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

S&ME Project No.1584-98-081

Prepared For:
The City of Greensboro

Prepared By:
S&ME, Inc.
3718 Old Battleground Road
Greensboro, North Carolina 27410

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I hereby certify this 5th day of February 2009 that this report was prepared by me or under my direct supervision.

Edmund O. B. Henriques, L.G.
Environmental Department Manager

Technical support provide by:

Connel D. Ware
Senior Project Manager

TABLE OF CONTENTS

Page

1. EXECUTIVE SUMMARY 1
2. INTRODUCTION 2
3. SCOPE OF WORK 2
4. METHODS EMPLOYED 3
4.1 Monitoring Well Sampling 3
4.2 Statistical Analysis of Data 4
4.2.1 Software 4
4.2.2 Statistical Methods-Groundwater Analyses 4
4.3 Stream Sampling 4
5. RESULTS 5
5.1 Groundwater Analytical Results 5
5.2 Statistical Results 5
5.2.1 Overview of Database 5
5.2.2 Statistical Analyses 6
5.2.2.1 Descriptive Statistics 6
5.2.2.2 Time vs. Concentration Graphs 6
5.2.2.3 Interwell Statistical Comparisons 6
5.2.2.4 Non-Parametric Tolerance Limits Test 6
5.3 Hydraulic Conductivity 7
5.4 Groundwater Flow Direction and Rate 7
5.5 Surface Water 8
5.6 Leachate Sample Analytical Results 8
5.7 Quality Assurance 9
6. REFERENCES 9
TABLES I
FIGURES II
APPENDIX I III
APPENDIX II IV
APPENDIX III V
APPENDIX IV VI
APPENDIX V VII
APPENDIX VI VIII
APPENDIX VII IX

TABLES

Table 1: Groundwater Elevation Data Summary (12/08)
Table 2: Groundwater & Surface Water Field Data Summary (12/08)
Table 3: Groundwater Analytical Results Summary (12/08), Detected Appendix I - Volatile Organic Compounds
Table 4: Groundwater Analytical Results Summary (12/08), Detected Appendix I - Metals
Table 5: Groundwater Velocity Data (12/08)
Table 6: Surface Water Analytical Results Summary (12/08), Detected Appendix I - Volatile Organic Compounds
Table 7: Surface Water Analytical Results Summary (12/08), Detected Appendix I - Metals
Table 8: Leachate Sample Analytical Results Summary (12/08)

FIGURES

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

APPENDICES

Appendix I: Field Sampling Data Sheets (12/08)
Appendix II: Laboratory Analytical Report – December 2008 Monitoring Event
Appendix III: Descriptive Statistics
Appendix IV: Time vs. Concentration Graphs
Appendix V: Data Distribution Tests
Appendix VI: Non-Parametric Upper Tolerance Limit Computations
Appendix VII: NCDENR Environmental Monitoring Reporting Form

1. EXECUTIVE SUMMARY

Eleven wells (MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, and MW-25B) comprise the groundwater monitoring system for the lined Subtitle D solid waste disposal area of the White Street Landfill, also known as Phase III. All ten monitoring wells and three stream locations were sampled from December 3 through December 5, 2008. Well MW-25 was not sampled due to the lack of groundwater. 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-1, SW-2 and SW-3 were analyzed for federal Appendix I detection monitoring constituents.

Analytical results from the 11 Phase III monitoring wells detected no Appendix I volatile organic compounds that exceeded their corresponding North Carolina Groundwater Protection Standard (NC GWP).

The Appendix I metal vanadium was detected at estimated ("J" flagged) concentrations at wells MW-19, MW-20, and MW-25B at concentrations greater than the corresponding NC Groundwater Protection Standard (GWP). Appendix I metals; antimony, arsenic, barium, chromium, cobalt, copper, nickel, silver, and zinc were detected or estimated below their corresponding NCAC 2L groundwater quality standard or GWP at one or more of the 11 wells sampled in Phase III.

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 analyzed. The Shapiro-Francia Test of Normality indicated a non-parametric distribution for the analyzed metals data set. 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 concentration detected during this monitoring event represents 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 none of the reported concentrations of the metals detected during this sampling event exceed their respective corresponding Statistical Upper Limit. However, the estimated ("J" flagged) concentrations of vanadium in wells MW-19, MW-20, and MW-25B exceed the corresponding NCAC 2L groundwater quality standard for vanadium for Class GA groundwater. S&ME completed an Alternate Source Demonstration (ASD) for metals in the adjoining Phase II portion of the White Street Landfill Facility, which the North Carolina Department of Environment and Natural Resources (NC DENR) has approved. 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.

While 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 vanadium during the current sampling event in all of the compliance data from the previously mentioned monitoring wells in which vanadium was detected are below the expected DAF calculated groundwater concentration for vanadium.

Of the Appendix I volatile organic compounds and metals, only copper in surface water sample SW-2 exceeded its corresponding 15A NCAC 2B Standard. Copper concentrations reported in the Phase III groundwater compliance network at approximately one order of magnitude less than the concentration detected at surface water location SW-2. The stream segment above sample location SW-2 predominantly drains non-landfill areas. Based on these factors, the copper detected at SW-2 cannot be solely attributed to the landfill.

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 December 2008 water quality monitoring event.

3. SCOPE OF WORK

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

- Sampled the 10 monitoring wells and three surface water locations at the White Street landfill SWMF. Well MW-25 was not sampled due to the lack of groundwater.
- 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 December 3 through 5, 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 I**. **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 nitrile 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 statistical 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), background groundwater quality was established in the 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. The current sampling event (December 2008) will be incorporated into the baseline for future statistical analyses.

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 parametrically distributed data. 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 December 4, 2008. Surface water samples SW-1, SW-2, and SW-3 were collected in accordance with the approved site Sampling and Analysis Plan. 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 II**. Many of the reported concentrations of constituents 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.

Analytical results from the 11 Phase III monitoring wells detected only estimated concentrations of acetone at one or more wells from the Appendix I volatile organic compounds list at the sampled locations during this monitoring event. The volatile organic compound acetone was noted in the Laboratory analytical report as being a common laboratory contaminant.

The Appendix I metal vanadium was estimated at MW-19 (3.6 μg/L), MW-20 (6.0 μg/L), and MW-25b (3.7 μg/L) at concentrations greater than the corresponding North Carolina Groundwater Protection Standard (NC GWP) of 3.5 μg/L.

Appendix I metals, antimony, arsenic, barium, chromium, cobalt, copper, nickel, silver, and zinc were detected or estimated below their corresponding NCAC 2L groundwater quality standard or NC GWP standard at one or more of the sampled wells.

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 eighteenth 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

Utilizing ChemStat statistical software, S&ME calculated 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 descriptive statistic report is included in **Appendix III**.

5.2.2.2 Time vs. Concentration Graphs

These graphs display 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. Time vs. concentration graph was not generated for constituents which were detected at reported concentrations below the quantitation limit as these values are considered only estimates. The graphs can be found in **Appendix IV**.

The time vs. concentration graph for barium at wells MW-16, and MW-24 indicate that the concentration of barium in these wells has remained relatively consistent in these wells since barium was first detected in these wells during the April 2007 groundwater monitoring event.

The time vs. concentration graph for vanadium at wells MW-19, MW-20, and MW-25B also indicate that the reported concentrations of vanadium in these wells have remained relatively consistent since vanadium was first detected in these wells during the September 2007 groundwater monitoring event.

The time vs. concentration graph for zinc at monitoring well MW-16 shows that the reported concentration of zinc has remained consistent and close to the detection limit in MW-16 since zinc was first detected in this well during the September 2007 groundwater monitoring event.

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 a statistical Upper Limit 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 monitored constituents detected above the quantitation limit 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 there are no statistically significant increases over the historic background concentrations during the current groundwater monitoring event. Additionally, only vanadium was detected at a concentration that exceeds the corresponding NCAC 2L groundwater quality standard for Class GA groundwater.

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

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 December 2008. The depth to the water table ranged from 3.45 feet to 28.57 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 December 2008 and is presented as **Figure 1**. Based on our field data, groundwater appears to be flowing to the 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 0.010 at monitoring well MW-24 to 0.686 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 II**.

- Appendix I volatile organic compounds acetone and chloroform were reported estimated at concentrations. Currently, neither constituent has an established corresponding NCAC 2B surface water standard. The volatile organic compound acetone was noted in the Laboratory analytical report as being a common laboratory contaminant. Chloroform was detected solely at SW-3, which is immediately down stream of the waste water treatment plant and upstream of Phase III.
- Appendix I metals arsenic, barium, chromium, cobalt, nickel, and zinc were detected or estimated at one or more of the surface water sample locations. The reported estimated concentrations for arsenic, chromium, nickel, and zinc are less than the corresponding NCAC 2B surface water standards. Currently, there are no corresponding NCAC 2B surface water standards for barium and cobalt.
- Inorganic constituents copper was detected at surface water sample locations SW-2 at a concentration greater than their corresponding North Carolina 15A NCAC 2B standards. The stream segment above sample location SW-2 predominantly drains non-landfill areas.

5.6 Leachate Sample Analytical Results

On December 4, 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.

5.7 Quality Assurance

A duplicate sample was collected from monitoring well MW-20 and submitted for analysis as "Duplicate III". This sample was analyzed for Appendix I inorganics and volatile organics. The detected constituents in MW-20 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 II**. The NCDENR Environmental Monitoring Reporting Form is included in **Appendix VII**.

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 (12/08)
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			
			May-08		Dec-08	
			DTGW (feet)	Elevation (feet)	DTGW (feet)	Elevation (feet)
MW-15	794.81	60.0	26.46	768.35	28.57	766.24
MW-16	758.02	28.5	19.23	738.79	22.79	735.23
MW-17	755.05	31.5	9.3	745.75	14.07	740.98
MW-18	742.70	17.5	9.62	733.08	10.5	732.2
MW-19	740.70	35.0	15.82	724.88	20.18	720.52
MW-20	748.87	25.0	13.99	734.88	15.95	732.92
MW-21	743.32	18.5	3.90	739.42	7.41	735.91
MW-22	744.43	30.0	8.34	736.09	10.11	734.32
MW-23	744.25	33.5	9.19	735.06	13.00	731.25
MW-24	752.52	12.0	3.11	749.41	3.45	749.07
MW-25	746.47	17.0	11.54	734.93	13.84	732.63
MW-25B	746.19	32.0	12.36	733.83	13.79	732.4

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 (12/08)
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
1525	3-Dec-08	18.43	65.2	6.9	0.428	-98	2.23	5.88	29.63
1540	3-Dec-08	11.26	52.3	7.00	0.438	-133	1.19	3.37	30.00
1545	3-Dec-08	12.18	53.9	7.13	0.438	-159	0.58	3.42	30.89
1550	3-Dec-08	12.18	53.9	7.17	0.438	-169	0.43	3.55	31.72
1555	3-Dec-08	12.06	53.7	7.18	0.436	-173	0.34	4.17	32.51

Location: MW-16

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1435	3-Dec-08	14.27	57.7	6.13	0.323	-83	1.04	10.71	23.60
1440	3-Dec-08	13.95	57.1	6.09	0.327	-91	0.86	8.43	24.04
1445	3-Dec-08	13.68	56.6	6.09	0.331	-86	0.99	7.6	24.87
1450	3-Dec-08	13.27	55.9	6.06	0.333	-86	0.91	7.22	24.80
1455	3-Dec-08	12.80	55.0	6.03	0.331	-89	0.79	6.26	25.18

Location: MW-17

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0840	5-Dec-08	10.93	51.7	5.91	0.181	142	2.23	3.03	14.75
0845	5-Dec-08	9.94	49.9	5.89	0.187	96	1.61	2.02	15.03
0850	5-Dec-08	9.72	49.5	5.82	0.186	87	1.45	1.5	15.17
0855	5-Dec-08	9.51	49.1	5.81	0.185	74	1.28	1.42	15.21
0900	5-Dec-08	9.46	49.0	5.82	0.184	63	1.18	1.48	15.27
0905	5-Dec-08	9.76	49.6	5.82	0.183	58	1.04	1.34	15.28
0910	5-Dec-08	9.66	49.4	5.81	0.182	51	0.99	1.55	15.28

Location: MW-18

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1055	3-Dec-08	10.16	50.3	6.57	0.298	46	2.36	11.26	10.71
1100	3-Dec-08	11.22	52.2	6.68	0.312	-2	1.67	11.37	10.68
1105	3-Dec-08	11.75	53.2	6.47	0.267	-14	1.15	80	10.72
1110	3-Dec-08	11.91	53.4	6.27	0.235	-7	0.95	506	10.74
1115	3-Dec-08	12.21	54.0	6.28	0.228	6	1.33	186	10.76
1120	3-Dec-08	12.04	53.7	6.23	0.224	14	1.51	146	10.78
1125	3-Dec-08	12.17	53.9	6.25	0.224	14	1.50	98	--
1130	3-Dec-08	12.09	53.8	6.25	0.224	15	1.49	99	--
1135	3-Dec-08	12.08	53.7	6.25	0.222	17	1.52	94	--

Location: MW-19

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1625	3-Dec-08	12.22	54.0	6.25	0.298	7	1.82	7.83	20.20
1630	3-Dec-08	12.54	54.6	6.17	0.297	-28	1.43	5.27	20.23
1635	3-Dec-08	12.74	54.9	6.13	0.296	-56	1.03	4.03	20.26
1640	3-Dec-08	12.75	55.0	6.12	0.296	-75	0.74	3.35	20.27
1645	3-Dec-08	12.35	54.2	6.16	0.298	-87	0.65	3.25	--
1650	3-Dec-08	12.36	54.2	6.09	0.297	-95	0.56	3.13	--
1655	3-Dec-08	12.36	54.2	6.09	0.297	-101	0.50	3.47	--

Location: MW-20

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1455	4-Dec-08	13.81	56.9	6.29	0.675	-25	1.74	10.24	16.28
1500	4-Dec-08	13.88	57.0	6.32	0.698	-79	0.92	8.36	16.40
1505	4-Dec-08	13.77	56.8	6.34	0.693	-104	0.69	6.78	16.41
1510	4-Dec-08	14.35	57.8	6.33	0.677	-122	0.44	8.26	16.42
1515	4-Dec-08	14.14	57.5	6.34	0.675	-138	0.32	3.75	16.51
1520	4-Dec-08	13.91	57.0	6.34	0.669	-142	0.33	4.36	16.48
1525	4-Dec-08	13.87	57.0	6.35	0.666	-148	0.33	4.72	16.49
1530	4-Dec-08	13.96	57.1	6.35	0.667	-153	0.31	5.08	16.49

Table 2
Groundwater & Surface Water Field Data Summary (12/08)
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
1330	4-Dec-08	13.66	56.6	5.93	0.170	-32	2.04	7.36	7.69
1335	4-Dec-08	13.21	55.8	5.91	0.169	-31	2.24	7.42	7.69
1340	4-Dec-08	13.56	56.4	5.84	0.167	-28	2.20	9.07	7.79
1345	4-Dec-08	13.76	56.8	5.85	0.166	-31	1.95	8.06	7.82
1350	4-Dec-08	13.87	57.0	5.82	0.167	-32	1.86	5.73	7.89
1355	4-Dec-08	14.02	57.2	5.85	0.166	-34	1.77	8.58	7.90
1400	4-Dec-08	14.07	57.3	5.86	0.167	-30	1.81	5.47	7.87
1405	4-Dec-08	14.18	57.5	5.81	0.166	-31	1.75	7.59	7.96
1410	4-Dec-08	14.14	57.5	5.81	0.166	-29	1.82	7.17	7.95
1415	4-Dec-08	14.18	57.5	5.83	0.167	-31	1.76	8.12	7.95

Location: MW-22

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1140	4-Dec-08	15.28	59.5	6.87	0.483	-116	1.38	17.53	10.78
1145	4-Dec-08	15.52	59.9	6.85	0.473	-129	0.93	19.4	11.21
1150	4-Dec-08	15.80	60.4	6.79	0.463	-129	0.83	16.4	11.49
1155	4-Dec-08	15.47	59.8	6.76	0.451	-128	0.74	14.56	11.78
1200	4-Dec-08	15.71	60.3	6.70	0.435	-127	0.65	13.93	11.94
1205	4-Dec-08	14.74	58.5	6.62	0.415	-123	0.67	15.97	12.15
1210	4-Dec-08	14.14	57.5	6.56	0.394	-119	0.66	14.21	12.34
1215	4-Dec-08	14.22	57.6	6.47	0.378	-114	0.62	8.95	12.53
1220	4-Dec-08	15.18	59.3	6.42	0.359	-111	0.60	7.66	12.72
1225	4-Dec-08	15.33	59.6	6.40	0.352	-108	0.63	7.51	12.82

Location: MW-23

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
1020	4-Dec-08	13.55	56.4	7.21	0.620	-134	2.07	5.64	13.87
1025	4-Dec-08	13.83	56.9	7.30	0.590	-145	1.59	4.64	14.12
1030	4-Dec-08	13.98	57.2	7.38	0.500	--	1.00	4.04	14.71
1035	4-Dec-08	14.03	57.3	7.40	0.420	-165	0.76	4.78	15.10
1040	4-Dec-08	13.72	56.7	7.45	0.478	-162	0.78	3.40	15.44
1045	4-Dec-08	13.80	56.8	7.43	0.581	-146	1.18	4.72	15.53
1050	4-Dec-08	13.62	56.5	7.43	0.581	-143	1.27	4.41	15.59
1055	4-Dec-08	13.51	56.3	7.43	0.581	-140	1.33	4.21	15.61

Location: MW-24

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0845	4-Dec-08	9.12	48.4	6.63	1.191	116	2.00	--	4.70
0850	4-Dec-08	9.46	49.0	6.64	1.191	112	2.01	13.14	4.97
0855	4-Dec-08	9.02	48.2	6.64	1.192	104	1.99	11.14	5.29
0900	4-Dec-08	8.55	47.4	6.65	1.190	96	1.97	10.57	5.57
0915	4-Dec-08	7.78	46.0	6.66	1.189	61	2.05	9.99	6.12
0920	4-Dec-08	7.89	46.2	6.66	1.188	54	2.07	8.89	6.18
0925	4-Dec-08	7.88	46.2	6.67	1.187	40	2.11	8.64	6.21
0930	4-Dec-08	8.06	46.5	6.69	1.187	33	2.14	8.00	6.24

Location: MW-25B

Time	Date	Temp-C	Temp-F	pH	SpC-mS/cm	ORP-mV	DO-mg/L	Turbidity-NTU	Depth to Water-feet
0750	5-Dec-08	11.25	52.3	6.05	0.136	169	1.90	2.71	14.27
0755	5-Dec-08	10.61	51.1	6.03	0.134	155	1.87	2.58	14.31
0800	5-Dec-08	10.42	50.8	6.06	0.134	146	1.87	2.18	14.22
0805	5-Dec-08	10.11	50.2	6.07	0.134	144	1.87	2.12	14.29

Table 3

Groundwater Analytical Results Summary (12/08)
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-25B	DUP#3	(µg/l)	stds.
Acetone	ND	ND	ND	ND	ND	ND	8.6 J	9.6 J	11 J	7.7 J	ND	ND	100	700

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 orange were detected above the 2L standards

Table 4
Groundwater Analytical Results Summary (12/08)
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.	NCPHG or GPS
	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25B	DUP#3			
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.38 J	6	ns	1.4
Arsenic	ND	ND	ND	ND	ND	ND	3.6 J	ND	ND	ND	ND	2.8 J	10	50	
Barium	28.6 J	163	49.3 J	28.1 J	31 J	63.6 J	30.1 J	78.5 J	61.4 J	444	12.4 J	63.2 J	100	2000	
Chromium	ND	1.7 J	2.0 J	ND	1.2 J	ND	3.2 J	ND	ND	ND	3.0 J	ND	10	50	
Cobalt	ND	1.6 J	ND	9.1 J	1.2 J	3.0 J	2.2 J	1.4 J	ND	4.3 J	ND	2.3 J	10	ns	70
Copper	ND	7.8 J	ND	ND	2.8 J	3.6 J	2.3 J	ND	ND	9.2 J	ND	2.5 J	10	1000	
Nickel	ND	6.9 J	2.3 J	ND	3.0 J	5.4 J	3.1 J	2.4 J	1.8 J	3.7 J	ND	4.8 J	50	100	
Silver	ND	ND	ND	ND	2.1 J	2.9 J	2.2 J	2.0 J	ND	3.8 J	ND	2.0J	10	17.5	
Vanadium	ND	ND	2.6 J	3.1 J	3.6 J	6.0 J	2.3 J	ND	ND	2.0 J	3.7 J	5.5 J	25	ns	3.5
Zinc	ND	13.8	ND	ND	7.5 J	ND	5.2 J	3.9 J	ND	9.0 J	ND	ND	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
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 orange were detected above the 2L standards
Blue highlights indicate a measurement higher than the North Carolina Public Health Goal Standard or Groundwater Protection Standard

Table 5
Groundwater Velocity Data (12/08)
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	0.021	0.028
MW-16	0.331	0.20	0.010	0.017
MW-17	0.160	0.20	0.039	0.031
MW-18	3.269	0.20	0.037	0.599
MW-19	0.716	0.20	0.033	0.119
MW-20	1.336	0.20	0.017	0.115
MW-21	0.681	0.20	0.019	0.063
MW-22	0.325	0.20	0.018	0.030
MW-23	0.173	0.20	0.046	0.040
MW-24	0.090	0.20	0.023	0.010
MW-25	2.088	0.20	0.066	0.686
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 (12/08)
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		
Acetone	**9.4 J**	**7.9 J**	**9.1 J**	ns	100
Chloroform	ND	ND	**0.58 J**	ns	5

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.
Orange highlights indicate a measurement higher than 2B standards.

Table 7
Surface Water Analytical Results Summary (12/08)
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	3.3 J	ND	ND	50	10
Barium	40.6 J	35.9 J	21.8 J	ns	100
Chromium	3.1 J	ND	2.3 J	50	10
Cobalt	1.1 J	1.1 J	ND	ns	10
Copper	3.6 J	20.5	4.6 J	7	10
Nickel	2.3 J	ND	4.3 J	88	50
Zinc	15.1	22.4	47.9	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 orange 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 (µg/L)	"Leachate" December-08 (µg/L)	NC SWSL (µg/L)
Chloroethane	BQL*	BQL*	BQL**	17	BQL***	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	BQL[5]	10
Trichlorofluoromethane	BQL*	BQL*	BQL**	7.0	BQL***	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	BQL[5]	1
Acetone	BQL*	BQL*	1400	BQL	BQL***	490****	830****	BQL*	BQL*	BQL[5]*	BQL*	1780**	6800**	1400	11000[5] D	100
Methylene Chloride	97	120	BQL**	37	BQL***	BQL*	13	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	BQL[5]	1
1,1-Dichloroethane	46	BQL*	BQL**	30	28	27*	5.2	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	BQL[5]	5
cis 1,2-dichloroethene	BQL*	BQL*	BQL**	6.4	BQL***	BQL**	BQL	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	BQL[5]	5
4-Methyl-2-pentanone	BQL*	BQL*	BQL**	BQL	BQL***	BQL	BQL	BQL*	BQL*	BQL	BQL*	BQL**	BQL	140	580[5] D	100
2-Hexanone	BQL*	BQL*	BQL**	BQL	BQL***	BQL	BQL	BQL*	BQL*	BQL	BQL*	BQL**	BQL	6.0	BQL[5]	50
2-Butanone	BQL*	BQL*	2600	BQL	BQL***	1100****	1200****	BQL*	BQL*	BQL[5]*	BQL*	1650**	7500**	2000	12000[5] D	100
1,1,1-Trichloroethane	BQL*	BQL*	BQL**	8.2	BQL***	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	BQL[5]	1
Benzene	BQL*	BQL*	BQL**	10	BQL***	BQL*	8.1	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	8.4	BQL[5]	1
Trichloroethene	BQL*	BQL*	BQL**	7.5	BQL***	BQL*	BQL	BQL*	BQL*	BQL*	BQL*	BQL**	BQL**	BQL	BQL[5]	1
Toluene	350	220	390	190*	220***	220*	240****	400	BQL*	73	55	12.8**	150**	41	310[5] D	1
Ethylbenzene	49	BQL*	BQL**	60	48***	56*	40	46	BQL*	31	BQL*	18.2**	87 J	48	120[5] D	1
Total Xylenes	154	65	110	186	127	157	116	142	38	69	56	48.8	240	120	440[5]	5
1,4-Dichlorobenzene	BQL*	BQL*	BQL**	6.0	BQL***	BQL*	5.4	BQL*	BQL*	BQL*	BQL*	BQL**	BQL[5]	13	BQL[5]	1

BQL = Analytical results is less than the corresponding PQL/SWSL
Parameters highlighted in yellow exceed the SWSL.
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
NC SWSL=North Carolina Solid Waste Section Limit

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)	"Leachate" December-08 (mg/L)	NC SWSL (ug/L)
Antimony	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	56.1	19.2	19.6	6
Arsenic	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	23.4	23.4	2.5 J	26.4	10
Barium	580	BQL	550	580	740	590	BQL	BQL	570	BQL	BQL	678	609	762	577	100
Cadmium	5	21	9.7	13	16	1.6	2.2	2.3	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1
Chromium	10	BQL	13	23	27	15	BQL	16	BQL	BQL	BQL	14.7	35	BQL	7 JB	10
Cobalt	BQL	BQL	13	25	23	BQL	BQL	18	BQL	BQL	BQL	26.6	25.8	25.8	25.1	10
Lead	BQL	BQL	BQL	BQL	13	BQL	BQL	BQL	BQL	BQL	BQL	BQL	4.9 J	3.1 J	2.1 J	10
Nickel	BQL	BQL	BQL	110	99	75	BQL	BQL	61	300	BQL	1189	164	189	177	50
Silver	BQL	BQL	BQL	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1.9 J	10
Vanadium	BQL	BQL	58	45	89	41	BQL	BQL	BQL	BQL	BQL	54	36.2	12.5 J	25	25
Zinc	120	BQL	50	80	290	100	BQL	BQL	BQL	250	BQL	97.2	87.8	54.8	29.3	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 (mg/L)	"Leachate" October-05 (mg/L)	"Leachate" April-06 (mg/L)	"Leachate" April-07 (mg/L)	"Leachate" April-08 (mg/L)	"Leachate" December-08 (mg/L)	NC SWSL (mg/L)
Nitrate	BQL	BQL	BQL	400	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2	0.46	no data	BQL	10
Nitrite	BQL	BQL	50	BQL	BQL	no data	no data	ND	<0.10	no data	no data	2	0.032 J	no data	0.013 J	1
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	3.3 J	250
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	1.7	NE
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	7.1	NE
Biological Oxygen Demand (BOD)	22.6	300	83	44	19	59J	330	56	34	119J	27.7	200	3400	960	1900	NE
Chemical Oxygen Demand (COD)	166	580	330	200	210	690	390	220	240	1,810	425	1340	5400	1900	4300	NE

J = Analyte detected; value is between the Method Detection Limit (MDL) and PQL
Parameters highlighted in yellow exceed the NC SWSL.
NC SWSL=North Carolina Solid Waste Section Limit
BQL = Analytical results is less than the corresponding PQL
NE = Not Established

FIGURES

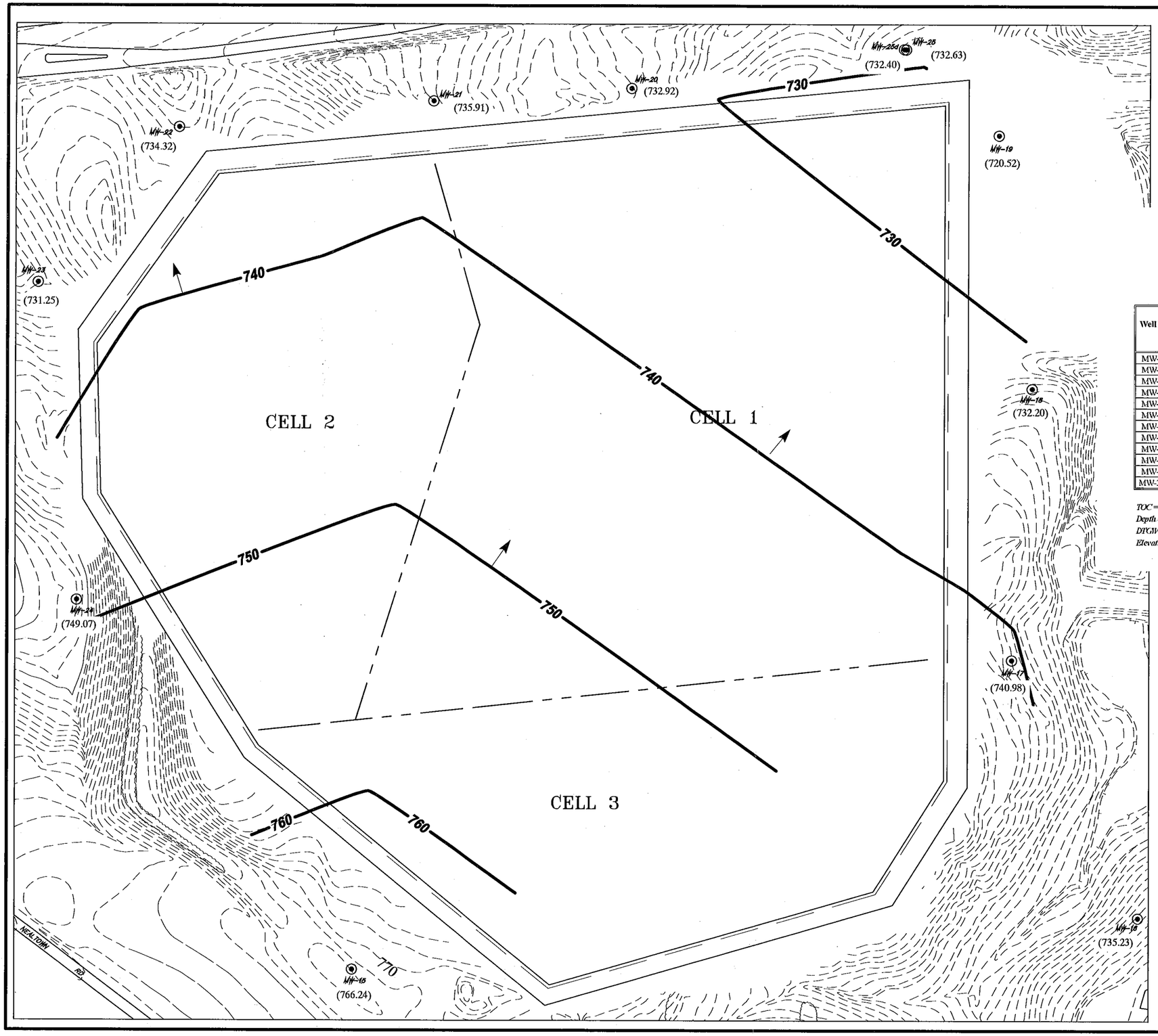

Table 1

Groundwater Elevation Data Summary (12/08)
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			
			May-08		Dec-08	
			DTGW (feet)	Elevation (feet)	DTGW (feet)	Elevation (feet)
MW-15	794.81	60.0	26.46	768.35	28.57	766.24
MW-16	758.02	28.5	19.23	738.79	22.79	735.23
MW-17	755.05	31.5	9.3	745.75	14.07	740.98
MW-18	742.70	17.5	9.62	733.08	10.5	732.2
MW-19	740.70	35.0	15.82	724.88	20.18	720.52
MW-20	748.87	25.0	13.99	734.88	15.95	732.92
MW-21	743.32	18.5	3.90	739.42	7.41	735.91
MW-22	744.43	30.0	8.34	736.09	10.11	734.32
MW-23	744.25	33.5	9.19	735.06	13.00	731.25
MW-24	752.52	12.0	3.11	749.41	3.45	749.07
MW-25	746.47	17.0	11.54	734.93	13.84	732.63
MW-25B	746.19	32.0	12.36	733.83	13.79	732.4

TOC = Top of Casing. Elevations determined by survey: HDR Engineering, Inc.
Depth of well data as reported by HDR Engineering Inc. and GN 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

CHECKED BY:	LSE
DRAWN BY:	CLD/RDM
FIGURE NO.	1
SCALE:	AS SHOWN
DATE:	JANUARY 2009
JOB NO.	1584-98-081

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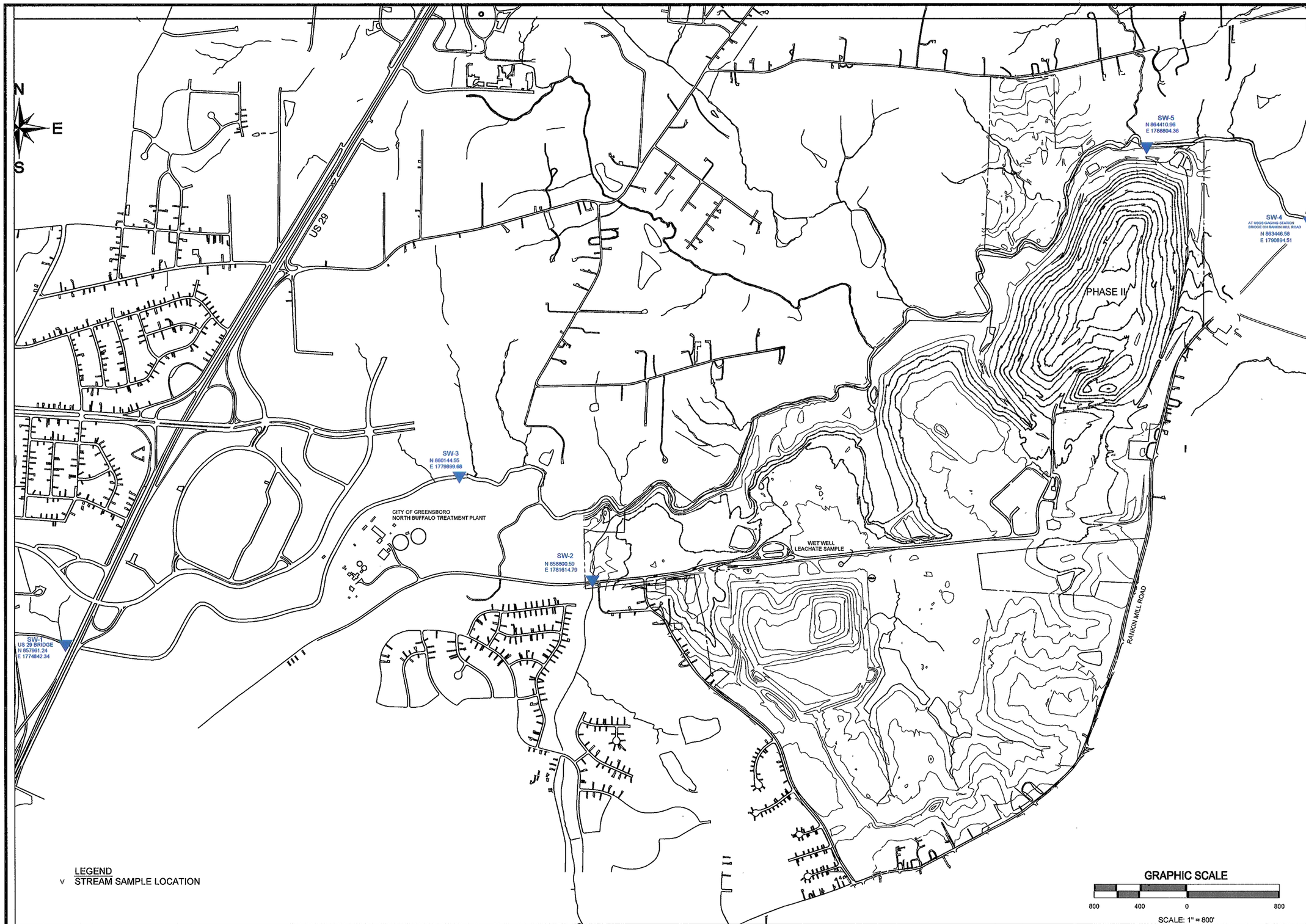

STREAM SAMPLE LOCATION
PHASE III
WHITE STREET LANDFILL
GREENSBORO, NORTH CAROLINA

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

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APPENDIX I

Field Sampling Data Sheets

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12/3/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-15
Sample Date: 12/3/08
Locked? (Yes) No
Sample Time: 3:55 - 4:00
(PVC) Steel Stainless
Weather: CLEAR
Sampled By: GWS/LB
Air Temp: 50°

Water Level and Well Data

Depth to water from measuring point: 28.57 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
Purge Rate _____ liter/min
Start 3:24:30 Stop 3:55

control settings: 8 on / 20 off / 35 psi
cycles: 43
changes?
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	3:35	3:40	3:45	3:50	3:55			
Temp	10.43	11.26	12.18	12.18	12.06			
pH	6.90	7.00	7.13	7.17	7.18			
Conductivity	0.428	0.438	0.438	0.438	0.436			
ORP*	-98	-123	-159	-169	-173			
D.O.*	2.23	1.19	0.58	0.41	0.34			
Turbidity*	5.88	3.37	3.42	3.55	4.17			
Water Level	29.63	30.00	30.89	31.72	32.51			

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12/3/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-16
Sample Date: 12/3/08
Locked? (Yes) No
Sample Time: 1505
(PVC) Steel Stainless
Weather: SUNNY / CLEAR
Sampled By: GWS / LB
Air Temp: 50°

Water Level and Well Data

Depth to water from measuring point: 22.79 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: _____

Well Purging and Sample Collection

Purge Method: Pump

Sample Method: _____

Sample Collection Time
Start: 1500 Stop: 1505

Purge Rate: 100 ml liter/min

Purge Time
Start: 1430 Stop: 1500

control settings changes?: 2.5 on-27 off-26 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	1435	14:40	14:45	14:50	14:55			
Temp	14.27	13.85	13.68	13.27	12.80			
pH	6.13	6.09	6.09	6.06	6.03			
Conductivity	0.323	0.327	0.331	0.333	0.331			
ORP*	-83	-91	-86	-86	-85			
D.O.*	1.04	0.86	0.89	0.91	0.79			
Turbidity*	10.71	8.43	7.60	7.22	6.26			
Water Level	23.60	24.84	24.87	24.80	25.13			

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12/5/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-17
Sample Date: 12/5/08
Locked? (Yes) No
Sample Time: 0915
(PVC) Steel Stainless
Weather: WINDY / CLOUDY / COLD
Sampled By: GMS
Air Temp: 30°

Water Level and Well Data

Depth to water from measuring point: 14.07 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: 0910 Stop: 0915

Purge Time
Start: 0835 Stop: 0910

Purge Rate: 100 m liter/min

control settings changes?: 4 on 26 off @ 24 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	0840	0845	0850	0855	0900	0905	0910	
Temp	10.93	9.94	9.72	9.51	9.46	9.76	9.66	
pH	5.91	5.89	5.82	5.81	5.82	5.82	5.81	
Conductivity	.181	.187	.186	.185	.184	.183	.182	
ORP*	142	96	87	74	63	58	51	
D.O.*	2.23	1.61	1.45	1.28	1.18	1.04	.88	
Turbidity*	3.03	2.02	1.50	1.42	1.48	1.34	1.55	
Water Level	14.95	15.03	15.17	15.21	15.27	15.28	15.28	

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12/3/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-18
Sample Date: 12/3/08
Locked? (Yes) No
Sample Time: 1140
(PVC) Steel Stainless
Weather: CLEAR
Sampled By: GWS
Air Temp: 48°

Water Level and Well Data

Depth to water from measuring point: 10.50 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: 1135 Stop: 1140

Purge Time
Start: 1050 Stop: 1135

Purge Rate: 100 ml liter/min

control settings changes? 3.5 on 26.5 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: 6 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

NOTE: CLEANED OUT CELL BETWEEN 1110 & 1115

* *Stabilization Parameters*

Time	1055	1100	1105	1110	1115	1120	1125	1130	1135
Temp	10.16	11.22	11.75	11.91	12.21	12.04	12.17	12.09	12.08
pH	6.57	6.68	6.47	6.27	6.28	6.23	6.25	6.25	6.25
Conductivity	.298	.312	.267	.235	.228	.224	.224	.224	.222
ORP*	46	-2	-14	-7	6	14	14	15	17
D.O.*	2.36	1.67	1.15	.95	1.33	1.81	1.50	1.49	1.52
Turbidity*	11.24	11.37	80	506	186	146	98	99	94
Water Level	10.71	10.68	10.72	10.74	10.76	10.78			

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12-03-05
Project No.: 1584-98-081
Purge Time:
Source Well: MW-19
Sample Date: 12-03-05
Locked? (Yes) No
Sample Time: 1700
(PVC) Steel Stainless
Weather: clear
Sampled By: GWS / LB
Air Temp: 45°

Water Level and Well Data

Depth to water from measuring point: 20.18 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: 4:35 Stop: 5:00

Purge Rate: 100 mliter/min

Purge Time Start: 4:20 Stop: 4:55

control settings changes?: 3.5 on / 27 off / 26 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*

							4:55	
Time	4:25	4:30	4:35	4:40	4:45	4:50	4:55	
Temp	12.22	12.54	12.74	12.75	12.35	12.36	12.36	
pH	6.25	6.17	6.13	6.12	6.16	6.19	6.19	
Conductivity	0.298	0.297	0.296	0.296	0.298	0.297	0.297	
ORP*	20	-23	-56	-75	-87	-95	-101	
D.O.*	1.82	1.43	1.03	0.74	0.65	0.56	0.50	
Turbidity*	7.33	5.27	4.03	3.35	3.25	3.13	3.47	
Water Level	20.20	20.23	20.26	20.27	—	—		

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12-04-08
Project No.: 1584-98-081
Purge Time: 2:40 -
Source Well: MW -20
Sample Date: 12-04-08
Locked? Yes No
Sample Time: 3:35
PVC Steel Stainless
Weather: Cloudy
Sampled By: LButler
Air Temp: 50°

Water Level and Well Data

Depth to water from measuring point: 15.95 feet
Depth to well bottom from measuring point: _____ feet
Height of water column: _____ feet
Measuring Point: _____

DUP III TAKEN @ THIS LOCATION 0700 HRS

Well Purging and Sample Collection

Purge Method: pump
Sample Method: pump

Sample Collection Time
Start: 3:30 Stop: 3:35

Purge Rate: 80 ml / 100 m liter/min

Purge Time
Start: 2:40 Stop: 3:30

control settings: 5.5 cm / 24.5 psi / 20 psi cycles
changes? 5.8 cm / 24.2 psi / 20 psi duration: 3:15 -

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	2:55	3:06	3:05	3:10	3:15	3:20	3:25	3:30
Temp	13.81	13.88	13.77	14.35	14.14	13.91	13.87	13.96
pH	6.29	6.32	6.34	6.33	6.34	6.34	6.35	6.35
Conductivity	0.675	0.698	0.693	0.677	0.675	0.669	0.666	0.667
ORP*	-25	-79	-104	-122	-138	-142	-148	-151
D.O.*	1.74	0.92	0.69	0.44	0.32	0.33	0.33	0.31
Turbidity*	10.24	8.36	6.78	8.26	3.95	4.36	4.72	5.08
Water Level	16.28	16.40	16.41	16.42	16.51	16.48	16.49	16.49

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12-14-08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-21
Sample Date: [redacted] 12/5/08
Locked? Yes No
Sample Time: 0905
PVC Steel Stainless
Weather: cloudy
Sampled By: L Burton
Air Temp: 45°

Water Level and Well Data

Depth to water from measuring point: 7.41 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: _____

Well Purging and Sample Collection

Purge Method: Pump

Sample Method: Pump

Sample Collection Time

Start: [redacted] Stop: [redacted]

Purge Time

Purge Rate: 80 ml liter/min Start: 1:20 Stop: 2:15

control settings: 2.3 on / 27.7 off / 20 psi cycles: 80 ml/min

changes? 100 ml/min 2.7 on / 27.3 off / 20 psi duration: 2:00 →

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	1:30	1:35	1:40	1:45	1:50	1:55	2:00	2:05	2:10	2:15	2:2
Temp	13.06	13.21	13.56	13.76	13.87	14.02	14.07	14.18	14.14	14.18	
pH	5.93	5.91	5.84	5.85	5.82	5.85	5.86	5.81	5.81	5.83	
Conductivity	0.170	0.169	0.167	0.166	0.167	0.166	0.167	0.166	0.166	0.167	
ORP*	-32	-31	-28	-31	-32	-34	-30	-31	-29	-31	
D.O.*	2.04	2.24	2.20	1.95	1.86	1.77	1.81	1.75	1.82	1.76	
Turbidity*	7.36	7.42	9.07	8.06	5.73	8.58	5.47	7.59	8.12	8.12	
Water Level	7.69	7.69	7.79	7.82	7.85	7.90	7.87	7.96	7.95	7.95	

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12-04-08
Project No.: 1584-98-081
Purge Time: 11:25
Source Well: MW-22
Sample Date: [redacted] 12/5/08
Locked? (Yes) No
Sample Time: 0915
(PVC) Steel Stainless
Weather: cloudy
Sampled By: LButler
Air Temp: 40°

Water Level and Well Data

Depth to water from measuring point: 10.11 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: _____

Well Purging and Sample Collection

Purge Method: pump

Sample Method: pump

Sample Collection Time
Start: [redacted] Stop: [redacted]

Purge Time
Start: 11:25 Stop: 12:35

Purge Rate: _____ liter/min

control settings: 2.2 gm / 27.8 / 44 / 25 psi
changes? _____

cycles: _____
duration: _____

60 ml/min

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*

12:30	Time	11:40	11:45	11:50	11:55	12:00	12:05	12:10	12:15	12:20	12:2
14.90	Temp	15.28	15.52	15.60	15.47	15.71	14.79	14.14	14.22	15.18	15.3
6.32	pH	6.87	6.83	6.79	6.76	6.70	6.62	6.56	6.47	6.42	6.4
0.345	Conductivity	0.483	0.473	0.463	0.451	0.435	0.415	0.394	0.378	0.359	0.35
-108	ORP*	-116	-129	-129	-128	-127	-123	-119	-114	-111	-10
0.65	D.O.*	1.38	0.93	0.87	0.74	0.65	0.67	0.66	0.62	0.60	0.6
7.84	Turbidity*	17.53	19.40	16.46	14.56	13.93	15.97	14.21	8.95	7.66	7.5
12.88	Water Level	10.75	11.21	11.49	11.73	11.94	12.15	12.34	12.53	12.72	12.8

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12-04-08
Project No.: 1584-98-081
Purge Time: 10:05
Source Well: MW-23
Sample Date: [redacted] 12/5/08
Locked? Yes No
Sample Time: 0925
PVC Steel Stainless
Weather:
Sampled By:
Air Temp:

Water Level and Well Data

Depth to water from measuring point: 13.00 feet

Depth to well bottom from measuring point: feet

Height of water column: feet

Measuring Point:

Well Purging and Sample Collection

Purge Method: Pump

Sample Method: Pump

Sample Collection Time
Start: [redacted] Stop: [redacted]

Purge Time
Start: 10:05 Stop: 10:00

Purge Rate: liter/min

control settings changes?
1. 5.5 on / 24.5 off / 25 psi
2. 2.5 on / 27.5 off / 25 psi

cycles:
duration: 10:35 →

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

1. 90 ml/min
2. 70 ml/min

Volume of water removed: gallon liters

Was well purged dry: Yes No

Field Analyses

* *Stabilization Parameters*

Time	10:20	10:25	10:30	10:35	10:40	10:45	10:50	10:55
Temp	13.55	13.83	13.98	14.03	13.72	13.80	13.62	13.51
pH	7.21	7.30	7.38	7.46	7.45	7.43	7.43	7.43
Conductivity	0.620	0.590	0.500	0.420	0.428	0.581	0.581	0.581
ORP*	-134	-145		-165	-162	-146	-143	-146
D.O.*	2.07	1.59	1.00	0.76	0.78	1.18	1.27	1.33
Turbidity*	5.64	4.64	4.09	4.98	3.40	4.22	4.41	4.21
Water Level	13.87	14.12	14.71	15.10	15.44	15.53	15.59	15.61

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12-4-08
Project No.: 1584-98-081
Purge Time: 8:40
Source Well: MW-24
Sample Date: 12/5/08
Locked? Yes No
Sample Time: 0935
PVC Steel Stainless
Weather: Cloudy
Sampled By: LB
Air Temp: 38°

Water Level and Well Data

Depth to water from measuring point: 3.45 feet

Depth to well bottom from measuring point: _____ feet

Height of water column: _____ feet

Measuring Point: _____

Well Purging and Sample Collection

Purge Method: Pump

Sample Method: Pump

Sample Collection Time
Start: [redacted] Stop: [redacted]

Purge Time
Purge Rate: _____ liter/min. Start: 8:40 Stop: 9:35

control settings changes? 0W 1.4 / 4W 28.6 / 15 psi

cycles: _____

duration: _____

Volume of Water in well: 40 gals / hour

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	8:42	8:50	8:55	9:00	9:05	9:15	9:20	9:25	9:30
Temp	9.12	9.46	9.02	8.95		7.78	7.89	7.88	8.01
pH	6.63	6.64	6.64	6.65		6.66	6.66	6.67	6.68
Conductivity	1.191	1.181	1.192	1.190		1.189	1.188	1.187	1.187
ORP*	116	112	107	96		61	54	40	33
D.O.*	2.00	2.01	1.99	1.97		2.05	2.07	2.11	2.14
Turbidity*	–	13.14	11.14	12.57		8.99	8.89	8.64	8.60
Water Level	4.2	4.97	5.28	5.57		6.12	6.18	6.21	6.24

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12/5/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-25
Sample Date:
Locked? (Yes) No
Sample Time: NOT SAMPLED
(PVC) Steel Stainless
Weather: CLOUDY / COLD
Sampled By: GWS
Air Temp: 30°

Water Level and Well Data

Depth to water from measuring point: 13.84 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 ml liter/min

Purge Time
Start _____ Stop _____

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: 1 gallon (liters)

Was well purged dry (Yes) No

Field Analyses

** Stabilization Parameters*

Time								
Temp								
pH								
Conductivity								
ORP*								
D.O.*								
Turbidity*								
Water Level								

GROUNDWATER SAMPLING FIELD DATA

Location: White Street Landfill
Purge Date: 12/5/08
Project No.: 1584-98-081
Purge Time:
Source Well: MW-25B
Sample Date: 12/5/08
Locked? (Yes) No
Sample Time: 0810
(PVC) Steel Stainless
Weather: CLOUDY/COLD
Sampled By: GWS
Air Temp: 30°

Water Level and Well Data

Depth to water from measuring point: 13.79 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: 0805 Stop: 0810

Purge Time
Start: 0745 Stop: 0805

Purge Rate: 100 ml liter/min

control settings changes? 5.7 on 26.3 off @ 29 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: 3 gallon (liters)

Was well purged dry: Yes (No)

Field Analyses

* *Stabilization Parameters*

Time	0750	0755	0800	0805				
Temp	11.25	10.61	10.42	10.11				
pH	6.05	6.03	6.06	6.07				
Conductivity	.136	.134	.134	.134				
ORP*	169	155	146	144				
D.O.*	1.90	1.87	1.87	1.87				
Turbidity*	2.71	2.58	2.18	2.12				
Water Level	14.27	14.31	14.22	14.29				

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SURFACE WATER SAMPLING FIELD DATA

SITE NAME: White Street Landfill

Date: 12/4/08

S&ME PROJECT NO. 1584-98-081

Time : 1225

SAMPLE LOCATION: SW-1

Weather: SUNNY/CLEAR

SAMPLED BY: GWS

FIELD ANALYSES

Temperature 7.0°c

Specific Conductance 25.5 m S/m

pH 7.83

Physical Appearance and Odor CLEAR/NONE

Comments/Observations:

Samplers Initials: AL

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SURFACE WATER SAMPLING FIELD DATA

SITE NAME: White Street Landfill

Date: 12/4/08

S&ME PROJECT NO. 1584-98-081

Time : 1135

SAMPLE LOCATION: SW-2

Weather: SUNNY/CLEAR

SAMPLED BY:

FIELD ANALYSES

Temperature 7.0°c

Specific Conductance 31.6 mS/m

pH 7.82

Physical Appearance and Odor CLEAR/NONE

Comments/Observations:

Samplers Initials: AP

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SURFACE WATER SAMPLING FIELD DATA

SITE NAME: White Street Landfill

Date: 12/4/08

S&ME PROJECT NO. 1584-98-081

Time : 1200

SAMPLE LOCATION: SW-3

Weather: SUNNY / CLEAR

SAMPLED BY: GWS

FIELD ANALYSES

Temperature 11.3°c

Specific Conductance 32.6 m/m

pH 7.56

Physical Appearance and Odor

Comments/Observations:

Samplers Initials: AP

APPENDIX II

Laboratory Analytical Report – Main December 2008 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, January 20, 2009

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: C811840

Dear Edmund Henriques,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Saturday, December 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 73.

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PROJECT NARRATIVE

Date: January 20, 2009

Client: S&ME, Inc.

Project #: White Street Landfill App I Monitoring Wells

Lab ID: C11840

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by Environmental Conservation Laboratories, Inc. will be discussed in the QC Remarks section below.

Quality Control Samples

VGCMS Acetone was found in samples 4112 MW-21, MW-22, MW-23, MW-24, SW-1, SW-2, SW-3, SW-4 and SW-5. Although the analyte was not detected in the method blank, Acetone has been found to be a common laboratory contaminant.

Other Comments

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative. Should there be any questions regarding this package, please feel free to contact the undersigned for additional information.

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 4112 MW-15	Lab ID: C811840-01	Sampled: 12/03/08 16:00	Received: 12/06/08 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/01/09	12/08/08 09:59	12/11/2008 14:08
EPA 6020	06/01/09	12/08/08 13:33	12/12/2008 10:29
EPA 8260B	12/17/08	12/09/08 09:20	12/9/2008 20:40

Client ID: 4112 MW-16	Lab ID: C811840-02	Sampled: 12/03/08 15:05	Received: 12/06/08 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/01/09	12/08/08 10:03	12/16/2008 14:47
EPA 6020	06/01/09	12/08/08 13:33	12/12/2008 10:32
EPA 8260B	12/17/08	12/09/08 09:20	12/9/2008 21:09

Client ID: 4112 MW-17	Lab ID: C811840-03	Sampled: 12/05/08 09:15	Received: 12/06/08 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/03/09	12/08/08 10:03	12/16/2008 15:23
EPA 6020	06/03/09	12/08/08 13:33	12/12/2008 10:36
EPA 8260B	12/19/08	12/09/08 09:20	12/9/2008 21:38

Client ID: 4112 MW-18	Lab ID: C811840-04	Sampled: 12/03/08 11:40	Received: 12/06/08 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/01/09	12/08/08 10:03	12/16/2008 15:31
EPA 6020	06/01/09	12/08/08 13:33	12/12/2008 10:46
EPA 8260B	12/17/08	12/09/08 09:20	12/9/2008 22:08

Client ID: 4112 MW-19	Lab ID: C811840-05	Sampled: 12/03/08 17:00	Received: 12/06/08 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/01/09	12/08/08 10:03	12/16/2008 15:38
EPA 6020	06/01/09	12/08/08 13:33	12/12/2008 10:50
EPA 8260B	12/17/08	12/09/08 09:20	12/9/2008 22:37

Client ID: 4112 MW-20	Lab ID: C811840-06	Sampled: 12/04/08 15:35	Received: 12/06/08 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/02/09	12/08/08 10:03	12/16/2008 15:45
EPA 6020	06/02/09	12/08/08 13:33	12/12/2008 10:53
EPA 8260B	12/18/08	12/09/08 14:04	12/10/2008 04:26

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Client ID: 4112 MW-21	Lab ID: C811840-07	Sampled: 12/05/08 09:05	Received: 12/06/08 10:00
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	06/03/09	12/08/08 10:03	12/16/2008 15:52
EPA 6020	06/03/09	12/08/08 13:33	12/12/2008 10:57
EPA 8260B	12/19/08	12/09/08 14:04	12/10/2008 04:55

Client ID: 4112 MW-22	Lab ID: C811840-08	Sampled: 12/05/08 09:15	Received: 12/06/08 10:00
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	06/03/09	12/08/08 10:03	12/16/2008 16:22
EPA 6020	06/03/09	12/08/08 13:33	12/12/2008 11:00
EPA 8260B	12/19/08	12/09/08 14:04	12/10/2008 05:25

Client ID: 4112 MW-23	Lab ID: C811840-09	Sampled: 12/05/08 09:25	Received: 12/06/08 10:00
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	06/03/09	12/08/08 10:03	12/16/2008 16:30
EPA 6020	06/03/09	12/08/08 13:33	12/12/2008 11:04
EPA 8260B	12/19/08	12/09/08 14:04	12/10/2008 05:54

Client ID: 4112 MW-24	Lab ID: C811840-10	Sampled: 12/05/08 09:35	Received: 12/06/08 10:00
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	06/03/09	12/08/08 10:03	12/16/2008 16:37
EPA 6020	06/03/09	12/08/08 13:33	12/12/2008 11:07
EPA 8260B	12/19/08	12/09/08 14:04	12/10/2008 06:23

Client ID: 4112 MW-25B	Lab ID: C811840-11	Sampled: 12/05/08 08:10	Received: 12/06/08 10:00
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	06/03/09	12/08/08 10:03	12/16/2008 16:44
EPA 6020	06/03/09	12/08/08 13:33	12/12/2008 11:11
EPA 8260B	12/19/08	12/09/08 14:04	12/10/2008 06:52

Client ID: 4112 SW-1	Lab ID: C811840-12	Sampled: 12/04/08 12:25	Received: 12/06/08 10:00
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	06/02/09	12/08/08 10:03	12/16/2008 16:51
EPA 6020	06/02/09	12/08/08 13:33	12/12/2008 11:14
EPA 8260B	12/18/08	12/09/08 14:04	12/10/2008 07:21

Client ID: 4112 SW-2	Lab ID: C811840-13	Sampled: 12/04/08 11:35	Received: 12/06/08 10:00
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	06/02/09	12/08/08 10:03	12/16/2008 16:59
EPA 6020	06/02/09	12/08/08 13:37	12/12/2008 11:56
EPA 8260B	12/18/08	12/09/08 14:04	12/10/2008 07:50

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Client ID:	4112 SW-3	Lab ID:	C811840-14	Sampled:	12/04/08 12:00	Received:	12/06/08 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/02/09	12/08/08 10:03	12/16/2008 17:06
EPA 6020	06/02/09	12/08/08 13:37	12/12/2008 12:26
EPA 8260B	12/18/08	12/09/08 14:04	12/10/2008 08:19

Client ID:	4103 SW-4	Lab ID:	C811840-15	Sampled:	12/04/08 13:55	Received:	12/06/08 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/02/09	12/08/08 10:03	12/16/2008 17:13
EPA 6020	06/02/09	12/08/08 13:37	12/12/2008 12:30
EPA 8260B	12/18/08	12/09/08 14:04	12/10/2008 08:48

Client ID:	4103 SW-5	Lab ID:	C811840-16	Sampled:	12/04/08 11:00	Received:	12/06/08 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/02/09	12/08/08 10:03	12/16/2008 17:20
EPA 6020	06/02/09	12/08/08 13:37	12/12/2008 12:33
EPA 8260B	12/18/08	12/09/08 14:04	12/10/2008 09:17

Client ID:	4112 DUPLICATE-III	Lab ID:	C811840-17	Sampled:	12/04/08 07:00	Received:	12/06/08 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	06/02/09	12/08/08 10:03	12/16/2008 17:27
EPA 6020	06/02/09	12/08/08 13:37	12/12/2008 12:37
EPA 8260B	12/18/08	12/09/08 14:04	12/10/2008 09:46

Client ID:	4112 Trip Blank#3	Lab ID:	C811840-18	Sampled:	12/04/08 07:00	Received:	12/06/08 10:00

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	12/18/08	12/09/08 14:04	12/10/2008 10:16

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 4112 MW-15 **Lab ID:** C811840-01

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	28.6	J	1	1.00	10.0	100	ug/L	EPA 6010B	

Client ID: 4112 MW-16 **Lab ID:** C811840-02

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	163		1	1.00	10.0	100	ug/L	EPA 6010B	
Chromium	1.7	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Cobalt	1.6	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	7.80	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Nickel	6.9	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Zinc	13.8		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-17 **Lab ID:** C811840-03

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	49.3	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Chromium	2.0	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Nickel	2.3	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Vanadium	2.6	J	1	1.4	10.0	25	ug/L	EPA 6010B	

Client ID: 4112 MW-18 **Lab ID:** C811840-04

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	28.1	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Cobalt	9.1	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Vanadium	3.1	J	1	1.4	10.0	25	ug/L	EPA 6010B	

Client ID: 4112 MW-19 **Lab ID:** C811840-05

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	31.0	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Chromium	1.2	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Cobalt	1.2	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	2.80	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Nickel	3.0	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Silver	2.1	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Vanadium	3.6	J	1	1.4	10.0	25	ug/L	EPA 6010B	
Zinc	7.5	J	1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID: 4112 MW-20 **Lab ID:** C811840-06

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	63.6	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Cobalt	3.0	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	3.60	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Nickel	5.4	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Silver	2.9	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Vanadium	6.0	J	1	1.4	10.0	25	ug/L	EPA 6010B	

Client ID: 4112 MW-21 **Lab ID:** C811840-07

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	8.6	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Arsenic	3.6	J	1	2.8	10.0	10	ug/L	EPA 6010B	

Client ID:	4112 MW-21				Lab ID:	C811840-07			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium	30.1	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Chromium	3.2	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Cobalt	2.2	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	2.30	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Nickel	3.1	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Silver	2.2	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Vanadium	2.3	J	1	1.4	10.0	25	ug/L	EPA 6010B	
Zinc	5.2	J	1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID:	4112 MW-22				Lab ID:	C811840-08			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Acetone	9.6	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium	78.5	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Cobalt	1.4	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Nickel	2.4	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Silver	2.0	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Zinc	3.9	J	1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID:	4112 MW-23				Lab ID:	C811840-09			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Acetone	11	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium	61.4	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Nickel	1.8	J	1	1.8	10.0	50	ug/L	EPA 6010B	

Client ID:	4112 MW-24				Lab ID:	C811840-10			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Acetone	7.7	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium	444		1	1.00	10.0	100	ug/L	EPA 6010B	
Cobalt	4.3	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	9.20	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Nickel	3.7	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Silver	3.8	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Vanadium	2.0	J	1	1.4	10.0	25	ug/L	EPA 6010B	
Zinc	9.0	J	1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID:	4112 MW-25B				Lab ID:	C811840-11			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Barium	12.4	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Chromium	3.0	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Vanadium	3.7	J	1	1.4	10.0	25	ug/L	EPA 6010B	

Client ID:	4112 SW-1				Lab ID:	C811840-12			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Acetone	9.4	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Arsenic	3.3	J	1	2.8	10.0	10	ug/L	EPA 6010B	
Barium	40.6	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Chromium	3.1	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Cobalt	1.1	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	3.60	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Nickel	2.3	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Zinc	15.1		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID:	4112 SW-2				Lab ID:	C811840-13			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Acetone	7.9	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium	35.9	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Cobalt	1.1	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	20.5		1	1.60	10.0	10	ug/L	EPA 6010B	
Zinc	22.4		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID:	4112 SW-3				Lab ID:	C811840-14			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Acetone	9.1	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium	21.8	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Chloroform	0.58	J	1	0.20	1.0	5	ug/L	EPA 8260B	
Chromium	2.3	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Copper	4.60	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Nickel	4.3	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Zinc	47.9		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID:	4103 SW-4				Lab ID:	C811840-15			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Acetone	7.6	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium	27.0	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Copper	4.30	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Nickel	3.8	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Zinc	35.3		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID:	4103 SW-5				Lab ID:	C811840-16			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Acetone	7.8	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Barium	27.0	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Chromium	1.4	J	1	1.0	10.0	10	ug/L	EPA 6010B	
Cobalt	2.9	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	6.40	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Nickel	3.2	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Silver	2.8	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Vanadium	2.5	J	1	1.4	10.0	25	ug/L	EPA 6010B	
Zinc	34.6		1	3.8	10.0	10	ug/L	EPA 6010B	

Client ID:	4112 DUPLICATE-III				Lab ID:	C811840-17			
Analyte	**Results**	**Flag**	**DF**	**MDL**	**MRL**	**NC SWSL**	**Units**	**Method**	**Notes**
Antimony	1.38	J	1	0.68	2.00	6	ug/L	EPA 6020	
Arsenic	2.8	J	1	2.8	10.0	10	ug/L	EPA 6010B	
Barium	63.2	J	1	1.00	10.0	100	ug/L	EPA 6010B	
Cobalt	2.3	J	1	1.1	10.0	10	ug/L	EPA 6010B	
Copper	2.50	J	1	1.60	10.0	10	ug/L	EPA 6010B	
Nickel	4.8	J	1	1.8	10.0	50	ug/L	EPA 6010B	
Silver	2.0	J	1	1.9	10.0	10	ug/L	EPA 6010B	
Vanadium	5.5	J	1	1.4	10.0	25	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: C811840-01
Sampled: 12/03/08 16:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/09/08 20:40	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/09/08 20:40	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/09/08 20:40	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/09/08 20:40	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/09/08 20:40	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/09/08 20:40	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/09/08 20:40	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/09/08 20:40	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/09/08 20:40	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/09/08 20:40	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/09/08 20:40	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/09/08 20:40	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/09/08 20:40	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/09/08 20:40	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/09/08 20:40	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/09/08 20:40	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/09/08 20:40	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/09/08 20:40	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/09/08 20:40	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/09/08 20:40	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/09/08 20:40	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/09/08 20:40	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/09/08 20:40	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/09/08 20:40	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/09/08 20:40	JKG	

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

Lab Sample ID: C811840-01
Sampled: 12/03/08 16:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/09/08 20:40	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	12/09/08 20:40	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/09/08 20:40	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*51-122*	*8L09010*	*EPA 8260B*	*12/09/08 20:40*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*8L09010*	*EPA 8260B*	*12/09/08 20:40*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*8L09010*	*EPA 8260B*	*12/09/08 20:40*	*JKG*	

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

Lab Sample ID: C811840-01
Sampled: 12/03/08 16:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 10:29	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/11/08 14:08	JDH	
Barium [7440-39-3] ^	**28.6**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/11/08 14:08	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/11/08 14:08	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/11/08 14:08	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	12/11/08 14:08	JDH	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	10	EPA 6010B	12/11/08 14:08	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	12/11/08 14:08	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/11/08 14:08	JDH	
Nickel [7440-02-0] ^	1.8	U	ug/L	1	1.8	10.0	50	EPA 6010B	12/11/08 14:08	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/11/08 14:08	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/11/08 14:08	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 10:29	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	12/11/08 14:08	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	12/11/08 14:08	JDH	

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

Lab Sample ID: C811840-02
Sampled: 12/03/08 15:05
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/09/08 21:09	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/09/08 21:09	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/09/08 21:09	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/09/08 21:09	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/09/08 21:09	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/09/08 21:09	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/09/08 21:09	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/09/08 21:09	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/09/08 21:09	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/09/08 21:09	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/09/08 21:09	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/09/08 21:09	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/09/08 21:09	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/09/08 21:09	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/09/08 21:09	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/09/08 21:09	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/09/08 21:09	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/09/08 21:09	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/09/08 21:09	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/09/08 21:09	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/09/08 21:09	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/09/08 21:09	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/09/08 21:09	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/09/08 21:09	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/09/08 21:09	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/09/08 21:09	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/09/08 21:09	JKG	

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

Lab Sample ID: C811840-02
Sampled: 12/03/08 15:05
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/09/08 21:09	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/09/08 21:09	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*51-122*	*8L09010*	*EPA 8260B*	*12/09/08 21:09*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*68-117*	*8L09010*	*EPA 8260B*	*12/09/08 21:09*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*8L09010*	*EPA 8260B*	*12/09/08 21:09*	*JKG*	

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

Lab Sample ID: C811840-02
Sampled: 12/03/08 15:05
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 10:32	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 14:47	JDH	
Barium [7440-39-3] ^	**163**		ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 14:47	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 14:47	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 14:47	JDH	
Chromium [7440-47-3] ^	**1.7**	J	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 14:47	JDH	
Cobalt [7440-48-4] ^	**1.6**	J	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 14:47	JDH	
Copper [7440-50-8] ^	**7.80**	J	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 14:47	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 14:47	JDH	
Nickel [7440-02-0] ^	**6.9**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 14:47	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 14:47	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 14:47	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 10:32	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 14:47	JDH	
Zinc [7440-66-6] ^	**13.8**		ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 14:47	JDH	

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: C811840-03
Sampled: 12/05/08 09:15
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/09/08 21:38	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/09/08 21:38	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/09/08 21:38	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/09/08 21:38	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/09/08 21:38	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/09/08 21:38	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/09/08 21:38	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/09/08 21:38	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/09/08 21:38	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/09/08 21:38	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/09/08 21:38	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/09/08 21:38	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/09/08 21:38	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/09/08 21:38	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/09/08 21:38	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/09/08 21:38	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/09/08 21:38	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/09/08 21:38	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/09/08 21:38	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/09/08 21:38	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/09/08 21:38	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/09/08 21:38	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/09/08 21:38	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/09/08 21:38	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/09/08 21:38	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/09/08 21:38	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/09/08 21:38	JKG	

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

Lab Sample ID: C811840-03
Sampled: 12/05/08 09:15
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/09/08 21:38	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/09/08 21:38	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*51-122*	*8L09010*	*EPA 8260B*	*12/09/08 21:38*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*68-117*	*8L09010*	*EPA 8260B*	*12/09/08 21:38*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*8L09010*	*EPA 8260B*	*12/09/08 21:38*	*JKG*	

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

Lab Sample ID: C811840-03
Sampled: 12/05/08 09:15
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 10:36	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 15:23	JDH	
Barium [7440-39-3] ^	**49.3**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 15:23	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 15:23	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 15:23	JDH	
Chromium [7440-47-3] ^	**2.0**	J	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 15:23	JDH	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 15:23	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 15:23	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 15:23	JDH	
Nickel [7440-02-0] ^	**2.3**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 15:23	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 15:23	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 15:23	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 10:36	VLO	
Vanadium [7440-62-2] ^	**2.6**	J	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 15:23	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 15:23	JDH	

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: C811840-04
Sampled: 12/03/08 11:40
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/09/08 22:08	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/09/08 22:08	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/09/08 22:08	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/09/08 22:08	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/09/08 22:08	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/09/08 22:08	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/09/08 22:08	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/09/08 22:08	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/09/08 22:08	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/09/08 22:08	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/09/08 22:08	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/09/08 22:08	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/09/08 22:08	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/09/08 22:08	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/09/08 22:08	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/09/08 22:08	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/09/08 22:08	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/09/08 22:08	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/09/08 22:08	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/09/08 22:08	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/09/08 22:08	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/09/08 22:08	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/09/08 22:08	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/09/08 22:08	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/09/08 22:08	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/09/08 22:08	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/09/08 22:08	JKG	

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

Lab Sample ID: C811840-04
Sampled: 12/03/08 11:40
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/09/08 22:08	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/09/08 22:08	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*51-122*	*8L09010*	*EPA 8260B*	*12/09/08 22:08*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*8L09010*	*EPA 8260B*	*12/09/08 22:08*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*8L09010*	*EPA 8260B*	*12/09/08 22:08*	*JKG*	

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

Lab Sample ID: C811840-04
Sampled: 12/03/08 11:40
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 10:46	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 15:31	JDH	
Barium [7440-39-3] ^	**28.1**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 15:31	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 15:31	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 15:31	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 15:31	JDH	
Cobalt [7440-48-4] ^	**9.1**	J	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 15:31	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 15:31	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 15:31	JDH	
Nickel [7440-02-0] ^	1.8	U	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 15:31	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 15:31	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 15:31	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 10:46	VLO	
Vanadium [7440-62-2] ^	**3.1**	J	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 15:31	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 15:31	JDH	

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 Appl Monitoring Wells

Lab Sample ID: C811840-05
Sampled: 12/03/08 17:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/09/08 22:37	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/09/08 22:37	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/09/08 22:37	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/09/08 22:37	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/09/08 22:37	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/09/08 22:37	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/09/08 22:37	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/09/08 22:37	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/09/08 22:37	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/09/08 22:37	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/09/08 22:37	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/09/08 22:37	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/09/08 22:37	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/09/08 22:37	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/09/08 22:37	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/09/08 22:37	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/09/08 22:37	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/09/08 22:37	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/09/08 22:37	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/09/08 22:37	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/09/08 22:37	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/09/08 22:37	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/09/08 22:37	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/09/08 22:37	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/09/08 22:37	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/09/08 22:37	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/09/08 22:37	JKG	

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

Lab Sample ID: C811840-05
Sampled: 12/03/08 17:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/09/08 22:37	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/09/08 22:37	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*51-122*	*8L09010*	*EPA 8260B*	*12/09/08 22:37*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*100 %*	*68-117*	*8L09010*	*EPA 8260B*	*12/09/08 22:37*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*100 %*	*69-110*	*8L09010*	*EPA 8260B*	*12/09/08 22:37*	*JKG*	

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

Lab Sample ID: C811840-05
Sampled: 12/03/08 17:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 10:50	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 15:38	JDH	
Barium [7440-39-3] ^	**31.0**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 15:38	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 15:38	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 15:38	JDH	
Chromium [7440-47-3] ^	**1.2**	J	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 15:38	JDH	
Cobalt [7440-48-4] ^	**1.2**	J	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 15:38	JDH	
Copper [7440-50-8] ^	**2.80**	J	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 15:38	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 15:38	JDH	
Nickel [7440-02-0] ^	**3.0**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 15:38	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 15:38	JDH	
Silver [7440-22-4] ^	**2.1**	J	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 15:38	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 10:50	VLO	
Vanadium [7440-62-2] ^	**3.6**	J	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 15:38	JDH	
Zinc [7440-66-6] ^	**7.5**	J	ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 15:38	JDH	

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: C811840-06
Sampled: 12/04/08 15:35
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 04:26	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 04:26	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 04:26	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 04:26	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 04:26	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 04:26	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 04:26	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 04:26	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 04:26	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 04:26	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 04:26	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 04:26	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 04:26	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 04:26	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 04:26	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 04:26	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 04:26	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 04:26	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 04:26	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 04:26	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 04:26	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 04:26	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 04:26	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 04:26	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 04:26	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 04:26	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 04:26	JKG	

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

Lab Sample ID: C811840-06
Sampled: 12/04/08 15:35
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 04:26	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 04:26	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 04:26*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*99 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 04:26*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 04:26*	*JKG*	

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

Lab Sample ID: C811840-06
Sampled: 12/04/08 15:35
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 10:53	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 15:45	JDH	
Barium [7440-39-3] ^	**63.6**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 15:45	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 15:45	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 15:45	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 15:45	JDH	
Cobalt [7440-48-4] ^	**3.0**	J	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 15:45	JDH	
Copper [7440-50-8] ^	**3.60**	J	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 15:45	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 15:45	JDH	
Nickel [7440-02-0] ^	**5.4**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 15:45	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 15:45	JDH	
Silver [7440-22-4] ^	**2.9**	J	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 15:45	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 10:53	VLO	
Vanadium [7440-62-2] ^	**6.0**	J	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 15:45	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 15:45	JDH	

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

Lab Sample ID: C811840-07
Sampled: 12/05/08 09:05
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 04:55	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 04:55	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 04:55	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 04:55	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 04:55	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 04:55	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 04:55	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 04:55	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 04:55	JKG	
Acetone [67-64-1] ^	**8.6**	J	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 04:55	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 04:55	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 04:55	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 04:55	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 04:55	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 04:55	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 04:55	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 04:55	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 04:55	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 04:55	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 04:55	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 04:55	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 04:55	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 04:55	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 04:55	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 04:55	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 04:55	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 04:55	JKG	

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

Lab Sample ID: C811840-07
Sampled: 12/05/08 09:05
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 04:55	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 04:55	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 04:55*	*JKG*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 04:55*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 04:55*	*JKG*	

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

Lab Sample ID: C811840-07
Sampled: 12/05/08 09:05
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 10:57	VLO	
Arsenic [7440-38-2] ^	**3.6**	J	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 15:52	JDH	
Barium [7440-39-3] ^	**30.1**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 15:52	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 15:52	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 15:52	JDH	
Chromium [7440-47-3] ^	**3.2**	J	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 15:52	JDH	
Cobalt [7440-48-4] ^	**2.2**	J	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 15:52	JDH	
Copper [7440-50-8] ^	**2.30**	J	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 15:52	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 15:52	JDH	
Nickel [7440-02-0] ^	**3.1**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 15:52	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 15:52	JDH	
Silver [7440-22-4] ^	**2.2**	J	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 15:52	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 10:57	VLO	
Vanadium [7440-62-2] ^	**2.3**	J	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 15:52	JDH	
Zinc [7440-66-6] ^	**5.2**	J	ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 15:52	JDH	

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

Lab Sample ID: C811840-08
Sampled: 12/05/08 09:15
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 05:25	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 05:25	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 05:25	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 05:25	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 05:25	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 05:25	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 05:25	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 05:25	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 05:25	JKG	
Acetone [67-64-1] ^	**9.6**	J	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 05:25	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 05:25	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 05:25	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 05:25	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 05:25	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 05:25	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 05:25	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 05:25	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 05:25	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 05:25	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 05:25	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 05:25	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 05:25	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 05:25	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 05:25	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 05:25	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 05:25	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 05:25	JKG	

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

Lab Sample ID: C811840-08
Sampled: 12/05/08 09:15
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 05:25	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 05:25	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 05:25*	*JKG*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 05:25*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 05:25*	*JKG*	

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

Lab Sample ID: C811840-08
Sampled: 12/05/08 09:15
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 11:00	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 16:22	JDH	
Barium [7440-39-3] ^	**78.5**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 16:22	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 16:22	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 16:22	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 16:22	JDH	
Cobalt [7440-48-4] ^	**1.4**	J	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 16:22	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 16:22	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:22	JDH	
Nickel [7440-02-0] ^	**2.4**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 16:22	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 16:22	JDH	
Silver [7440-22-4] ^	**2.0**	J	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:22	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 11:00	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 16:22	JDH	
Zinc [7440-66-6] ^	**3.9**	J	ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 16:22	JDH	

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

Lab Sample ID: C811840-09
Sampled: 12/05/08 09:25
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 05:54	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 05:54	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 05:54	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 05:54	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 05:54	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 05:54	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 05:54	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 05:54	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 05:54	JKG	
Acetone [67-64-1] ^	**11**	J	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 05:54	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 05:54	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 05:54	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 05:54	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 05:54	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 05:54	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 05:54	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 05:54	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 05:54	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 05:54	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 05:54	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 05:54	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 05:54	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 05:54	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 05:54	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 05:54	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 05:54	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 05:54	JKG	

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

Lab Sample ID: C811840-09
Sampled: 12/05/08 09:25
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 05:54	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 05:54	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*103 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 05:54*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*103 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 05:54*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 05:54*	*JKG*	

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

Lab Sample ID: C811840-09
Sampled: 12/05/08 09:25
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 11:04	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 16:30	JDH	
Barium [7440-39-3] ^	**61.4**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 16:30	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 16:30	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 16:30	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 16:30	JDH	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 16:30	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 16:30	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:30	JDH	
Nickel [7440-02-0] ^	**1.8**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 16:30	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 16:30	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:30	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 11:04	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 16:30	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 16:30	JDH	

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

Lab Sample ID: C811840-10
Sampled: 12/05/08 09:35
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 06:23	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 06:23	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 06:23	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 06:23	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 06:23	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 06:23	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 06:23	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 06:23	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 06:23	JKG	
Acetone [67-64-1] ^	**7.7**	J	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 06:23	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 06:23	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 06:23	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 06:23	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 06:23	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 06:23	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 06:23	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 06:23	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 06:23	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 06:23	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 06:23	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 06:23	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 06:23	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 06:23	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 06:23	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 06:23	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 06:23	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 06:23	JKG	

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

Lab Sample ID: C811840-10
Sampled: 12/05/08 09:35
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 06:23	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 06:23	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 06:23*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 06:23*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 06:23*	*JKG*	

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

Lab Sample ID: C811840-10
Sampled: 12/05/08 09:35
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 11:07	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 16:37	JDH	
Barium [7440-39-3] ^	**444**		ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 16:37	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 16:37	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 16:37	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 16:37	JDH	
Cobalt [7440-48-4] ^	**4.3**	J	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 16:37	JDH	
Copper [7440-50-8] ^	**9.20**	J	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 16:37	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:37	JDH	
Nickel [7440-02-0] ^	**3.7**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 16:37	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 16:37	JDH	
Silver [7440-22-4] ^	**3.8**	J	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:37	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 11:07	VLO	
Vanadium [7440-62-2] ^	**2.0**	J	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 16:37	JDH	
Zinc [7440-66-6] ^	**9.0**	J	ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 16:37	JDH	

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

Lab Sample ID: C811840-11
Sampled: 12/05/08 08:10
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 06:52	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 06:52	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 06:52	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 06:52	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 06:52	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 06:52	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 06:52	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 06:52	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 06:52	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 06:52	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 06:52	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 06:52	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 06:52	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 06:52	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 06:52	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 06:52	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 06:52	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 06:52	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 06:52	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 06:52	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 06:52	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 06:52	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 06:52	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 06:52	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 06:52	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 06:52	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 06:52	JKG	

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

Lab Sample ID: C811840-11
Sampled: 12/05/08 08:10
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 06:52	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 06:52	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*103 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 06:52*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*103 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 06:52*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 06:52*	*JKG*	

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

Lab Sample ID: C811840-11
Sampled: 12/05/08 08:10
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 11:11	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 16:44	JDH	
Barium [7440-39-3] ^	**12.4**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 16:44	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 16:44	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 16:44	JDH	
Chromium [7440-47-3] ^	**3.0**	J	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 16:44	JDH	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 16:44	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 16:44	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:44	JDH	
Nickel [7440-02-0] ^	1.8	U	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 16:44	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 16:44	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:44	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 11:11	VLO	
Vanadium [7440-62-2] ^	**3.7**	J	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 16:44	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 16:44	JDH	

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Description: 4112 SW-1
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C811840-12
Sampled: 12/04/08 12:25
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 07:21	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 07:21	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 07:21	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 07:21	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 07:21	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 07:21	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 07:21	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 07:21	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 07:21	JKG	
Acetone [67-64-1] ^	**9.4**	J	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 07:21	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 07:21	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 07:21	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 07:21	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 07:21	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 07:21	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 07:21	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 07:21	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 07:21	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 07:21	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 07:21	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 07:21	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 07:21	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 07:21	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 07:21	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 07:21	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 07:21	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 07:21	JKG	

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Description: 4112 SW-1
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C811840-12
Sampled: 12/04/08 12:25
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 07:21	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 07:21	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*101 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 07:21*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*103 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 07:21*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 07:21*	*JKG*	

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Description: 4112 SW-1
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C811840-12
Sampled: 12/04/08 12:25
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 11:14	VLO	
Arsenic [7440-38-2] ^	**3.3**	J	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 16:51	JDH	
Barium [7440-39-3] ^	**40.6**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 16:51	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 16:51	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 16:51	JDH	
Chromium [7440-47-3] ^	**3.1**	J	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 16:51	JDH	
Cobalt [7440-48-4] ^	**1.1**	J	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 16:51	JDH	
Copper [7440-50-8] ^	**3.60**	J	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 16:51	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:51	JDH	
Nickel [7440-02-0] ^	**2.3**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 16:51	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 16:51	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:51	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 11:14	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 16:51	JDH	
Zinc [7440-66-6] ^	**15.1**		ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 16:51	JDH	

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: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C811840-13
Sampled: 12/04/08 11:35
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 07:50	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 07:50	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 07:50	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 07:50	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 07:50	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 07:50	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 07:50	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 07:50	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 07:50	JKG	
Acetone [67-64-1] ^	**7.9**	J	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 07:50	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 07:50	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 07:50	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 07:50	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 07:50	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 07:50	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 07:50	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 07:50	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 07:50	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 07:50	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 07:50	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 07:50	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 07:50	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 07:50	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 07:50	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 07:50	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 07:50	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 07:50	JKG	

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

Lab Sample ID: C811840-13
Sampled: 12/04/08 11:35
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 07:50	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 07:50	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*100 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 07:50*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 07:50*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 07:50*	*JKG*	

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Description: 4112 SW-2
Matrix: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C811840-13
Sampled: 12/04/08 11:35
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 11:56	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 16:59	JDH	
Barium [7440-39-3] ^	**35.9**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 16:59	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 16:59	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 16:59	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 16:59	JDH	
Cobalt [7440-48-4] ^	**1.1**	J	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 16:59	JDH	
Copper [7440-50-8] ^	**20.5**		ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 16:59	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:59	JDH	
Nickel [7440-02-0] ^	1.8	U	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 16:59	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 16:59	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 16:59	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 11:56	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 16:59	JDH	
Zinc [7440-66-6] ^	**22.4**		ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 16:59	JDH	

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: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C811840-14
Sampled: 12/04/08 12:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 08:19	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 08:19	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 08:19	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 08:19	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 08:19	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 08:19	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 08:19	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 08:19	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 08:19	JKG	
Acetone [67-64-1] ^	**9.1**	J	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 08:19	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 08:19	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 08:19	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 08:19	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 08:19	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 08:19	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 08:19	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 08:19	JKG	
Chloroform [67-66-3] ^	**0.58**	J	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 08:19	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 08:19	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 08:19	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 08:19	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 08:19	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 08:19	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 08:19	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 08:19	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 08:19	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 08:19	JKG	

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

Lab Sample ID: C811840-14
Sampled: 12/04/08 12:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 08:19	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 08:19	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 08:19*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 08:19*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*99 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 08:19*	*JKG*	

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

Lab Sample ID: C811840-14
Sampled: 12/04/08 12:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 12:26	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 17:06	JDH	
Barium [7440-39-3] ^	**21.8**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 17:06	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 17:06	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 17:06	JDH	
Chromium [7440-47-3] ^	**2.3**	J	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 17:06	JDH	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 17:06	JDH	
Copper [7440-50-8] ^	**4.60**	J	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 17:06	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 17:06	JDH	
Nickel [7440-02-0] ^	**4.3**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 17:06	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 17:06	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 17:06	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 12:26	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 17:06	JDH	
Zinc [7440-66-6] ^	**47.9**		ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 17:06	JDH	

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: Ground Water
Project: White Street Landfill AppI Monitoring Wells

Lab Sample ID: C811840-15
Sampled: 12/04/08 13:55
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 08:48	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 08:48	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 08:48	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 08:48	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 08:48	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 08:48	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 08:48	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 08:48	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 08:48	JKG	
Acetone [67-64-1] ^	**7.6**	J	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 08:48	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 08:48	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 08:48	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 08:48	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 08:48	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 08:48	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 08:48	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 08:48	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 08:48	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 08:48	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 08:48	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 08:48	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 08:48	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 08:48	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 08:48	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 08:48	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 08:48	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 08:48	JKG	

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

Lab Sample ID: C811840-15
Sampled: 12/04/08 13:55
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 08:48	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 08:48	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 08:48*	*JKG*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 08:48*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 08:48*	*JKG*	

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

Lab Sample ID: C811840-15
Sampled: 12/04/08 13:55
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 12:30	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 17:13	JDH	
Barium [7440-39-3] ^	**27.0**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 17:13	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 17:13	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 17:13	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 17:13	JDH	
Cobalt [7440-48-4] ^	1.1	U	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 17:13	JDH	
Copper [7440-50-8] ^	**4.30**	J	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 17:13	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 17:13	JDH	
Nickel [7440-02-0] ^	**3.8**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 17:13	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 17:13	JDH	
Silver [7440-22-4] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 17:13	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 12:30	VLO	
Vanadium [7440-62-2] ^	1.4	U	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 17:13	JDH	
Zinc [7440-66-6] ^	**35.3**		ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 17:13	JDH	

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-5
Matrix: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C811840-16
Sampled: 12/04/08 11:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 09:17	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 09:17	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 09:17	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 09:17	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 09:17	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 09:17	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 09:17	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 09:17	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 09:17	JKG	
Acetone [67-64-1] ^	**7.8**	J	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 09:17	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 09:17	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 09:17	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 09:17	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 09:17	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 09:17	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 09:17	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 09:17	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 09:17	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 09:17	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 09:17	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 09:17	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 09:17	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 09:17	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 09:17	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 09:17	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 09:17	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 09:17	JKG	

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

Lab Sample ID: C811840-16
Sampled: 12/04/08 11:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 09:17	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 09:17	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 09:17*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*104 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 09:17*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 09:17*	*JKG*	

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

Lab Sample ID: C811840-16
Sampled: 12/04/08 11:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/12/08 12:33	VLO	
Arsenic [7440-38-2] ^	2.8	U	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 17:20	JDH	
Barium [7440-39-3] ^	**27.0**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 17:20	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 17:20	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 17:20	JDH	
Chromium [7440-47-3] ^	**1.4**	J	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 17:20	JDH	
Cobalt [7440-48-4] ^	**2.9**	J	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 17:20	JDH	
Copper [7440-50-8] ^	**6.40**	J	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 17:20	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 17:20	JDH	
Nickel [7440-02-0] ^	**3.2**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 17:20	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 17:20	JDH	
Silver [7440-22-4] ^	**2.8**	J	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 17:20	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 12:33	VLO	
Vanadium [7440-62-2] ^	**2.5**	J	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 17:20	JDH	
Zinc [7440-66-6] ^	**34.6**		ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 17:20	JDH	

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: Ground Water
Project: White Street Landfill Appl Monitoring Wells

Lab Sample ID: C811840-17
Sampled: 12/04/08 07:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 09:46	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 09:46	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 09:46	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 09:46	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 09:46	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 09:46	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 09:46	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 09:46	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 09:46	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 09:46	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 09:46	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 09:46	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 09:46	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 09:46	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 09:46	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 09:46	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 09:46	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 09:46	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 09:46	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 09:46	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 09:46	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 09:46	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 09:46	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 09:46	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 09:46	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 09:46	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 09:46	JKG	

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Description:	4112 DUPLICATE-III	**Lab Sample ID:**	C811840-17	**Received:**	12/06/08 10:00
Matrix:	Ground Water	**Sampled:**	12/04/08 07:00	**Work Order:**	C811840
Project:	White Street Landfill Appl Monitoring Wells	**Sampled By:**	Gary Simcox		

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	12/10/08 09:46	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 09:46	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*51*	*1*	*50.0*	*102 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 09:46*	*JKG*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 09:46*	*JKG*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 09:46*	*JKG*	

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

Lab Sample ID: C811840-17
Sampled: 12/04/08 07:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	**1.38**	J	ug/L	1	0.68	2.00	6	EPA 6020	12/12/08 12:37	VLO	
Arsenic [7440-38-2] ^	**2.8**	J	ug/L	1	2.8	10.0	10	EPA 6010B	12/16/08 17:27	JDH	
Barium [7440-39-3] ^	**63.2**	J	ug/L	1	1.00	10.0	100	EPA 6010B	12/16/08 17:27	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	1	EPA 6010B	12/16/08 17:27	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	1	EPA 6010B	12/16/08 17:27	JDH	
Chromium [7440-47-3] ^	1.0	U	ug/L	1	1.0	10.0	10	EPA 6010B	12/16/08 17:27	JDH	
Cobalt [7440-48-4] ^	**2.3**	J	ug/L	1	1.1	10.0	10	EPA 6010B	12/16/08 17:27	JDH	
Copper [7440-50-8] ^	**2.50**	J	ug/L	1	1.60	10.0	10	EPA 6010B	12/16/08 17:27	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 17:27	JDH	
Nickel [7440-02-0] ^	**4.8**	J	ug/L	1	1.8	10.0	50	EPA 6010B	12/16/08 17:27	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	10	EPA 6010B	12/16/08 17:27	JDH	
Silver [7440-22-4] ^	**2.0**	J	ug/L	1	1.9	10.0	10	EPA 6010B	12/16/08 17:27	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	5.5	EPA 6020	12/12/08 12:37	VLO	
Vanadium [7440-62-2] ^	**5.5**	J	ug/L	1	1.4	10.0	25	EPA 6010B	12/16/08 17:27	JDH	
Zinc [7440-66-6] ^	3.8	U	ug/L	1	3.8	10.0	10	EPA 6010B	12/16/08 17:27	JDH	

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: C811840-18
Sampled: 12/04/08 07:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 10:16	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	12/10/08 10:16	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	12/10/08 10:16	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	12/10/08 10:16	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	12/10/08 10:16	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	12/10/08 10:16	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	12/10/08 10:16	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	12/10/08 10:16	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	12/10/08 10:16	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	12/10/08 10:16	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	5.0	200	EPA 8260B	12/10/08 10:16	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	12/10/08 10:16	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	12/10/08 10:16	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	12/10/08 10:16	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	12/10/08 10:16	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	12/10/08 10:16	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	12/10/08 10:16	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	12/10/08 10:16	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	12/10/08 10:16	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	12/10/08 10:16	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	12/10/08 10:16	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	2.0	10	EPA 8260B	12/10/08 10:16	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	2.0	1	EPA 8260B	12/10/08 10:16	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	12/10/08 10:16	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	12/10/08 10:16	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	12/10/08 10:16	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	2.0	50	EPA 8260B	12/10/08 10:16	JKG	

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

Lab Sample ID: C811840-18
Sampled: 12/04/08 07:00
Sampled By: Gary Simcox

Received: 12/06/08 10:00
Work Order: C811840

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	12/10/08 10:16	JKG	
Xylenes (Total) [1330-20-7]	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	12/10/08 10:16	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*51-122*	*8L09027*	*EPA 8260B*	*12/10/08 10:16*	*JKG*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*68-117*	*8L09027*	*EPA 8260B*	*12/10/08 10:16*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*69-110*	*8L09027*	*EPA 8260B*	*12/10/08 10:16*	*JKG*	

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L09010 - EPA 5030B_MS

Blank (8L09010-BLK1) Prepared: 12/09/2008 09:16 Analyzed: 12/09/2008 12:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	**0.55**	**J**	1.0	ug/L							QB-01
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*51-122*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L09010 - EPA 5030B_MS

Blank (8L09010-BLK1) Continued Prepared: 12/09/2008 09:16 Analyzed: 12/09/2008 12:51

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	*48*			*ug/L*	*50.0*		*95*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*69-110*			

LCS (8L09010-BS1) Prepared: 12/09/2008 09:16 Analyzed: 12/09/2008 13:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		88	75-133			
Benzene	18		1.0	ug/L	20.0		88	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	19	B	1.0	ug/L	20.0		95	75-115			

Matrix Spike (8L09010-MS1) Prepared: 12/09/2008 09:16 Analyzed: 12/09/2008 13:49

Source: C813461-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.24 U	91	75-133			
Benzene	18		1.0	ug/L	20.0	0.20 U	89	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	102	83-117			
Toluene	19		1.0	ug/L	20.0	0.27 U	94	71-118			
Trichloroethene	19	B	1.0	ug/L	20.0	0.54	94	75-115			

Matrix Spike Dup (8L09010-MSD1) Prepared: 12/09/2008 09:16 Analyzed: 12/09/2008 14:21

Source: C813461-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.24 U	90	75-133	0.8	20	
Benzene	18		1.0	ug/L	20.0	0.20 U	90	81-134	1	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	100	83-117	2	16	
Toluene	18		1.0	ug/L	20.0	0.27 U	92	71-118	2	17	
Trichloroethene	20	B	1.0	ug/L	20.0	0.54	96	75-115	3	18	

Batch 8L09027 - EPA 5030B_MS

Blank (8L09027-BLK1) Prepared: 12/09/2008 14:04 Analyzed: 12/10/2008 01:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L09027 - EPA 5030B_MS

Blank (8L09027-BLK1) Continued Prepared: 12/09/2008 14:04 Analyzed: 12/10/2008 01:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*99*	*68-117*			
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*69-110*			

LCS (8L09027-BS1) Prepared: 12/09/2008 14:04 Analyzed: 12/10/2008 01:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		92	75-133			
Benzene	17		1.0	ug/L	20.0		87	81-134			
Chlorobenzene	19		1.0	ug/L	20.0		97	83-117			
Toluene	18		1.0	ug/L	20.0		90	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L09027 - EPA 5030B_MS

LCS (8L09027-BS1) Continued Prepared: 12/09/2008 14:04 Analyzed: 12/10/2008 01:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	18		1.0	ug/L	20.0		92	75-115			

Matrix Spike (8L09027-MS1) Prepared: 12/09/2008 14:04 Analyzed: 12/10/2008 02:01

Source: C813461-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	93	75-133			
Benzene	18		1.0	ug/L	20.0	0.20 U	91	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	98	83-117			
Toluene	18		1.0	ug/L	20.0	0.27 U	92	71-118			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	95	75-115			

Matrix Spike Dup (8L09027-MSD1) Prepared: 12/09/2008 14:04 Analyzed: 12/10/2008 02:30

Source: C813461-07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.24 U	91	75-133	1	20	
Benzene	17		1.0	ug/L	20.0	0.20 U	86	81-134	6	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	98	83-117	0.8	16	
Toluene	18		1.0	ug/L	20.0	0.27 U	91	71-118	0.9	17	
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	94	75-115	1	18	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L08013 - EPA 3005A

Blank (8L08013-BLK1) Prepared: 12/08/2008 09:59 Analyzed: 12/11/2008 13:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.10	U	1.00	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Chromium	**1.4**	**J**	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.9	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8L08013-BS1) Prepared: 12/08/2008 09:59 Analyzed: 12/11/2008 13:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	508		10.0	ug/L	500		102	82-117			
Barium	509		10.0	ug/L	500		102	72-125			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L08013 - EPA 3005A

LCS (8L08013-BS1) Continued Prepared: 12/08/2008 09:59 Analyzed: 12/11/2008 13:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	259		1.00	ug/L	250		104	75-121			
Cadmium	261		1.00	ug/L	250		104	72-120			
Chromium	508	B	10.0	ug/L	500		102	78-119			
Cobalt	509		10.0	ug/L	500		102	76-117			
Copper	253		10.0	ug/L	250		101	80-117			
Lead	501		10.0	ug/L	500		100	72-121			
Nickel	510		10.0	ug/L	500		102	78-116			
Selenium	510		10.0	ug/L	500		102	82-127			
Silver	48.9		10.0	ug/L	50.0		98	80-128			
Vanadium	243		10.0	ug/L	250		97	78-117			
Zinc	521		10.0	ug/L	500		104	80-120			

Matrix Spike (8L08013-MS1) Prepared: 12/08/2008 09:59 Analyzed: 12/11/2008 13:49

Source: C813144-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	507		10.0	ug/L	500	2.8 U	101	64-126			
Barium	530		10.0	ug/L	500	33.0	99	74-119			
Beryllium	258		1.00	ug/L	250	0.10 U	103	70-131			
Cadmium	250		1.00	ug/L	250	0.36 U	100	68-121			
Chromium	498	B	10.0	ug/L	500	1.0 U	100	73-120			
Cobalt	500		10.0	ug/L	500	1.1 U	100	76-120			
Copper	250		10.0	ug/L	250	1.60 U	100	75-123			
Lead	483		10.0	ug/L	500	1.9 U	97	68-126			
Nickel	496		10.0	ug/L	500	1.8 U	99	64-126			
Selenium	510		10.0	ug/L	500	2.7 U	102	65-129			
Silver	47.8		10.0	ug/L	50.0	1.9 U	96	69-121			
Vanadium	244		10.0	ug/L	250	1.4 U	98	71-130			
Zinc	502		10.0	ug/L	500	3.8 U	100	63-131			

Matrix Spike Dup (8L08013-MSD1) Prepared: 12/08/2008 09:59 Analyzed: 12/11/2008 13:57

Source: C813144-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	508		10.0	ug/L	500	2.8 U	102	64-126	0.2	12	
Barium	530		10.0	ug/L	500	33.0	99	74-119	0.08	11	
Beryllium	259		1.00	ug/L	250	0.10 U	103	70-131	0.08	21	
Cadmium	251		1.00	ug/L	250	0.36 U	100	68-121	0.2	12	
Chromium	498	B	10.0	ug/L	500	1.0 U	100	73-120	0	10	
Cobalt	499		10.0	ug/L	500	1.1 U	100	76-120	0.2	17	
Copper	250		10.0	ug/L	250	1.60 U	100	75-123	0.2	16	
Lead	486		10.0	ug/L	500	1.9 U	97	68-126	0.6	19	
Nickel	497		10.0	ug/L	500	1.8 U	99	64-126	0.2	12	
Selenium	505		10.0	ug/L	500	2.7 U	101	65-129	1	10	
Silver	47.8		10.0	ug/L	50.0	1.9 U	96	69-121	0	12	
Vanadium	245		10.0	ug/L	250	1.4 U	98	71-130	0.1	16	
Zinc	502		10.0	ug/L	500	3.8 U	100	63-131	0.1	24	

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L08013 - EPA 3005A

Batch 8L08014 - EPA 3005A

Blank (8L08014-BLK1) Prepared: 12/08/2008 10:03 Analyzed: 12/16/2008 14:58

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.10	U	1.00	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.9	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8L08014-BS1) Prepared: 12/08/2008 10:03 Analyzed: 12/16/2008 14:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	528		10.0	ug/L	500		106	82-117			
Barium	521		10.0	ug/L	500		104	72-125			
Beryllium	267		1.00	ug/L	250		107	75-121			
Cadmium	270		1.00	ug/L	250		108	72-120			
Chromium	517		10.0	ug/L	500		103	78-119			
Cobalt	510		10.0	ug/L	500		102	76-117			
Copper	256		10.0	ug/L	250		102	80-117			
Lead	518		10.0	ug/L	500		104	72-121			
Nickel	535		10.0	ug/L	500		107	78-116			
Selenium	525		10.0	ug/L	500		105	82-127			
Silver	46.8		10.0	ug/L	50.0		94	80-128			
Vanadium	249		10.0	ug/L	250		100	78-117			
Zinc	530		10.0	ug/L	500		106	80-120			

Matrix Spike (8L08014-MS1) Prepared: 12/08/2008 10:03 Analyzed: 12/16/2008 15:05

Source: C811840-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	542		10.0	ug/L	500	2.8 U	108	64-126			
Barium	696		10.0	ug/L	500	163	107	74-119			
Beryllium	274		1.00	ug/L	250	0.10 U	110	70-131			
Cadmium	274		1.00	ug/L	250	0.36 U	110	68-121			
Chromium	527		10.0	ug/L	500	1.7	105	73-120			
Cobalt	525		10.0	ug/L	500	1.6	105	76-120			
Copper	270		10.0	ug/L	250	7.80	105	75-123			
Lead	530		10.0	ug/L	500	1.9 U	106	68-126			
Nickel	553		10.0	ug/L	500	6.9	109	64-126			
Selenium	539		10.0	ug/L	500	2.7 U	108	65-129			
Silver	52.2		10.0	ug/L	50.0	1.9 U	104	69-121			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L08014 - EPA 3005A

Matrix Spike (8L08014-MS1) Continued Prepared: 12/08/2008 10:03 Analyzed: 12/16/2008 15:05

Source: C811840-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vanadium	258		10.0	ug/L	250	1.4 U	103	71-130			
Zinc	550		10.0	ug/L	500	13.8	107	63-131			

Matrix Spike Dup (8L08014-MSD1) Prepared: 12/08/2008 10:03 Analyzed: 12/16/2008 15:12

Source: C811840-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	540		10.0	ug/L	500	2.8 U	108	64-126	0.3	12	
Barium	699		10.0	ug/L	500	163	107	74-119	0.3	11	
Beryllium	274		1.00	ug/L	250	0.10 U	109	70-131	0.3	21	
Cadmium	273		1.00	ug/L	250	0.36 U	109	68-121	0.5	12	
Chromium	523		10.0	ug/L	500	1.7	104	73-120	0.9	10	
Cobalt	521		10.0	ug/L	500	1.6	104	76-120	0.7	17	
Copper	270		10.0	ug/L	250	7.80	105	75-123	0	16	
Lead	524		10.0	ug/L	500	1.9 U	105	68-126	1	19	
Nickel	548		10.0	ug/L	500	6.9	108	64-126	1	12	
Selenium	539		10.0	ug/L	500	2.7 U	108	65-129	0.02	10	
Silver	51.7		10.0	ug/L	50.0	1.9 U	103	69-121	1	12	
Vanadium	256		10.0	ug/L	250	1.4 U	103	71-130	0.5	16	
Zinc	543		10.0	ug/L	500	13.8	106	63-131	1	24	

Batch 8L08021 - EPA 3005A

Blank (8L08021-BLK1) Prepared: 12/08/2008 13:33 Analyzed: 12/12/2008 10:05

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	0.036	U	1.00	ug/L							

LCS (8L08021-BS1) Prepared: 12/08/2008 13:33 Analyzed: 12/12/2008 10:08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	23.6		2.00	ug/L	25.0		94	85-115			
Thallium	23.9		1.00	ug/L	25.0		96	85-115			

Matrix Spike (8L08021-MS1) Prepared: 12/08/2008 13:33 Analyzed: 12/12/2008 10:15

Source: C813144-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	21.9		2.00	ug/L	25.0	0.68 U	88	85-115			
Thallium	22.7		1.00	ug/L	25.0	0.036 U	91	85-115			

Matrix Spike Dup (8L08021-MSD1) Prepared: 12/08/2008 13:33 Analyzed: 12/12/2008 10:18

Source: C813144-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L08021 - EPA 3005A

Matrix Spike Dup (8L08021-MSD1) Continued Prepared: 12/08/2008 13:33 Analyzed: 12/12/2008 10:18

Source: C813144-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	22.3		2.00	ug/L	25.0	0.68 U	89	85-115	2	20	
Thallium	23.7		1.00	ug/L	25.0	0.036 U	95	85-115	4	20	

Post Spike (8L08021-PS1) Prepared: 12/08/2008 13:33 Analyzed: 12/12/2008 10:22

Source: C813144-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.02		0.002	mg/L	0.0250	0.0002	93	75-125			
Thallium	0.026		0.001	mg/L	0.0250	-0.0009	106	75-125			

Batch 8L08022 - EPA 3005A

Blank (8L08022-BLK1) Prepared: 12/08/2008 13:37 Analyzed: 12/12/2008 11:49

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	0.036	U	1.00	ug/L							

LCS (8L08022-BS1) Prepared: 12/08/2008 13:37 Analyzed: 12/12/2008 11:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	23.6		2.00	ug/L	25.0		94	85-115			
Thallium	23.5		1.00	ug/L	25.0		94	85-115			

Matrix Spike (8L08022-MS1) Prepared: 12/08/2008 13:37 Analyzed: 12/12/2008 11:59

Source: C811840-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.2		2.00	ug/L	25.0	0.68 U	97	85-115			
Thallium	23.4		1.00	ug/L	25.0	0.036 U	94	85-115			

Matrix Spike Dup (8L08022-MSD1) Prepared: 12/08/2008 13:37 Analyzed: 12/12/2008 12:16

Source: C811840-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.5		2.00	ug/L	25.0	0.68 U	98	85-115	1	20	
Thallium	24.1		1.00	ug/L	25.0	0.036 U	96	85-115	3	20	

Post Spike (8L08022-PS1) Prepared: 12/08/2008 13:37 Analyzed: 12/12/2008 12:19

Source: C811840-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.02		0.002	mg/L	0.0250	0.0001	96	75-125			
Thallium	0.026		0.001	mg/L	0.0250	-0.001	110	75-125			

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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
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.
QB-01	The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

Page 1 of 2

Requested Analysis

Standard

Expedited

Due

Lab Workorder

C811840

																	Sample Comments
	412 MW-17	12/3/08	1600	G	GW	4	X	X									
	412 MW-18	12/3/08	1505	G	GW	4											
	412 MW-17	12/3/08	0815	G	GW	4	X	X									
	412 MW-18	12/3/08	1140	G	GW	4											
	412 MW-19	12/3/08	1700	G	GW	4	X	X									
	412 MW-20	12/4/08	1535	G	GW	4	X	X									
	412 MW-21	12/5/08	0905	G	GW	4	X	X									
	412 MW-22	12/5/08	0945	G	GW	4	X	X									
	412 MW-23	12/5/08	0925	G	GW	4	X	X									
	412 MW-24	12/5/08	0935	G	GW	4	X	X									
	412 MW-25			G	GW	4	X	X									
	412 MW-25R	12/5/08	0940	G	GW	4	X	X									

JWL 12/22

C-587

Acceptable

Unacceptable

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

Page 2 of 2

Requested Turnaround Time

Standard

Expedited

Due / /

Lab Workorder

C811840

	Date	Time														Sample Comments
4112 SW 1	12/4/08	1225	G	SW	4	X	X									
4112 SW 2	12/4/08	1135	G	SW	4	X	X									
4112 SW 3	12/4/08	1200	G	SW	4	X	X									
4112 SW 4	12/4/08	1355	G	SW	4	X	X									
4112 SW 5	12/4/08	1100	G	SW	4	X	X									
4112 DUPLICATE 1	12/4/08	0700	G	SW	4	X	X									
4112 Trip Blank				WA	1	X										

Number of Containers

JWC	10/22		
C-587		X Acceptable	Unacceptable

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ENVIRONMENTAL CONSERVATION LABORATORIES, INC

Sample preservation verification

☐ Cary ☐ Jacksonville ☐ Orlando

Work order: [illegible] Page: 1 of 1 Initials: CCP Date: [illegible]

A check mark (✓) in any space under the appropriate column heading for the selected sample indicates that the pH met the required pH.
An asterisk (*) in any space under the appropriate column heading for the selected sample indicates that the pH was adjusted in the lab as described in the comments column.

Sample No	Metals	TPH	Ammonia	COD	Cyanide	TOC	Hardness	TKN/TOM	Oil & grease	Phenolics	NOx	Extractables	Sulfide	FL-PRO	COMMENTS
pH →	<2	<2	<2	<2	>12	<2	<2	<2	<2	<2	<2	5-8	>9	<2	
1															
2															
3															
4															
5															
6															
7															
8															
9															
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8															
9															
0															

CCP

Reagent name	ID	Reagent name	ID	Reagent name	ID
1		3		5	
2		4		6	

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

Thursday, December 18, 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: C811842

Dear Edmund Henriques,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, December 5, 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 19.

EPA Method Update Rule

Important information concerning the EPA's Methods Update Rule (MUR).

On March 12, 2007, EPA promulgated changes to the list of Clean Water Act methods at 40 CFR Part 136.3. This final rule added new methods to the list of sampling and anlaysis procedures and revised and withdrew other methods. Additional information concerning the EPA's actions can be found at www.epa.gov/waterscience/methods/update/.

ENCO has worked diligently to ensure a seamless transition for our clients, adding new certifications in anticipation of this change. While most regulatory agencies are still accepting the affected methods, we encourage our clients to work with their regulatory contacts as necessary to update any permits or analytical requests. The following table summarizes the methods requested as part of this report, and indicates the appropriate replacement procedure. Please contact your ENCO Project Manager should you need additional information, or to request that updates be made for future events.

Requested Method	Replacement Method (MUR)
EPA 150.1	SM18 4500-H+ B

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	4103 Leachate	Lab ID:	C811842-01	Sampled:	12/04/08 08:00	Received:	12/05/08 10:20

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 150.1	12/04/08	08:14		12/08/08	13:23	12/8/2008 13:23
EPA 300.0	01/01/09			12/09/08	07:32	12/10/2008 08:20
EPA 353.2	12/06/08	08:00		12/05/08	09:32	12/5/2008 18:08
EPA 353.2	01/01/09			12/07/08	09:22	12/7/2008 15:44
EPA 353.2	01/01/09			12/08/08	07:49	12/8/2008 07:49
EPA 365.4	01/01/09			12/12/08	10:30	12/14/2008 15:15
EPA 6010B	06/02/09			12/08/08	09:59	12/11/2008 14:31
EPA 6020	06/02/09			12/08/08	13:37	12/12/2008 12:47
SM 5210B	12/06/08	08:00	12/10/08	12/05/08	16:58	12/10/2008 13:39

Client ID:	4103 Leachate	Lab ID:	C811842-01RE1	Sampled:	12/04/08 08:00	Received:	12/05/08 10:20

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	06/02/09	12/08/08	09:59	12/12/2008 11:22
EPA 8260B	12/18/08	12/11/08	12:00	12/11/2008 20:11
SM 5220D	01/01/09	12/11/08	09:35	12/11/2008 16:50

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SAMPLE DETECTION SUMMARY

Client ID: 4103 Leachate **Lab ID:** C811842-01

Analyte	Results	Flag	MRL	Units	Method	Notes
Antimony	19.6		2.00	ug/L	EPA 6020	
Arsenic	26.4		10.0	ug/L	EPA 6010B	
Barium	577		10.0	ug/L	EPA 6010B	
Biochemical Oxygen Demand	1900		2.0	mg/L	SM 5210B	B-04
Chromium	7.0	JB	10.0	ug/L	EPA 6010B	J-01
Cobalt	25.1		10.0	ug/L	EPA 6010B	
Lead	2.1	J	10.0	ug/L	EPA 6010B	
Nickel	177		10.0	ug/L	EPA 6010B	
Nitrite as N	0.013	J	0.10	mg/L	EPA 353.2	
pH	7.1		1.0	pH Units	EPA 150.1	Q
Phosphorus	1.7		0.10	mg/L	EPA 365.4	
Silver	1.9	J	10.0	ug/L	EPA 6010B	
Sulfate as SO4	3.3	J	5.0	mg/L	EPA 300.0	
Vanadium	25.0		10.0	ug/L	EPA 6010B	

Client ID: 4103 Leachate **Lab ID:** C811842-01RE1

Analyte	Results	Flag	MRL	Units	Method	Notes
2-Butanone	12000	D	500	ug/L	EPA 8260B	
4-Methyl-2-pentanone	580	D	500	ug/L	EPA 8260B	
Acetone	11000	D	500	ug/L	EPA 8260B	
Chemical Oxygen Demand	4300		100	mg/L	SM 5220D	
Ethylbenzene	120	D	100	ug/L	EPA 8260B	
Toluene	310	D	100	ug/L	EPA 8260B	
Xylenes (Total)	440	D	100	ug/L	EPA 8260B	
Zinc	29.3		10.0	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

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

Lab Sample ID: C811842-01
Sampled: 12/04/08 08:00
Sampled By: Gary Simcox

Received: 12/05/08 10:20
Work Order: C811842

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	40	UD	ug/L	100	40	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,1,1-Trichloroethane [71-55-6] ^	27	UD	ug/L	100	27	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	33	UD	ug/L	100	33	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,1,2-Trichloroethane [79-00-5] ^	37	UD	ug/L	100	37	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,1-Dichloroethane [75-34-3] ^	33	UD	ug/L	100	33	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,1-Dichloroethene [75-35-4] ^	24	UD	ug/L	100	24	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,2,3-Trichloropropane [96-18-4] ^	55	UD	ug/L	100	55	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	48	UD	ug/L	100	48	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,2-Dibromoethane [106-93-4] ^	42	UD	ug/L	100	42	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,2-Dichlorobenzene [95-50-1] ^	27	UD	ug/L	100	27	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,2-Dichloroethane [107-06-2] ^	65	UD	ug/L	100	65	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,2-Dichloropropane [78-87-5] ^	20	UD	ug/L	100	20	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
1,4-Dichlorobenzene [106-46-7] ^	38	UD	ug/L	100	38	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
2-Butanone [78-93-3] ^	**12000**	D	ug/L	100	100	500	8L11011	EPA 8260B	12/11/08 20:11	JKG	
2-Hexanone [591-78-6] ^	69	UD	ug/L	100	69	500	8L11011	EPA 8260B	12/11/08 20:11	JKG	
4-Methyl-2-pentanone [108-10-1] ^	**580**	D	ug/L	100	110	500	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Acetone [67-64-1] ^	**11000**	D	ug/L	100	150	500	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Acrylonitrile [107-13-1] ^	210	UD	ug/L	100	210	500	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Benzene [71-43-2] ^	20	UD	ug/L	100	20	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Bromochloromethane [74-97-5] ^	42	UD	ug/L	100	42	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Bromodichloromethane [75-27-4] ^	37	UD	ug/L	100	37	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Bromoform [75-25-2] ^	71	UD	ug/L	100	71	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Bromomethane [74-83-9] ^	49	UD	ug/L	100	49	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Carbon disulfide [75-15-0] ^	54	UD	ug/L	100	54	500	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Carbon tetrachloride [56-23-5] ^	38	UD	ug/L	100	38	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Chlorobenzene [108-90-7] ^	27	UD	ug/L	100	27	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Chloroethane [75-00-3] ^	30	UD	ug/L	100	30	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Chloroform [67-66-3] ^	20	UD	ug/L	100	20	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Chloromethane [74-87-3] ^	34	UD	ug/L	100	34	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	36	UD	ug/L	100	36	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	28	UD	ug/L	100	28	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Dibromochloromethane [124-48-1] ^	32	UD	ug/L	100	32	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Dibromomethane [74-95-3] ^	37	UD	ug/L	100	37	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Ethylbenzene [100-41-4] ^	**120**	D	ug/L	100	20	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Iodomethane [74-88-4] ^	52	UD	ug/L	100	52	200	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Methylene chloride [75-09-2] ^	53	UD	ug/L	100	53	200	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Styrene [100-42-5] ^	26	UD	ug/L	100	26	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Tetrachloroethene [127-18-4] ^	36	UD	ug/L	100	36	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Toluene [108-88-3] ^	**310**	D	ug/L	100	27	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	34	UD	ug/L	100	34	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	38	UD	ug/L	100	38	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	54	UD	ug/L	100	54	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Trichloroethene [79-01-6] ^	38	UD	ug/L	100	38	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Trichlorofluoromethane [75-69-4] ^	28	UD	ug/L	100	28	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Vinyl acetate [108-05-4] ^	98	UD	ug/L	100	98	200	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Vinyl chloride [75-01-4] ^	30	UD	ug/L	100	30	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	
Xylenes (Total) [1330-20-7]	**440**	D	ug/L	100	40	100	8L11011	EPA 8260B	12/11/08 20:11	JKG	

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

Lab Sample ID: C811842-01
Sampled: 12/04/08 08:00
Sampled By: Gary Simcox

Received: 12/05/08 10:20
Work Order: C811842

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Surrogates	***Results***	***DF***	***Spike Lvl***	***% Rec***	***% Rec Limits***		***Batch***	***Method***	***Analyzed***	***By***	**Notes**
4-Bromofluorobenzene	*54*	*1*	*50.0*	*109 %*	*51-122*		*8L11011*	*EPA 8260B*	*12/11/08 20:11*	*JKG*	
Dibromofluoromethane	*52*	*1*	*50.0*	*105 %*	*68-117*		*8L11011*	*EPA 8260B*	*12/11/08 20:11*	*JKG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*69-110*		*8L11011*	*EPA 8260B*	*12/11/08 20:11*	*JKG*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	**19.6**		ug/L	1	0.68	2.00	8L08022	EPA 6020	12/12/08 12:47	VLO	
Arsenic [7440-38-2] ^	**26.4**		ug/L	1	2.8	10.0	8L08013	EPA 6010B	12/11/08 14:31	JDH	
Barium [7440-39-3] ^	**577**		ug/L	1	1.00	10.0	8L08013	EPA 6010B	12/11/08 14:31	JDH	
Beryllium [7440-41-7] ^	0.10	U	ug/L	1	0.10	1.00	8L08013	EPA 6010B	12/11/08 14:31	JDH	
Cadmium [7440-43-9] ^	0.36	U	ug/L	1	0.36	1.00	8L08013	EPA 6010B	12/11/08 14:31	JDH	
Chromium [7440-47-3] ^	**7.0**	JB	ug/L	1	1.0	10.0	8L08013	EPA 6010B	12/11/08 14:31	JDH	J-01
Cobalt [7440-48-4] ^	**25.1**		ug/L	1	1.1	10.0	8L08013	EPA 6010B	12/11/08 14:31	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	8L08013	EPA 6010B	12/11/08 14:31	JDH	
Lead [7439-92-1] ^	**2.1**	J	ug/L	1	1.9	10.0	8L08013	EPA 6010B	12/11/08 14:31	JDH	
Nickel [7440-02-0] ^	**177**		ug/L	1	1.8	10.0	8L08013	EPA 6010B	12/11/08 14:31	JDH	
Selenium [7782-49-2] ^	2.7	U	ug/L	1	2.7	10.0	8L08013	EPA 6010B	12/11/08 14:31	JDH	
Silver [7440-22-4] ^	**1.9**	J	ug/L	1	1.9	10.0	8L08013	EPA 6010B	12/11/08 14:31	JDH	
Thallium [7440-28-0] ^	0.036	U	ug/L	1	0.036	1.00	8L08022	EPA 6020	12/12/08 12:47	VLO	
Vanadium [7440-62-2] ^	**25.0**		ug/L	1	1.4	10.0	8L08013	EPA 6010B	12/11/08 14:31	JDH	
Zinc [7440-66-6] ^	**29.3**		ug/L	1	3.8	10.0	8L08013	EPA 6010B	12/12/08 11:22	JDH	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [NA] ^	**1900**		mg/L	1	2.0	2.0	8L05016	SM 5210B	12/10/08 13:39	GPW	B-04
Chemical Oxygen Demand [NA] ^	**4300**		mg/L	1	100	100	8L11005	SM 5220D	12/11/08 16:50	GPW	
Nitrate as N [14797-55-8] ^	0.010	U	mg/L	1	0.010	0.10	8L08003	EPA 353.2	12/08/08 07:49	PEV	
Nitrate/Nitrite as N [NA] ^	0.017	U	mg/L	1	0.017	0.10	8L07002	EPA 353.2	12/07/08 15:44	PEV	
Nitrite as N [14797-65-0] ^	**0.013**	J	mg/L	1	0.010	0.10	8L05009	EPA 353.2	12/05/08 18:08	AJB	
pH [NA] ^	**7.1**		pH Units	1	1.0	1.0	8L08007	EPA 150.1	12/08/08 13:23	FLT	Q
Phosphorus [7723-14-0] ^	**1.7**		mg/L	1	0.050	0.10	8L11017	EPA 365.4	12/14/08 15:15	PEV	
Sulfate as SO4 [14808-79-8] ^	**3.3**	J	mg/L	1	0.05	5.0	8L09003	EPA 300.0	12/10/08 08:20	PEV	

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

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L10004 - EPA 5030B_MS

Blank (8L10004-BLK1) Prepared: 12/10/2008 08:48 Analyzed: 12/10/2008 13:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.34	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	0.24	U	1.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							
Acrylonitrile	2.1	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
Bromochloromethane	0.42	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	0.38	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	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)	0.40	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*68-117*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L10004 - EPA 5030B_MS

Blank (8L10004-BLK1) Continued Prepared: 12/10/2008 08:48 Analyzed: 12/10/2008 13:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*69-110*			
Surrogate: 4-Bromofluorobenzene	*52*			*ug/L*	*50.0*		*104*	*51-122*			

LCS (8L10004-BS1) Prepared: 12/10/2008 08:48 Analyzed: 12/10/2008 13:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		96	75-133			
Benzene	18		1.0	ug/L	20.0		88	81-134			
Trichloroethene	18		1.0	ug/L	20.0		90	75-115			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Chlorobenzene	19		1.0	ug/L	20.0		95	83-117			

Matrix Spike (8L10004-MS1) Prepared: 12/10/2008 08:48 Analyzed: 12/10/2008 14:11

Source: C813461-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	93	75-133			
Benzene	17		1.0	ug/L	20.0	0.20 U	87	81-134			
Trichloroethene	18		1.0	ug/L	20.0	0.38 U	90	75-115			
Toluene	19		1.0	ug/L	20.0	0.27 U	93	71-118			
Chlorobenzene	19		1.0	ug/L	20.0	0.27 U	97	83-117			

Matrix Spike Dup (8L10004-MSD1) Prepared: 12/10/2008 08:48 Analyzed: 12/10/2008 14:40

Source: C813461-10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.24 U	89	75-133	4	20	
Benzene	17		1.0	ug/L	20.0	0.20 U	87	81-134	0.6	17	
Trichloroethene	18		1.0	ug/L	20.0	0.38 U	90	75-115	0.2	18	
Toluene	18		1.0	ug/L	20.0	0.27 U	92	71-118	1	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	99	83-117	2	16	

Batch 8L11011 - EPA 5030B_MS

Blank (8L11011-BLK1) Prepared: 12/11/2008 12:02 Analyzed: 12/11/2008 15:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.34	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	0.24	U	1.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Iodomethane	0.52	U	2.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Methylene chloride	0.53	U	2.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L11011 - EPA 5030B_MS

Blank (8L11011-BLK1) Continued Prepared: 12/11/2008 12:02 Analyzed: 12/11/2008 15:48

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Acrylonitrile	2.1	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
Vinyl acetate	0.98	U	2.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
Bromochloromethane	0.42	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	0.38	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
Benzene	0.20	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	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)	0.40	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*99*	*68-117*			
Surrogate: Toluene-d8	*47*			*ug/L*	*50.0*		*94*	*69-110*			
Surrogate: 4-Bromofluorobenzene	*51*			*ug/L*	*50.0*		*102*	*51-122*			

LCS (8L11011-BS1) Prepared: 12/11/2008 12:02 Analyzed: 12/11/2008 16:17

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		101	75-133			
Benzene	18		1.0	ug/L	20.0		90	81-134			
Trichloroethene	19		1.0	ug/L	20.0		96	75-115			
Toluene	19		1.0	ug/L	20.0		94	71-118			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8L11011 - EPA 5030B_MS

LCS (8L11011-BS1) Continued Prepared: 12/11/2008 12:02 Analyzed: 12/11/2008 16:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	20		1.0	ug/L	20.0		101	83-117			

Matrix Spike (8L11011-MS1) Prepared: 12/11/2008 12:02 Analyzed: 12/11/2008 16:47

Source: C813461-15

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	0.24 U	99	75-133			
Benzene	18		1.0	ug/L	20.0	0.20 U	89	81-134			
Trichloroethene	19		1.0	ug/L	20.0	0.38 U	94	75-115			
Toluene	19		1.0	ug/L	20.0	0.27 U	97	71-118			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	100	83-117			

Matrix Spike Dup (8L11011-MSD1) Prepared: 12/11/2008 12:02 Analyzed: 12/11/2008 17:16

Source: C813461-15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.24 U	97	75-133	2	20	
Benzene	18		1.0	ug/L	20.0	0.20 U	89	81-134	0.1	17	
Trichloroethene	18		1.0	ug/L	20.0	0.38 U	91	75-115	2	18	
Toluene	19		1.0	ug/L	20.0	0.27 U	95	71-118	2	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	100	83-117	0.05	16	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L08013 - EPA 3005A

Blank (8L08013-BLK1) Prepared: 12/08/2008 09:59 Analyzed: 12/11/2008 13:26

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.10	U	1.00	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Chromium	**1.4**	**J**	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.9	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

Blank (8L08013-BLK2) Prepared: 12/08/2008 09:59 Analyzed: 12/12/2008 08:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.8	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L08013 - EPA 3005A

Blank (8L08013-BLK2) Continued Prepared: 12/08/2008 09:59 Analyzed: 12/12/2008 08:22

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Beryllium	0.10	U	1.00	ug/L							
Cadmium	0.36	U	1.00	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Copper	**4.30**	**J**	10.0	ug/L							
Lead	1.9	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Selenium	2.7	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (8L08013-BS1) Prepared: 12/08/2008 09:59 Analyzed: 12/11/2008 13:33

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	508		10.0	ug/L	500		102	82-117			
Barium	509		10.0	ug/L	500		102	72-125			
Beryllium	259		1.00	ug/L	250		104	75-121			
Cadmium	261		1.00	ug/L	250		104	72-120			
Chromium	508	B	10.0	ug/L	500		102	78-119			
Cobalt	509		10.0	ug/L	500		102	76-117			
Copper	253	B	10.0	ug/L	250		101	80-117			
Lead	501		10.0	ug/L	500		100	72-121			
Nickel	510		10.0	ug/L	500		102	78-116			
Selenium	510		10.0	ug/L	500		102	82-127			
Silver	48.9		10.0	ug/L	50.0		98	80-128			
Vanadium	243		10.0	ug/L	250		97	78-117			
Zinc	521		10.0	ug/L	500		104	80-120			

Matrix Spike (8L08013-MS1) Prepared: 12/08/2008 09:59 Analyzed: 12/11/2008 13:49

Source: C813144-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	507		10.0	ug/L	500	2.8 U	101	64-126			
Barium	530		10.0	ug/L	500	33.0	99	74-119			
Beryllium	258		1.00	ug/L	250	0.10 U	103	70-131			
Cadmium	250		1.00	ug/L	250	0.36 U	100	68-121			
Chromium	498	B	10.0	ug/L	500	1.0 U	100	73-120			
Cobalt	500		10.0	ug/L	500	1.1 U	100	76-120			
Copper	250	B	10.0	ug/L	250	1.60 U	100	75-123			
Lead	483		10.0	ug/L	500	1.9 U	97	68-126			
Nickel	496		10.0	ug/L	500	1.8 U	99	64-126			
Selenium	510		10.0	ug/L	500	2.7 U	102	65-129			
Silver	47.8		10.0	ug/L	50.0	1.9 U	96	69-121			
Vanadium	244		10.0	ug/L	250	1.4 U	98	71-130			
Zinc	502		10.0	ug/L	500	3.8 U	100	63-131			

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QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L08013 - EPA 3005A

Matrix Spike Dup (8L08013-MSD1) Prepared: 12/08/2008 09:59 Analyzed: 12/11/2008 13:57

Source: C813144-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	508		10.0	ug/L	500	2.8 U	102	64-126	0.2	12	
Barium	530		10.0	ug/L	500	33.0	99	74-119	0.08	11	
Beryllium	259		1.00	ug/L	250	0.10 U	103	70-131	0.08	21	
Cadmium	251		1.00	ug/L	250	0.36 U	100	68-121	0.2	12	
Chromium	498	B	10.0	ug/L	500	1.0 U	100	73-120	0	10	
Cobalt	499		10.0	ug/L	500	1.1 U	100	76-120	0.2	17	
Copper	250	B	10.0	ug/L	250	1.60 U	100	75-123	0.2	16	
Lead	486		10.0	ug/L	500	1.9 U	97	68-126	0.6	19	
Nickel	497		10.0	ug/L	500	1.8 U	99	64-126	0.2	12	
Selenium	505		10.0	ug/L	500	2.7 U	101	65-129	1	10	
Silver	47.8		10.0	ug/L	50.0	1.9 U	96	69-121	0	12	
Vanadium	245		10.0	ug/L	250	1.4 U	98	71-130	0.1	16	
Zinc	502		10.0	ug/L	500	3.8 U	100	63-131	0.1	24	

Batch 8L08022 - EPA 3005A

Blank (8L08022-BLK1) Prepared: 12/08/2008 13:37 Analyzed: 12/12/2008 11:49

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	0.036	U	1.00	ug/L							

LCS (8L08022-BS1) Prepared: 12/08/2008 13:37 Analyzed: 12/12/2008 11:52

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	23.6		2.00	ug/L	25.0		94	85-115			
Thallium	23.5		1.00	ug/L	25.0		94	85-115			

Matrix Spike (8L08022-MS1) Prepared: 12/08/2008 13:37 Analyzed: 12/12/2008 11:59

Source: C811840-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.2		2.00	ug/L	25.0	0.68 U	97	85-115			
Thallium	23.4		1.00	ug/L	25.0	0.036 U	94	85-115			

Matrix Spike Dup (8L08022-MSD1) Prepared: 12/08/2008 13:37 Analyzed: 12/12/2008 12:16

Source: C811840-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.5		2.00	ug/L	25.0	0.68 U	98	85-115	1	20	
Thallium	24.1		1.00	ug/L	25.0	0.036 U	96	85-115	3	20	

Post Spike (8L08022-PS1) Prepared: 12/08/2008 13:37 Analyzed: 12/12/2008 12:19

Source: C811840-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L08022 - EPA 3005A

Post Spike (8L08022-PS1) Continued Prepared: 12/08/2008 13:37 Analyzed: 12/12/2008 12:19

Source: C811840-13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.02		0.002	mg/L	0.0250	0.0001	96	75-125			
Thallium	0.026		0.001	mg/L	0.0250	-0.001	110	75-125			

Classical Chemistry Parameters - Quality Control

Batch 8L05009 - NO PREP

LCS (8L05009-BS1) Prepared: 12/05/2008 09:32 Analyzed: 12/05/2008 10:25

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.97		0.10	mg/L	1.00		97	80-120			

Matrix Spike (8L05009-MS1) Prepared: 12/05/2008 09:32 Analyzed: 12/05/2008 10:37

Source: C813045-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.99		0.10	mg/L	1.00	0.019	97	80-120			

Matrix Spike Dup (8L05009-MSD1) Prepared: 12/05/2008 09:32 Analyzed: 12/05/2008 10:38

Source: C813045-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00	0.019	98	80-120	1	25	

Batch 8L05016 - NO PREP

Blank (8L05016-BLK1) Prepared: 12/05/2008 16:58 Analyzed: 12/10/2008 13:39

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							

LCS (8L05016-BS1) Prepared: 12/05/2008 16:58 Analyzed: 12/10/2008 13:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	200		2.0	mg/L	198		101	82-118			B-04

Duplicate (8L05016-DUP1) Prepared: 12/05/2008 16:58 Analyzed: 12/10/2008 13:39

Source: C813022-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	220		2.0	mg/L		190			16	25	B-04

Batch 8L07002 - NO PREP

Blank (8L07002-BLK1) Prepared: 12/07/2008 09:22 Analyzed: 12/07/2008 15:37

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8L07002 - NO PREP

Blank (8L07002-BLK1) Continued Prepared: 12/07/2008 09:22 Analyzed: 12/07/2008 15:37

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.017	U	0.10	mg/L							

LCS (8L07002-BS1) Prepared: 12/07/2008 09:22 Analyzed: 12/07/2008 15:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.1		0.10	mg/L	1.25		86	80-120			

Matrix Spike (8L07002-MS1) Prepared: 12/07/2008 09:22 Analyzed: 12/07/2008 15:46

Source: C811842-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	-0.096	U	0.10	mg/L	1.28	0.017 U		80-120			QM-14

Matrix Spike Dup (8L07002-MSD1) Prepared: 12/07/2008 09:22 Analyzed: 12/07/2008 15:48

Source: C811842-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	-0.095	U	0.10	mg/L	1.28	0.017 U		80-120		25	QM-14

Batch 8L08007 - NO PREP

LCS (8L08007-BS1) Prepared & Analyzed: 12/08/2008 13:23

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		101	99-101			

Duplicate (8L08007-DUP1) Prepared & Analyzed: 12/08/2008 13:23

Source: C811842-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.2		1.0	pH Units		7.1			0.1	25	Q

Batch 8L09003 - NO PREP

Blank (8L09003-BLK1) Prepared: 12/09/2008 07:32 Analyzed: 12/10/2008 04:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	0.05	U	5.0	mg/L							

LCS (8L09003-BS1) Prepared: 12/09/2008 07:32 Analyzed: 12/10/2008 07:53

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		99	90-110			

Matrix Spike (8L09003-MS1) Prepared: 12/09/2008 07:32 Analyzed: 12/10/2008 13:13

Source: C813089-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8L09003 - NO PREP

Matrix Spike (8L09003-MS1) Continued Prepared: 12/09/2008 07:32 Analyzed: 12/10/2008 13:13

Source: C813089-01

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	0.05 U	100	80-120			

Matrix Spike Dup (8L09003-MSD1) Prepared: 12/09/2008 07:32 Analyzed: 12/10/2008 13:40

Source: C813089-01

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	0.05 U	100	80-120	0.2	15	

Batch 8L09018 - NO PREP

Blank (8L09018-BLK1) Prepared: 12/09/2008 11:25 Analyzed: 12/09/2008 18:10

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 (8L09018-BS1) Prepared: 12/09/2008 11:25 Analyzed: 12/09/2008 18:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520		10	mg/L	500		103	90-110			

Matrix Spike (8L09018-MS1) Prepared: 12/09/2008 11:25 Analyzed: 12/09/2008 18:10

Source: C813369-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	590		10	mg/L	500	140	90	90-110			

Matrix Spike Dup (8L09018-MSD1) Prepared: 12/09/2008 11:25 Analyzed: 12/09/2008 18:10

Source: C813369-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	610		10	mg/L	500	140	93	90-110	2	15	

Batch 8L11005 - NO PREP

Blank (8L11005-BLK1) Prepared: 12/11/2008 09:35 Analyzed: 12/11/2008 16:50

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 (8L11005-BS1) Prepared: 12/11/2008 09:35 Analyzed: 12/11/2008 16:50

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	510		10	mg/L	500		102	90-110			

Matrix Spike (8L11005-MS1) Prepared: 12/11/2008 09:35 Analyzed: 12/11/2008 16:50

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 8L11005 - NO PREP

Matrix Spike (8L11005-MS1) Continued Prepared: 12/11/2008 09:35 Analyzed: 12/11/2008 16:50

Source: C812313-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	560		10	mg/L	500	72	98	90-110			

Matrix Spike Dup (8L11005-MSD1) Prepared: 12/11/2008 09:35 Analyzed: 12/11/2008 16:50

Source: C812313-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	580		10	mg/L	500	72	102	90-110	4	15	

Batch 8L11017 - Same

Blank (8L11017-BLK1) Prepared: 12/12/2008 10:30 Analyzed: 12/14/2008 14:41

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 (8L11017-BS1) Prepared: 12/12/2008 10:30 Analyzed: 12/14/2008 14:43

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.5		0.10	mg/L	1.60		96	80-120			

Matrix Spike (8L11017-MS1) Prepared: 12/12/2008 10:30 Analyzed: 12/14/2008 14:46

Source: C813022-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60	0.050 U	102	80-120			

Matrix Spike Dup (8L11017-MSD1) Prepared: 12/12/2008 10:30 Analyzed: 12/14/2008 14:48

Source: C813022-02

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	0.050 U	106	80-120	4	25	

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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
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-04	The average DO uptake of the seeded controls does not meet the method required 0.6 - 1.0 mg/L.
J-01	Result is estimated due to positive results in the associated method blank.
Q	Analysis performed outside of method - specified holding time.
QM-14	Confirmed matrix effects

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

Page ___ of ___

Requested Analyses

Requested Turnaround Times

___ Standard

___ Expedited

Due ___

Lab Workorder: C811842

Sample Identification	Date	Time	Comp	Grab	Matrix	Preservative	Nitrate Calc	Nitrate 100	Sample Containers
4103 Leachate	12/3/08	0800	G		GW	?	X X X X X X X		
II - 4	12/3/08	1400	G		GW	!		X	C313380

Relinquished By	Date	Received By	Date	Time	Receipt Temp
[illegible]	10/22	[illegible]	12/4/08	1100	[illegible]

Comments: PLEASE REPORT II-4 SEPARATE FROM LEACHATE.

Cooler Temp: C-569 1.0°C

Acceptable ___ Unacceptable

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ENVIRONMENTAL CONSERVATION LABORATORIES, INC.

Sample preservation verification

☒ Cary ☐ Jacksonville ☐ Orlando

Work order: [illegible] Page 1 of 1 Initials: [illegible] Date: [illegible]

A check mark (✓) in any space under the appropriate column heading for the selected sample indicates that the pH met the required pH.
An asterisk (*) in any space under the appropriate column heading for the selected sample indicates that the pH was adjusted in the lab as described in the comments column.

Sample No	Metals	TPH	Ammonia	COD	Cyanide	TOC	Hardness	TKN/TON	Oil & grease	Phenolics	NOx	Extractables	Sulfide	FL-PRO	COMMENTS
pH →	<2	<2	<2	<2	>12	<2	<2	<2	<2	<2	<2	5-9	>9	<2	
1	✓	*		*							✓				✓ [illegible]
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0															

	Reagent name	ID		Reagent name	ID		Reagent name	ID
1			3			5		
2			4			6		

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

Friday, December 19, 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: C813380

Dear Edmund Henriques,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, December 5, 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 8.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	II-4	Lab ID:	C813380-01	Sampled:	12/03/08 14:00	Received:	12/05/08 10:20

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010B	12/06/08	06/03/09	12/05/08	12:30	12/11/2008 18:59
EPA 6010B	06/01/09		12/05/08	12:30	12/11/2008 18:59

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SAMPLE DETECTION SUMMARY

Client ID:	II-4		Lab ID:	C813380-01		
Analyte	**Results**	**Flag**	**MRL**	**Units**	**Method**	**Notes**
Barium	600		10.0	ug/L	EPA 6010B	
Chromium	4.8	J	10.0	ug/L	EPA 6010B	
Cobalt	18.2		10.0	ug/L	EPA 6010B	
Nickel	20.4		10.0	ug/L	EPA 6010B	
Vanadium	62.3		10.0	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: II-4
Matrix: Ground Water
Project: White Street Landfill Leachate

Lab Sample ID: C813380-01
Sampled: 12/03/08 14:00
Sampled By: Gary Simcox

Received: 12/05/08 10:20
Work Order: C813380

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	Batch	Method	Analyzed	By	Notes
Barium [7440-39-3] ^	**600**		ug/L	1	1.00	10.0	8L04014	EPA 6010B	12/11/08 18:59	JDH	
Chromium [7440-47-3] ^	**4.8**	J	ug/L	1	1.0	10.0	8L04014	EPA 6010B	12/11/08 18:59	JDH	
Cobalt [7440-48-4] ^	**18.2**		ug/L	1	1.1	10.0	8L04014	EPA 6010B	12/11/08 18:59	JDH	
Lead [7439-92-1] ^	1.9	U	ug/L	1	1.9	10.0	8L04014	EPA 6010B	12/11/08 18:59	JDH	
Nickel [7440-02-0] ^	**20.4**		ug/L	1	1.8	10.0	8L04014	EPA 6010B	12/11/08 18:59	JDH	
Thallium [7440-28-0] ^	4.8	U	ug/L	1	4.8	10.0	8L04014	EPA 6010B	12/11/08 18:59	JDH	
Vanadium [7440-62-2] ^	**62.3**		ug/L	1	1.4	10.0	8L04014	EPA 6010B	12/11/08 18:59	JDH	

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

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8L04014 - EPA 3030C

Blank (8L04014-BLK1) Prepared: 12/04/2008 10:29 Analyzed: 12/11/2008 17:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Barium	1.00	U	10.0	ug/L							
Chromium	1.0	U	10.0	ug/L							
Cobalt	1.1	U	10.0	ug/L							
Lead	1.9	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Thallium	4.8	U	10.0	ug/L							
Vanadium	1.4	U	10.0	ug/L							

LCS (8L04014-BS1) Prepared: 12/04/2008 10:29 Analyzed: 12/11/2008 17:19

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Barium	502		10.0	ug/L	500		100	72-125			
Chromium	491		10.0	ug/L	500		98	78-119			
Cobalt	486		10.0	ug/L	500		97	76-117			
Lead	474		10.0	ug/L	500		95	72-121			
Nickel	501		10.0	ug/L	500		100	78-116			
Thallium	244		10.0	ug/L	250		97	79-118			
Vanadium	235		10.0	ug/L	250		94	78-117			

Matrix Spike (8L04014-MS1) Prepared: 12/04/2008 10:29 Analyzed: 12/11/2008 18:01

Source: C812522-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Barium	677		10.0	ug/L	500	178	100	74-119			
Chromium	517		10.0	ug/L	500	60.1	91	73-120			
Cobalt	527		10.0	ug/L	500	14.4	102	76-120			
Lead	518		10.0	ug/L	500	17.9	100	68-126			
Nickel	513		10.0	ug/L	500	49.6	93	64-126			
Thallium	248		10.0	ug/L	250	4.8 U	99	67-135			
Vanadium	246		10.0	ug/L	250	4.0	97	71-130			

Matrix Spike Dup (8L04014-MSD1) Prepared: 12/04/2008 10:29 Analyzed: 12/11/2008 18:08

Source: C812522-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Barium	684		10.0	ug/L	500	178	101	74-119	1	11	
Chromium	513		10.0	ug/L	500	60.1	91	73-120	0.7	10	
Cobalt	530		10.0	ug/L	500	14.4	103	76-120	0.6	17	
Lead	516		10.0	ug/L	500	17.9	100	68-126	0.3	19	
Nickel	510		10.0	ug/L	500	49.6	92	64-126	0.5	12	
Thallium	251		10.0	ug/L	250	4.8 U	100	67-135	1	13	
Vanadium	249		10.0	ug/L	250	4.0	98	71-130	1	16	

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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
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.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

Page of

Company: SCS Inc.
Project: [illegible]
Address: [illegible]
City/State/Zip: Greensboro NC
Phone: 336/288-7183
Project Manager: Gary Simons / SCS Inc.
Sampler: [illegible]
Purchase Order: [illegible]
Project No.: [illegible]
Sample Origin: [illegible]

Requested Analyses: Metals Acid Digest; Cyanide; Phenols; Volatile Organics; Nitrate as N; Nitrite as N; Sulfate; Sulfide; Pb

Requested Turnaround Times: Standard; Expedited; Due

Lab Workorder: C811842

Lab Sample No.	Sample Identification	Date	Time	Comp.	Grab	Containers	Metals Acid Digest	Cyanide	Phenols	Volatile Organics	Nitrate as N	Nitrite as N	Sulfate	Sulfide	Pb	Sample Comments
	4-100 Leachate	12/4/08	0800	G		3	X	X	X	X	X	X	X			
	II - 4	12/3/08	1400	G	Gw	1									X	C813380

Relinquished by: [illegible] 10/22
Received by: [illegible] 12/4/08 1700
Relinquished by: [illegible]
Received by: [illegible]
Relinquished by: [illegible]
Received by: [illegible]
Relinquished by: [illegible]
Received by: [illegible]

PLEASE REPORT II-4 SEPARATE FROM LEACHATE

Cooler Temp: C-569 1.6°C
Sample Condition: X Acceptable; Unacceptable

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www.encolabs.com

ENVIRONMENTAL CONSERVATION LABORATORIES, INC

Sample preservation verification

☑ Gary ☐ Jacksonville ☐ Orlando

Work order: [illegible] Page: 1 of 1 Initials: [illegible] Date: [illegible]

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Sample No	Metals	TPH	Ammonia	COD	Cyanide	TOC	Hardness	TKN/TON	Oil & grease	Phenolics	NOx	Extractables	Sulfide	FL-PRO	COMMENTS
pH →	<2	<2	<2	<2	>12	<2	<2	<2	<2	<2	<2	5-9	>9	<2	
1	✓														
2															
3															
4															
5															
6															
7															
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Reagent name	ID	Reagent name	ID	Reagent name	ID
1		3		5	
2		4		6	

APPENDIX III

Descriptive Statistics

Basic Statistics

Parameter: Barium, total
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit

Total Measurements	252
Total Non-Detects	215 (85.3175%)
Pooled Mean	440.715
Pooled Std Dev	150.061
Compliance Meas.	210
Compliance Mean	441.792
Compliance Std Dev	150.513
Background Meas.	42
Background Mean	435.329
Background Std Dev	149.461

Background Locations

There are 2 background location

Location	Meas.	Non-Detects	% ND	Total
MW-15	21	18	85.7143	9088.8
MW-16	21	17	80.9524	9195

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-15	432.8	168.671	0	2620	124.762
MW-16	437.857	131.647	0	2822	134.381

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-17	21	18	85.7143	9152.3
MW-18	21	18	85.7143	9080.1
MW-19	21	17	80.9524	8648.9
MW-20	21	18	85.7143	9158.2
MW-21	21	18	85.7143	9090.8
MW-22	21	18	85.7143	9294.9
MW-23	21	18	85.7143	9188
MW-24	21	17	80.9524	10102
MW-25	21	20	95.2381	10019.6
MW-25d	21	18	85.7143	9041.6

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-17	435.824	161.082	0.495238	40.6969	2646	126
MW-18	432.386	169.714	-2.94286	40.6969	2611	124.333
MW-19	411.852	186.407	-23.4762	40.6969	2757	131.286
MW-20	436.105	160.424	0.77619	40.6969	2651	126.238
MW-21	432.895	168.432	-2.43333	40.6969	2626	125.048
MW-22	442.614	144.407	7.28571	40.6969	2673	127.286
MW-23	437.524	156.818	2.19524	40.6969	2659	126.619
MW-24	481.048	45.2089	45.719	40.6969	2838	135.143
MW-25	477.124	104.832	41.7952	40.6969	2380	113.333
MW-25d	430.552	174.313	-4.77619	40.6969	2595	123.571

Analysis of Variance Statistics

SS Wells	87128.2
SS Total	5.65207e+006

Kruskal-Wallis Statistics

Non-Detect Rank	108
Background Rank Sum	5442
Background Rank Mean	129.571
H Statistic	1.21012
H Adjusted for Ties	3.19317

Basic Statistics

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

Total Measurements	264
Total Non-Detects	243 (92.0455%)
Pooled Mean	37.328
Pooled Std Dev	9.82037
Compliance Meas.	220
Compliance Mean	36.955
Compliance Std Dev	10.4572
Background Meas.	44
Background Mean	39.1932
Background Std Dev	5.35183

Background Locations

There are 2 background location

Location	Meas.	Non-Detects	% ND	Total
MW-15	22	22	100	880
MW-16	22	21	95.4545	844.5

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-15	40	0	0	2684	122
MW-16	38.3864	7.56863	0	2821	128.227

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-17	22	19	86.3636	766
MW-18	22	19	86.3636	775.1
MW-19	22	18	81.8182	796.5
MW-20	22	19	86.3636	773.4
MW-21	22	20	90.9091	804.9
MW-22	22	22	100	880
MW-23	22	22	100	880
MW-24	22	21	95.4545	842
MW-25	22	21	95.4545	842.1
MW-25d	22	19	86.3636	770.1

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-17	34.8182	13.3488	-4.375	2.56572	3058	139
MW-18	35.2318	12.3517	-3.96136	2.56572	3082	140.091
MW-19	36.2045	13.9936	-2.98864	2.56572	3233	146.955
MW-20	35.1545	12.4953	-4.03864	2.56572	3090	140.455
MW-21	36.5864	11.049	-2.60682	2.56572	2942	133.727
MW-22	40	0	0.806818	2.56572	2684	122
MW-23	40	0	0.806818	2.56572	2684	122
MW-24	38.2727	8.10163	-0.920455	2.56572	2808	127.636
MW-25	38.2773	8.08031	-0.915909	2.56572	2810	127.727
MW-25d	35.0045	12.8684	-4.18864	2.56572	3084	140.182

Analysis of Variance Statistics

SS Wells	1033.12
SS Total	25363.6

Kruskal-Wallis Statistics

Non-Detect Rank	122
Background Rank Sum	5505
Background Rank Mean	125.114
H Statistic	3.0515
H Adjusted for Ties	13.8604

Basic Statistics

Parameter: Zinc, total

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

Total Measurements	252
Total Non-Detects	227 (90.0794%)
Pooled Mean	46.8738
Pooled Std Dev	14.3045
Compliance Meas.	210
Compliance Mean	46.8562
Compliance Std Dev	14.8769
Background Meas.	42
Background Mean	46.9619
Background Std Dev	11.1559

Background Locations

There are 2 background location

Location	Meas.	Non-Detects	% ND	Total
MW-15	21	21	100	1050
MW-16	21	18	85.7143	922.4

Location	Mean	Std Dev	Std Err	Rank Sum	Rank Mean
MW-15	50	0	0	2394	114
MW-16	43.9238	15.3541	0	2781	132.429

Compliance Locations

There are 10 compliance location

Location	Obs.	Non-Detects	% ND	Total
MW-17	21	19	90.4762	958.1
MW-18	21	17	80.9524	963.5
MW-19	21	17	80.9524	914.7
MW-20	21	21	100	1050
MW-21	21	18	85.7143	910.1
MW-22	21	18	85.7143	906.2
MW-23	21	20	95.2381	1001
MW-24	21	18	85.7143	1064.5
MW-25	21	19	90.4762	1021.7
MW-25d	21	21	100	1050

Location	Mean	Std Dev	Dif From Bkg	Std Err	Rank Sum	Rank Mean
MW-17	45.6238	13.8325	-1.3381	3.83195	2645	125.952
MW-18	45.881	14.0771	-1.08095	3.83195	2911	138.619
MW-19	43.5571	16.7875	-3.40476	3.83195	2894	137.81
MW-20	50	0	3.0381	3.83195	2394	114
MW-21	43.3381	16.7288	-3.62381	3.83195	2766	131.714
MW-22	43.1524	17.1948	-3.80952	3.83195	2752	131.048
MW-23	47.6667	10.6927	0.704762	3.83195	2510	119.524
MW-24	50.6905	27.239	3.72857	3.83195	2782	132.476
MW-25	48.6524	11.314	1.69048	3.83195	2655	126.429
MW-25d	50	0	3.0381	3.83195	2394	114

Analysis of Variance Statistics

SS Wells	2021.87
SS Total	51359.6

Kruskal-Wallis Statistics

Non-Detect Rank	114
Background Rank Sum	5175
Background Rank Mean	123.214
H Statistic	2.93053
H Adjusted for Ties	10.8912

Concentrations (ppb)

Parameter: Barium, total
Original Data (Not Transformed)
Non-Detects Replaced with Detection Limit
Total Measurements: 252
Total Non-Detect: 215
Percent Non-Detects: 85.3175%
Total Background Measurements: 42
There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-15	21	18 (85.7143%)	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
			12/5/2008	28.6	28.6
MW-16	21	17 (80.9524%)	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
			12/5/2008	163	163

There are 10 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-17	21	18 (85.7143%)	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
			12/5/2008	49.3	49.3
MW-18	21	18 (85.7143%)	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
			12/5/2008	28.1	28.1
MW-19	21	17 (80.9524%)	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
			12/5/2008	31	31
MW-20	21	18 (85.7143%)	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
			12/5/2008	63.6	63.6
MW-21	21	18 (85.7143%)	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
			12/5/2008	30.1	30.1
MW-22	21	18 (85.7143%)	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
			12/5/2008	78.5	78.5
MW-23	21	18 (85.7143%)	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
			12/5/2008	61.4	61.4
MW-24	21	17 (80.9524%)	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
			12/5/2008	444	444
MW-25	21	20 (95.2381%)	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
			12/5/2008	ND<500	ND<500

MW-25d	21	18 (85.7143%)	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
			12/5/2008	12.4	12.4

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: 264
Total Non-Detect: 243
Percent Non-Detects: 92.0455%
Total Background Measurements: 44
There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-15	22	22 (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
			12/5/2008	ND<40	ND<40
MW-16	22	21 (95.4545%)	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
			12/5/2008	ND<40	ND<40

There are 10 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-17	22	19 (86.3636%)	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
			12/5/2008	2.6	2.6

MW-18	22	19 (86.3636%)	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
			12/5/2008	3.1	3.1
MW-19	22	18 (81.8182%)	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
			12/5/2008	3.6	3.6
MW-20	22	19 (86.3636%)	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
			12/5/2008	6	6
MW-21	22	20 (90.9091%)	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
			12/5/2008	2.3	2.3
MW-22	22	22 (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
			12/5/2008	ND<40	ND<40
MW-23	22	22 (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
			12/5/2008	ND<40	ND<40
MW-24	22	21 (95.4545%)	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
			12/5/2008	2	2
MW-25	22	21 (95.4545%)	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
			12/5/2008	ND<40	ND<40
MW-25d	22	19 (86.3636%)	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
			12/5/2008	3.7	3.7

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: 252
Total Non-Detect: 227
Percent Non-Detects: 90.0794%
Total Background Measurements: 42
There are 2 background locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-15	21	21 (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
			12/5/2008	ND<50	ND<50
MW-16	21	18 (85.7143%)	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
			12/5/2008	13.8	13.8

There are 10 compliance locations

Loc.	Meas.	ND	Date	Conc.	Original
MW-17	21	19 (90.4762%)	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
			12/5/2008	ND<50	ND<50
MW-18	21	17 (80.9524%)	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
			12/5/2008	ND<50	ND<50
MW-19	21	17 (80.9524%)	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
			12/5/2008	7.5	7.5
MW-20	21	21 (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
			12/5/2008	ND<50	ND<50
MW-21	21	18 (85.7143%)	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
			12/5/2008	5.2	5.2
MW-22	21	18 (85.7143%)	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
			12/5/2008	3.9	3.9
MW-23	21	20 (95.2381%)	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
			12/5/2008	ND<50	ND<50
MW-24	21	18 (85.7143%)	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
			12/5/2008	9	9
MW-25	21	19 (90.4762%)	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
			12/5/2008	ND<50	ND<50

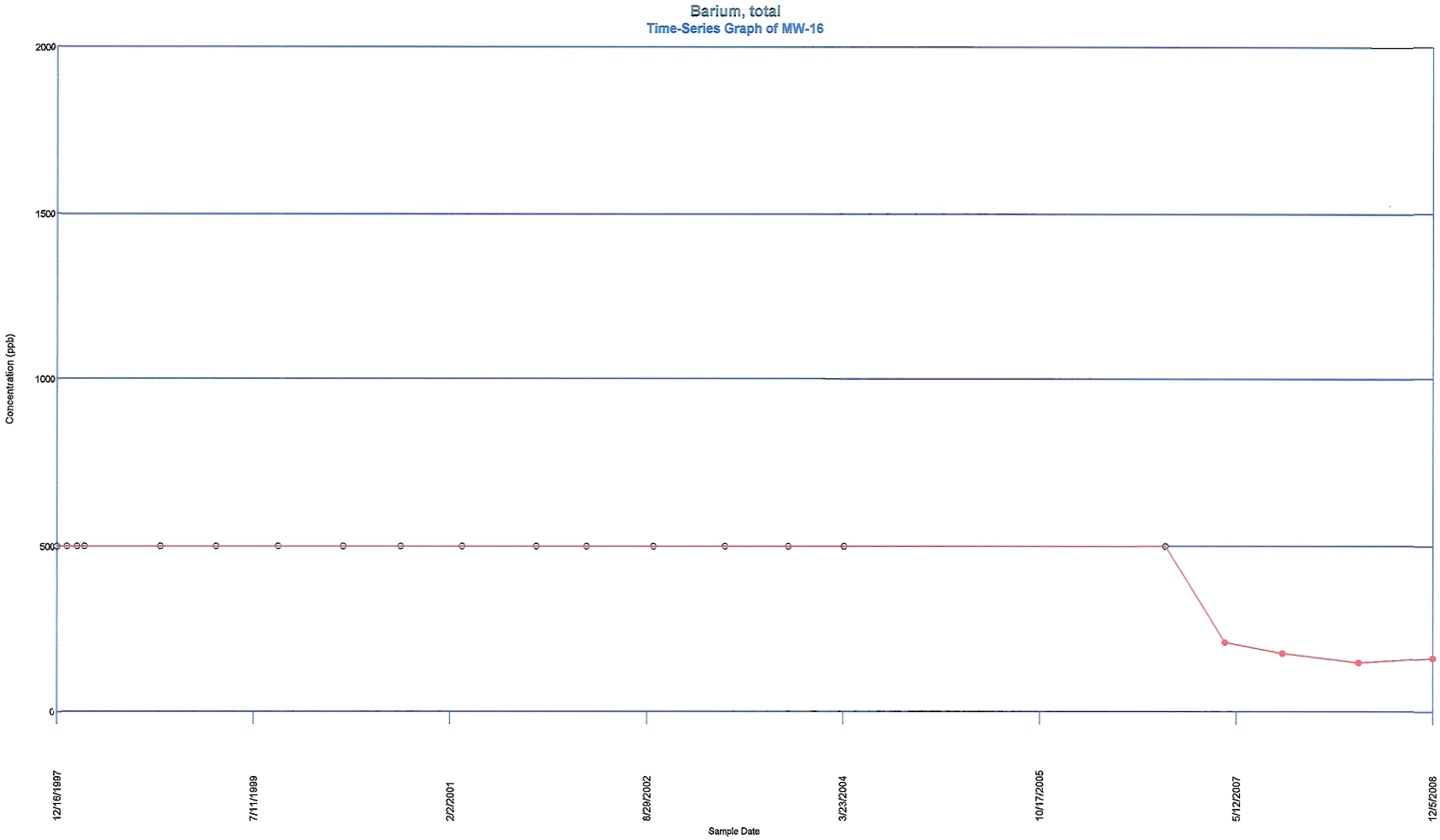
MW-25d	21	21 (100%)	12/16/1997	ND<50	ND<50
			1/14/1998	ND<50	ND<50
			2/13/1998	ND<50	ND<50
			3/6/1998	ND<50	ND<50
			10/15/1998	ND<50	ND<50
			3/25/1999	ND<50	ND<50
			9/23/1999	ND<50	ND<50
			3/29/2000	ND<50	ND<50
			9/14/2000	ND<50	ND<50
			3/12/2001	ND<50	ND<50
			10/13/2001	ND<50	ND<50
			3/8/2002	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
			12/5/2008	ND<50	ND<50

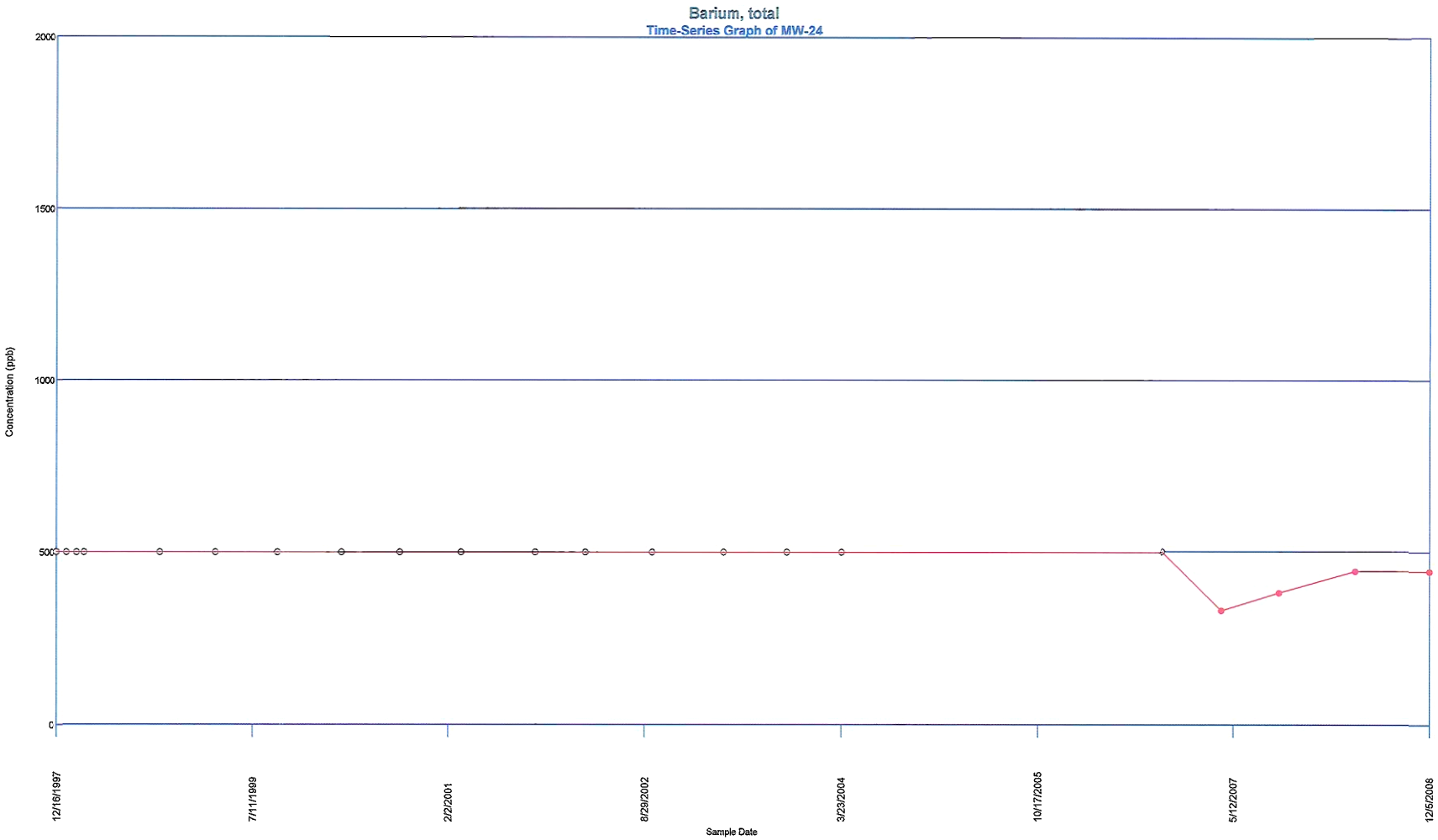
There are 0 unused locations

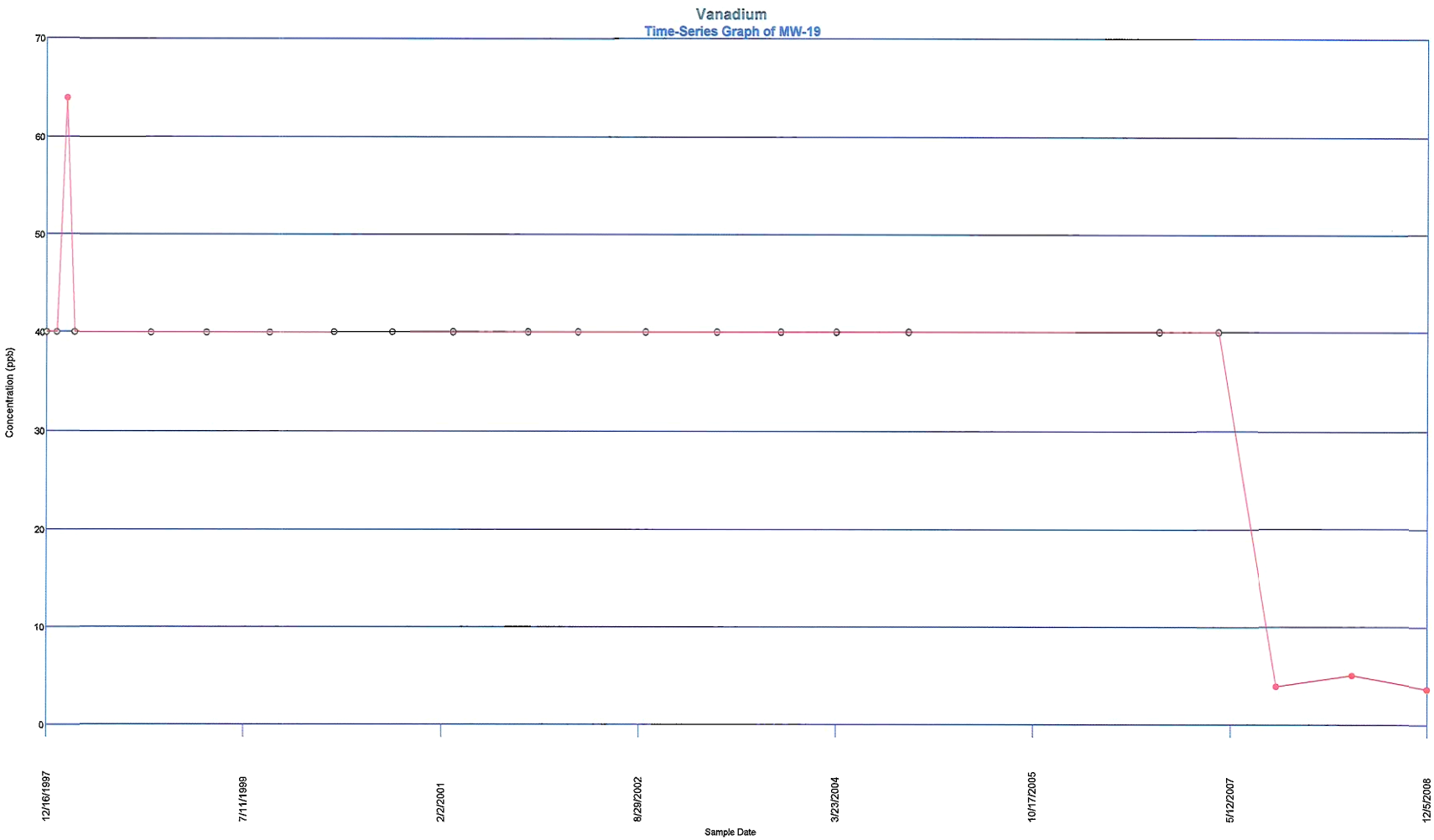
Loc.	Meas.	ND	Date	Conc.	Original

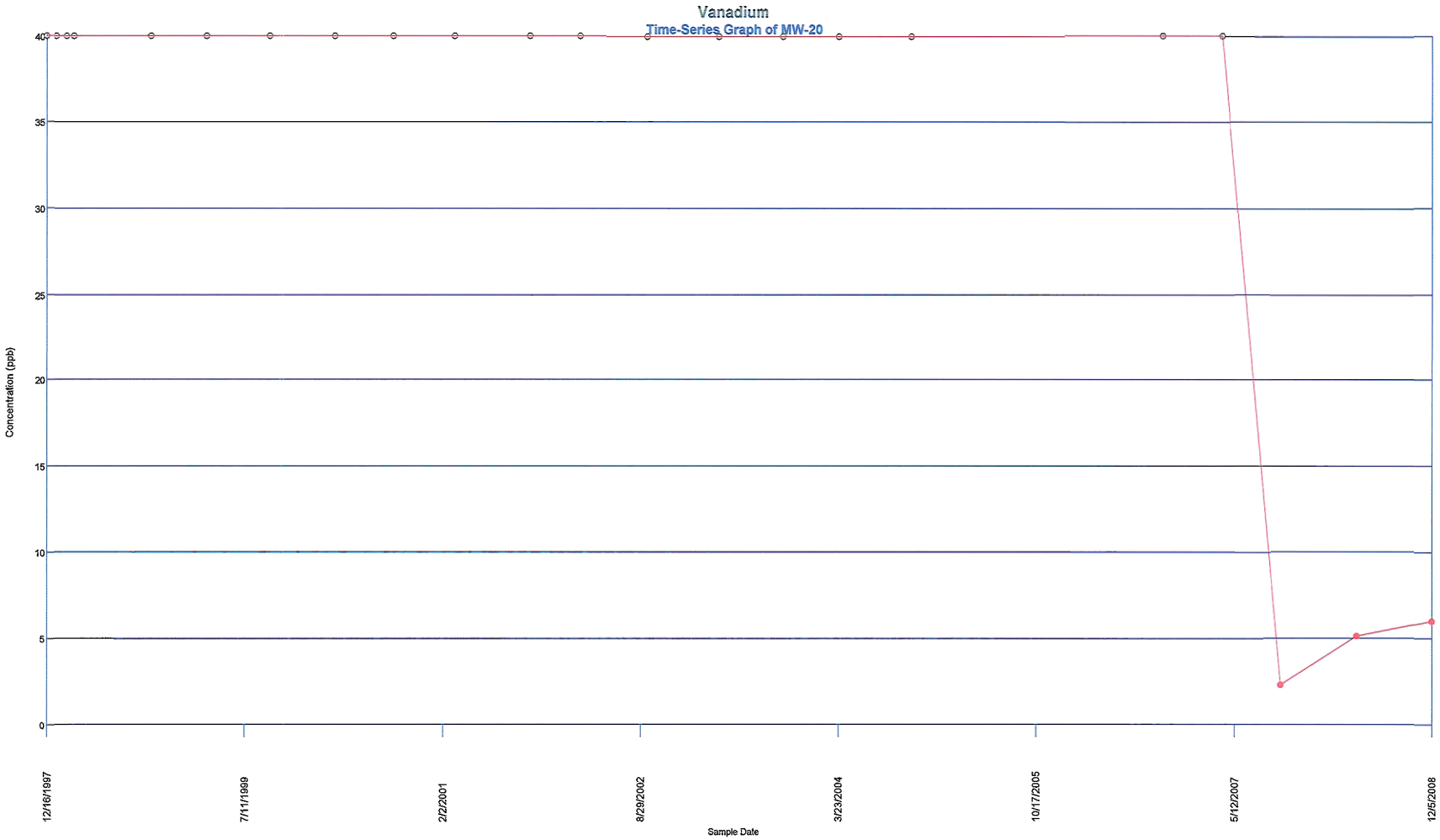
APPENDIX IV

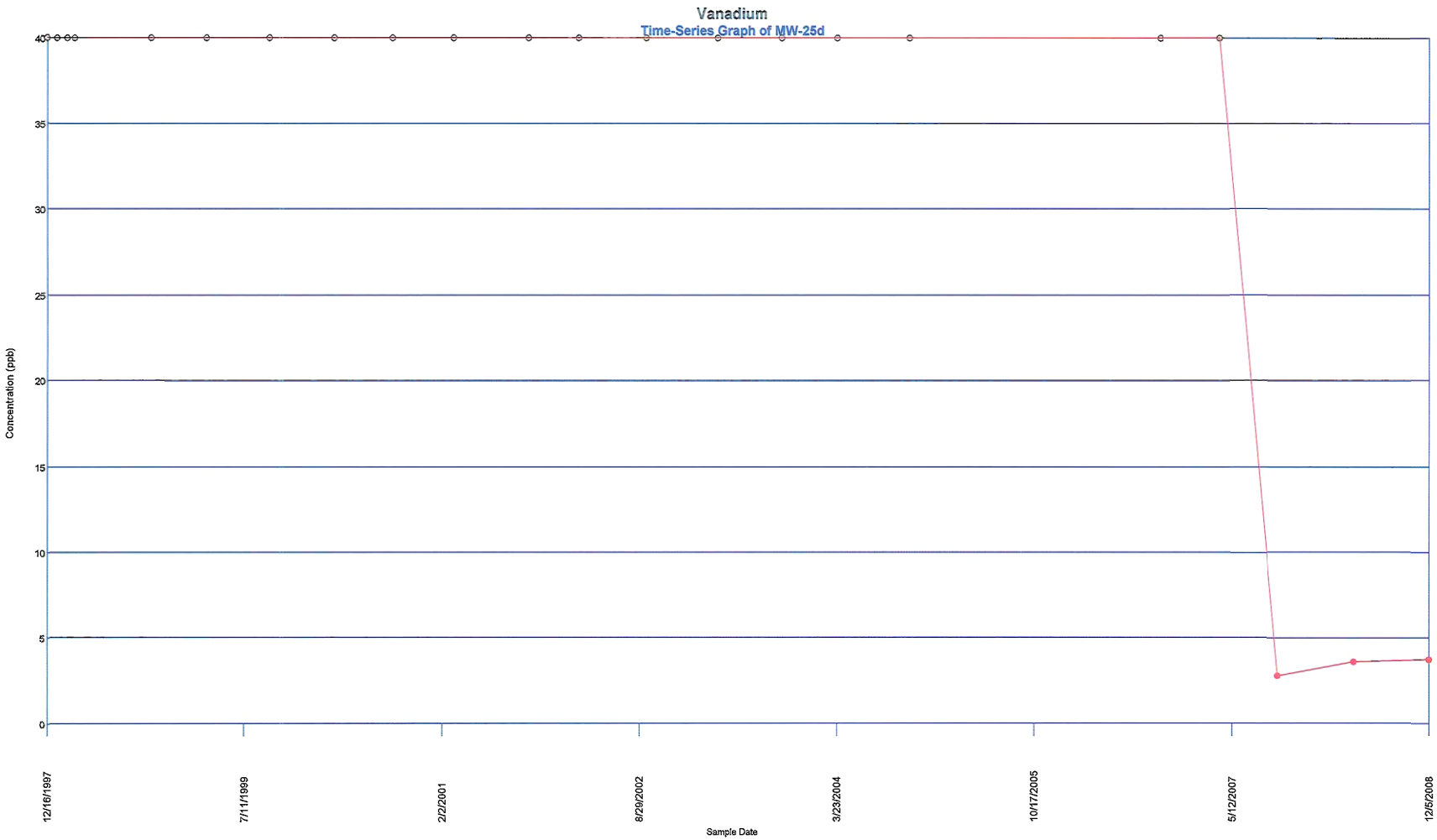
Time vs. Concentration Graphs

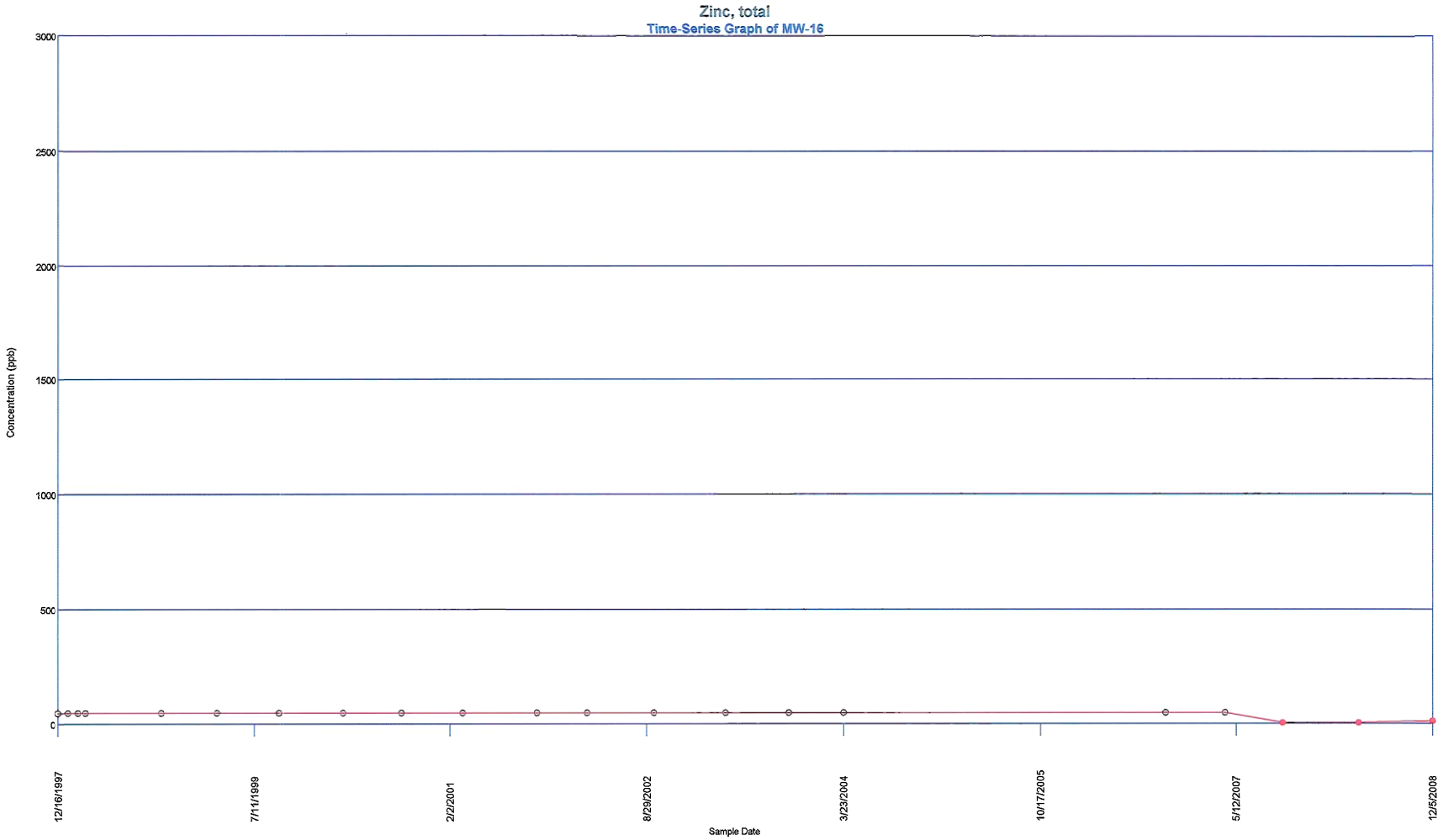

Barium, total
Time-Series Graph of MW-16
Concentration (ppb)
2000
1500
1000
500
0
12/16/1997
7/11/1999
2/2/2001
8/29/2002
3/23/2004
10/17/2005
5/12/2007
12/5/2008
Sample Date


Barium, total
Time-Series Graph of MW-24
2000
1500
1000
500
0
Concentration (ppb)
12/16/1997
7/11/1999
2/2/2001
8/29/2002
3/23/2004
10/17/2005
5/12/2007
12/5/2008
Sample Date


Vanadium
Time-Series Graph of MW-19
Concentration (ppb)
70
60
50
40
30
20
10
0
12/16/1997
7/11/1999
2/2/2001
8/29/2002
3/23/2004
10/17/2005
5/12/2007
12/5/2008
Sample Date


Vanadium
Time-Series Graph of MW-20
Concentration (ppb)
40
35
30
25
20
15
10
5
0
12/16/1997
7/11/1999
2/2/2001
8/29/2002
3/23/2004
10/17/2005
5/12/2007
12/5/2008
Sample Date


Vanadium
Time-Series Graph of MW-25d
Concentration (ppb)
40
35
30
25
20
15
10
5
0
12/16/1997
7/11/1999
2/2/2001
8/29/2002
3/23/2004
10/17/2005
5/12/2007
12/5/2008
Sample Date


Zinc, total
Time-Series Graph of MW-16
Concentration (ppb)
3000
2500
2000
1500
1000
500
0
12/16/1997
7/11/1999
2/2/2001
8/29/2002
3/23/2004
10/17/2005
5/12/2007
12/5/2008
Sample Date

APPENDIX V

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 = 252

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	12.4	-2.74777	7.55021	-34.0723
2	13	-2.45727	13.5884	-66.0168
3	16.2	-2.29036	18.8342	-103.121
4	17.2	-2.17009	23.5435	-140.446
5	19.6	-2.07485	27.8485	-181.113
6	23	-1.99539	31.8301	-227.007
7	28.1	-1.92684	35.5428	-281.152
8	28.6	-1.86629	39.0258	-334.527
9	29	-1.81191	42.3088	-387.073
10	29.9	-1.76241	45.4149	-439.769
11	30	-1.71688	48.3626	-491.276
12	30.1	-1.67466	51.1671	-541.683
13	30.3	-1.63524	53.8411	-591.231
14	30.7	-1.59819	56.3953	-640.295
15	31	-1.56322	58.839	-688.755
16	31.7	-1.53007	61.1801	-737.258
17	39.2	-1.49852	63.4256	-796
18	49.3	-1.46838	65.5818	-868.391
19	50.3	-1.43953	67.654	-940.799
20	52.7	-1.41183	69.6473	-1015.2
21	55.4	-1.38517	71.566	-1091.94
22	60	-1.36581	73.4314	-1173.89
23	61.4	-1.34075	75.229	-1256.21
24	63.6	-1.31652	76.9623	-1339.94
25	66.6	-1.29303	78.6342	-1426.06
26	69	-1.27024	80.2477	-1513.71
27	78.5	-1.24809	81.8054	-1611.68
28	80.4	-1.22653	83.3098	-1710.29
29	136	-1.20553	84.7631	-1874.24
30	148	-1.18504	86.1674	-2049.63
31	163	-1.16505	87.5248	-2239.53
32	176	-1.1455	88.8369	-2441.14
33	208	-1.12639	90.1057	-2675.43
34	332	-1.10768	91.3326	-3043.18
35	382	-1.08935	92.5193	-3459.31
36	444	-1.07138	93.6672	-3935
37	444	-1.05375	94.7776	-4402.87
38	500	-1.03643	95.8518	-4921.08
39	500	-1.01943	96.891	-5430.8
40	500	-1.00271	97.8964	-5932.15
41	500	-0.986272	98.8691	-6425.29
42	500	-0.970094	99.8102	-6910.34
43	500	-0.958125	100.728	-7389.4
44	500	-0.942375	101.616	-7860.59
45	500	-0.926859	102.475	-8324.02
46	500	-0.911562	103.306	-8779.8
47	500	-0.896473	104.11	-9228.03
48	500	-0.881587	104.887	-9668.83
49	500	-0.866894	105.639	-10102.3
50	500	-0.852385	106.365	-10528.5
51	500	-0.838054	107.068	-10947.5
52	500	-0.823893	107.746	-11359.4
53	500	-0.809896	108.402	-11764.4
54	500	-0.796056	109.036	-12162.4
55	500	-0.782366	109.648	-12553.6
56	500	-0.768821	110.239	-12938
57	500	-0.755415	110.81	-13315.7
58	500	-0.742143	111.361	-13686.8
59	500	-0.729003	111.892	-14051.3
60	500	-0.715986	112.405	-14409.3
61	500	-0.703089	112.899	-14760.8
62	500	-0.690309	113.376	-15106
63	500	-0.677639	113.835	-15444.8
64	500	-0.668209	114.281	-15778.9
65	500	-0.655726	114.711	-16106.8
66	500	-0.643345	115.125	-16428.4
67	500	-0.631062	115.523	-16744
68	500	-0.618872	115.906	-17053.4
69	500	-0.606775	116.275	-17356.8
70	500	-0.594766	116.628	-17654.2
71	500	-0.582841	116.968	-17945.6
72	500	-0.570999	117.294	-18231.1
73	500	-0.559237	117.607	-18510.7
74	500	-0.547551	117.907	-18784.5
75	500	-0.53594	118.194	-19052.5
76	500	-0.524401	118.469	-19314.7

77	500	-0.51293	118.732	-19571.1
78	500	-0.501527	118.983	-19821.9
79	500	-0.490189	119.224	-20067
80	500	-0.478914	119.453	-20306.4
81	500	-0.467699	119.672	-20540.3
82	500	-0.456542	119.88	-20768.6
83	500	-0.445443	120.079	-20991.3
84	500	-0.434397	120.267	-21208.5
85	500	-0.426148	120.449	-21421.6
86	500	-0.415193	120.621	-21629.2
87	500	-0.40429	120.785	-21831.3
88	500	-0.393433	120.94	-22028
89	500	-0.382622	121.086	-22219.3
90	500	-0.371856	121.224	-22405.3
91	500	-0.361133	121.355	-22585.8
92	500	-0.350451	121.478	-22761
93	500	-0.33981	121.593	-22931
94	500	-0.329206	121.701	-23095.6
95	500	-0.318639	121.803	-23254.9
96	500	-0.308108	121.898	-23408.9
97	500	-0.297612	121.986	-23557.7
98	500	-0.287147	122.069	-23701.3
99	500	-0.276714	122.145	-23839.7
100	500	-0.266311	122.216	-23972.8
101	500	-0.255936	122.282	-24100.8
102	500	-0.24559	122.342	-24223.6
103	500	-0.235269	122.398	-24341.2
104	500	-0.224974	122.448	-24453.7
105	500	-0.214702	122.494	-24561.1
106	500	-0.207012	122.537	-24664.6
107	500	-0.196779	122.576	-24763
108	500	-0.186567	122.611	-24856.2
109	500	-0.176374	122.642	-24944.4
110	500	-0.166199	122.669	-25027.5
111	500	-0.156042	122.694	-25105.5
112	500	-0.1459	122.715	-25178.5
113	500	-0.135774	122.733	-25246.4
114	500	-0.125661	122.749	-25309.2
115	500	-0.115562	122.763	-25367
116	500	-0.105474	122.774	-25419.7
117	500	-0.0953969	122.783	-25467.4
118	500	-0.0853288	122.79	-25510.1
119	500	-0.0752698	122.796	-25547.7
120	500	-0.0652187	122.8	-25580.3
121	500	-0.0551734	122.803	-25607.9
122	500	-0.0451348	122.805	-25630.5
123	500	-0.0350997	122.806	-25648
124	500	-0.0250691	122.807	-25660.6
125	500	-0.0150408	122.807	-25668.1
126	500	-0.00501359	122.807	-25670.6
127	500	0.00501359	122.807	-25668.1
128	500	0.0150408	122.807	-25660.6
129	500	0.0250691	122.808	-25648
130	500	0.0350997	122.809	-25630.5
131	500	0.0451348	122.811	-25607.9
132	500	0.0551734	122.814	-25580.3
133	500	0.0652187	122.819	-25547.7
134	500	0.0752698	122.824	-25510.1
135	500	0.0853288	122.832	-25467.4
136	500	0.0953969	122.841	-25419.7
137	500	0.105474	122.852	-25367
138	500	0.115562	122.865	-25309.2
139	500	0.125661	122.881	-25246.4
140	500	0.135774	122.899	-25178.5
141	500	0.1459	122.921	-25105.5
142	500	0.156042	122.945	-25027.5
143	500	0.166199	122.973	-24944.4
144	500	0.176374	123.004	-24856.2
145	500	0.186567	123.039	-24763
146	500	0.196779	123.077	-24664.6
147	500	0.207012	123.12	-24561.1
148	500	0.214702	123.166	-24453.7
149	500	0.224974	123.217	-24341.2
150	500	0.235269	123.272	-24223.6
151	500	0.24559	123.333	-24100.8
152	500	0.255936	123.398	-23972.8
153	500	0.266311	123.469	-23839.7
154	500	0.276714	123.546	-23701.3
155	500	0.287147	123.628	-23557.7
156	500	0.297612	123.717	-23408.9
157	500	0.308108	123.811	-23254.9
158	500	0.318639	123.913	-23095.6
159	500	0.329206	124.021	-22931
160	500	0.33981	124.137	-22761
161	500	0.350451	124.26	-22585.8
162	500	0.361133	124.39	-22405.3

163	500	0.371856	124.528	-22219.3
164	500	0.382622	124.675	-22028
165	500	0.393433	124.83	-21831.3
166	500	0.40429	124.993	-21629.2
167	500	0.415193	125.165	-21421.6
168	500	0.426148	125.347	-21208.5
169	500	0.434397	125.536	-20991.3
170	500	0.445443	125.734	-20768.6
171	500	0.456542	125.943	-20540.3
172	500	0.467699	126.161	-20306.4
173	500	0.478914	126.391	-20067
174	500	0.490189	126.631	-19821.9
175	500	0.501527	126.882	-19571.1
176	500	0.51293	127.146	-19314.7
177	500	0.524401	127.421	-19052.5
178	500	0.53594	127.708	-18784.5
179	500	0.547551	128.008	-18510.7
180	500	0.559237	128.32	-18231.1
181	500	0.570999	128.646	-17945.6
182	500	0.582841	128.986	-17654.2
183	500	0.594766	129.34	-17356.8
184	500	0.606775	129.708	-17053.4
185	500	0.618872	130.091	-16744
186	500	0.631062	130.489	-16428.4
187	500	0.643345	130.903	-16106.8
188	500	0.655726	131.333	-15778.9
189	500	0.668209	131.78	-15444.8
190	500	0.677639	132.239	-15106
191	500	0.690309	132.715	-14760.8
192	500	0.703089	133.21	-14409.3
193	500	0.715986	133.722	-14051.3
194	500	0.729003	134.254	-13686.8
195	500	0.742143	134.805	-13315.7
196	500	0.755415	135.375	-12938
197	500	0.768821	135.966	-12553.6
198	500	0.782366	136.578	-12162.4
199	500	0.796056	137.212	-11764.4
200	500	0.809896	137.868	-11359.4
201	500	0.823893	138.547	-10947.5
202	500	0.838054	139.249	-10528.5
203	500	0.852385	139.976	-10102.3
204	500	0.866894	140.727	-9668.83
205	500	0.881587	141.504	-9228.03
206	500	0.896473	142.308	-8779.8
207	500	0.911562	143.139	-8324.02
208	500	0.926859	143.998	-7860.59
209	500	0.942375	144.886	-7389.4
210	500	0.958125	145.804	-6910.34
211	500	0.970094	146.745	-6425.29
212	500	0.986272	147.718	-5932.15
213	500	1.00271	148.723	-5430.8
214	500	1.01943	149.763	-4921.08
215	500	1.03643	150.837	-4402.87
216	500	1.05375	151.947	-3876
217	500	1.07138	153.095	-3340.31
218	500	1.08935	154.282	-2795.63
219	500	1.10768	155.509	-2241.79
220	500	1.12639	156.777	-1678.6
221	500	1.1455	158.09	-1105.84
222	500	1.16505	159.447	-523.32
223	500	1.18504	160.851	69.2019
224	500	1.20553	162.305	671.965
225	500	1.22653	163.809	1285.23
226	500	1.24809	165.367	1909.27
227	500	1.27024	166.98	2544.39
228	500	1.29303	168.652	3190.91
229	500	1.31652	170.385	3849.17
230	500	1.34075	172.183	4519.54
231	500	1.36581	174.048	5202.45
232	500	1.38517	175.967	5895.03
233	500	1.41183	177.96	6600.95
234	500	1.43953	180.033	7320.71
235	500	1.46838	182.189	8054.91
236	500	1.49852	184.434	8804.16
237	500	1.53007	186.775	9569.2
238	500	1.56322	189.219	10350.8
239	500	1.59819	191.773	11149.9
240	500	1.63524	194.447	11967.5
241	500	1.67466	197.252	12804.9
242	500	1.71688	200.199	13663.3
243	500	1.76241	203.306	14544.5
244	500	1.81191	206.589	15450.5
245	500	1.86629	210.072	16383.6
246	500	1.92684	213.784	17347
247	500	1.99539	217.766	18344.7
248	500	2.07485	222.071	19382.1

249	500	2.17009	226.78	20467.2
250	500	2.29036	232.026	21612.4
251	500	2.45727	238.064	22841
252	500	2.74777	245.614	24214.9

Data Set Standard Deviation = 150.061
Numerator = 5.86361e+008
Denominator = 1.38823e+009
W Statistic = 0.42238 = 5.86361e+008 / 1.38823e+009

5% Critical value of 0.976 exceeds 0.42238
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.42238
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 = 264

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	-2.29036	18.8342	-13.3421
4	2.1	-2.17009	23.5435	-17.8993
5	2.1	-2.09693	27.9406	-22.3029
6	2.3	-2.01409	31.9972	-26.9353
7	2.3	-1.94314	35.7729	-31.4045
8	2.6	-1.88079	39.3103	-36.2946
9	2.6	-1.83843	42.6901	-41.0745
10	2.8	-1.78661	45.8821	-46.077
11	3.1	-1.7392	48.9069	-51.4685
12	3.6	-1.6954	51.7813	-57.5719
13	3.6	-1.65463	54.5191	-63.5286
14	3.7	-1.62576	57.1622	-69.5439
15	3.9	-1.58927	59.6879	-75.7421
16	4.5	-1.55477	62.1053	-82.7385
17	5	-1.52203	64.4218	-90.3487
18	5.1	-1.49852	66.6674	-97.9911
19	6	-1.46838	68.8235	-106.801
20	9.9	-1.43953	70.8958	-121.053
21	40	-1.41183	72.8891	-177.526
22	40	-1.38517	74.8078	-232.933
23	40	-1.36581	76.6732	-287.565
24	40	-1.34075	78.4708	-341.195
25	40	-1.31652	80.204	-393.856
26	40	-1.29303	81.876	-445.578
27	40	-1.27588	83.5038	-496.613
28	40	-1.25357	85.0753	-546.755
29	40	-1.23187	86.5928	-596.03
30	40	-1.21073	88.0586	-644.459
31	40	-1.19522	89.4872	-692.268
32	40	-1.17499	90.8678	-739.267
33	40	-1.15522	92.2023	-785.476
34	40	-1.1359	93.4926	-830.912
35	40	-1.11699	94.7402	-875.591
36	40	-1.10306	95.957	-919.714
37	40	-1.08482	97.1338	-963.107
38	40	-1.06694	98.2722	-1005.78
39	40	-1.04939	99.3734	-1047.76
40	40	-1.03643	100.448	-1089.22
41	40	-1.01943	101.487	-1129.99
42	40	-1.00271	102.492	-1170.1
43	40	-0.986272	103.465	-1209.55
44	40	-0.970094	104.406	-1248.36
45	40	-0.958125	105.324	-1286.68
46	40	-0.942375	106.212	-1324.38
47	40	-0.926859	107.071	-1361.45
48	40	-0.911562	107.902	-1397.91
49	40	-0.900227	108.713	-1433.92
50	40	-0.885291	109.496	-1469.33
51	40	-0.87055	110.254	-1504.16
52	40	-0.855996	110.987	-1538.4
53	40	-0.841621	111.695	-1572.06
54	40	-0.830953	112.386	-1605.3
55	40	-0.816874	113.053	-1637.97
56	40	-0.802956	113.698	-1670.09
57	40	-0.789191	114.321	-1701.66
58	40	-0.778966	114.927	-1732.82
59	40	-0.765456	115.513	-1763.44
60	40	-0.752084	116.079	-1793.52
61	40	-0.738846	116.625	-1823.07
62	40	-0.729003	117.156	-1852.23
63	40	-0.715986	117.669	-1880.87
64	40	-0.703089	118.163	-1909
65	40	-0.690309	118.64	-1936.61
66	40	-0.677639	119.099	-1963.72
67	40	-0.668209	119.545	-1990.44
68	40	-0.655726	119.975	-2016.67
69	40	-0.643345	120.389	-2042.41
70	40	-0.631062	120.788	-2067.65
71	40	-0.621911	121.174	-2092.53
72	40	-0.609791	121.546	-2116.92
73	40	-0.597761	121.903	-2140.83
74	40	-0.585815	122.247	-2164.26
75	40	-0.573953	122.576	-2187.22
76	40	-0.565108	122.895	-2209.82

77	40	-0.553384	123.202	-2231.96
78	40	-0.541736	123.495	-2253.63
79	40	-0.530162	123.776	-2274.83
80	40	-0.521527	124.048	-2295.7
81	40	-0.510074	124.308	-2316.1
82	40	-0.498687	124.557	-2336.05
83	40	-0.487364	124.795	-2355.54
84	40	-0.478914	125.024	-2374.7
85	40	-0.467699	125.243	-2393.4
86	40	-0.456542	125.451	-2411.67
87	40	-0.445443	125.65	-2429.48
88	40	-0.434397	125.838	-2446.86
89	40	-0.426148	126.02	-2463.91
90	40	-0.415193	126.192	-2480.51
91	40	-0.40429	126.356	-2496.69
92	40	-0.393433	126.51	-2512.42
93	40	-0.385321	126.659	-2527.84
94	40	-0.374544	126.799	-2542.82
95	40	-0.363809	126.932	-2557.37
96	40	-0.353118	127.056	-2571.49
97	40	-0.342466	127.174	-2585.19
98	40	-0.334503	127.285	-2598.57
99	40	-0.323919	127.39	-2611.53
100	40	-0.31337	127.489	-2624.06
101	40	-0.302855	127.58	-2636.18
102	40	-0.294992	127.667	-2647.98
103	40	-0.284535	127.748	-2659.36
104	40	-0.27411	127.823	-2670.32
105	40	-0.263715	127.893	-2680.87
106	40	-0.253347	127.957	-2691.01
107	40	-0.24559	128.017	-2700.83
108	40	-0.235269	128.073	-2710.24
109	40	-0.224974	128.123	-2719.24
110	40	-0.214702	128.169	-2727.83
111	40	-0.207012	128.212	-2736.11
112	40	-0.196779	128.251	-2743.98
113	40	-0.186567	128.286	-2751.44
114	40	-0.176374	128.317	-2758.5
115	40	-0.168741	128.345	-2765.25
116	40	-0.158579	128.371	-2771.59
117	40	-0.148434	128.393	-2777.53
118	40	-0.138305	128.412	-2783.06
119	40	-0.128189	128.428	-2788.19
120	40	-0.12061	128.443	-2793.01
121	40	-0.110516	128.455	-2797.43
122	40	-0.100433	128.465	-2801.45
123	40	-0.0903606	128.473	-2805.06
124	40	-0.0828129	128.48	-2808.38
125	40	-0.0727562	128.485	-2811.29
126	40	-0.0627062	128.489	-2813.8
127	40	-0.0526632	128.492	-2815.9
128	40	-0.0426257	128.494	-2817.61
129	40	-0.0350997	128.495	-2819.01
130	40	-0.0250691	128.496	-2820.01
131	40	-0.0150408	128.496	-2820.62
132	40	-0.00501359	128.496	-2820.82
133	40	0.00501359	128.496	-2820.62
134	40	0.0150408	128.496	-2820.01
135	40	0.0250691	128.497	-2819.01
136	40	0.0350997	128.498	-2817.61
137	40	0.0426257	128.5	-2815.9
138	40	0.0526632	128.503	-2813.8
139	40	0.0627062	128.507	-2811.29
140	40	0.0727562	128.512	-2808.38
141	40	0.0828129	128.519	-2805.06
142	40	0.0903606	128.527	-2801.45
143	40	0.100433	128.537	-2797.43
144	40	0.110516	128.549	-2793.01
145	40	0.12061	128.564	-2788.19
146	40	0.128189	128.58	-2783.06
147	40	0.138305	128.599	-2777.53
148	40	0.148434	128.621	-2771.59
149	40	0.158579	128.647	-2765.25
150	40	0.168741	128.675	-2758.5
151	40	0.176374	128.706	-2751.44
152	40	0.186567	128.741	-2743.98
153	40	0.196779	128.78	-2736.11
154	40	0.207012	128.822	-2727.83
155	40	0.214702	128.869	-2719.24
156	40	0.224974	128.919	-2710.24
157	40	0.235269	128.975	-2700.83
158	40	0.24559	129.035	-2691.01
159	40	0.253347	129.099	-2680.87
160	40	0.263715	129.169	-2670.32
161	40	0.27411	129.244	-2659.36
162	40	0.284535	129.325	-2647.98

163	40	0.294992	129.412	-2636.18
164	40	0.302855	129.503	-2624.06
165	40	0.31337	129.602	-2611.53
166	40	0.323919	129.707	-2598.57
167	40	0.334503	129.818	-2585.19
168	40	0.342466	129.936	-2571.49
169	40	0.353118	130.06	-2557.37
170	40	0.363809	130.193	-2542.82
171	40	0.374544	130.333	-2527.84
172	40	0.385321	130.482	-2512.42
173	40	0.393433	130.636	-2496.69
174	40	0.40429	130.8	-2480.51
175	40	0.415193	130.972	-2463.91
176	40	0.426148	131.154	-2446.86
177	40	0.434397	131.342	-2429.48
178	40	0.445443	131.541	-2411.67
179	40	0.456542	131.749	-2393.4
180	40	0.467699	131.968	-2374.7
181	40	0.478914	132.197	-2355.54
182	40	0.487364	132.435	-2336.05
183	40	0.498687	132.684	-2316.1
184	40	0.510074	132.944	-2295.7
185	40	0.521527	133.216	-2274.83
186	40	0.530162	133.497	-2253.63
187	40	0.541736	133.79	-2231.96
188	40	0.553384	134.097	-2209.82
189	40	0.565108	134.416	-2187.22
190	40	0.573953	134.745	-2164.26
191	40	0.585815	135.089	-2140.83
192	40	0.597761	135.446	-2116.92
193	40	0.609791	135.818	-2092.53
194	40	0.621911	136.204	-2067.65
195	40	0.631062	136.603	-2042.41
196	40	0.643345	137.017	-2016.67
197	40	0.655726	137.447	-1990.44
198	40	0.668209	137.893	-1963.72
199	40	0.677639	138.352	-1936.61
200	40	0.690309	138.829	-1909
201	40	0.703089	139.323	-1880.87
202	40	0.715986	139.836	-1852.23
203	40	0.729003	140.367	-1823.07
204	40	0.738846	140.913	-1793.52
205	40	0.752084	141.479	-1763.44
206	40	0.765456	142.065	-1732.82
207	40	0.778966	142.671	-1701.66
208	40	0.789191	143.294	-1670.09
209	40	0.802956	143.939	-1637.97
210	40	0.816874	144.606	-1605.3
211	40	0.830953	145.297	-1572.06
212	40	0.841621	146.005	-1538.4
213	40	0.855996	146.738	-1504.16
214	40	0.87055	147.496	-1469.33
215	40	0.885291	148.279	-1433.92
216	40	0.900227	149.09	-1397.91
217	40	0.911562	149.921	-1361.45
218	40	0.926859	150.78	-1324.38
219	40	0.942375	151.668	-1286.68
220	40	0.958125	152.586	-1248.36
221	40	0.970094	153.527	-1209.55
222	40	0.986272	154.5	-1170.1
223	40	1.00271	155.505	-1129.99
224	40	1.01943	156.544	-1089.22
225	40	1.03643	157.619	-1047.76
226	40	1.04939	158.72	-1005.78
227	40	1.06694	159.858	-963.107
228	40	1.08482	161.035	-919.714
229	40	1.10306	162.252	-875.591
230	40	1.11699	163.499	-830.912
231	40	1.1359	164.79	-785.476
232	40	1.15522	166.124	-739.267
233	40	1.17499	167.505	-692.268
234	40	1.19522	168.933	-644.459
235	40	1.21073	170.399	-596.03
236	40	1.23187	171.917	-546.755
237	40	1.25357	173.488	-496.613
238	40	1.27588	175.116	-445.578
239	40	1.29303	176.788	-393.856
240	40	1.31652	178.521	-341.195
241	40	1.34075	180.319	-287.565
242	40	1.36581	182.184	-232.933
243	40	1.38517	184.103	-177.526
244	40	1.41183	186.096	-121.053
245	40	1.43953	188.168	-63.4716
246	40	1.46838	190.325	-4.73624
247	40	1.49852	192.57	55.2044
248	40	1.52203	194.887	116.086

249	40	1.55477	197.304	178.277
250	40	1.58927	199.83	241.847
251	40	1.62576	202.473	306.878
252	40	1.65463	205.211	373.063
253	40	1.6954	208.085	440.879
254	40	1.7392	211.11	510.447
255	40	1.78661	214.302	581.911
256	40	1.83843	217.682	655.448
257	40	1.88079	221.219	730.68
258	40	1.94314	224.995	808.405
259	40	2.01409	229.051	888.969
260	40	2.09693	233.449	972.846
261	40	2.17009	238.158	1059.65
262	40	2.29036	243.404	1151.26
263	40	2.45727	249.442	1249.56
264	64	2.74777	256.992	1425.41

Data Set Standard Deviation = 9.82037
Numerator = 2.0318e+006
Denominator = 6.51824e+006
W Statistic = 0.31171 = 2.0318e+006 / 6.51824e+006

5% Critical value of 0.976 exceeds 0.31171
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.31171
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 = 252

i	x(i)	m(i)	sum(m^2)	sum(mx)
1	1	-2.74777	7.55021	-2.74777
2	1	-2.45727	13.5884	-5.20504
3	1	-2.29036	18.8342	-7.4954
4	1.3	-2.17009	23.5435	-10.3165
5	1.5	-2.07485	27.8485	-13.4288
6	2.1	-1.99539	31.8301	-17.6191
7	2.2	-1.92684	35.5428	-21.8582
8	2.3	-1.86629	39.0258	-26.1506
9	2.4	-1.81191	42.3088	-30.4992
10	2.5	-1.76241	45.4149	-34.9053
11	2.7	-1.71688	48.3626	-39.5408
12	3.1	-1.67466	51.1671	-44.7323
13	3.9	-1.63524	53.8411	-51.1097
14	5.2	-1.59819	56.3953	-59.4203
15	5.4	-1.56322	58.839	-67.8617
16	5.5	-1.53007	61.1801	-76.2771
17	5.8	-1.49852	63.4256	-84.9684
18	7.5	-1.46838	65.5818	-95.9813
19	9	-1.43953	67.654	-108.937
20	13.8	-1.41183	69.6473	-128.42
21	50	-1.38517	71.566	-197.679
22	50	-1.36581	73.4314	-265.969
23	50	-1.34075	75.229	-333.007
24	50	-1.31652	76.9623	-398.833
25	50	-1.29303	78.6342	-463.485
26	50	-1.27024	80.2477	-526.997
27	50	-1.24809	81.8054	-589.401
28	50	-1.22653	83.3098	-650.727
29	50	-1.20553	84.7631	-711.004
30	50	-1.18504	86.1674	-770.256
31	50	-1.16505	87.5248	-828.508
32	50	-1.1455	88.8369	-885.783
33	50	-1.12639	90.1057	-942.103
34	50	-1.10768	91.3326	-997.487
35	50	-1.08935	92.5193	-1051.95
36	50	-1.07138	93.6672	-1105.52
37	50	-1.05375	94.7776	-1158.21
38	50	-1.03643	95.8518	-1210.03
39	50	-1.01943	96.891	-1261
40	50	-1.00271	97.8964	-1311.14
41	50	-0.986272	98.8691	-1360.45
42	50	-0.970094	99.8102	-1408.96
43	50	-0.958125	100.728	-1456.86
44	50	-0.942375	101.616	-1503.98
45	50	-0.926859	102.475	-1550.33
46	50	-0.911562	103.306	-1595.9
47	50	-0.896473	104.11	-1640.73
48	50	-0.881587	104.887	-1684.81
49	50	-0.866894	105.639	-1728.15
50	50	-0.852385	106.365	-1770.77
51	50	-0.838054	107.068	-1812.67
52	50	-0.823893	107.746	-1853.87
53	50	-0.809896	108.402	-1894.36
54	50	-0.796056	109.036	-1934.17
55	50	-0.782366	109.648	-1973.28
56	50	-0.768821	110.239	-2011 72
57	50	-0.755415	110.81	-2049.5
58	50	-0.742143	111.361	-2086.6
59	50	-0.729003	111.892	-2123.05
60	50	-0.715986	112.405	-2158.85
61	50	-0.703089	112.899	-2194.01
62	50	-0.690309	113.376	-2228.52
63	50	-0.677639	113.835	-2262.4
64	50	-0.668209	114.281	-2295.81
65	50	-0.655726	114.711	-2328.6
66	50	-0.643345	115.125	-2360.77
67	50	-0.631062	115.523	-2392.32
68	50	-0.618872	115.906	-2423.26
69	50	-0.606775	116.275	-2453.6
70	50	-0.594766	116.628	-2483.34
71	50	-0.582841	116.968	-2512.48
72	50	-0.570999	117.294	-2541.03
73	50	-0.559237	117.607	-2569
74	50	-0.547551	117.907	-2596.37
75	50	-0.53594	118.194	-2623.17
76	50	-0.524401	118.469	-2649.39

77	50	-0.51293	118.732	-2675.04
78	50	-0.501527	118.983	-2700.11
79	50	-0.490189	119.224	-2724.62
80	50	-0.478914	119.453	-2748.57
81	50	-0.467699	119.672	-2771.95
82	50	-0.456542	119.88	-2794.78
83	50	-0.445443	120.079	-2817.05
84	50	-0.434397	120.267	-2838.77
85	50	-0.426148	120.449	-2860.08
86	50	-0.415193	120.621	-2880.84
87	50	-0.40429	120.785	-2901.05
88	50	-0.393433	120.94	-2920.73
89	50	-0.382622	121.086	-2939.86
90	50	-0.371856	121.224	-2958.45
91	50	-0.361133	121.355	-2976.51
92	50	-0.350451	121.478	-2994.03
93	50	-0.33981	121.593	-3011.02
94	50	-0.329206	121.701	-3027.48
95	50	-0.318639	121.803	-3043.41
96	50	-0.308108	121.898	-3058.82
97	50	-0.297612	121.986	-3073.7
98	50	-0.287147	122.069	-3088.05
99	50	-0.276714	122.145	-3101.89
100	50	-0.266311	122.216	-3115.21
101	50	-0.255936	122.282	-3128
102	50	-0.24559	122.342	-3140.28
103	50	-0.235269	122.398	-3152.05
104	50	-0.224974	122.448	-3163.29
105	50	-0.214702	122.494	-3174.03
106	50	-0.207012	122.537	-3184.38
107	50	-0.196779	122.576	-3194.22
108	50	-0.186567	122.611	-3203.55
109	50	-0.176374	122.642	-3212.37
110	50	-0.166199	122.669	-3220.68
111	50	-0.156042	122.694	-3228.48
112	50	-0.1459	122.715	-3235.77
113	50	-0.135774	122.733	-3242.56
114	50	-0.125661	122.749	-3248.84
115	50	-0.115562	122.763	-3254.62
116	50	-0.105474	122.774	-3259.9
117	50	-0.0953969	122.783	-3264.67
118	50	-0.0853288	122.79	-3268.93
119	50	-0.0752698	122.796	-3272.7
120	50	-0.0652187	122.8	-3275.96
121	50	-0.0551734	122.803	-3278.72
122	50	-0.0451348	122.805	-3280.97
123	50	-0.0350997	122.806	-3282.73
124	50	-0.0250691	122.807	-3283.98
125	50	-0.0150408	122.807	-3284.73
126	50	-0.00501359	122.807	-3284.98
127	50	0.00501359	122.807	-3284.73
128	50	0.0150408	122.807	-3283.98
129	50	0.0250691	122.808	-3282.73
130	50	0.0350997	122.809	-3280.97
131	50	0.0451348	122.811	-3278.72
132	50	0.0551734	122.814	-3275.96
133	50	0.0652187	122.819	-3272.7
134	50	0.0752698	122.824	-3268.93
135	50	0.0853288	122.832	-3264.67
136	50	0.0953969	122.841	-3259.9
137	50	0.105474	122.852	-3254.62
138	50	0.115562	122.865	-3248.84
139	50	0.125661	122.881	-3242.56
140	50	0.135774	122.899	-3235.77
141	50	0.1459	122.921	-3228.48
142	50	0.156042	122.945	-3220.68
143	50	0.166199	122.973	-3212.37
144	50	0.176374	123.004	-3203.55
145	50	0.186567	123.039	-3194.22
146	50	0.196779	123.077	-3184.38
147	50	0.207012	123.12	-3174.03
148	50	0.214702	123.166	-3163.29
149	50	0.224974	123.217	-3152.05
150	50	0.235269	123.272	-3140.28
151	50	0.24559	123.333	-3128
152	50	0.255936	123.398	-3115.21
153	50	0.266311	123.469	-3101.89
154	50	0.276714	123.546	-3088.05
155	50	0.287147	123.628	-3073.7
156	50	0.297612	123.717	-3058.82
157	50	0.308108	123.811	-3043.41
158	50	0.318639	123.913	-3027.48
159	50	0.329206	124.021	-3011.02
160	50	0.33981	124.137	-2994.03
161	50	0.350451	124.26	-2976.51
162	50	0.361133	124.39	-2958.45

163	50	0.371856	124.528	-2939.86
164	50	0.382622	124.675	-2920.73
165	50	0.393433	124.83	-2901.05
166	50	0.40429	124.993	-2880.84
167	50	0.415193	125.165	-2860.08
168	50	0.426148	125.347	-2838.77
169	50	0.434397	125.536	-2817.05
170	50	0.445443	125.734	-2794.78
171	50	0.456542	125.943	-2771.95
172	50	0.467699	126.161	-2748.57
173	50	0.478914	126.391	-2724.62
174	50	0.490189	126.631	-2700.11
175	50	0.501527	126.882	-2675.04
176	50	0.51293	127.146	-2649.39
177	50	0.524401	127.421	-2623.17
178	50	0.53594	127.708	-2596.37
179	50	0.547551	128.008	-2569
180	50	0.559237	128.32	-2541.03
181	50	0.570999	128.646	-2512.48
182	50	0.582841	128.986	-2483.34
183	50	0.594766	129.34	-2453.6
184	50	0.606775	129.708	-2423.26
185	50	0.618872	130.091	-2392.32
186	50	0.631062	130.489	-2360.77
187	50	0.643345	130.903	-2328.6
188	50	0.655726	131.333	-2295.81
189	50	0.668209	131.78	-2262.4
190	50	0.677639	132.239	-2228.52
191	50	0.690309	132.715	-2194.01
192	50	0.703089	133.21	-2158.85
193	50	0.715986	133.722	-2123.05
194	50	0.729003	134.254	-2086.6
195	50	0.742143	134.805	-2049.5
196	50	0.755415	135.375	-2011.72
197	50	0.768821	135.966	-1973.28
198	50	0.782366	136.578	-1934.17
199	50	0.796056	137.212	-1894.36
200	50	0.809896	137.868	-1853.87
201	50	0.823893	138.547	-1812.67
202	50	0.838054	139.249	-1770.77
203	50	0.852385	139.976	-1728.15
204	50	0.866894	140.727	-1684.81
205	50	0.881587	141.504	-1640.73
206	50	0.896473	142.308	-1595.9
207	50	0.911562	143.139	-1550.33
208	50	0.926859	143.998	-1503.98
209	50	0.942375	144.886	-1456.86
210	50	0.958125	145.804	-1408.96
211	50	0.970094	146.745	-1360.45
212	50	0.986272	147.718	-1311.14
213	50	1.00271	148.723	-1261
214	50	1.01943	149.763	-1210.03
215	50	1.03643	150.837	-1158.21
216	50	1.05375	151.947	-1105.52
217	50	1.07138	153.095	-1051.95
218	50	1.08935	154.282	-997.487
219	50	1.10768	155.509	-942.103
220	50	1.12639	156.777	-885.783
221	50	1.1455	158.09	-828.508
222	50	1.16505	159.447	-770.256
223	50	1.18504	160.851	-711.004
224	50	1.20553	162.305	-650.727
225	50	1.22653	163.809	-589.401
226	50	1.24809	165.367	-526.997
227	50	1.27024	166.98	-463.485
228	50	1.29303	168.652	-398.833
229	50	1.31652	170.385	-333.007
230	50	1.34075	172.183	-265.969
231	50	1.36581	174.048	-197.679
232	50	1.38517	175.967	-128.42
233	50	1.41183	177.96	-57.8288
234	50	1.43953	180.033	14.1477
235	50	1.46838	182.189	87.5669
236	50	1.49852	184.434	162.493
237	50	1.53007	186.775	238.996
238	50	1.56322	189.219	317.157
239	50	1.59819	191.773	397.067
240	50	1.63524	194.447	478.828
241	50	1.67466	197.252	562.561
242	50	1.71688	200.199	648.406
243	50	1.76241	203.306	736.526
244	50	1.81191	206.589	827.122
245	50	1.86629	210.072	920.436
246	50	1.92684	213.784	1016.78
247	50	1.99539	217.766	1116.55
248	50	2.07485	222.071	1220.29

249	54	2.17009	226.78	1337.48
250	56	2.29036	232.026	1465.74
251	69	2.45727	238.064	1635.29
252	154	2.74777	245.614	2058.44

Data Set Standard Deviation = 14.3045
Numerator = 4.23719e+006
Denominator = 1.26146e+007
W Statistic = 0.335894 = 4.23719e+006 / 1.26146e+007

5% Critical value of 0.976 exceeds 0.335894
Evidence of non-normality at 95% level of significance

1% Critical value of 0.967 exceeds 0.335894
Evidence of non-normality at 99% level of significance

APPENDIX VI

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 = 85.3175%
Background measurements (n) = 42
Maximum Background Concentration = 500
Minimum Coverage = 93.1%
Average Coverage = 97.6744%

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-17	12/5/2008	49.3	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-18	12/5/2008	28.1	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-19	12/5/2008	31	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-20	12/5/2008	63.6	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-21	12/5/2008	30.1	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-22	12/5/2008	78.5	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-23	12/5/2008	61.4	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-24	12/5/2008	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-25	12/5/2008	ND<500	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
MW-25d	12/5/2008	12.4	FALSE

Non-Parametric Tolerance Interval

Parameter: Vanadium

Original Data (Not Transformed)

Non-Detects Replaced with Detection Limit

Total Percent Non-Detects = 92.0455%
Background measurements (n) = 44
Maximum Background Concentration = 40
Minimum Coverage = 93.4%
Average Coverage = 97.7778%

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-17	12/5/2008	2.6	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-18	12/5/2008	3.1	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-19	12/5/2008	3.6	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-20	12/5/2008	6	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-21	12/5/2008	2.3	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-22	12/5/2008	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-23	12/5/2008	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-24	12/5/2008	2	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-25	12/5/2008	ND<40	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
MW-25d	12/5/2008	3.7	FALSE

Non-Parametric Tolerance Interval

Parameter: Zinc, total

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

Total Percent Non-Detects = 90.0794%
Background measurements (n) = 42
Maximum Background Concentration = 50
Minimum Coverage = 93.1%
Average Coverage = 97.6744%

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-17	12/5/2008	ND<50	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-18	12/5/2008	ND<50	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-19	12/5/2008	7.5	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-20	12/5/2008	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-21	12/5/2008	5.2	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-22	12/5/2008	3.9	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-23	12/5/2008	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	1.5	FALSE
MW-24	**5/2/2008**	**154**	**TRUE**
MW-24	12/5/2008	9	FALSE
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-25	12/5/2008	ND<50	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
MW-25d	12/5/2008	ND<50	FALSE

APPENDIX VII

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	December 3-5, 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 — Environmental Department Manager — (336) 288-7180

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Signature — Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007