2001	50	FALSE
MW-18	3/8/2002	ND<50	FALSE
MW-18	9/19/2002	ND<50	FALSE
MW-18	4/15/2003	ND<50	FALSE
MW-18	10/16/2003	ND<50	FALSE
MW-18	3/25/2004	ND<50	FALSE
MW-18	10/18/2006	ND<50	FALSE
MW-18	4/9/2007	ND<50	FALSE
MW-18	9/24/2007	2.1	FALSE
MW-18	5/2/2008	5.4	FALSE
MW-19	12/16/1997	ND<50	FALSE
MW-19	1/14/1998	ND<50	FALSE
MW-19	**2/13/1998**	**54**	**TRUE**
MW-19	3/6/1998	ND<50	FALSE
MW-19	10/15/1998	ND<50	FALSE
MW-19	3/25/1999	ND<50	FALSE
MW-19	9/23/1999	ND<50	FALSE
MW-19	3/29/2000	ND<50	FALSE
MW-19	9/14/2000	ND<50	FALSE
MW-19	3/12/2001	ND<50	FALSE
MW-19	10/13/2001	ND<50	FALSE
MW-19	3/8/2002	ND<50	FALSE
MW-19	9/19/2002	ND<50	FALSE
MW-19	4/15/2003	ND<50	FALSE
MW-19	10/16/2003	ND<50	FALSE
MW-19	3/25/2004	ND<50	FALSE
MW-19	10/18/2006	ND<50	FALSE
MW-19	4/9/2007	ND<50	FALSE
MW-19	9/24/2007	1	FALSE
MW-19	5/2/2008	2.2	FALSE

MW-20	12/16/1997	ND<50	FALSE
MW-20	1/14/1998	ND<50	FALSE
MW-20	2/13/1998	ND<50	FALSE
MW-20	3/6/1998	ND<50	FALSE
MW-20	10/15/1998	ND<50	FALSE
MW-20	3/25/1999	ND<50	FALSE
MW-20	9/23/1999	ND<50	FALSE
MW-20	3/29/2000	ND<50	FALSE
MW-20	9/14/2000	ND<50	FALSE
MW-20	3/12/2001	ND<50	FALSE
MW-20	10/13/2001	ND<50	FALSE
MW-20	3/8/2002	ND<50	FALSE
MW-20	9/19/2002	ND<50	FALSE
MW-20	4/15/2003	ND<50	FALSE
MW-20	10/16/2003	ND<50	FALSE
MW-20	3/25/2004	ND<50	FALSE
MW-20	10/18/2006	ND<50	FALSE
MW-20	4/9/2007	ND<50	FALSE
MW-20	9/24/2007	ND<50	FALSE
MW-20	5/2/2008	ND<50	FALSE
MW-21	12/16/1997	ND<50	FALSE
MW-21	1/14/1998	ND<50	FALSE
MW-21	2/13/1998	ND<50	FALSE
MW-21	3/6/1998	ND<50	FALSE
MW-21	10/15/1998	ND<50	FALSE
MW-21	3/25/1999	ND<50	FALSE
MW-21	9/23/1999	ND<50	FALSE
MW-21	3/29/2000	ND<50	FALSE
MW-21	9/14/2000	ND<50	FALSE
MW-21	3/12/2001	ND<50	FALSE
MW-21	10/13/2001	ND<50	FALSE
MW-21	3/8/2002	ND<50	FALSE
MW-21	9/19/2002	ND<50	FALSE
MW-21	4/15/2003	ND<50	FALSE
MW-21	10/16/2003	ND<50	FALSE
MW-21	3/25/2004	ND<50	FALSE
MW-21	10/18/2006	ND<50	FALSE
MW-21	4/9/2007	ND<50	FALSE
MW-21	9/24/2007	2.4	FALSE
MW-21	5/2/2008	2.5	FALSE
MW-22	12/16/1997	ND<50	FALSE
MW-22	1/14/1998	ND<50	FALSE
MW-22	2/13/1998	ND<50	FALSE
MW-22	3/6/1998	ND<50	FALSE
MW-22	10/15/1998	ND<50	FALSE
MW-22	3/25/1999	ND<50	FALSE
MW-22	9/23/1999	ND<50	FALSE
MW-22	3/29/2000	ND<50	FALSE
MW-22	9/14/2000	ND<50	FALSE
MW-22	3/12/2001	ND<50	FALSE
MW-22	10/13/2001	ND<50	FALSE
MW-22	3/8/2002	ND<50	FALSE
MW-22	9/19/2002	ND<50	FALSE
MW-22	4/15/2003	ND<50	FALSE
MW-22	10/16/2003	ND<50	FALSE
MW-22	3/25/2004	ND<50	FALSE
MW-22	10/18/2006	ND<50	FALSE
MW-22	4/9/2007	ND<50	FALSE
MW-22	9/24/2007	1.3	FALSE
MW-22	5/2/2008	1	FALSE
MW-23	12/16/1997	ND<50	FALSE
MW-23	1/14/1998	ND<50	FALSE
MW-23	2/13/1998	ND<50	FALSE
MW-23	3/6/1998	ND<50	FALSE
MW-23	10/15/1998	ND<50	FALSE
MW-23	3/25/1999	ND<50	FALSE
MW-23	9/23/1999	ND<50	FALSE
MW-23	3/29/2000	ND<50	FALSE
MW-23	9/14/2000	ND<50	FALSE
MW-23	3/12/2001	ND<50	FALSE
MW-23	10/13/2001	ND<50	FALSE
MW-23	3/8/2002	ND<50	FALSE
MW-23	9/19/2002	ND<50	FALSE

MW-23	4/15/2003	ND<50	FALSE
MW-23	10/16/2003	ND<50	FALSE
MW-23	3/25/2004	ND<50	FALSE
MW-23	10/18/2006	ND<50	FALSE
MW-23	4/9/2007	ND<50	FALSE
MW-23	9/24/2007	ND<50	FALSE
MW-23	5/2/2008	1	FALSE
MW-24	12/16/1997	ND<50	FALSE
MW-24	1/14/1998	ND<50	FALSE
MW-24	2/13/1998	ND<50	FALSE
MW-24	3/6/1998	ND<50	FALSE
MW-24	10/15/1998	ND<50	FALSE
MW-24	3/25/1999	ND<50	FALSE
MW-24	9/23/1999	ND<50	FALSE
MW-24	3/29/2000	ND<50	FALSE
MW-24	9/14/2000	ND<50	FALSE
MW-24	3/12/2001	ND<50	FALSE
MW-24	10/13/2001	ND<50	FALSE
MW-24	3/8/2002	ND<50	FALSE
MW-24	9/19/2002	ND<50	FALSE
MW-24	4/15/2003	ND<50	FALSE
MW-24	10/16/2003	ND<50	FALSE
MW-24	3/25/2004	ND<50	FALSE
MW-24	10/18/2006	ND<50	FALSE
MW-24	4/9/2007	ND<50	FALSE
MW-24	9/24/2007	1.5	FALSE
MW-24	**5/2/2008**	**154**	**TRUE**
MW-25	12/16/1997	ND<50	FALSE
MW-25	1/14/1998	ND<50	FALSE
MW-25	**2/13/1998**	**69**	**TRUE**
MW-25	3/6/1998	ND<50	FALSE
MW-25	10/15/1998	ND<50	FALSE
MW-25	3/25/1999	ND<50	FALSE
MW-25	9/23/1999	ND<50	FALSE
MW-25	3/29/2000	ND<50	FALSE
MW-25	9/14/2000	ND<50	FALSE
MW-25	3/12/2001	ND<50	FALSE
MW-25	10/13/2001	ND<50	FALSE
MW-25	3/8/2002	ND<50	FALSE
MW-25	9/19/2002	ND<50	FALSE
MW-25	4/15/2003	ND<50	FALSE
MW-25	10/16/2003	ND<50	FALSE
MW-25	3/25/2004	ND<50	FALSE
MW-25	10/18/2006	ND<50	FALSE
MW-25	4/9/2007	ND<50	FALSE
MW-25	9/24/2007	ND<50	FALSE
MW-25	5/2/2008	2.7	FALSE
MW-25d	12/16/1997	ND<50	FALSE
MW-25d	1/14/1998	ND<50	FALSE
MW-25d	2/13/1998	ND<50	FALSE
MW-25d	3/6/1998	ND<50	FALSE
MW-25d	10/15/1998	ND<50	FALSE
MW-25d	3/25/1999	ND<50	FALSE
MW-25d	9/23/1999	ND<50	FALSE
MW-25d	3/29/2000	ND<50	FALSE
MW-25d	9/14/2000	ND<50	FALSE
MW-25d	3/12/2001	ND<50	FALSE
MW-25d	10/13/2001	ND<50	FALSE
MW-25d	3/8/2002	ND<50	FALSE
MW-25d	9/19/2002	ND<50	FALSE
MW-25d	4/15/2003	ND<50	FALSE
MW-25d	10/16/2003	ND<50	FALSE
MW-25d	3/25/2004	ND<50	FALSE
MW-25d	10/18/2006	ND<50	FALSE
MW-25d	4/9/2007	ND<50	FALSE
MW-25d	9/24/2007	ND<50	FALSE
MW-25d	5/2/2008	ND<50	FALSE

Rosner's Test for Outliers

Parameter: Chromium, total

All Locations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 10.4892

10 most extreme of 240 measurements

by order of magnitude difference from the mean

1	5/2/2008	MW-17	112	101.511
2	5/2/2008	MW-18	30.3	19.8108
3	2/13/1998	MW-25	19	8.51083
4	9/24/2007	MW-25d	2.1	-8.38917
5	9/24/2007	MW-24	2.4	-8.08917
6	5/2/2008	MW-21	3.2	-7.28917
7	5/2/2008	MW-25d	5.2	-5.28917
8	3/6/1998	MW-22	15	4.51083
9	5/2/2008	MW-25	14.1	3.61083
10	2/13/1998	MW-19	12	1.51083

Iteration i = 9

Mean of 231 measurements = 10.0177
Std Dev = 0.163351
x(i+1) = 12 from measurement 2/13/1998 from location MW-19
Rosner Statistic R = |12 - 10.0177|/0.163351 = 12.1349
Lambda(240, 10, 0.05) = 3.646
12.1349 > 3.646 -- Measurement 2/13/1998 for location MW-19 is an outlier

Iteration i = 8

Mean of 232 measurements = 10.0353
Std Dev = 0.313686
x(i+1) = 14.1 from measurement 5/2/2008 from location MW-25
Rosner Statistic R = |14.1 - 10.0353|/0.313686 = 12.9577
Lambda(240, 9, 0.05) = 3.648
Measurement 5/2/2008 for location MW-25 is an outlier

Iteration i = 7

Mean of 233 measurements = 10.0567
Std Dev = 0.451397
x(i+1) = 15 from measurement 3/6/1998 from location MW-22
Rosner Statistic R = |15 - 10.0567|/0.451397 = 10.9512
Lambda(240, 8, 0.05) = 3.65
Measurement 3/6/1998 for location MW-22 is an outlier

Iteration i = 6

Mean of 234 measurements = 10.0359
Std Dev = 0.551076
x(i+1) = 5.2 from measurement 5/2/2008 from location MW-25d
Rosner Statistic R = |5.2 - 10.0359|/0.551076 = 8.77538
Lambda(240, 7, 0.05) = 3.652
Measurement 5/2/2008 for location MW-25d is an outlier

Iteration i = 5

Mean of 235 measurements = 10.0068
Std Dev = 0.70798
x(i+1) = 3.2 from measurement 5/2/2008 from location MW-21
Rosner Statistic R = |3.2 - 10.0068|/0.70798 = 9.61441
Lambda(240, 6, 0.05) = 3.654
Measurement 5/2/2008 for location MW-21 is an outlier

Iteration i = 4

Mean of 236 measurements = 9.97458
Std Dev = 0.862721
x(i+1) = 2.4 from measurement 9/24/2007 from location MW-24
Rosner Statistic R = |2.4 - 9.97458|/0.862721 = 8.77987
Lambda(240, 5, 0.05) = 3.656
Measurement 9/24/2007 for location MW-24 is an outlier

Iteration i = 3

Mean of 237 measurements = 9.94135
Std Dev = 1.00139
x(i+1) = 2.1 from measurement 9/24/2007 from location MW-25d
Rosner Statistic R = |2.1 - 9.94135|/1.00139 = 7.8305
Lambda(240, 4, 0.05) = 3.656
Measurement 9/24/2007 for location MW-25d is an outlier

Iteration i = 2
Mean of 238 measurements = 9.97941
Std Dev = 1.15902
x(i+1) = 19 from measurement 2/13/1998 from location MW-25
Rosner Statistic R = |19 - 9.97941|/1.15902 = 7.78294
Lambda(240, 3, 0.05) = 3.656
Measurement 2/13/1998 for location MW-25 is an outlier

Iteration i = 1
Mean of 239 measurements = 10.0644
Std Dev = 1.75083
x(i+1) = 30.3 from measurement 5/2/2008 from location MW-18
Rosner Statistic R = |30.3 - 10.0644|/1.75083 = 11.5577
Lambda(240, 2, 0.05) = 3.656
Measurement 5/2/2008 for location MW-18 is an outlier

Iteration i = 0
Mean of 240 measurements = 10.4892
Std Dev = 6.80792
x(i+1) = 112 from measurement 5/2/2008 from location MW-17
Rosner Statistic R = |112 - 10.4892|/6.80792 = 14.9107
Lambda(240, 1, 0.05) = 3.658
Measurement 5/2/2008 for location MW-17 is an outlier

Rosner's Test for Outliers

Parameter: Nickel, total

All Locations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 48.4437

10 most extreme of 240 measurements

by order of magnitude difference from the mean

1	5/2/2008	MW-21	3	-45.4437
2	5/2/2008	MW-25d	4.5	-43.9437
3	9/24/2007	MW-16	4.9	-43.5437
4	5/2/2008	MW-20	5.6	-42.8437
5	5/2/2008	MW-24	5.6	-42.8437
6	5/2/2008	MW-16	6	-42.4437
7	5/2/2008	MW-17	87.7	39.2563
8	9/24/2007	MW-24	9.4	-39.0437
9	5/2/2008	MW-19	9.6	-38.8437
10	5/2/2008	MW-25	14.8	-33.6437

Iteration i = 9

Mean of 231 measurements = 49.7411
Std Dev = 2.81974
x(i+1) = 14.8 from measurement 5/2/2008 from location MW-25
Rosner Statistic R = |14.8 - 49.7411|/2.81974 = 12.3916
Lambda(240, 10, 0.05) = 3.646
12.3916 > 3.646 -- Measurement 5/2/2008 for location MW-25 is an outlier

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Iteration i = 8

Mean of 232 measurements = 49.5681
Std Dev = 3.85511
x(i+1) = 9.6 from measurement 5/2/2008 from location MW-19
Rosner Statistic R = |9.6 - 49.5681|/3.85511 = 10.3676
Lambda(240, 9, 0.05) = 3.648
Measurement 5/2/2008 for location MW-19 is an outlier

Iteration i = 7

Mean of 233 measurements = 49.3957
Std Dev = 4.66075
x(i+1) = 9.4 from measurement 9/24/2007 from location MW-24
Rosner Statistic R = |9.4 - 49.3957|/4.66075 = 8.58139
Lambda(240, 8, 0.05) = 3.65
Measurement 9/24/2007 for location MW-24 is an outlier

Iteration i = 6

Mean of 234 measurements = 49.5594
Std Dev = 5.282
x(i+1) = 87.7 from measurement 5/2/2008 from location MW-17
Rosner Statistic R = |87.7 - 49.5594|/5.282 = 7.22087
Lambda(240, 7, 0.05) = 3.652
Measurement 5/2/2008 for location MW-17 is an outlier

Iteration i = 5

Mean of 235 measurements = 49.374
Std Dev = 5.98786
x(i+1) = 6 from measurement 5/2/2008 from location MW-16
Rosner Statistic R = |6 - 49.374|/5.98786 = 7.24367
Lambda(240, 6, 0.05) = 3.654
Measurement 5/2/2008 for location MW-16 is an outlier

Iteration i = 4

Mean of 236 measurements = 49.1886
Std Dev = 6.61976
x(i+1) = 5.6 from measurement 5/2/2008 from location MW-24
Rosner Statistic R = |5.6 - 49.1886|/6.61976 = 6.58462
Lambda(240, 5, 0.05) = 3.656
Measurement 5/2/2008 for location MW-24 is an outlier

Iteration i = 3

Mean of 237 measurements = 49.0046
Std Dev = 7.18695
x(i+1) = 5.6 from measurement 5/2/2008 from location MW-20
Rosner Statistic R = |5.6 - 49.0046|/7.18695 = 6.03937
Lambda(240, 4, 0.05) = 3.656
Measurement 5/2/2008 for location MW-20 is an outlier

Iteration i = 2
Mean of 238 measurements = 48.8193
Std Dev = 7.72059
x(i+1) = 4.9 from measurement 9/24/2007 from location MW-16
Rosner Statistic R = |4.9 - 48.8193|/7.72059 = 5.6886
Lambda(240, 3, 0.05) = 3.656
Measurement 9/24/2007 for location MW-16 is an outlier

Iteration i = 1
Mean of 239 measurements = 48.6339
Std Dev = 8.22043
x(i+1) = 4.5 from measurement 5/2/2008 from location MW-25d
Rosner Statistic R = |4.5 - 48.6339|/8.22043 = 5.36881
Lambda(240, 2, 0.05) = 3.656
Measurement 5/2/2008 for location MW-25d is an outlier

Iteration i = 0
Mean of 240 measurements = 48.4438
Std Dev = 8.71605
x(i+1) = 3 from measurement 5/2/2008 from location MW-21
Rosner Statistic R = |3 - 48.4438|/8.71605 = 5.2138
Lambda(240, 1, 0.05) = 3.658
Measurement 5/2/2008 for location MW-21 is an outlier

Rosner's Test for Outliers

Parameter: Zinc, total

All Locations

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Data set mean = 47.595

10 most extreme of 240 measurements

by order of magnitude difference from the mean

1	5/2/2008	MW-24	154	106.405
2	5/2/2008	MW-22	1	-46.595
3	9/24/2007	MW-19	1	-46.595
4	5/2/2008	MW-23	1	-46.595
5	9/24/2007	MW-22	1.3	-46.295
6	9/24/2007	MW-24	1.5	-46.095
7	9/24/2007	MW-18	2.1	-45.495
8	5/2/2008	MW-19	2.2	-45.395
9	9/24/2007	MW-17	2.3	-45.295
10	9/24/2007	MW-21	2.4	-45.195

Iteration i = 9

Mean of 231 measurements = 48.729
Std Dev = 8.05465
x(i+1) = 2.4 from measurement 9/24/2007 from location MW-21
Rosner Statistic R = |2.4 - 48.729|/8.05465 = 5.75183
Lambda(240, 10, 0.05) = 3.646
5.75183 > 3.646 -- Measurement 9/24/2007 for location MW-21 is an outlier

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Iteration i = 8

Mean of 232 measurements = 48.5289
Std Dev = 8.59582
x(i+1) = 2.3 from measurement 9/24/2007 from location MW-17
Rosner Statistic R = |2.3 - 48.5289|/8.59582 = 5.37807
Lambda(240, 9, 0.05) = 3.648
Measurement 9/24/2007 for location MW-17 is an outlier

Iteration i = 7

Mean of 233 measurements = 48.33
Std Dev = 9.09843
x(i+1) = 2.2 from measurement 5/2/2008 from location MW-19
Rosner Statistic R = |2.2 - 48.33|/9.09843 = 5.07011
Lambda(240, 8, 0.05) = 3.65
Measurement 5/2/2008 for location MW-19 is an outlier

Iteration i = 6

Mean of 234 measurements = 48.1325
Std Dev = 9.56868
x(i+1) = 2.1 from measurement 9/24/2007 from location MW-18
Rosner Statistic R = |2.1 - 48.1325|/9.56868 = 4.81075
Lambda(240, 7, 0.05) = 3.652
Measurement 9/24/2007 for location MW-18 is an outlier

Iteration i = 5

Mean of 235 measurements = 47.934
Std Dev = 10.0211
x(i+1) = 1.5 from measurement 9/24/2007 from location MW-24
Rosner Statistic R = |1.5 - 47.934|/10.0211 = 4.63364
Lambda(240, 6, 0.05) = 3.654
Measurement 9/24/2007 for location MW-24 is an outlier

Iteration i = 4

Mean of 236 measurements = 47.7364
Std Dev = 10.4503
x(i+1) = 1.3 from measurement 9/24/2007 from location MW-22
Rosner Statistic R = |1.3 - 47.7364|/10.4503 = 4.44353
Lambda(240, 5, 0.05) = 3.656
Measurement 9/24/2007 for location MW-22 is an outlier

Iteration i = 3

Mean of 237 measurements = 47.5392
Std Dev = 10.8611
x(i+1) = 1 from measurement 5/2/2008 from location MW-23
Rosner Statistic R = |1 - 47.5392|/10.8611 = 4.28495
Lambda(240, 4, 0.05) = 3.656
Measurement 5/2/2008 for location MW-23 is an outlier

Iteration i = 2
Mean of 238 measurements = 47.3437
Std Dev = 11.2502
x(i+1) = 1 from measurement 9/24/2007 from location MW-19
Rosner Statistic R = |1 - 47.3437|/11.2502 = 4.11938
Lambda(240, 3, 0.05) = 3.656
Measurement 9/24/2007 for location MW-19 is an outlier

Iteration i = 1
Mean of 239 measurements = 47.1498
Std Dev = 11.6198
x(i+1) = 1 from measurement 5/2/2008 from location MW-22
Rosner Statistic R = |1 - 47.1498|/11.6198 = 3.97164
Lambda(240, 2, 0.05) = 3.656
Measurement 5/2/2008 for location MW-22 is an outlier

Iteration i = 0
Mean of 240 measurements = 47.595
Std Dev = 13.4917
x(i+1) = 154 from measurement 5/2/2008 from location MW-24
Rosner Statistic R = |154 - 47.595|/13.4917 = 7.88669
Lambda(240, 1, 0.05) = 3.658
Measurement 5/2/2008 for location MW-24 is an outlier

APPENDIX G

NCDENR Environmental Monitoring Reporting Form

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

S&ME, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Connel Ware Phone: (336) 288-7180

E-mail: cware@smeinc.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
White Street Landfill Phase III	North end of White Street, Greensboro, North Carolina	41-12	.0500	May 1-2, 2008

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify)
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Edmund Q. B. Henriques — Facility Representative Name (Print)

Environmental Department Manager — Title

(336) 288-7180 — (Area Code) Telephone Number

Edmund Q. B. Henriques — Signature

2-5-09 — Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 1216 GEOLOGIST EDMUND Q. B. HENRIQUES

Revised 01/2007