Prepared for:

Wilkes County Department of Solid Waster
919 Elkin Highway
Roaring River, North Carolina 28669

JEI Project Number 356.07, Task 34

FIRST SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2008

ROARING RIVER LANDFILL
WILKES COUNTY, NORTH CAROLINA
PERMIT NO. 97-04

September 2008

Prepared by:

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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).
- 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):

Joyce Engineering, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Jeremey J. Kerly Phone: 336-323-0092

E-mail: jkerly@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Wilkes County-Roaring River Landfill	NC Highway 268 East Roaring River, NC 28669	97-04	1600	April 28, 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 or explosive methane gas limits 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.

Jeremey J. Kerly	Project Consultant	(336)-323-0092
Facility Representative Name (Print)	Title	(Area Code) Telephone Number

Signature: J. Kerly Date: 9-4-08

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2097 GEOLOGIST JEREMEY JOHN KERLY

Revised 10/2006

First Semiannual Groundwater Monitoring Report of 2008
Roaring River Landfill
Wilkes County, North Carolina

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1.0 INTRODUCTION

1.1 Site Information

The Wilkes County Roaring River Landfill is owned and operated by Wilkes County under Permit No. 97-04. The landfill property is located near the town of Roaring River, North Carolina. The site is located on a group of knolls rising over 150 feet above the floodplain of the Yadkin River. The property boundary and disposal area are indicated on an enlarged portion of the USGS 7 ½ minute topographic map for Ronda, North Carolina (Figure No. 1). The landfill facility boundary includes most of the area between the disposal cells and the Yadkin River.

The approximately 145-acre site was originally investigated for suitability as a solid waste management facility in 1989 by Westinghouse Environmental and Geotechnical Services, Inc. (Westinghouse). Additional site characterization work was performed at the site in 1990 and 1991 by Municipal Engineering Services, P.A., during preparation of the Construction Plan Application for the Phase 1 cell, in accordance with expected revisions to the North Carolina Solid Waste Management Rules (NCSWMR), in response to Subtitle D regulations. Further site characterization work was performed in 1994, as part of the Transition Plan for the facility.

Wilkes County submitted a Design Hydrogeologic Report in 1991 to North Carolina Department of Environment and Natural Resources (NCDENR) and the facility began accepting waste in the Subtitle D lined Phase 1 in 1993. This cell, which occupies approximately 11.7 acres of the facility, reached final capacity in 1999. A site investigation and Design Hydrogeologic Report for the 7.3 acre Phase 2 cell was completed in December 1998. The Phase 2 disposal area reached final capacity in July 2006. A Design Hydrogeologic Report for the 6.6 acre Phase 3 was completed in May 2004 and construction was completed January 2006. Phase 4 of the waste disposal unit will be a vertical expansion of the Phase 3 area, as agreed upon in a December 10, 2002, site meeting with Sherri Coghill of the NCDENR. A leachate lagoon is located southwest of the approximately 12-acre lined area.

1.2 Site Geology

The study site is located at the boundary of the Inner Piedmont Belt and Blue Ridge Belt in the Brevard Fault Zone. In the vicinity of the site, the Brevard Zone is a five-mile wide, east-northeast trending fault zone with a complex structural and metamorphic history. Finely interlayered gneisses and schists within the zone are amphibolite facies, with peak metamorphism as high as the kyanite zone for pelitic assemblages. Typically, the more highly-strained and faulted parts of the zone have experienced retrograde metamorphism to greenschist facies. Rocks in the Brevard Zone have undergone various degrees of both ductile and brittle deformation. Espenshade and others mapped four continuous faults that either bound the zone or separate rock units consistently over long distances. These faults contain both mylonitic and cataclastic rock, and exhibit the greatest degree of retrograde metamorphism. Two of these faults cross on or near the site. Bedrock and partially weathered rock at the site and in the Brevard Zone generally are more highly fractured than rock typical of most Piedmont and Mountain sites.

1.3 Regulatory Status

The Roaring River Landfill is currently in the detection monitoring program. The facility currently monitors groundwater for the NC Appendix I constituents and leachate for parameters listed under Section 2.2 Leachate Monitoring Program. Statistical analyses of the laboratory data has been prepared in accordance with the required compliance demonstration Rule .1632(g), (h), and (i) of the North Carolina Division of Waste Management, Solid Waste Section.

2.0 FACILITY MONITORING PROGRAM

2.1 Groundwater Monitoring Program

Eleven active groundwater monitoring wells comprise the monitoring network at the Roaring River Landfill. The current compliance network consists of the following monitoring wells: MW-2R (facility background well), MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-12S, MW-12D, MW-17, and MW-18.

Monitoring Well	Date Installed	Classification	Monitoring Program	Total Depth from TOC (ft)	Lithology of Screened Interval
MW-2	1/03/91	Abandoned	-	81.50	Saprolite
MW-2R	4/08/02	Background	Detection	116.00	Bedrock
MW-5	8/12/93	Compliance	Detection	38.11	Saprolite
MW-6	8/13/93	Compliance	Detection	37.60	Saprolite
MW-7	8/11/93	Compliance	Detection	41.77	Saprolite
MW-8	8/11/93	Compliance	Detection	58.50	Bedrock
MW-9	8/12/93	Compliance	Detection	37.57	Saprolite
MW-10	9/02/98	Compliance	Detection	76.75	Bedrock
MW-11S	9/03/98	Abandoned	-	42.00	Bedrock
MW-11D	9/03/98	Abandoned	-	100.00	Bedrock
MW-12S	3/07/00	Compliance	Detection	104.00	Partially Weathered Rock
MW-12D	3/07/00	Compliance	Detection	134.00	Partially Weathered Rock
MW-17	8/26/03	Background	Detection	24.63	Saprolite
MW-18	8/26/03	Background	Detection	46.85	Saprolite

Monitoring well MW-2R is the upgradient background monitoring well for the facility. This well replaced former background monitoring well MW-2, which had been dry for several events, as requested in correspondence from the Section, dated December 13, 2001. Well MW-2R was sampled for the first time on April 23, 2002, just after the first semiannual event. Monitoring wells MW-5, -6, -7, -8, -9, and -10 are monitored to detect potential releases from Cell 1. Monitoring wells MW-12S and -12D were installed in March 2000 to be incorporated into the monitoring network to effectively monitor Cell 2, while monitoring wells MW-11S and MW-11D were abandoned for Phase 2 construction. Wells MW-17 and MW-18 were installed during the Design Hydrogeologic Investigation for Phases 3 and 4 and were incorporated into the facility network after the June 2006 approval of the revised Groundwater Monitoring Plan.

2.2 Leachate Monitoring Program

One leachate monitoring point is sampled on a semiannual basis at the Roaring River Landfill and the laboratory results are included. The following constituents are required for laboratory leachate analysis:

- North Carolina Appendix I Metals (plus Manganese, Molybdenum, and Mercury)
- North Carolina Appendix I 8260 Volatiles
- Biochemical Oxygen Demand
- Oil & Grease
- Cyanide
- Total Suspended Solids

3.0 FIRST SEMIANNUAL SAMPLING EVENT OF 2008

3.1 Field Work

On April 28, 2008, Research and Analytical Laboratories, Inc. (RAL) personnel visited Roaring River Landfill to purge and sample monitoring wells MW-2R, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-12S, MW-12D, MW-17 and MW-18. Monitoring wells MW-6, MW-7, MW-10 and MW-12S were either dry, the bailer was unable to reach the water column, or there was not enough groundwater to purge and sample.

Monitoring wells were purged and sampled using bailers. Measurements of temperature, pH, and specific conductivity were recorded in a field log. Turbidity information was based on visual observation. Prior to sampling, laboratory-supplied containers were prepared with the following information:

- Monitoring well number (completed by laboratory/field personnel),
- Date and time of sample collection (completed by laboratory/field personnel),
- Initials of sampling personnel (completed by laboratory/field personnel),
- Project name and number (completed by the laboratory/field personnel),
- Chemical preservative (completed by the laboratory/field personnel); and
- Requested chemical analysis (completed by the laboratory/field personnel).

Groundwater samples from each monitoring well were collected directly from the bailers in the provided laboratory containers either immediately after purging or within 24 hours of the final purge volume. Immediately after collection, the samples were placed in a laboratory provided cooler and chilled on ice. A field log is provided in Appendix 2.

Leachate samples were collected from the leachate lagoon. Prepared sampling containers were filled, placed in a cooler, and chilled on ice. At the time of sampling, leachate was measured for temperature, pH, and specific conductivity.

3.2 Laboratory Analysis and JEI Quality Control

The April 2008 groundwater and leachate samples were analyzed by Research and Analytical Laboratories, Inc. of Kernersville, North Carolina under chain-of-custody control for analysis. As presented earlier, the groundwater was analyzed for NC Appendix I constituents. The leachate was analyzed for NC Appendix I constituents, as well as mercury, manganese, molybdenum, Biochemical Oxygen Demand (BOD), oil & grease, cyanide, and Total Suspend Solids (TSS). The sampled were received by the laboratory on April 28, 2008, in good condition, properly preserved, and within analysis hold times.

In addition to samples collected for compliance monitoring at the Roaring River Landfill, a Field Blank was collected by RAL personnel as part of the April 2008 sampling event. Also, a Trip Blank that was prepared by the laboratory accompanied the volatile sampling containers to and from the laboratory. The Field and Trip Blanks was analyzed for the NC Appendix I metals and list of volatile organic compounds.

Upon receipt of the laboratory data package, the data was reviewed by JEI personnel for the following:

- General typographical errors,
- Correct analyses performed and within method specified hold times,
- Biased data results based on Matrix Spike, Matrix Spike Duplicate, and Laboratory Control Samples,
- Blank qualified data (B-flags),
- Detections above the NC 2L Groundwater Standards or Groundwater Water Protection (GWP) Standards; and
- Detections that are above historical levels.

No questions or problems were discovered based on the review to warrant reissue of the laboratory report.

4.0 HYDROGEOLOGICAL CONDITIONS

Surface water at the site flows to the south-southwest in three site drainages to the Yadkin River, which border the southeastern facility boundary. Regional groundwater flow in the vicinity of the facility is also generally to the south-southwest and discharges to the Yadkin River. Groundwater beneath the site flows in two interconnected aquifers, a surficial aquifer and a fractured bedrock aquifer. Most of the groundwater flowing in these aquifers discharges either to the alluvial sediment of the Yadkin River floodplain, or to the lowermost reaches of the three site surface drainages before reaching the river.

Depth to groundwater was measured in the compliance monitoring wells at the site prior to sampling. The groundwater elevations were calculated relative to the surveyed measuring point (top of casing) for each monitoring well. The historical groundwater elevations are summarized

in Table 1. The groundwater elevation contours shown on Drawing No. 1 are based on data from the April 2008 sampling event.

Estimated horizontal groundwater gradients from the April 2008 groundwater levels are presented in Table 2. The average horizontal gradient is approximately 0.067 ft/ft.

Hydraulic conductivities (K) were based on slug test values from the *Design Hydrogeologic Report* submitted in April 2004. An effective porosity of 16% was used to estimate average linear groundwater flow velocities. Linear groundwater flow velocities for wells screened in saprolite were computed using the following modified Darcy equation:

$$V = Ki/n_e$$

where V = average linear velocity (feet per day), K = hydraulic conductivity (ft/day), i = horizontal hydraulic gradient, and n_e = effective porosity.

Based on calculations from the most recent sampling event, the average estimated linear groundwater flow velocity for the site is approximately 0.23 ft/day (Table 2). This falls within the range of historical estimates for groundwater flow velocities at this site. However, the linear velocity equation and resulting rates make the simplified assumptions of a homogeneous and isotropic aquifer. This equation can grossly overestimate velocity when applied to heterogeneous and/or anisotropic conditions, such as in the bedrock wells used for gradient estimates at this site. The regolith and fractured bedrock common in Piedmont terrain are characteristically heterogeneous. Site boring logs record that regolith sampled at the site commonly exhibits relict foliation. These structures can result in locally anisotropic groundwater flow directions. Although the regolith and bedrock are hydraulically connected, the effective porosity generally decreases with depth into the underlying fractured bedrock.

5.0 DATA ANALYSIS AND STATISTICAL RESULTS

Results from the April 2008 sampling event were received from RAL and are found in Appendix 2. There were no statistically significant increases of organic or inorganic constituents detected during the sampling events.

Statistical comparisons of baseline monitoring data to compliance data are part of the required compliance demonstration (Rule .1632(g), (h), and (i)). Background data and statistical methods used to evaluate the data from the Subtitle D Landfill are discussed below.

5.1 Statistical Methods

The data were evaluated using the Shapiro-Wilk Test, Parametric Prediction Limits, Parametric Tolerance Intervals, Aitchison's Adjustment, Non-Parametric Prediction Limits, and Poisson Prediction Limits as appropriate. The results of the statistical analyses are summarized in the *Statistical Analyses* section, and are discussed in Section 5.0 of this report. Detailed results of each statistical analysis are also presented in the *Statistical Analyses* section. To clearly document these tests, individual tests are presented on each page. Background data are

determined by tests for normality, outliers, Aitchison's adjustment, and/or parametric tolerance interval, as appropriate based on the data. For each set of data, all parameters used to calculate the test statistic are presented beneath the raw data. The result of the test and any comments relating to quality assurance are presented at the bottom of the page.

The statistical test by which downgradient data are compared to facility background data is based upon the nature of the data and the number of data values that are less than the laboratory limit of detection. All statistical tests are evaluated at the 0.05 level of significance, 95% confidence level, and are conducted as one-tailed tests. These methods and the criteria for their use are discussed below.

5.1.1 Treatment of Censored Data

Generally, the laboratory limit of detection (DL) and limit of quantitation (QL) are known and background data are censored as follows. When less than or equal to 15% or greater than 90% of the background data values are less than the DL, any data reported less than the DL will be treated as one-half the DL.

5.1.2 Assumption of Normality

Prior to conducting statistical tests that are based on the assumption of normally distributed data, normality of the background data is evaluated using the Shapiro-Wilk statistic (W). Normality is assessed at the 95% confidence level. In the event that the raw data fail to follow a normal distribution, the data are transformed using a base-10 logarithm. The transformed data are then tested for normality using the Shapiro-Wilk statistic. In the event that the log-transformed data also fail to follow a normal distribution, a non-parametric approach is applied.

5.1.3 Parametric Upper Tolerance Limit

In those cases where the background data consist of a minimum of eight independent data values and less than or equal to 15% of the background data values are less than the DL and/or QL for a given analyte, the downgradient values are compared to the parametric upper tolerance limit in accordance with the procedure summarized in the USEPA guidance documents, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Interim Final Guidance* (April 1989) and *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance* (July 1992).

5.1.4 Aitchison's Adjusted Parametric Tolerance Limit

When the background data consist of a minimum of eight independent data values and more than 15%, but less than or equal to 50%, of the background data values are less than the DL and/or QL for a given analyte, the mean and standard deviation are adjusted in accordance with the procedure described by Aitchison (1955) and summarized in the USEPA guidance document, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance* (July 1992). After the adjustments are made, the downgradient values are compared to the Aitchison's adjusted parametric upper tolerance limit in accordance with the

procedures summarized in the USEPA guidance documents, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Interim Final Guidance* (April 1989) and *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance* (July 1992).

5.1.5 Non-parametric Upper Tolerance Limit

In those cases where more than 50%, but less than or equal to 90%, of the background data values are less than the DL for a given analyte or the background data fail to follow a normal or log-normal distribution, downgradient values are compared to the non-parametric upper tolerance limit. These comparisons are made in accordance with the procedures summarized in the USEPA guidance documents, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Interim Final Guidance* (April 1989) and *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance* (July 1992).

5.1.6 Poisson Upper Prediction Limit

In those cases where more than 90% of the background data values are less than the DL for a given analyte, then the downgradient values are compared to the Poisson upper prediction limit. This is done in accordance with the procedure summarized in the USEPA guidance document, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance* (July 1992).

5.2 Statistical Results

Statistical background values were calculated using data from historical semiannual sampling events at the facility through this event. A summary of the April 2008 statistical background calculations are provided below in the following table. Detailed results of statistical analyses can be found in Appendix 1. Monitoring well MW-2R is designated as the background well for the facility. All available data from previous background well MW-2 and data from replacement well MW-2R have been included in the background data pool for the facility. Background data has also been included from MW-17 and MW-18 into the data pool beginning with the April 2004 sampling event and ending with the October 2005 sampling event.

Constituent	Data Distribution	Statistical Method used to Establish Background	Background Concentration	Noted Increased
Barium	N/A	Non-Parametric Prediction Interval	850	-
Beryllium	N/A	Non-Parametric Prediction Interval	1.5	-
Chromium	N/A	Non-Parametric Prediction Interval	406	-
Cobalt	N/A	Non-Parametric Prediction Interval	174	-
Zinc	N/A	Non-Parametric Prediction Interval	995	-

1. Concentrations are in micrograms per liter (µg/L)
2. N/A = Not Applicable

Background concentrations for inorganic constituents were determined using statistical procedures as discussed in **Section 5.1**. There were no statistically significant increases above background levels in any downgradient monitoring well.

5.3 Analytical Results for Groundwater and Comparison to Standards

The following inorganic constituents were detected in groundwater during the April 2008 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be estimated. Concentrations with a "B" are considered to be attributed to lab or field contamination. Highlighted data is an exceedence of the NC 2L Groundwater Standards (NC 2L) or Groundwater Protection Standards (GWPS).

Constituent	NC 2L /GWPS	MW-2R (Background)	MW-5	MW-8	MW-9	MW-12D	MW-17	MW-18	Blanks
Antimony	1.4	ND	ND	ND (ND)	ND	1.3 J	ND	ND	ND
Barium	2,000	11.7 B	221	6.6 B (13.5B)	47.5 B	7.6 B	90.1 B	204	33.2 J
Beryllium	4	ND	ND	ND (ND)	ND	ND	0.3 J	1.5	ND
Cadmium	1.75	ND	ND	ND (ND)	ND	0.5 J	ND	0.2 J	ND
Chromium	50	ND	14	ND (ND)	1.0 B	1.4 B	2.6 B	7.0 B	2.0 J
Cobalt	70	1.0 J	28.9	0.9 J (ND)	1.9 J	ND	1.6 J	8.3 J	ND
Copper	1,000	3.6 B	8.6 B	ND (4.0 B)	ND	4.4 B	3.2 B	16.8 B	5.8 J
Lead	15	2.0 B	10.2 B	1.7 B (ND)	3.4 B	3.1 B	4.8 B	11.5 B	3.8 J
Nickel	100	1.0 B	8.9 B	ND (0.7 B)	2.1 B	3.2 B	1.4 B	8.0 B	1.9 J
Thallium	0.28	ND	ND	ND (ND)	ND	4.0 J	ND	ND	ND
Vanadium	3.5	1.9 J	8.8 J	ND (ND)	0.5 J	12.5 J	5.2 J	14.2 J	ND
Zinc	1,050	15.5	52.1	40.8 (43.9)	ND	7.2 J	11.4	155	ND

* Concentrations are in micrograms per liter (µg/L).

There were no exceedences of NC 2L or GWPS for inorganic constituents in compliance monitoring wells during the April 2008 monitoring event. In general, the inorganic results are consistent with historical data. Historical inorganic groundwater data can be found in Table 3 and field parameters can be found in Table 4.

The following organic constituents were detected during the April 2008 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be to be estimated. Highlighted data is an exceedence of the NC 2L or GWPS.

Constituent	NC 2L /GWPS	MW-2R (Background)	MW-5	MW-8	MW-9	MW-12D	MW-17	MW-18	Blanks
Benzene	1	ND	ND	ND (ND)	ND	0.64 J	ND	ND	ND
Carbon Disulfide	700	ND	ND	ND (ND)	ND	ND	ND	ND	0.54 J
* Concentrations are in micrograms per liter (µg/L).									

There were no exceedences of NC 2L or GWPS in for organic compounds in any compliance monitoring wells. In general, the organic results are consistent with historical data. Historical organic groundwater data can be found in Table 3 and field parameters can be found in Table 4.

5.4 Analytical Results for Leachate

The following inorganic and organic constituents were detected in leachate during the April 2008 sampling event. All concentrations are reported in micrograms per liter (µg/L). Concentrations with a "J" are considered to be estimated. Concentrations with a "B" are considered to be attributed to lab or field contamination.

Constituent	Leachate	Blanks
Antimony	2.3 J	ND
Barium	113	33.2 J
Chromium	6.6 B	2.0 J
Cobalt	16.6	ND
Copper	18.2 B	5.8 J
Lead	ND	3.8 J
Manganese	362	-
Nickel	45.2	1.9 J
Selenium	13.4	ND
Vanadium	1.8 J	ND
Zinc	134	ND
Acetone	21.5 J	ND
Carbon Disulfide	ND	0.54 J
Toluene	0.41 J	ND
Biochemical Oxygen Demand	50000	-
Total Suspended Solids	64000	-
* Concentrations are in micrograms per liter (µg/L).		

The analytical results from the April 2008 leachate sampling event at the Roaring River Landfill are summarized in the Table 5. Leachate field parameters can be found in Table 6. The results, as reported by the laboratory, the laboratory quality assurance/quality control information, and the chain of custody records, are included in the Appendix 2.

6.0 CONCLUSION

There were no inorganic or organic constituent exceedences of the NC2L or GWPS detected during the April 2008 sampling event at the Roaring River Landfill. There were no statistically significant increases of quantified detections in downgradient monitoring wells. Based on analytical results from the April 2008 sampling event, Roaring River Landfill will remain in

Detection Monitoring. The next scheduled semiannual sampling event is scheduled for the fourth quarter 2008.

7.0 REFERENCES

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Tables

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TABLE 1

SUMMARY OF HISTORICAL GROUNDWATER ELEVATIONS

Location	Background		Downgradient									
	MW-2	MW-2R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12S	MW-12D	MW-17	MW-18
TOC Elevation	1115.00	1118.10	996.15	981.01	984.08	984.46	971.89	1024.10	1052.79	1052.89	986.68	1026.49
Well Depth	81.50	116.00	38.11	37.60	41.77	58.50	37.57	76.75	104.00	134.00	24.63	46.85
Oct-94	1042.13	-	966.74	949.27	947.37	948.60	943.17	-	-	-	-	-
Apr-95	1042.19	-	966.73	949.01	946.65	948.07	943.08	-	-	-	-	-
Oct-95	1041.70	-	967.05	948.73	946.67	947.85	943.24	-	-	-	-	-
Apr-96	1043.10	-	968.15	950.20	947.21	948.46	943.34	-	-	-	-	-
Nov-96	1040.56	-	967.40	949.28	946.75	947.96	943.36	-	-	-	-	-
Mar-97	1041.55	-	968.14	951.06	947.61	948.99	944.23	-	-	-	-	-
Sep-97	1039.38	-	966.55	948.88	947.07	951.62	943.81	-	-	-	-	-
Mar-98	1037.72	-	969.55	949.61	946.98	948.34	944.19	-	-	-	-	-
Sep-98	1042.12	-	967.92	950.09	947.36	948.57	943.43	956.95	-	-	-	-
Oct-98	1040.53	-	967.13	948.76	946.77	947.98	943.37	956.08	-	-	-	-
Nov-98	1039.10	-	966.53	947.76	946.33	947.68	943.64	955.13	-	-	-	-
Dec-98	1038.41	-	966.20	947.24	946.08	947.35	942.29	954.56	-	-	-	-
Feb-99	1036.80	-	968.43	947.79	946.31	947.61	943.77	953.18	-	-	-	-
Apr-99	<1035.50	-	967.89	948.44	946.36	947.61	943.34	952.93	-	-	-	-
Sep-99	<1035.50	-	965.54	946.43	945.33	946.50	942.86	-	-	-	-	-
Apr-00	<1035.50	-	965.71	945.72	945.34	947.85	943.31	951.29	958.39	958.38	-	-
Sep-00	<1035.50	-	964.15	945.49	945.20	946.52	943.43	949.79	956.37	956.58	-	-
Mar-01	<1035.50	-	964.30	944.87	944.86	946.21	943.49	948.39	954.38	954.56	-	-
Oct-01	<1035.50	-	960.32	944.79	944.15	945.46	943.49	947.56	954.05	953.23	-	-
Apr-02	<1035.50	1018.99	961.64	946.59	944.28	945.71	943.38	947.40	952.78	949.37	-	-
Nov-02	-	1032.21	961.81	946.92	943.07	946.25	943.90	947.40	949.98	946.52	-	-
May-03	-	1037.34	964.50	951.47	946.87	948.19	944.07	947.43	951.89	944.49	-	-
Nov-03	-	1041.84	962.60	950.27	946.77	948.05	943.42	948.66	955.89	954.78	-	-
Apr-04	-	1041.41	963.52	948.59	946.70	947.51	943.88	948.54	954.92	954.11	967.57	995.90
Oct-04	-	1041.53	962.11	947.33	945.43	945.76	943.68	950.62	954.06	954.41	967.30	995.49
May-05	-	1041.82	963.19	949.53	946.57	946.85	943.96	948.89	954.14	954.73	967.46	987.81
Oct-05	-	1042.35	960.87	945.83	945.05	945.27	943.51	948.62	954.36	953.60	967.19	993.87
29-Jun-06	-	1030.65	958.18	943.61	944.08	944.52	946.31	948.21	952.45	952.55	963.04	991.49
07-Dec-06	-	1039.79	959.85	<943.41	944.43	944.76	943.76	-	951.34	951.34	<962.05	992.24
28-Jun-07	-	1040.52	959.61	<943.41	944.40	944.82	942.93	947.61	951.35	951.38	966.53	979.73
19-Dec-07	-	1038.71	958.68	<943.41	942.46	942.74	941.34	947.61	949.72	930.89	966.68	979.73
28-Apr-08	-	1067.25	959.42	<943.41	942.67	943.02	941.66	947.42	949.95	949.97	966.79	993.45

Notes:

1. - = Data not available
2. Well MW-2 was abandoned on April 8, 2002 and replaced with MW-2R.
3. < = Dry well.

TABLE 2

ESTIMATED HYDRAULIC GRADIENTS AND AVERAGE LINEAR VELOCITIES

GRADIENT CALCULATION SEGMENT	FLOW LINE LENGTH (feet)	FLOW DIRECTION	GROUND-WATER ELEVATION (feet)	HORIZ. GRADIENT, i (ft/ft)	HYDRAULIC CONDUCTIVITY, K (ft/day)	EFFECTIVE POROSITY, n	LINEAR VELOCITY, V (ft/day)
i_1	582	W-SW	1010 970	0.069	5.5E-01	0.16	0.24
i_2	1208	SW	1020 950	0.058	5.5E-01	0.16	0.20
i_3	1188	S-SE	1030 940	0.076	5.5E-01	0.16	0.26
			Average:	0.067	-	-	0.23

Notes:

1. Linear flow velocities in plain type = Ki/n_e.
2. Effective porosity is based on average specific yields calculated using the Johnson (1967) textural classification triangle from the Design Hydrogeologic Report and Groundwater Monitoring Plan prepared by Joyce Engineering, Inc. in April 2004.
3. Hydraulic conductivity is based on a geomean of individual well slug tests performed for wells at the site.
4. Gradient calculation segments were obtained from Drawing No. 1.

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent [NC 2L/GWPS in µg/L]	Date	DL	RL	Concentration in (µg/L) Background MW-2	MW-2R	Downgradient MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12S	MW-12D	MW-17	MW-18	Blanks
Antimony [1.4]	28-Jun-07	1.2	6.0	-	ND	ND	-	ND	ND	ND	-	-	2.4 B (2.9B)	ND	-	4.5
	19-Dec-07	1.2	6.0	-	2.0 J	-	-	-	ND	ND (1.2 J)	-	-	3.1 J	ND	-	ND
	28-Apr-08	1.2	6.0	-	ND	ND	-	-	ND (ND)	ND	-	-	1.3 J	ND	ND	ND
Barium [2,000]	Apr-94	-	250	398	-	ND	444	5480	ND	1600	-	-	-	-	-	-
	Oct-94	-	500	850	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Apr-95	-	500	730	-	ND	ND	701	ND	516	-	-	-	-	-	-
	Oct-95	-	500	ND	-	ND	ND	1630	ND	ND	-	-	-	-	-	-
	Apr-96	-	500	ND	-	ND	ND	1650	ND	ND	-	-	-	-	-	-
	Nov-96	-	500	ND	-	ND	ND	1660	ND	ND	-	-	-	-	-	ND
	Mar-97	-	500	ND	-	ND	ND	1440	ND	ND	-	-	-	-	-	ND
	Sep-97	-	500	ND	-	ND	ND	745	ND	ND	-	-	-	-	-	ND
	Mar-98	-	500	508	-	ND	ND	937	ND	ND	-	-	-	-	-	ND
	Sep-98	-	500	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	-	500	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-99	-	500	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	-	500	-	-	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Sep-00	-	500	-	-	ND	665	ND	ND	ND	ND	ND	ND	-	-	ND
	Mar-01	-	500	-	-	ND	ND	ND	ND	ND	-	ND (ND)	ND	-	-	ND
	Jun-01	-	500	-	-	-	-	-	-	-	-	-	ND	-	-	-
	Oct-01	-	500	-	-	ND	ND	526	ND	ND	-	ND	ND	-	-	ND
	Apr-02	-	500	-	ND	ND	ND	554	ND	ND	-	-	ND (ND)	-	-	ND
	Nov-02	-	500	-	ND	ND	ND	-	ND	ND	-	-	ND	-	-	ND
	May-03	-	500	-	ND	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Nov-03	-	500	-	ND	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Apr-04	-	500	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	May-04	-	500	-	ND	-	-	-	ND	-	-	-	-	-	-	ND
	Oct-04	-	500	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	-	500	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	Oct-05	-	500	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	29-Jun-06	-	500	-	ND	ND	ND	563	ND	ND	-	ND	ND	ND	649	ND
	07-Dec-06	-	100	-	ND	ND	-	ND	ND	ND	-	-	ND	-	ND	ND
	28-Jun-07	1.1	100	-	11.2 B	139	-	560	9.8 B	58.4 I	-	-	12.3 B (16.5 B)	118	-	5.1
	19-Dec-07	1.1	100	-	7.6 B	-	-	-	9.8 B	60.5 (60.3 B) B	-	-	3.0 B	104 B	-	24.9 J
	28-Apr-08	1.1	100	-	11.7 B	221	-	-	6.6 (13.5 B) B	47.5 B	-	-	7.6 B	90.1 B	204	33.2 J
Beryllium [4]	Apr-94	-	5	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Oct-94	-	2	28	-	ND	ND	6	ND	4	-	-	-	-	-	-
	Apr-95	-	2	6	-	3	2	2	ND	6	-	-	-	-	-	-
	Oct-95	-	2	2	-	4	2	4	ND	2	-	-	-	-	-	-
	Apr-96	-	2	ND	-	5	3	5	3	3	-	-	-	-	-	-
	Nov-96	-	2	4	-	4	ND	4	ND	3	-	-	-	-	-	ND
	Mar-97	-	2	ND	-	3	ND	3	ND	ND	-	-	-	-	-	ND
	Sep-97	-	2	13	-	4	ND	4	ND	ND	-	-	-	-	-	ND
	Mar-98	-	2	8	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-98	-	2	4	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	-	2	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-99	-	2	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	-	2	-	-	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Sep-00	-	2	-	-	ND	ND	ND	ND	ND	ND	ND	7 (ND)	-	-	ND
	Mar-01	-	2	-	-	ND	-	ND	ND	ND	-	ND (ND)	ND	-	-	ND
	Oct-01	-	2	-	-	ND	-	ND	ND	ND	-	ND	ND	-	-	ND
	Apr-02	-	2	-	ND	ND	-	ND	ND	ND	-	-	ND (ND)	-	-	ND
	Nov-02	-	2	-	ND	ND	-	-	ND	ND	-	-	ND	-	-	ND
	May-03	-	2	-	ND	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Nov-03	-	2	-	ND	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Apr-04	-	2	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	May-04	-	2	-	ND	ND	-	-	ND	-	-	-	-	-	-	ND
	Oct-04	-	2	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	-	2	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	Oct-05	-	2	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	5	ND
	29-Jun-06	-	2	-	ND	ND	ND	ND	ND	ND	-	-	ND	-	ND	ND
	07-Dec-06	-	1	-	ND	ND	-	ND	ND	ND	-	-	ND	ND	-	ND
	28-Jun-07	0.2	1.0	-	ND	ND	-	ND	ND	ND	-	-	ND	ND	-	ND
	19-Dec-07	0.2	1.0	-	ND	-	-	-	ND	0.3 (ND) J	-	-	ND	0.3 J	1.5	ND
	28-Apr-08	0.2	1.0	-	ND	ND	-	-	ND (ND)	ND	-	-	ND			
Cadmium [1.75]	Apr-94	-	2	2	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Oct-94	-	1	2	-	ND	1	ND	ND	ND	-	-	-	-	-	-
	Apr-95	-	1	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Oct-95	-	1	2	-	1	1	ND	ND	1	-	-	-	-	-	-
	Apr-96	-	1	12	-	1	2	4	ND	3	-	-	-	-	-	ND
	Nov-96	-	1	17	-	3	2	9	ND	7	-	-	-	-	-	ND
	Mar-97	-	1	18	-	2	8	12	ND	5	-	-	-	-	-	ND
	Sep-97	-	1	13	-	12	ND	3	1	1	-	-	-	-	-	ND
	Mar-98	-	1	2	-	ND	ND	ND	3	ND	-	-	-	-	-	ND
	Sep-98	-	1	2	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	-	1	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-99	-	1	-	-	3.7	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	-	1	-	-	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Sep-00	-	1	-	-	ND	2	ND	ND	3	2	4	4 (ND)	-	-	ND
	Mar-01	-	1	-	-	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Oct-01	-	1	-	-	3	ND	2	ND	2	-	1	1	-	-	ND
	Apr-02	-	1	-	2	ND	ND	ND	ND	ND	-	-	ND (ND)	-	-	ND
	Nov-02	-	1	-	ND	ND	ND	-	ND	ND	-	-	3	-	-	ND
	May-03	-	1	-	ND	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Nov-03	-	1	-	ND	ND	ND	ND	ND	ND	-	ND	24	-	-	ND
	Jan-04	-	1	-	-	-	-	-	-	-	-	-	ND	-	-	ND
	Apr-04	-	1	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	May-04	-	1	-	-	-	-	-	ND	-	-	-	-	-	-	ND
	Oct-04	-	1	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	-	1	-	1	ND	ND	ND	ND	ND	-	ND	1	ND	ND	ND
	Oct-05	-	1	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	29-Jun-06	-	1	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	6	ND
	07-Dec-06	-	1	-	ND	ND	-	ND	ND	ND	-	-	ND	-	ND	ND
	28-Jun-07	0.2	1.0	-	ND	ND	-	ND	ND	ND	-	-	ND (0.3 J)	ND	-	ND
	19-Dec-07	0.2	1.0	-	0.2 J	-	-	-	1.4	ND (1.3)	-	-	1.2	0.6 J	-	ND
	28-Apr-08	0.2	1.0	-	ND	ND	-	-	ND (ND)	ND	-	-	0.5 J	ND	0.2 J	ND

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent [NC 2L/GWPS in µg/L]	Date	DL	RL	Concentration in (µg/L) Background MW-2	MW-2R	Downgradient MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12S	MW-12D	MW-17	MW-18	Blanks
Chromium [50]	Apr-94	-	20	48	-	ND	ND	ND	ND	57	-	-	-	-	-	-
	Oct-94	-	10	406	-	ND	ND	25	ND	26	-	-	-	-	-	-
	Apr-95	-	10	248	-	14	10	18	ND	64	-	-	-	-	-	-
	Oct-95	-	10	10	-	22	141	34	ND	34	-	-	-	-	-	-
	Apr-96	-	10	160	-	20	25	32	ND	32	-	-	-	-	-	ND
	Nov-96	-	10	175	-	27	17	40	ND	46	-	-	-	-	-	ND
	Mar-97	-	10	116	-	10	46	35	11	23	-	-	-	-	-	ND
	Sep-97	-	10	127	-	37	ND	14	ND	ND	-	-	-	-	-	ND
	Mar-98	-	10	40	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-98	-	10	42	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	-	10	-	-	ND	ND	ND	ND	11	-	-	-	-	-	ND
	Sep-99	-	10	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	-	10	-	-	ND	14	ND	ND	ND	14	23	32 (58)	-	-	ND
	Sep-00	-	10	-	-	ND	15	ND	ND	11	13	19	32 (26)	-	-	ND
	Jun-01	-	10	-	-	-	-	-	-	-	-	-	15	-	-	-
	Oct-01	-	10	-	-	ND	-	ND	ND	ND	-	16	42	-	-	ND
	Apr-02	-	10	-	ND	ND	-	10	ND	21	-	-	14 (14)	-	-	ND
	Nov-02	-	10	-	ND	ND	-	-	ND	ND	-	-	ND	-	-	ND
	May-03	-	10	-	ND	13	17	ND	ND	ND	-	34	ND	-	-	ND
	Nov-03	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Apr-04	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	May-04	-	10	-	-	-	-	-	ND	-	-	-	-	-	-	ND
	Oct-04	-	10	-	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND
	May-05	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	Oct-05	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	29-Jun-06	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	23	ND
	07-Dec-06	-	10	-	ND	ND	-	ND	ND	ND	-	-	ND	-	ND	ND
	28-Jun-07	0.70	10.0	-	1.1 B	2.9 B	-	2.7 B	2.9 B	1.3 B	-	-	3.0 B (3.4 B)	5.0 B	-	5.2
	19-Dec-07	0.7	10.0	-	ND	-	-	-	ND	1.6 (1.8 J) J	-	-	0.8 J	2.2 J	-	ND
	28-Apr-08	0.7	10.0	-	ND	14	-	-	ND (ND)	1.0 B	-	-	1.4 B	2.6 B	7.0 B	2.0 J
Cobalt [70]	Apr-94	-	50	68	-	ND	ND	ND	ND	220	-	-	-	-	-	-
	Oct-94	-	10	174	-	ND	ND	ND	ND	32	-	-	-	-	-	-
	Apr-95	-	10	148	-	ND	ND	ND	ND	78	-	-	-	-	-	-
	Oct-95	-	10	ND	-	20	74	21	ND	53	-	-	-	-	-	-
	Apr-96	-	10	78	-	27	14	20	ND	48	-	-	-	-	-	ND
	Nov-96	-	10	93	-	23	11	23	ND	67	-	-	-	-	-	ND
	Mar-97	-	10	60	-	ND	24	23	ND	26	-	-	-	-	-	ND
	Sep-97	-	10	77	-	24	ND	ND	ND	10	-	-	-	-	-	ND
	Mar-98	-	10	66	-	11	ND	11	ND	14	-	-	-	-	-	ND
	Sep-98	-	10	57	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	-	10	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-99	-	10	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	-	10	-	-	23	14	ND	ND	16	16	61	12 (21)	-	-	ND
	Sep-00	-	10	-	-	21	15	ND	ND	17	12	57	ND (ND)	-	-	ND
	Mar-01	-	10	-	-	14	-	ND	ND	11	-	34 (47)	ND	-	-	ND
	Jun-01	-	10	-	-	-	-	-	-	-	-	-	ND	-	-	-
	Oct-01	-	10	-	-	ND	-	ND	ND	ND	-	49	ND	-	-	ND
	Apr-02	-	10	-	ND	ND	-	ND	ND	12	-	-	ND (ND)	-	-	ND
	Nov-02	-	10	-	ND	13	-	-	ND	ND	-	-	ND	-	-	ND
	May-03	-	10	-	13	15	16	ND	ND	10	-	68	ND	-	-	ND
	Nov-03	-	10	-	ND	ND	17	ND	ND	ND	-	20	ND	-	-	ND
	Apr-04	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	May-04	-	10	-	-	-	-	-	ND	-	-	-	-	-	-	ND
	Oct-04	-	10	-	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND
	May-05	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	Oct-05	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	29-Jun-06	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	18	ND
	07-Dec-06	-	10	-	ND	ND	-	ND	ND	ND	-	-	ND	-	ND	ND
	28-Jun-07	0.7	10.0	-	ND	20.1	-	5.0 J	-	1.3 J	-	-	1.0 J (1.8 J)	2.7 J	-	ND
	19-Dec-07	0.7	10.0	-	ND	-	-	-	ND	2.8 (2.8 J) J	-	-	ND	1.3 J	-	ND
	28-Apr-08	0.7	10.0	-	1.0 J	28.9	-	-	0.9 (ND) J	1.9 J	-	-	ND	1.6 J	8.3 J	ND
Copper [1,000]	Apr-94	-	10	85	-	ND	28	31	ND	80	-	-	-	-	-	-
	Oct-94	-	200	282	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Apr-95	-	200	208	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Oct-95	-	200	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Apr-96	-	200	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Nov-96	-	200	225	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-97	-	200	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-97	-	200	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-98	-	200	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-98	-	200	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	-	200	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-99	-	200	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	-	200	-	-	ND	ND	ND	ND	ND	ND	ND	ND (ND)	-	-	ND
	Sep-00	-	200	-	-	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Mar-01	-	200	-	-	ND	-	ND	ND	ND	-	ND (ND)	ND	-	-	ND
	Jun-01	-	200	-	-	-	-	-	-	-	-	-	ND	-	-	-
	Oct-01	-	200	-	-	ND	-	ND	ND	ND	-	ND	ND	-	-	ND
	Apr-02	-	200	-	ND	ND	-	ND	ND	ND	-	-	ND (ND)	-	-	ND
	Nov-02	-	200	-	ND	ND	-	-	ND	ND	-	-	ND	-	-	ND
	May-03	-	200	-	ND	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Nov-03	-	200	-	ND	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Apr-04	-	200	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	May-04	-	200	-	-	-	-	-	ND	-	-	-	-	-	-	ND
	Oct-04	-	200	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	-	200	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	Oct-05	-	200	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	29-Jun-06	-	200	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	07-Dec-06	-	10	-	ND	ND	-	ND	ND	ND	-	-	ND	-	ND	ND
	28-Jun-07	2.0	10.0	-	7.6 B	9.2 B	-	7.6 B	9.1 B	4.7 B	-	-	15.8 B (16.3 B)	8.1 B	-	5.2
	19-Dec-07	2.0	10.0	-	3.0 B	-	-	-	ND	2.1 (3.8 B) B	-	-	2.4 B	2.3 B	-	2.6 J
	28-Apr-08	2.0	10.0	-	3.6 B	8.6 B	-	-	ND (4.0 B)	ND	-	-	4.4 B	3.2 B	16.8 B	5.8 J

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent [NC 2L/GWPS in µg/L]	Date	DL	RL	Concentration in (µg/L) Background MW-2	MW-2R	Downgradient MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12S	MW-12D	MW-17	MW-18	Blanks
Lead [15]	Apr-94	-	5	38	-	15	54	39	5	116	-	-	-	-	-	-
	Oct-94	-	10	106	-	ND	ND	22	ND	24	-	-	-	-	-	-
	Apr-95	-	10	82	-	14	ND	16	ND	48	-	-	-	-	-	-
	Oct-95	-	10	12	-	28	37	33	ND	30	-	-	-	-	-	-
	Apr-96	-	10	38	-	20	24	32	ND	28	-	-	-	-	-	ND
	Nov-96	-	10	46	-	27	15	35	ND	37	-	-	-	-	-	ND
	Mar-97	-	10	32	-	ND	45	31	ND	18	-	-	-	-	-	ND
	Sep-97	-	10	43	-	37	12	26	ND	16	-	-	-	-	-	ND
	Mar-98	-	10	67	-	ND	13	ND	ND	26	-	-	-	-	-	ND
	Sep-98	-	10	34	-	ND	11	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	-	10	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	-	10	-	-	ND	17	ND	ND	ND	ND	24	14 (27)	-	-	ND
	Sep-00	-	10	-	-	ND	27	ND	ND	10	ND	31	11 (7)	-	-	ND
	Mar-01	-	10	-	-	ND	-	ND	ND	ND	-	11 (15)	ND	-	-	ND
	Jun-01	-	10	-	-	-	-	-	-	-	-	-	10	-	-	-
	Oct-01	-	10	-	-	ND	-	ND	ND	ND	-	24	ND	-	-	ND
	Apr-02	-	10	-	ND	ND	-	ND	ND	ND	-	-	ND (ND)	-	-	ND
	Nov-02	-	10	-	ND	ND	-	-	ND	ND	-	-	ND	-	-	ND
	May-03	-	10	-	ND	ND	20	ND	ND	ND	-	30	ND	-	-	ND
	Nov-03	-	10	-	ND	ND	21	ND	ND	ND	-	11	ND	-	-	ND
	Apr-04	-	10	-	ND	ND	12	ND	ND	ND	-	ND	ND	10	ND	ND
	May-04	-	10	-	-	-	-	-	ND	-	-	-	-	-	-	ND
	Oct-04	-	10	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	Oct-05	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	29-Jun-06	-	10	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	34	ND
	07-Dec-06	-	10	-	ND	ND	-	ND	ND	ND	-	-	ND	-	ND	ND
	28-Jun-07	2.0	10.0	-	ND	2.0 J	-	4.0 J	ND	ND	-	-	ND	1.9 J	-	ND
	19-Dec-07	2.0	10.0	-	ND	-	-	-	2.3 J	2.9 (3.7 J) J	-	-	2.7 J	2.0 J	-	ND
	28-Apr-08	2.0	10.0	-	2.0 B	10.2 B	-	-	1.7 (ND) B	3.4 B	-	-	3.1 B	4.8 B	11.5 B	3.8 J
Nickel [100]	Apr-94	-	50	53	-	ND	ND	ND	ND	65	-	-	-	-	-	-
	Oct-94	-	50	523	-	ND	ND	57	ND	ND	-	-	-	-	-	-
	Apr-95	-	50	254	-	ND	ND	ND	ND	94	-	-	-	-	-	-
	Oct-95	-	50	ND	-	ND	132	83	ND	58	-	-	-	-	-	-
	Apr-96	-	50	150	-	ND	ND	78	ND	56	-	-	-	-	-	-
	Nov-96	-	50	180	-	77	ND	100	ND	100	-	-	-	-	-	ND
	Mar-97	-	50	107	-	ND	ND	55	ND	ND	-	-	-	-	-	ND
	Sep-97	-	50	129	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-98	-	50	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-98	-	50	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-99	-	50	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	-	50	-	-	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Sep-00	-	50	-	-	ND	ND	ND	ND	ND	ND	ND	ND	-	-	ND
	Mar-01	-	50	-	-	ND	-	ND	ND	ND	-	ND (ND)	ND	-	-	ND
	Jun-01	-	50	-	-	-	-	-	-	-	-	-	ND	-	-	-
	Oct-01	-	50	-	-	ND	-	ND	ND	ND	-	ND	ND	-	-	ND
	Apr-02	-	50	-	ND	ND	-	ND	ND	ND	-	-	ND (ND)	-	-	ND
	Nov-02	-	50	-	ND	ND	-	-	ND	ND	-	-	ND	-	-	ND
	May-03	-	50	-	ND	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Nov-03	-	50	-	ND	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Apr-04	-	50	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	May-04	-	50	-	-	-	-	-	ND	-	-	-	-	-	-	ND
	Oct-04	-	50	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	-	50	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	Oct-05	-	50	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	29-Jun-06	-	50	-	ND	ND	ND	ND	ND	ND	-	-	ND	-	ND	ND
	07-Dec-06	-	50	-	ND	ND	-	ND	ND	ND	-	-	4.3 B (4.5 B)	4.6 B	-	5.0
	28-Jun-07	0.6	50.0	-	1.8 B	8.2 B	-	5.6 B	3.0 B	4.0 B	-	-	ND	1.4 J	-	ND
	19-Dec-07	0.6	50.0	-	1.8 J	-	-	-	6.0 J	4.4 (6.8 J) J	-	-	3.2 B	1.4 B	8.0 B	1.9 J
	28-Apr-08	0.6	50.0	-	1.0 B	8.9 B	-	-	ND (0.7 B)	2.1 B	-	-	ND	ND	-	1.5 J
Silver [17.5]	19-Dec-07	1.1	10.0	-	ND	-	-	-	ND	ND (ND)	-	-	ND	ND	ND	ND
	28-Apr-08	1.1	10.0	-	ND	ND	-	-	ND (ND)	ND	-	-	4.0 J	ND	ND	ND
Thallium [0.28]	28-Apr-08	2.7	5.5	-	ND	ND	-	-	ND (ND)	ND	-	-	-	-	-	-
Vanadium [3.5]	Apr-94	-	80	ND	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Oct-94	-	40	138	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Apr-95	-	40	205	-	ND	ND	89	ND	89	-	-	-	-	-	-
	Oct-95	-	40	ND	-	ND	122	150	ND	ND	-	-	-	-	-	-
	Apr-96	-	40	148	-	ND	50	147	ND	ND	-	-	-	-	-	ND
	Nov-96	-	40	156	-	40	ND	184	ND	59	-	-	-	-	-	ND
	Mar-97	-	40	101	-	ND	97	152	ND	ND	-	-	-	-	-	ND
	Sep-97	-	40	125	-	49	ND	77	ND	ND	-	-	-	-	-	ND
	Mar-98	-	40	43	-	ND	ND	42	ND	ND	-	-	-	-	-	ND
	Sep-98	-	40	44	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Mar-99	-	40	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-99	-	40	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	-	40	-	-	ND	ND	ND	ND	ND	ND	ND	ND (70)	-	-	ND
	Sep-00	-	40	-	-	ND	41	ND	ND	ND	ND	ND	77 (ND)	-	-	ND
	Mar-01	-	40	-	-	ND	-	ND	ND	ND	-	ND (ND)	ND	-	-	ND
	Jun-01	-	40	-	-	-	-	-	-	-	-	-	ND	-	-	-
	Oct-01	-	40	-	-	ND	-	ND	ND	ND	-	ND	ND	-	-	ND
	Apr-02	-	40	-	ND	ND	-	ND	ND	ND	-	-	ND (40)	-	-	ND
	Nov-02	-	40	-	ND	ND	-	-	ND	ND	-	-	49	-	-	ND
	May-03	-	40	-	ND	ND	47	ND	ND	ND	-	58	41	-	-	ND
	Nov-03	-	40	-	ND	ND	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Apr-04	-	40	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	May-04	-	40	-	-	-	-	-	ND	-	-	-	-	-	-	ND
	Oct-04	-	40	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	-	40	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	Oct-05	-	40	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	29-Jun-06	-	40	-	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	51	ND
	07-Dec-06	-	25	-	ND	ND	-	27	ND	ND	-	-	ND	-	ND	ND
	28-Jun-07	0.4	25.0	-	ND	ND	-	17.4 J	ND	ND	-	-	27.7 (27.5)	7.6 J	-	ND
	19-Dec-07	0.4	25.0	-	2.3 J	-	-	-	ND	1.2 (1.8 J) J	-	-	9.0 J	3.3 J	-	ND
	28-Apr-08	0.4	25.0	-	1.9 J	8.8 J	-	-	ND (ND)	0.5 J	-	-	12.5 J	5.2 J	14.2 J	ND

TABLE 3

SUMMARY OF HISTORICAL GROUNDWATER CONSTITUENTS

Constituent [NC 2L/GWPS in µg/L]	Date	DL	RL	Concentration in (µg/L) Background MW-2	MW-2R	Downgradient MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12S	MW-12D	MW-17	MW-18	Blanks
Zinc [1,050]	Apr-94	-	20	213	-	54	114	597	62	678	-	-	-	-	-	-
	Oct-94	-	50	995	-	ND	93	234	ND	211	-	-	-	-	-	-
	Apr-95	-	50	821	-	106	52	160	ND	451	-	-	-	-	-	-
	Oct-95	-	50	ND	-	162	384	359	ND	306	-	-	-	-	-	-
	Apr-96	-	50	622	-	152	104	354	90	304	-	-	-	-	-	ND
	Nov-96	-	50	546	-	203	110	426	136	412	-	-	-	-	-	ND
	Mar-97	-	50	313	-	80	144	378	128	189	-	-	-	-	-	ND
	Sep-97	-	50	382	-	309	140	246	418	187	-	-	-	-	-	ND
	Mar-98	-	50	267	-	70	ND	162	246	57	-	-	-	-	-	ND
	Sep-98	-	50	256	-	130	121	174	108	123	-	-	-	-	-	ND
	Mar-99	-	50	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Sep-99	-	50	-	-	ND	ND	ND	ND	ND	-	-	-	-	-	ND
	Apr-00	-	50	-	-	ND	ND	112	ND	77	ND	55	ND (64)	-	-	ND
	Sep-00	-	50	-	-	ND	111	ND	ND	53	ND	ND	ND	-	-	ND
	Mar-01	-	50	-	-	ND	-	ND	ND	ND	-	63 (92)	ND	-	-	ND
	Jun-01	-	50	-	-	-	-	-	-	-	-	-	ND	-	-	-
	Oct-01	-	50	-	-	59	-	ND	ND	ND	-	84	ND	-	-	ND
	Apr-02	-	50	-	ND	ND	-	141	ND	98	-	-	ND (ND)	-	-	ND
	Nov-02	-	50	-	ND	62	-	-	ND	ND	-	-	ND	-	-	ND
	May-03	-	50	-	ND	62	84	88	ND	71	-	138	ND	-	-	ND
	Nov-03	-	50	-	ND	58	ND	ND	ND	ND	-	ND	ND	-	-	ND
	Apr-04	-	50	-	ND	179	ND	73	ND	ND	-	71	ND	ND	ND	ND
	May-04	-	50	-	-	-	-	-	ND	-	-	-	-	-	-	ND
	Oct-04	-	50	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	May-05	-	50	-	ND	ND	ND	65	ND	ND	-	ND	ND	ND	59	ND
	Oct-05	-	50	-	138	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND
	29-Jun-06	-	50	-	ND	ND	ND	81	ND	ND	-	ND	ND	ND	200	ND
	07-Dec-06	-	10	-	ND	ND	-	120	ND	43 (55)	-	-	ND	-	39	ND
	28-Jun-07	2.7	10.0	-	12.4	53.6	-	91.8	14.9	50.8	-	-	21.4 (27.7)	43.5	-	ND
	19-Dec-07	2.7	10.0	-	15.0 B	-	-	-	18.9 B	44.0 (59.0)	-	-	8.9 B	32.5	-	5.4 J
	28-Apr-08	2.7	10.0	-	15.5	52.1	-	-	40.8 (43.9)	ND	-	-	7.2 J	11.4	155	ND
Benzene [1]	28-Jun-07	0.1	1.0	-	ND	ND	-	ND	ND	ND	-	-	0.6 (0.6 J) J	ND	-	ND
	19-Dec-07	0.1	1.0	-	ND	-	-	-	ND	ND (ND)	-	-	ND	ND	-	ND
	28-Apr-08	0.1	1.0	-	ND	ND	-	-	ND (ND)	ND	-	-	0.64 J	ND	ND	
Carbon Disulfide [700]	28-Jun-07	0.5	100	-	ND	ND	-	ND	2.7 J	ND	-	-	1.1 J (3.3 J)	ND	-	ND
	19-Dec-07	0.5	100	-	0.65 J	-	-	-	ND	ND (ND)	-	-	1.29 J	ND	-	ND
	28-Apr-08	0.5	100	-	ND	ND	-	-	ND (ND)	ND	-	-	ND	ND	ND	0.54 J

NOTES:
1. All concentrations are reported in micrograms per liter (ug/L).
2. Values in parentheses represent duplicate sample results.
3. MW = groundwater monitoring well
4. DL = laboratory detection limit
5. RL = laboratory reporting limit (NC SWSL {or lower} June 2007 - present)
6. ND = not detected above laboratory reporting limit
7. - = not sampled/not available
8. January 2004 results represent a resampling event. Sample was analyzed by ENCO Laboratories.
9. May 2004 results for MW-8 were analyzed by ENCO Laboratories. Well was damaged during regular sampling event.
10. NC 2L = North Carolina 2 L Standard or Groundwater Protection Standard if NC 2L not established.
11. GWPS = Groundwater Protection Standards.
12. Exceedences of the NC 2L/GWPS are highlighted.
13. MW-8 was damaged prior to the April 04 sampling event and no sample could be obtained; therefore, a sample was obtained during May 04 after well repairs were made.
14. MW-5, MW-6, and MW-12S monitoring wells were dry during the June 2006 event.
15. MW-6, MW-10, MW-12S, and MW-17 monitoring wells were dry during the December 2006 event.
16. MW-6, MW-12S, and MW-18 monitoring wells were dry during the June 2007 event.
17. MW-5, MW-6, MW-7, MW-10, MW-12S and MW-18 monitoring wells were dry during the December 2007 event.
18. MW-6, MW-7, MW-10, and MW-12S monitoring wells were dry during the April 2008 event.

TABLE 4

SUMMARY OF HISTORICAL GROUNDWATER FIELD PARAMETERS

Parameter	Date	Background		Downgradient									
		MW-2	MW-2R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12S	MW-12D	MW-17	MW-18
pH (S.U.)	Sep-98	5.20	-	5.10	5.70	5.90	4.90	5.30	-	-	-	-	-
	Mar-99	-	-	4.06	5.04	6.08	6.01	5.41	-	-	-	-	-
	Sep-99	-	-	4.64	5.37	6.61	5.89	5.01	-	-	-	-	-
	Apr-00	-	-	6.04	5.21	5.09	5.63	5.44	4.99	5.67	5.76	-	-
	Sep-00	-	-	6.16	5.63	5.94	5.37	5.39	4.98	10.63	10.59	-	-
	Mar-01	-	-	4.80	-	5.20	5.10	4.70	-	4.50	11.70	-	-
	Oct-01	-	-	5.25	-	5.38	5.15	5.39	-	5.28	10.59	-	-
	Apr-02	-	6.76	4.96	-	5.09	5.33	5.02	-	-	11.01	-	-
	Nov-02	-	6.22	5.48	-	-	6.03	5.82	-	-	10.22	-	-
	May-03	-	5.43	6.11	5.93	6.11	5.82	6.42	-	6.18	10.01	-	-
	Nov-03	-	6.44	5.03	6.09	5.83	5.27	5.03	-	4.04	8.98	-	-
	Jan-04	-	-	-	-	-	-	-	-	-	12.23	-	-
	Apr-04	-	7.31	5.49	5.37	5.97	-	5.36	-	6.30	10.93	5.25	5.17
	May-04	-	-	-	-	-	5.90	-	-	-	-	-	-
	Oct-04	-	7.11	5.73	5.44	5.61	6.06	5.22	5.77	6.49	10.44	5.37	5.11
	May-05	-	7.30	5.21	5.05	5.65	6.03	5.41	-	6.08	10.35	5.18	4.95
	Oct-05	-	7.00	5.93	7.10	7.22	7.43	6.02	-	7.69	10.35	5.87	5.44
	29-Jun-06	-	7.27	-	-	6.39	6.65	5.87	-	-	9.94	5.73	5.64
	07-Dec-06	-	6.70	5.12	-	5.80	6.23	4.88	-	-	6.72	-	6.72
	28-Jun-07	-	6.99	6.16	-	5.80	5.79	5.36	-	-	9.98	5.24	-
	27-Dec-07	-	6.68	-	-	-	5.97	5.39	-	-	8.29	5.49	-
	28-Apr-08	-	6.88	5.12	-	-	5.56	5.21	-	-	10.29	4.90	4.96
Temperature (°C)	Sep-98	20	-	22	23	19	19	22	-	-	-	-	-
	Mar-99	-	-	15.7	15.6	16.1	14.8	15.9	-	-	-	-	-
	Sep-99	-	-	18	19	19	17	18	-	-	-	-	-
	Apr-00	-	-	11.4	14.2	12.6	12.5	12.7	12.1	12.8	12.8	-	-
	Sep-00	-	-	16.4	19.3	17.6	17.9	17.2	17.8	18.4	17.9	-	-
	Mar-01	-	-	17	-	17	17	16	-	17	14	-	-
	Oct-01	-	-	20	-	19	21	20	-	19	19	-	-
	Apr-02	-	17	16	-	15	14	15	-	-	13	-	-
	Nov-02	-	16	15	-	-	16	16	-	-	16	-	-
	May-03	-	16	17	16	17	17	18	-	19	17	-	-
	Nov-03	-	17	17	18	17	17	17	-	17	16	-	-
	Jan-04	-	-	-	-	-	-	-	-	-	13	-	-
	Apr-04	-	19	19	19	19	-	20	-	18	19	19	22
	May-04	-	-	-	-	-	20	-	-	-	-	-	-
	Oct-04	-	17	18	16	16	17	18	17	17	16	17	16
	May-05	-	20	25	17	17	17	18	-	18	18	21	21
	Oct-05	-	13.4	14.9	14.7	16.4	16.7	16.5	-	15.6	14.7	16.9	15.8
	29-Jun-06	-	27.3	-	-	22.5	25.3	23.1	-	-	21.4	21.9	21.7
	07-Dec-06	-	13.0	14.1	-	12.8	12.2	15.0	-	-	14.1	-	13.0
	28-Jun-07	-	20.9	21	-	19.4	20.1	20.6	-	-	22.0	20.6	-
	27-Dec-07	-	9.9	-	-	-	11.1	12.4	-	-	12.8	11.7	-
	28-Apr-08	-	16.4	16.3	-	-	15.5	15.8	-	-	15.5	15.6	16.0
Conductivity (uohms/cm)	Sep-98	69	-	46	23	127	69	46	-	-	-	-	-
	Mar-99	-	-	292	23	50	60	44	-	-	-	-	-
	Sep-99	-	-	778	96	523	499	103	-	-	-	-	-
	Apr-00	-	-	807	186	623	581	296	191	293	241	-	-
	Sep-00	-	-	810	196	655	523	309	282	277	204	-	-
	Mar-01	-	-	180	-	40	30	20	-	1400	1700	-	-
	Oct-01	-	-	20	-	110	40	80	-	100	1500	-	-
	Apr-02	-	30	240	-	30	90	30	-	-	1900	-	-
	Nov-02	-	110	180	-	-	160	80	-	-	2100	-	-
	May-03	-	190	240	220	70	90	180	-	210	1840	-	-
	Nov-04	-	90	120	110	60	80	30	-	2000	4200	-	-
	Jan-04	-	-	-	-	-	-	-	-	-	1518	-	-
	Apr-04	-	210	36	<30	69	-	31	-	178	1010	<30	<30
	May-04	-	-	-	-	-	33	-	-	-	-	-	-
	Oct-04	-	210	180	260	90	60	140	310	230	1960	120	180
	May-05	-	105	25	25	76	39	39	-	14	404	27	18
	Oct-05	-	110.3	34.2	39.9	90.8	38.6	30.5	-	193.7	327	38.9	18.9
	29-Jun-06	-	95.7	-	-	50.8	35.8	67.6	-	-	396	30.1	12.4
	07-Dec-06	-	240	38.2	-	85.3	78.2	57.1	-	-	324	-	93.7
	28-Jun-07	-	210	50.6	-	113	53.3	41.9	-	-	586	36.4	-
	27-Dec-07	-	141	-	-	-	55.1	38.3	-	-	336	<30	-
	28-Apr-08	-	177	37	-	-	54	36	-	-	465	33	<30

Notes:

1. MW = groundwater monitoring well
2. - = not measured or not reported
3. Jan-04 data are from a resampling event.
4. MW-8 was damaged prior to the April 04 sampling event and no sample could be obtained; therefore, a sample was obtained during May 04 after well repairs were made.
5. MW-5, MW-6, and MW-12S monitoring wells were dry during the June 2006 event.
6. MW-6, MW-10, MW-12S, and MW-17 monitoring wells were dry during the December 2006 event.
7. MW-6, MW-12S, and MW-18 monitoring wells were dry during the June 2007 event.
8. MW-5, MW-6, MW-7, MW-10, MW-12S and MW-18 monitoring wells were dry during the December 2007 event.
9. MW-6, MW-7, MW-10, and MW-12S monitoring wells were dry during the April 2008 event.

TABLE 5

SUMMARY OF HISTORICAL LEACHATE CONSTITUENTS

Constituent	Date	Concentration in (µg/L)					
		RL	DL	Leachate		Blanks	
Antimony	28-Jun-07	1.2	6.0	ND		4.5	
	19-Dec-07	1.2	6.0	3.2	J	ND	
	28-Apr-08	1.2	6.0	2.3	J	ND	
Barium	Apr-94	-	250	-		-	
	Oct-94	-	500	-		-	
	Apr-95	-	500	-		-	
	Oct-95	-	500	-		-	
	Apr-96	-	500	-		-	
	Nov-96	-	500	-		ND	
	Mar-97	-	500	-		ND	
	Sep-97	-	500	-		ND	
	Mar-98	-	500	-		ND	
	Sep-98	-	500	-		ND	
	Mar-99	-	500	-		ND	
	Sep-99	-	500	-		ND	
	Apr-00	-	500	-		ND	
	Sep-00	-	500	-		ND	
	Mar-01	-	500	-		ND	
	Jun-01	-	500	-		-	
	Oct-01	-	500	-		ND	
	Apr-02	-	500	-		ND	
	Nov-02	-	500	-		ND	
	May-03	-	500	-		ND	
	Nov-03	-	500	-		ND	
	Apr-04	-	500	-		ND	
	May-04	-	500	-		ND	
	Oct-04	-	500	-		ND	
	May-05	-	500	ND		ND	
	Oct-05	-	500	ND		ND	
	29-Jun-06	-	500	ND		ND	
	07-Dec-06	-	100	103		ND	
	28-Jun-07	1.1	100	57.1	J	5.1	
	19-Dec-07	1.1	100	97.0	B	24.9	J
	28-Apr-08	1.1	100	113		33.2	J
Chromium	Apr-94	-	20	-		-	
	Oct-94	-	10	-		-	
	Apr-95	-	10	-		-	
	Oct-95	-	10	-		-	
	Apr-96	-	10	-		-	
	Nov-96	-	10	-		ND	
	Mar-97	-	10	-		ND	
	Sep-97	-	10	-		ND	
	Mar-98	-	10	-		ND	
	Sep-98	-	10	-		ND	
	Mar-99	-	10	-		ND	
	Sep-99	-	10	-		ND	
	Apr-00	-	10	-		ND	
	Sep-00	-	10	-		ND	
	Jun-01	-	10	-		-	
	Oct-01	-	10	-		ND	
	Apr-02	-	10	-		ND	
	Nov-02	-	10	-		ND	
	May-03	-	10	-		ND	
	Nov-03	-	10	-		ND	
	Apr-04	-	10	-		ND	
	May-04	-	10	-		ND	
	Oct-04	-	10	-		ND	
	May-05	-	10	ND		ND	
	Oct-05	-	10	ND		ND	
	29-Jun-06	-	10	ND		ND	
	07-Dec-06	-	10	ND		ND	
	28-Jun-07	0.70	10.0	8.3	B	5.2	
	19-Dec-07	0.7	10.0	2.7	J	ND	
	28-Apr-08	0.7	10.0	6.6	B	2.0	J

TABLE 5

SUMMARY OF HISTORICAL LEACHATE CONSTITUENTS

Constituent	Date	Concentration in (µg/L)			
		RL	DL	Leachate	Blanks
Cobalt	Apr-94	-	50	-	-
	Oct-94	-	10	-	-
	Apr-95	-	10	-	-
	Oct-95	-	10	-	-
	Apr-96	-	10	-	-
	Nov-96	-	10	-	ND
	Mar-97	-	10	-	ND
	Sep-97	-	10	-	ND
	Mar-98	-	10	-	ND
	Sep-98	-	10	-	ND
	Mar-99	-	10	-	ND
	Sep-99	-	10	-	ND
	Apr-00	-	10	-	ND
	Sep-00	-	10	-	ND
	Mar-01	-	10	-	ND
	Jun-01	-	10	-	-
	Oct-01	-	10	-	ND
	Apr-02	-	10	-	ND
	Nov-02	-	10	-	ND
	May-03	-	10	-	ND
	Nov-03	-	10	-	ND
	Apr-04	-	10	-	ND
	May-04	-	10	-	ND
	Oct-04	-	10	-	ND
	May-05	-	10	10	ND
	Oct-05	-	10	12	ND
	29-Jun-06	-	10	12	ND
	07-Dec-06	-	10	13	ND
	28-Jun-07	0.7	10.0	14.7	ND
	19-Dec-07	0.7	10.0	8.7 J	ND
	28-Apr-08	0.7	10.0	16.6	ND
Copper	Apr-94	-	10	-	-
	Oct-94	-	200	-	-
	Apr-95	-	200	-	-
	Oct-95	-	200	-	-
	Apr-96	-	200	-	-
	Nov-96	-	200	-	ND
	Mar-97	-	200	-	ND
	Sep-97	-	200	-	ND
	Mar-98	-	200	-	ND
	Sep-98	-	200	-	ND
	Mar-99	-	200	-	ND
	Sep-99	-	200	-	ND
	Apr-00	-	200	-	ND
	Sep-00	-	200	-	ND
	Mar-01	-	200	-	ND
	Jun-01	-	200	-	-
	Oct-01	-	200	-	ND
	Apr-02	-	200	-	ND
	Nov-02	-	200	-	ND
	May-03	-	200	-	ND
	Nov-03	-	200	-	ND
	Apr-04	-	200	-	ND
	May-04	-	200	-	ND
	Oct-04	-	200	-	ND
	May-05	-	200	ND	ND
	Oct-05	-	200	ND	ND
	29-Jun-06	-	200	ND	ND
	07-Dec-06	-	10	ND	ND
	28-Jun-07	2.0	10.0	10.1 B	5.2
	19-Dec-07	2.0	10.0	4.4 B	2.6 J
	28-Apr-08	2.0	10.0	18.2 B	5.8 J

TABLE 5

SUMMARY OF HISTORICAL LEACHATE CONSTITUENTS

Constituent	Date	Concentration in (µg/L)			
		RL	DL	Leachate	Blanks
Lead	Apr-94	-	5	-	-
	Oct-94	-	10	-	-
	Apr-95	-	10	-	-
	Oct-95	-	10	-	-
	Apr-96	-	10	-	-
	Nov-96	-	10	-	ND
	Mar-97	-	10	-	ND
	Sep-97	-	10	-	ND
	Mar-98	-	10	-	ND
	Sep-98	-	10	-	ND
	Mar-99	-	10	-	ND
	Apr-00	-	10	-	ND
	Sep-00	-	10	-	ND
	Mar-01	-	10	-	ND
	Jun-01	-	10	-	-
	Oct-01	-	10	-	ND
	Apr-02	-	10	-	ND
	Nov-02	-	10	-	ND
	May-03	-	10	-	ND
	Nov-03	-	10	-	ND
	Apr-04	-	10	-	ND
	May-04	-	10	-	ND
	Oct-04	-	10	-	ND
	May-05	-	10	ND	ND
	Oct-05	-	10	ND	ND
	29-Jun-06	-	10	ND	ND
	07-Dec-06	-	10	ND	ND
	28-Jun-07	2.0	10.0	ND	ND
	19-Dec-07	2.0	10.0	ND	ND
	28-Apr-08	2.0	10.0	ND	3.8 J
Manganese	07-Dec-06	-	5	848	ND
	28-Jun-07	0.2	-	9.9	-
	19-Dec-07	0.2	-	333	-
	28-Apr-08	0.2	-	362	-
Nickel	Apr-94	-	50	-	-
	Oct-94	-	50	-	-
	Apr-95	-	50	-	-
	Oct-95	-	50	-	-
	Apr-96	-	50	-	-
	Nov-96	-	50	-	ND
	Mar-97	-	50	-	ND
	Sep-97	-	50	-	ND
	Mar-98	-	50	-	ND
	Sep-98	-	50	-	ND
	Sep-99	-	50	-	ND
	Apr-00	-	50	-	ND
	Sep-00	-	50	-	ND
	Mar-01	-	50	-	ND
	Jun-01	-	50	-	-
	Oct-01	-	50	-	ND
	Apr-02	-	50	-	ND
	Nov-02	-	50	-	ND
	May-03	-	50	-	ND
	Nov-03	-	50	-	ND
	Apr-04	-	50	-	ND
	May-04	-	50	-	ND
	Oct-04	-	50	-	ND
	May-05	-	50	ND	ND
	Oct-05	-	50	ND	ND
	29-Jun-06	-	50	ND	ND
	07-Dec-06	-	50	ND	ND
	28-Jun-07	0.6	50.0	60.5	5.0
	19-Dec-07	0.6	50.0	45.9 J	ND
	28-Apr-08	0.6	50.0	45.2	1.9 J

TABLE 5

SUMMARY OF HISTORICAL LEACHATE CONSTITUENTS

Constituent	Date	Concentration in (µg/L)				
		RL	DL	Leachate		Blanks
Selenium	28-Apr-08	6.3	10.0	13.4		ND
Silver	19-Dec-07	1.1	10.0	1.4	B	1.5 J
	28-Apr-08	1.1	10.0	ND		ND
Vanadium	Apr-94	-	80	-		-
	Oct-94	-	40	-		-
	Apr-95	-	40	-		-
	Oct-95	-	40	-		-
	Apr-96	-	40	-		-
	Nov-96	-	40	-		ND
	Mar-97	-	40	-		ND
	Sep-97	-	40	-		ND
	Mar-98	-	40	-		ND
	Sep-98	-	40	-		ND
	Mar-99	-	40	-		ND
	Sep-99	-	40	-		ND
	Apr-00	-	40	-		ND
	Sep-00	-	40	-		ND
	Mar-01	-	40	-		ND
	Jun-01	-	40	-		-
	Oct-01	-	40	-		ND
	Apr-02	-	40	-		ND
	Nov-02	-	40	-		ND
	May-03	-	40	-		ND
	Nov-03	-	40	-		ND
	Apr-04	-	40	-		ND
	May-04	-	40	-		ND
	Oct-04	-	40	-		ND
	May-05	-	40	ND		ND
	Oct-05	-	40	ND		ND
	29-Jun-06	-	40	ND		ND
	07-Dec-06	-	25	ND		ND
	28-Jun-07	0.4	25.0	ND		ND
	19-Dec-07	0.4	25.0	0.5	J	ND
	28-Apr-08	0.4	25.0	1.8	J	ND
Zinc	Apr-94	-	20	-		-
	Oct-94	-	50	-		-
	Apr-95	-	50	-		-
	Oct-95	-	50	-		-
	Apr-96	-	50	-		-
	Nov-96	-	50	-		ND
	Mar-97	-	50	-		ND
	Sep-97	-	50	-		ND
	Mar-98	-	50	-		ND
	Sep-98	-	50	-		ND
	Mar-99	-	50	-		ND
	Sep-99	-	50	-		ND
	Apr-00	-	50	-		ND
	Sep-00	-	50	-		ND
	Mar-01	-	50	-		ND
	Jun-01	-	50	-		-
	Oct-01	-	50	-		ND
	Apr-02	-	50	-		ND
	Nov-02	-	50	-		ND
	May-03	-	50	-		ND
	Nov-03	-	50	-		ND
	Apr-04	-	50	-		ND
	May-04	-	50	-		ND
	Oct-04	-	50	-		ND
	May-05	-	50	ND		ND
	Oct-05	-	50	ND		ND
	29-Jun-06	-	50	ND		ND
	07-Dec-06	-	10	48		ND
	28-Jun-07	2.7	10.0	31.1		ND
	19-Dec-07	2.7	10.0	20.1	B	5.4 J
	28-Apr-08	2.7	10.0	134		ND

TABLE 5

SUMMARY OF HISTORICAL LEACHATE CONSTITUENTS

Constituent	Date	Concentration in (µg/L)			
		RL	DL	Leachate	Blanks
Acetone	28-Apr-08	1.2	100	21.5 J	ND
Carbon Disulfide	28-Jun-07	0.5	100	ND	ND
	19-Dec-07	0.5	100	ND	ND
	28-Apr-08	0.5	100	ND	0.54 J
Toluene	28-Apr-08	0.3	1.0	0.41 J	ND
Xylenes, total	19-Dec-07	0.3	4.0	0.33 J	ND
	28-Apr-08	0.3	4.0	ND	ND
Cyanide	28-Jun-07	5.0	10.0	6.0 J	-
	19-Dec-07	5.0	10.0	ND	-
	28-Apr-08	5.0	10.0	ND	-
Biochemical Oxygen Demand	07-Dec-06	-	2000	16300	ND
	28-Jun-07	2000	-	34600	-
	19-Dec-07	2000	120,000	ND	-
	28-Apr-08	2000	-	50000	-
Total Suspended Solids	07-Dec-06	-	5000	36000	ND
	28-Jun-07	5.0	-	40	-
	19-Dec-07	5.0	-	32.0	-
	28-Apr-08	5000	-	64000	-
Oil & Grease	19-Dec-07	5000	-	5800	-
	28-Apr-08	5000	-	ND	-

Notes:

1. All concentrations are reported in micrograms per liter (ug/L).
2. DL = laboratory detection limit
3. RL = laboratory reporting limit (NC SWSL {or lower} June 2007 - present)
4. ND = not detected above laboratory reporting limit
5. - = not sampled/not available

TABLE 6

SUMMARY OF HISTORICAL LEACHATE FIELD PARAMETERS

Parameter	Date	Leachate
pH (S.U.)	Sep-98	7.30
	Mar-99	8.05
	Sep-99	6.16
	Apr-00	5.80
	Sep-00	5.82
	Mar-01	6.47
	Oct-01	5.69
	Apr-02	6.77
	Nov-02	6.17
	May-03	6.09
	Nov-03	5.96
	Jan-04	-
	Apr-04	7.91
	May-04	-
	Oct-04	7.37
	May-05	8.26
	Oct-05	8.54
	29-Jun-06	8.76
	07-Dec-06	8.33
	28-Jun-07	8.47
	27-Dec-07	7.99
	28-Apr-08	8.28
Temperature (°C)	Sep-98	23
	Mar-99	17
	Sep-99	17
	Apr-00	9.8
	Sep-00	16.3
	Mar-01	20
	Oct-01	19
	Apr-02	14
	Nov-02	15
	May-03	16
	Nov-03	18
	Jan-04	-
	Apr-04	21
	May-04	-
	Oct-04	16
	May-05	29
	Oct-05	14.7
	29-Jun-06	30.9
	07-Dec-06	8.6
	28-Jun-07	27.6
	27-Dec-07	6.2
	28-Apr-08	17.8
Conductivity (uohms/cm)	Sep-98	-
	Mar-99	-
	Sep-99	296
	Apr-00	347
	Sep-00	323
	Mar-01	-
	Oct-01	260
	Apr-02	-
	Nov-02	-
	May-03	-
	Nov-04	220
	Jan-04	-
	Apr-04	2210
	May-04	-
	Oct-04	110
	May-05	3
	Oct-05	296
	29-Jun-06	2000
	07-Dec-06	2330
	28-Jun-07	-
	27-Dec-07	-
	28-Apr-08	-

Figure

Figure No. 1 Site Location Map

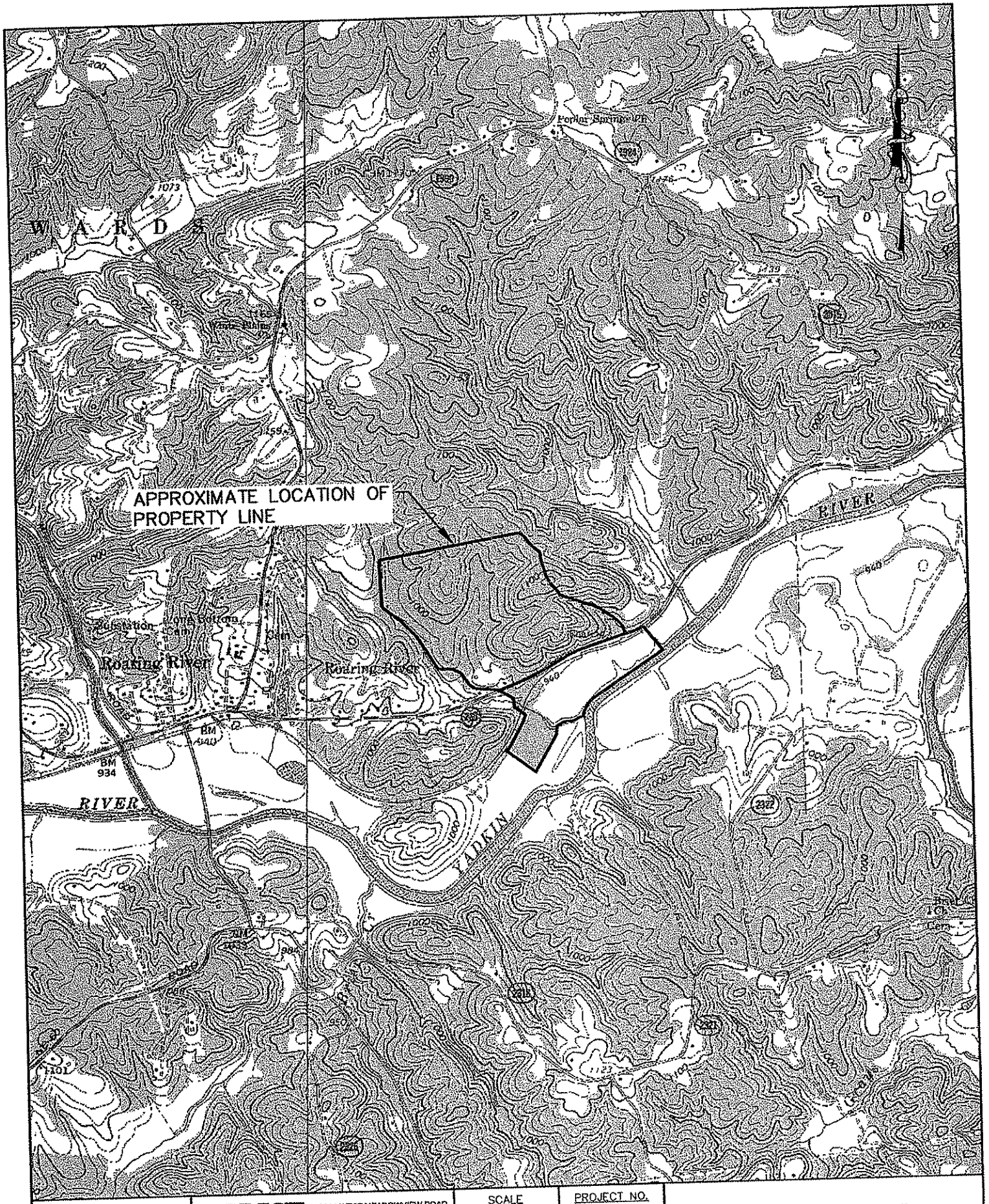


FIGURE NO. 1	JOYCE ENGINEERING, INC. 2211 WEST MEADOWVIEW ROAD GREENSBORO, N.C. 27407 PHONE: (336) 323-0092 © 2008 Joyce Engineering, Inc. All rights reserved.	SCALE 1"=2000'	PROJECT NO. 356.07.34	SITE LOCATION MAP 3/4/08

Drawing

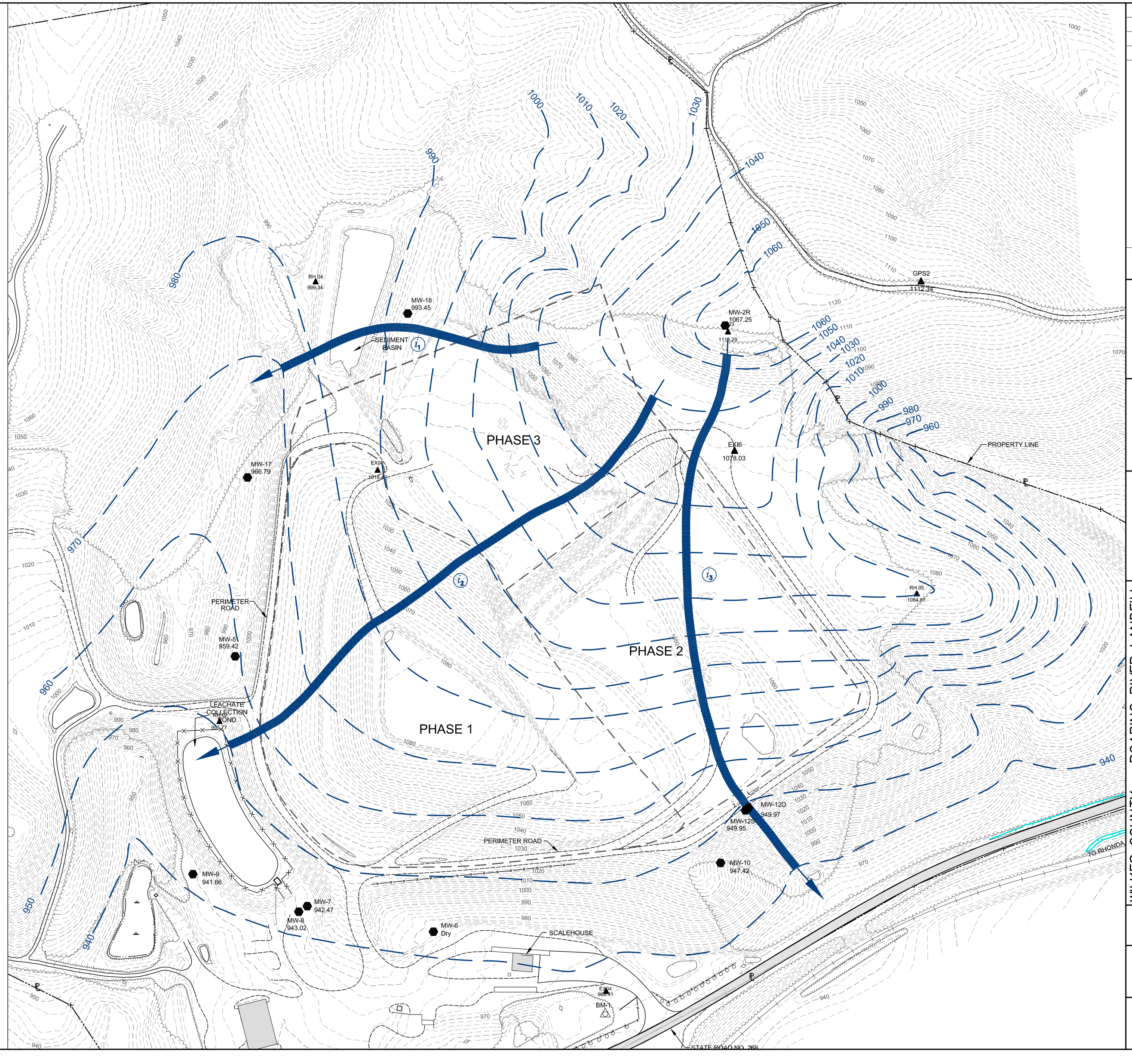
Drawing No. 1 Groundwater Surface Contour Map, April 28, 2008

LEGEND

- 1070 — EXISTING 10' TOPOGRAPHIC CONTOUR
- EXISTING 2' TOPOGRAPHIC CONTOUR
- 970 — GROUNDWATER SURFACE CONTOUR [FEET ABOVE MEAN SEA LEVEL (AMSL)]
- PROPERTY LINE
- EXISTING ROAD
- APPROXIMATE LIMITS OF WASTE
- CENTERLINE OF STREAM
- TREELINE
- MW-9 941.66 — GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL)
- GROUNDWATER FLOW DIRECTION WITH GRADIENT CALCULATION SEGMENT
- i_1 — SEGMENT USED FOR GRADIENT CALCULATIONS

NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET.
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 10 FEET.
3. STATIC WATER LEVELS MEASURED ON 04/28/08.
4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
5. DIGITAL MAPPING PROVIDED BY SPATIAL DATA CONSULTANTS, INC. FLYOVER DATE: MARCH 11, 2003. GROUND CONTROL AND PROPERTY LINE TIE-IN TO NC GRID COORDINATE SYSTEM SET BY SUTTLES SURVEYING, INC.
6. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.



GRAPHIC SCALE
0 50 100 200
(FEET)

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED CM
DRAWN RB
CHECKED VB
APPROVED JK
DATE 8/20/08

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JOYCE ENGINEERING, INC.
2211 WEST MEADOWVIEW ROAD
GREENSBORO, NC 27407
PHONE: (336) 323-0092

WILKES COUNTY – ROARING RIVER LANDFILL
WILKES COUNTY, NORTH CAROLINA

GROUNDWATER SURFACE CONTOUR MAP
APRIL 28, 2008
PERMIT NO. 97–04

PROJECT NO.
356.07.34

SCALE
1"=100'

DRAWING NO.
1

N:\Dwgs\Drawings-Current\WILKES\GW EVENT MAPS\GW Event April 2008.dwg

Appendices

Appendix 1	Statistical Analyses Worksheets
Appendix 2	Laboratory Analytical Reports and Field Data

Appendix 1 Statistical Analyses Worksheets

JEI Project: **Roaring River Landfill - Wilkes County**
Project No: **356.07.34**
Date: **28-Apr-08**

Analyte: **Barium**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Apr-94	MW-2	398		250
2	Oct-94	MW-2	850		500
3	Apr-95	MW-2	730		500
4	Oct-95	MW-2	ND		500
5	Apr-96	MW-2	ND		500
6	Nov-96	MW-2	ND		500
7	Mar-97	MW-2	ND		500
8	Sep-97	MW-2	ND		500
9	Mar-98	MW-2	508		500
10	Sep-98	MW-2	ND		500
11	Apr-02	MW-2R	ND		500
12	Nov-02	MW-2R	ND		500
13	May-03	MW-2R	ND		500
14	Nov-03	MW-2R	ND		500
15	Apr-04	MW-2R	ND		500
16	Oct-04	MW-2R	ND		500
17	May-05	MW-2R	ND		500
18	Oct-05	MW-2R	ND		500
19	29-Jun-06	MW-2R	ND		500
20	7-Dec-06	MW-2R	ND		100
21	28-Jun-07	MW-2R	11.2	B	100
22	19-Dec-07	MW-2R	7.6	B	100
23	28-Apr-08	MW-2R	11.7	J	100
24	Apr-04	MW-17	ND		500
25	Oct-04	MW-17	ND		500
26	May-05	MW-17	ND		500
27	Oct-05	MW-17	ND		500
28	Apr-04	MW-18	ND		500
29	Oct-04	MW-18	ND		500
30	May-05	MW-18	ND		500
31	Oct-05	MW-18	ND		500

Number of Data:	29
Number of Truncated Data:	24
Percentage of Truncated Data:	83%

Non-parametric Prediction Interval: 850

- All concentrations in micrograms per liter.
- Blank qualified data not used in statistical calculations.
- ND = Non-detect

JEI Project: **Roaring River Landfill - Wilkes County**
Project No: **356.07.34**
Sample Date: **28-Apr-08**

Analyte: **Beryllium**

Sample No.	Sample Date	Location	Concentration	Quantitation Limit (ug/L)
1	Apr-94	MW-2	ND	5
2	Oct-94	MW-2	28	2
3	Apr-95	MW-2	6	2
4	Oct-95	MW-2	2	2
5	Apr-96	MW-2	ND	2
6	Nov-96	MW-2	4	2
7	Mar-97	MW-2	ND	2
8	Sep-97	MW-2	13	2
9	Mar-98	MW-2	8	2
10	Sep-98	MW-2	4	2
11	Apr-02	MW-2R	ND	2
12	Nov-02	MW-2R	ND	2
13	May-03	MW-2R	ND	2
14	Nov-03	MW-2R	ND	2
15	Apr-04	MW-2R	ND	2
16	Oct-04	MW-2R	ND	2
17	May-05	MW-2R	ND	2
18	Oct-05	MW-2R	ND	2
19	29-Jun-06	MW-2R	ND	2
20	7-Dec-06	MW-2R	ND	1
21	28-Jun-07	MW-2R	ND	1.0
22	19-Dec-07	MW-2R	ND	1.0
23	28-Apr-08	MW-2R	ND	1.0
24	Apr-04	MW-17	ND	2
25	Oct-04	MW-17	ND	2
26	May-05	MW-17	ND	2
27	Oct-05	MW-17	ND	2
28	Apr-04	MW-18	ND	2
29	Oct-04	MW-18	ND	2
30	May-05	MW-18	ND	2
31	Oct-05	MW-18	ND	2

Number of Data:	31
Number of Truncated Data:	24
Percentage of Truncated Data:	77%

Non-parametric Prediction Interval: 28

- All concentrations in micrograms per liter.
- ND = Non-detect

JEI Project: **Roaring River Landfill - Wilkes County**
Project No: **356.07.34**
Sample Date: **28-Apr-08**

Analyte: **Chromium**

Sample No.	Sample Date	Location	Concentration		Quantitation Limit (ug/L)
1	Apr-94	MW-2	48		20
2	Oct-94	MW-2	406		10
3	Apr-95	MW-2	248		10
4	Oct-95	MW-2	10		10
5	Apr-96	MW-2	160		10
6	Nov-96	MW-2	175		10
7	Mar-97	MW-2	116		10
8	Sep-97	MW-2	127		10
9	Mar-98	MW-2	40		10
10	Sep-98	MW-2	42		10
11	Apr-02	MW-2R	ND		10
12	Nov-02	MW-2R	ND		10
13	May-03	MW-2R	ND		10
14	Nov-03	MW-2R	ND		10
15	Apr-04	MW-2R	ND		10
16	Oct-04	MW-2R	ND		10
17	May-05	MW-2R	ND		10
18	Oct-05	MW-2R	ND		10
19	29-Jun-06	MW-2R	ND		10
20	07-Dec-06	MW-2R	ND		10
21	28-Jun-07	MW-2R	1.1	B	10.0
22	19-Dec-07	MW-2R	ND		10.0
23	28-Apr-08	MW-2R	ND		10.0
24	Apr-04	MW-17	ND		10
25	Oct-04	MW-17	ND		10
26	May-05	MW-17	ND		10
27	Oct-05	MW-17	ND		10
28	Apr-04	MW-18	ND		10
29	Oct-04	MW-18	ND		10
30	May-05	MW-18	ND		10
31	Oct-05	MW-18	ND		10

Number of Data:	29
Number of Truncated Data:	24
Percentage of Truncated Data:	83%

Non-parametric Prediction Interval: 406

- All concentrations in micrograms per liter.
- Blank qualified data not used in statistical calculations.
- ND = Non-detect

JEI Project: **Roaring River Landfill - Wilkes County**
Project No: **356.07.34**
Date: **28-Apr-07**

Analyte: **Cobalt**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Apr-94	MW-2	68		50
2	Oct-94	MW-2	174		10
3	Apr-95	MW-2	148		10
4	Oct-95	MW-2	ND		10
5	Apr-96	MW-2	78		10
6	Nov-96	MW-2	93		10
7	Mar-97	MW-2	60		10
8	Sep-97	MW-2	77		10
9	Mar-98	MW-2	66		10
10	Sep-98	MW-2	57		10
11	Apr-02	MW-2R	ND		10
12	Nov-02	MW-2R	ND		10
13	May-03	MW-2R	13		10
14	Nov-03	MW-2R	ND		10
15	Apr-04	MW-2R	ND		10
16	Oct-04	MW-2R	ND		10
17	May-05	MW-2R	ND		10
18	Oct-05	MW-2R	ND		10
19	29-Jun-06	MW-2R	ND		10
20	7-Dec-06	MW-2R	ND		10
21	28-Jun-07	MW-2R	ND		10.0
22	19-Dec-07	MW-2R	ND		10.0
23	28-Apr-08	MW-2R	1.0	J	10.0
24	Apr-04	MW-17	ND		10
25	Oct-04	MW-17	ND		10
26	May-05	MW-17	ND		10
27	Oct-05	MW-17	ND		10
28	Apr-04	MW-18	ND		10
29	Oct-04	MW-18	ND		10
30	May-05	MW-18	ND		10
31	Oct-05	MW-18	ND		10

Number of Data:	29
Number of Truncated Data:	19
Percentage of Truncated Data:	66%

Non-parametric Prediction Interval: 174

- All concentrations in micrograms per liter.
- ND = Non-detect

JEI Project: **Roaring River Landfill - Wilkes County**
Project No: **356.07.34**
Date: **28-Apr-08**

Analyte: **Zinc**

Sample No.	Sample Date	Location	Concentration (ug/L)		Quantitation Limit (ug/L)
1	Apr-94	MW-2	213		20
2	Oct-94	MW-2	995		50
3	Apr-95	MW-2	821		50
4	Oct-95	MW-2	ND		50
5	Apr-96	MW-2	622		50
6	Nov-96	MW-2	546		50
7	Mar-97	MW-2	313		50
8	Sep-97	MW-2	382		50
9	Mar-98	MW-2	267		50
10	Sep-98	MW-2	256		50
11	Apr-02	MW-2R	ND		50
12	Nov-02	MW-2R	ND		50
13	May-03	MW-2R	ND		50
14	Nov-03	MW-2R	ND		50
15	Apr-04	MW-2R	ND		50
16	Oct-04	MW-2R	ND		50
17	May-05	MW-2R	ND		50
18	Oct-05	MW-2R	138		50
19	29-Jun-06	MW-2R	ND		50
20	7-Dec-06	MW-2R	ND		10
21	28-Jun-07	MW-2R	12.4		10.0
22	19-Dec-07	MW-2R	15.0	B	10.0
23	28-Apr-08	MW-2R	15.5		10.0
24	Apr-04	MW-17	ND		50
25	Oct-04	MW-17	ND		50
26	May-05	MW-17	ND		50
27	Oct-05	MW-17	ND		50
28	Apr-04	MW-18	ND		50
29	Oct-04	MW-18	ND		50
30	May-05	MW-18	50		50
31	Oct-05	MW-18	ND		50

Number of Data:	30
Number of Truncated Data:	17
Percentage of Truncated Data:	57%

Non-parametric Prediction Interval: 995

- All concentrations in micrograms per liter.
- Blank qualified data not used in statistical calculations.
- ND = Non-detect

Appendix 2 Laboratory Analytical Reports and Field Data

SEMI-ANNUAL GROUNDWATER MONITORING FOR SELECTED PARAMETERS AND WELLS AT WILKES COUNTY ROARING RIVER LANDFILL

Prepared for:

County of Wilkes
Wilkesboro, North Carolina

Prepared by:

Research & Analytical Laboratories, Inc.
106 Short Street
Kernersville, North Carolina 27284
336-996-2841

April 2008

Wilkes County - Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-2R	75-09-2	140	Methylene Chloride	1.0	ug/L	U	1	1.0	0.6	04/28/2008	N/A	05/01/2008
97-04	MW-2R	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-2R	67-66-3	44	Chloroform	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	79-01-6	201	Trichloroethene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	124-48-1	66	Dibromochloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	79-00-5	202	1,1,2-Trichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-2R	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-2R	108-90-7	39	Chlorobenzene	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	71-43-2	16	Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	75-25-2	30	Bromoform	3.0	ug/L	U	1	3.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-2R	79-34-5	191	1,1,2,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	108-88-3	196	Toluene	1.0	ug/L	U	1	1.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-2R	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	74-87-3	137	Chloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	74-83-9	136	Bromomethane	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-2R	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	75-00-3	41	Chloroethane	10.0	ug/L	U	1	10.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	67-64-1	3	Acetone	100	ug/L	U	1	100	1.2	04/28/2008	N/A	05/01/2008
97-04	MW-2R	75-15-0	35	Carbon Disulfide	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-2R	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	1	50.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-2R	78-93-3	141	2-Butanone	100	ug/L	U	1	100	0.9	04/28/2008	N/A	05/01/2008
97-04	MW-2R	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	1	100	1.0	04/28/2008	N/A	05/01/2008
97-04	MW-2R	591-78-6	124	2-Hexanone	50.0	ug/L	U	1	50.0	1.4	04/28/2008	N/A	05/01/2008
97-04	MW-2R	100-42-5	186	Styrene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	1330-20-7	346	Total Xylenes	4.0	ug/L	U	1	4.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-2R	107-13-1	8	Acrylonitrile	200	ug/L	U	1	200	12.4	04/28/2008	N/A	05/01/2008
97-04	MW-2R	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-2R	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	74-88-4	142	Methyl Iodide	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-2R	74-97-5	28	Bromochloromethane	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	74-95-3	139	Dibromomethane	10.0	ug/L	U	1	10.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-2R	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-2R	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	1.0	ug/L	U	1	1.0	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-2R	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008

RAL Sample #: 615658

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roaring River Landfill - Inorganics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-2R	7440-36-0	13	Antimony	6.0	ug/L	U	1	6.0	1.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7440-38-2	14	Arsenic	10.0	ug/L	U	1	10.0	5.5	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7440-39-3	15	Barium	**11.7**	ug/L	J	1	100	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7440-41-7	23	Beryllium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	744-43-9	34	Cadmium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7440-47-3	51	Chromium	10.0	ug/L	U	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7440-48-4	53	Cobalt	**1.0**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7440-50-8	54	Copper	**3.6**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7439-92-1	131	Lead	**2.0**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7440-02-0	152	Nickel	**1.0**	ug/L	J	1	50.0	0.6	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7782-49-2	183	Selenium	10.0	ug/L	U	1	10.0	6.3	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7440-22-4	184	Silver	10.0	ug/L	U	1	10.0	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7440-28-0	194	Thallium	5.5	ug/L	U	1	5.5	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7440-62-2	209	Vanadium	**1.9**	ug/L	J	1	25.0	0.4	04/28/2008	04/30/2008	05/02/2008
97-04	MW-2R	7440-66-6	213	Zinc	**15.5**	ug/L		1	10.0	2.7	04/28/2008	04/30/2008	05/02/2008

RAL Sample #: 615658

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roaring River Landfill - Volatile Organics

ACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-5	75-09-2	140	Methylene Chloride	1.0	ug/L	U	1	1.0	0.6	04/28/2008	N/A	05/01/2008
97-04	MW-5	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-5	67-66-3	44	Chloroform	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	79-01-6	201	Trichloroethene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	124-48-1	66	Dibromochloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	79-00-5	202	1,1,2-Trichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-5	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-5	108-90-7	39	Chlorobenzene	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	71-43-2	16	Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	75-25-2	30	Bromoform	3.0	ug/L	U	1	3.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-5	79-34-5	191	1,1,2,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	108-88-3	196	Toluene	1.0	ug/L	U	1	1.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-5	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	74-87-3	137	Chloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	74-83-9	136	Bromomethane	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-5	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	75-00-3	41	Chloroethane	10.0	ug/L	U	1	10.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	67-64-1	3	Acetone	100	ug/L	U	1	100	1.2	04/28/2008	N/A	05/01/2008
97-04	MW-5	75-15-0	35	Carbon Disulfide	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-5	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	1	50.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-5	78-93-3	141	2-Butanone	100	ug/L	U	1	100	0.9	04/28/2008	N/A	05/01/2008
97-04	MW-5	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	1	100	1.0	04/28/2008	N/A	05/01/2008
97-04	MW-5	591-78-6	124	2-Hexanone	50.0	ug/L	U	1	50.0	1.4	04/28/2008	N/A	05/01/2008
97-04	MW-5	100-42-5	186	Styrene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	1330-20-7	346	Total Xylenes	4.0	ug/L	U	1	4.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-5	107-13-1	8	Acrylonitrile	200	ug/L	U	1	200	12.4	04/28/2008	N/A	05/01/2008
97-04	MW-5	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-5	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	74-88-4	142	Methyl Iodide	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-5	74-97-5	28	Bromochloromethane	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	74-95-3	139	Dibromomethane	10.0	ug/L	U	1	10.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-5	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-5	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	1.0	ug/L	U	1	1.0	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-5	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008

RAL Sample #: 615659

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roarin, .ver Landfill - Inorganics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-5	7440-36-0	13	Antimony	6.0	ug/L	U	1	6.0	1.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7440-38-2	14	Arsenic	10.0	ug/L	U	1	10.0	5.5	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7440-39-3	15	Barium	**221**	ug/L		1	100	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7440-41-7	23	Beryllium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	744-43-9	34	Cadmium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7440-47-3	51	Chromium	**14**	ug/L		1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7440-48-4	53	Cobalt	**28.9**	ug/L		1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7440-50-8	54	Copper	**8.6**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7439-92-1	131	Lead	**10.2**	ug/L		1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7440-02-0	152	Nickel	**8.9**	ug/L	J	1	50.0	0.6	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7782-49-2	183	Selenium	10.0	ug/L	U	1	10.0	6.3	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7440-22-4	184	Silver	10.0	ug/L	U	1	10.0	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7440-28-0	194	Thallium	5.5	ug/L	U	1	5.5	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7440-62-2	209	Vanadium	**8.8**	ug/L	J	1	25.0	0.4	04/28/2008	04/30/2008	05/02/2008
97-04	MW-5	7440-66-6	213	Zinc	**52.1**	ug/L		1	10.0	2.7	04/28/2008	04/30/2008	05/02/2008

RAL Sample #: 615659

N/A = Not Applicable

U = Not detected.

J = Estimated results. Present but below reporting limit.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roaring R[illegible] Landfill - Volatile Organics

ACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-8	75-09-2	140	Methylene Chloride	1.0	ug/L	U	1	1.0	0.6	04/28/2008	N/A	05/01/2008
97-04	MW-8	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8	67-66-3	44	Chloroform	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	79-01-6	201	Trichloroethene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	124-48-1	66	Dibromochloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	79-00-5	202	1,1,2-Trichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8	108-90-7	39	Chlorobenzene	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	71-43-2	16	Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	75-25-2	30	Bromoform	3.0	ug/L	U	1	3.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-8	79-34-5	191	1,1,2,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	108-88-3	196	Toluene	1.0	ug/L	U	1	1.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-8	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	74-87-3	137	Chloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	74-83-9	136	Bromomethane	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	75-00-3	41	Chloroethane	10.0	ug/L	U	1	10.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	67-64-1	3	Acetone	100	ug/L	U	1	100	1.2	04/28/2008	N/A	05/01/2008
97-04	MW-8	75-15-0	35	Carbon Disulfide	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-8	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	1	50.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8	78-93-3	141	2-Butanone	100	ug/L	U	1	100	0.9	04/28/2008	N/A	05/01/2008
97-04	MW-8	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	1	100	1.0	04/28/2008	N/A	05/01/2008
97-04	MW-8	591-78-6	124	2-Hexanone	50.0	ug/L	U	1	50.0	1.4	04/28/2008	N/A	05/01/2008
97-04	MW-8	100-42-5	186	Styrene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	1330-20-7	346	Total Xylenes	4.0	ug/L	U	1	4.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-8	107-13-1	8	Acrylonitrile	200	ug/L	U	1	200	12.4	04/28/2008	N/A	05/01/2008
97-04	MW-8	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-8	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	74-88-4	142	Methyl Iodide	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8	74-97-5	28	Bromochloromethane	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	74-95-3	139	Dibromomethane	10.0	ug/L	U	1	10.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-8	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	1.0	ug/L	U	1	1.0	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-8	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008

RAL Sample #: 615660

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roaring River Landfill - Inorganics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-8	7440-36-0	13	Antimony	6.0	ug/L	U	1	6.0	1.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7440-38-2	14	Arsenic	10.0	ug/L	U	1	10.0	5.5	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7440-39-3	15	Barium	**6.6**	ug/L	J	1	100	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7440-41-7	23	Beryllium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	744-43-9	34	Cadmium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7440-47-3	51	Chromium	10.0	ug/L	U	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7440-48-4	53	Cobalt	**0.9**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7440-50-8	54	Copper	10.0	ug/L	U	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7439-92-1	131	Lead	**1.7**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7440-02-0	152	Nickel	50.0	ug/L	U	1	50.0	0.6	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7782-49-2	183	Selenium	10.0	ug/L	U	1	10.0	6.3	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7440-22-4	184	Silver	10.0	ug/L	U	1	10.0	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7440-28-0	194	Thallium	5.5	ug/L	U	1	5.5	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7440-62-2	209	Vanadium	25.0	ug/L	U	1	25.0	0.4	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8	7440-66-6	213	Zinc	**40.8**	ug/L		1	10.0	2.7	04/28/2008	04/30/2008	05/02/2008

RAL Sample #: 615660

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roaring R Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-8 Dup.	75-09-2	140	Methylene Chloride	1.0	ug/L	U	1	1.0	0.6	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	67-66-3	44	Chloroform	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	79-01-6	201	Trichloroethene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	124-48-1	66	Dibromochloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	79-00-5	202	1,1,2-Trichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	108-90-7	39	Chlorobenzene	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	71-43-2	16	Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	75-25-2	30	Bromoform	3.0	ug/L	U	1	3.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	79-34-5	191	1,1,2,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	108-88-3	196	Toluene	1.0	ug/L	U	1	1.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	74-87-3	137	Chloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	74-83-9	136	Bromomethane	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	75-00-3	41	Chloroethane	10.0	ug/L	U	1	10.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	67-64-1	3	Acetone	100	ug/L	U	1	100	1.2	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	75-15-0	35	Carbon Disulfide	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	1	50.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	78-93-3	141	2-Butanone	100	ug/L	U	1	100	0.9	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	1	100	1.0	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	591-78-6	124	2-Hexanone	50.0	ug/L	U	1	50.0	1.4	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	100-42-5	186	Styrene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	1330-20-7	346	Total Xylenes	4.0	ug/L	U	1	4.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	107-13-1	8	Acrylonitrile	200	ug/L	U	1	200	12.4	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	74-88-4	142	Methyl Iodide	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	74-97-5	28	Bromochloromethane	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	74-95-3	139	Dibromomethane	10.0	ug/L	U	1	10.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	1.0	ug/L	U	1	1.0	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-8 Dup.	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008

RAL Sample #: 615665

N/A = Not Applicable

U = Not detected.
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Wilkes County - Roaring River Landfill - Inorganics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-8 Dup.	7440-36-0	13	Antimony	6.0	ug/L	U	1	6.0	1.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7440-38-2	14	Arsenic	10.0	ug/L	U	1	10.0	5.5	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7440-39-3	15	Barium	**13.5**	ug/L	J	1	100	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7440-41-7	23	Beryllium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	744-43-9	34	Cadmium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7440-47-3	51	Chromium	10.0	ug/L	U	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7440-48-4	53	Cobalt	10.0	ug/L	U	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7440-50-8	54	Copper	**4.0**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7439-92-1	131	Lead	10.0	ug/L	U	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7440-02-0	152	Nickel	**0.7**	ug/L	J	1	50.0	0.6	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7782-49-2	183	Selenium	10.0	ug/L	U	1	10.0	6.3	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7440-22-4	184	Silver	10.0	ug/L	U	1	10.0	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7440-28-0	194	Thallium	5.5	ug/L	U	1	5.5	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7440-62-2	209	Vanadium	25.0	ug/L	U	1	25.0	0.4	04/28/2008	04/30/2008	05/02/2008
97-04	MW-8 Dup.	7440-66-6	213	Zinc	**43.9**	ug/L		1	10.0	2.7	04/28/2008	04/30/2008	05/02/2008

RAL Sample #: 615665

N/A = Not Applicable

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B = Lab blank contamination.

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Wilkes County - Roaring R..er Landfill - Volatile Organics

ACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-9	75-09-2	140	Methylene Chloride	1.0	ug/L	U	1	1.0	0.6	04/28/2008	N/A	05/01/2008
97-04	MW-9	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-9	67-66-3	44	Chloroform	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	79-01-6	201	Trichloroethene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	124-48-1	66	Dibromochloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	79-00-5	202	1,1,2-Trichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-9	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-9	108-90-7	39	Chlorobenzene	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	71-43-2	16	Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	75-25-2	30	Bromoform	3.0	ug/L	U	1	3.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-9	79-34-5	191	1,1,2,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	108-88-3	196	Toluene	1.0	ug/L	U	1	1.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-9	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	74-87-3	137	Chloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	74-83-9	136	Bromomethane	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-9	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	75-00-3	41	Chloroethane	10.0	ug/L	U	1	10.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	67-64-1	3	Acetone	100	ug/L	U	1	100	1.2	04/28/2008	N/A	05/01/2008
97-04	MW-9	75-15-0	35	Carbon Disulfide	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-9	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	1	50.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-9	78-93-3	141	2-Butanone	100	ug/L	U	1	100	0.9	04/28/2008	N/A	05/01/2008
97-04	MW-9	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	1	100	1.0	04/28/2008	N/A	05/01/2008
97-04	MW-9	591-78-6	124	2-Hexanone	50.0	ug/L	U	1	50.0	1.4	04/28/2008	N/A	05/01/2008
97-04	MW-9	100-42-5	186	Styrene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	1330-20-7	346	Total Xylenes	4.0	ug/L	U	1	4.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-9	107-13-1	8	Acrylonitrile	200	ug/L	U	1	200	12.4	04/28/2008	N/A	05/01/2008
97-04	MW-9	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-9	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	74-88-4	142	Methyl Iodide	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-9	74-97-5	28	Bromochloromethane	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	74-95-3	139	Dibromomethane	10.0	ug/L	U	1	10.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-9	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-9	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	1.0	ug/L	U	1	1.0	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-9	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008

RAL Sample #: 615661

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roaring River Landfill - Inorganics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-9	7440-36-0	13	Antimony	6.0	ug/L	U	1	6.0	1.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7440-38-2	14	Arsenic	10.0	ug/L	U	1	10.0	5.5	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7440-39-3	15	Barium	**47.5**	ug/L	J	1	100	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7440-41-7	23	Beryllium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	744-43-9	34	Cadmium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7440-47-3	51	Chromium	**1.0**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7440-48-4	53	Cobalt	**1.9**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7440-50-8	54	Copper	10.0	ug/L	U	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7439-92-1	131	Lead	**3.4**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7440-02-0	152	Nickel	**2.1**	ug/L	J	1	50.0	0.6	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7782-49-2	183	Selenium	10.0	ug/L	U	1	10.0	6.3	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7440-22-4	184	Silver	10.0	ug/L	U	1	10.0	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7440-28-0	194	Thallium	5.5	ug/L	U	1	5.5	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7440-62-2	209	Vanadium	**0.5**	ug/L	J	1	25.0	0.4	04/28/2008	04/30/2008	05/02/2008
97-04	MW-9	7440-66-6	213	Zinc	10.0	ug/L	U	1	10.0	2.7	04/28/2008	04/30/2008	05/02/2008

RAL Sample #: 615661

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
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Wilkes County - Roaring . ; Landfill - Volatile Organics

ACILITY ERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-12D	75-09-2	140	Methylene Chloride	1.0	ug/L	U	1	1.0	0.6	04/28/2008	N/A	05/01/2008
97-04	MW-12D	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-12D	67-66-3	44	Chloroform	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	79-01-6	201	Trichloroethene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	124-48-1	66	Dibromochloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	79-00-5	202	1,1,2-Trichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-12D	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-12D	108-90-7	39	Chlorobenzene	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	71-43-2	16	Benzene	**0.64**	ug/L	J	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	75-25-2	30	Bromoform	3.0	ug/L	U	1	3.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-12D	79-34-5	191	1,1,2,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	108-88-3	196	Toluene	1.0	ug/L	U	1	1.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-12D	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	74-87-3	137	Chloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	74-83-9	136	Bromomethane	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-12D	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	75-00-3	41	Chloroethane	10.0	ug/L	U	1	10.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	67-64-1	3	Acetone	100	ug/L	U	1	100	1.2	04/28/2008	N/A	05/01/2008
97-04	MW-12D	75-15-0	35	Carbon Disulfide	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-12D	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	1	50.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-12D	78-93-3	141	2-Butanone	100	ug/L	U	1	100	0.9	04/28/2008	N/A	05/01/2008
97-04	MW-12D	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	1	100	1.0	04/28/2008	N/A	05/01/2008
97-04	MW-12D	591-78-6	124	2-Hexanone	50.0	ug/L	U	1	50.0	1.4	04/28/2008	N/A	05/01/2008
97-04	MW-12D	100-42-5	186	Styrene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	1330-20-7	346	Total Xylenes	4.0	ug/L	U	1	4.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-12D	107-13-1	8	Acrylonitrile	200	ug/L	U	1	200	12.4	04/28/2008	N/A	05/01/2008
97-04	MW-12D	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-12D	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	74-88-4	142	Methyl Iodide	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-12D	74-97-5	28	Bromochloromethane	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	74-95-3	139	Dibromomethane	10.0	ug/L	U	1	10.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-12D	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-12D	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	1.0	ug/L	U	1	1.0	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-12D	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008

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Wilkes County - Roaring River Landfill - Inorganics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-12D	7440-36-0	13	Antimony	**1.3**	ug/L	J	1	6.0	1.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7440-38-2	14	Arsenic	10.0	ug/L	U	1	10.0	5.5	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7440-39-3	15	Barium	**7.6**	ug/L	J	1	100	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7440-41-7	23	Beryllium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	744-43-9	34	Cadmium	**0.5**	ug/L	J	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7440-47-3	51	Chromium	**1.4**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7440-48-4	53	Cobalt	10.0	ug/L	U	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7440-50-8	54	Copper	**4.4**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7439-92-1	131	Lead	**3.1**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7440-02-0	152	Nickel	**3.2**	ug/L	J	1	50.0	0.6	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7782-49-2	183	Selenium	10.0	ug/L	U	1	10.0	6.3	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7440-22-4	184	Silver	10.0	ug/L	U	1	10.0	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7440-28-0	194	Thallium	**4.0**	ug/L	J	1	5.5	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7440-62-2	209	Vanadium	**12.5**	ug/L	J	1	25.0	0.4	04/28/2008	04/30/2008	05/02/2008
97-04	MW-12D	7440-66-6	213	Zinc	**7.2**	ug/L	J	1	10.0	2.7	04/28/2008	04/30/2008	05/02/2008

RAL Sample #: 615662

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Wilkes County - Roaring River Landfill - Volatile Organics

FACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-17	75-09-2	140	Methylene Chloride	1.0	ug/L	U	1	1.0	0.6	04/28/2008	N/A	05/01/2008
97-04	MW-17	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-17	67-66-3	44	Chloroform	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	79-01-6	201	Trichloroethene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	124-48-1	66	Dibromochloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	79-00-5	202	1,1,2-Trichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-17	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-17	108-90-7	39	Chlorobenzene	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	71-43-2	16	Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	75-25-2	30	Bromoform	3.0	ug/L	U	1	3.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-17	79-34-5	191	1,1,2,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	108-88-3	196	Toluene	1.0	ug/L	U	1	1.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-17	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	74-87-3	137	Chloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	74-83-9	136	Bromomethane	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-17	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	75-00-3	41	Chloroethane	10.0	ug/L	U	1	10.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	67-64-1	3	Acetone	100	ug/L	U	1	100	1.2	04/28/2008	N/A	05/01/2008
97-04	MW-17	75-15-0	35	Carbon Disulfide	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-17	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	1	50.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-17	78-93-3	141	2-Butanone	100	ug/L	U	1	100	0.9	04/28/2008	N/A	05/01/2008
97-04	MW-17	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	1	100	1.0	04/28/2008	N/A	05/01/2008
97-04	MW-17	591-78-6	124	2-Hexanone	50.0	ug/L	U	1	50.0	1.4	04/28/2008	N/A	05/01/2008
97-04	MW-17	100-42-5	186	Styrene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	1330-20-7	346	Total Xylenes	4.0	ug/L	U	1	4.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-17	107-13-1	8	Acrylonitrile	200	ug/L	U	1	200	12.4	04/28/2008	N/A	05/01/2008
97-04	MW-17	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-17	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	74-88-4	142	Methyl Iodide	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-17	74-97-5	28	Bromochloromethane	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	74-95-3	139	Dibromomethane	10.0	ug/L	U	1	10.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-17	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-17	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	1.0	ug/L	U	1	1.0	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-17	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008

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Wilkes County - Roaring River Landfill - Inorganics

ACILITY PERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-17	7440-36-0	13	Antimony	6.0	ug/L	U	1	6.0	1.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7440-38-2	14	Arsenic	10.0	ug/L	U	1	10.0	5.5	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7440-39-3	15	Barium	**90.1**	ug/L	J	1	100	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7440-41-7	23	Beryllium	**0.3**	ug/L	J	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	744-43-9	34	Cadmium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7440-47-3	51	Chromium	**2.6**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7440-48-4	53	Cobalt	**1.6**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7440-50-8	54	Copper	**3.2**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7439-92-1	131	Lead	**4.8**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7440-02-0	152	Nickel	**1.4**	ug/L	J	1	50.0	0.6	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7782-49-2	183	Selenium	10.0	ug/L	U	1	10.0	6.3	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7440-22-4	184	Silver	10.0	ug/L	U	1	10.0	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7440-28-0	194	Thallium	5.5	ug/L	U	1	5.5	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7440-62-2	209	Vanadium	**5.2**	ug/L	J	1	25.0	0.4	04/28/2008	04/30/2008	05/02/2008
97-04	MW-17	7440-66-6	213	Zinc	**11.4**	ug/L		1	10.0	2.7	04/28/2008	04/30/2008	05/02/2008

RAL Sample #: 615663

N/A = Not Applicable

U = Not detected.

J = Estimated results. Present but below reporting limit.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roaring r Landfill - Volatile Organics

ACILITY ERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-18	75-09-2	140	Methylene Chloride	1.0	ug/L	U	1	1.0	0.6	04/28/2008	N/A	05/01/2008
97-04	MW-18	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-18	67-66-3	44	Chloroform	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	79-01-6	201	Trichloroethene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	124-48-1	66	Dibromochloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	79-00-5	202	1,1,2-Trichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-18	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-18	108-90-7	39	Chlorobenzene	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	71-43-2	16	Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	75-25-2	30	Bromoform	3.0	ug/L	U	1	3.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-18	79-34-5	191	1,1,2,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	108-88-3	196	Toluene	1.0	ug/L	U	1	1.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-18	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	74-87-3	137	Chloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	74-83-9	136	Bromomethane	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-18	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	75-00-3	41	Chloroethane	10.0	ug/L	U	1	10.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	67-64-1	3	Acetone	100	ug/L	U	1	100	1.2	04/28/2008	N/A	05/01/2008
97-04	MW-18	75-15-0	35	Carbon Disulfide	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-18	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	1	50.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-18	78-93-3	141	2-Butanone	100	ug/L	U	1	100	0.9	04/28/2008	N/A	05/01/2008
97-04	MW-18	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	1	100	1.0	04/28/2008	N/A	05/01/2008
97-04	MW-18	591-78-6	124	2-Hexanone	50.0	ug/L	U	1	50.0	1.4	04/28/2008	N/A	05/01/2008
97-04	MW-18	100-42-5	186	Styrene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	1330-20-7	346	Total Xylenes	4.0	ug/L	U	1	4.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-18	107-13-1	8	Acrylonitrile	200	ug/L	U	1	200	12.4	04/28/2008	N/A	05/01/2008
97-04	MW-18	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-18	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	74-88-4	142	Methyl Iodide	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	MW-18	74-97-5	28	Bromochloromethane	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	74-95-3	139	Dibromomethane	10.0	ug/L	U	1	10.0	0.3	04/28/2008	N/A	05/01/2008
97-04	MW-18	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	MW-18	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	1.0	ug/L	U	1	1.0	0.5	04/28/2008	N/A	05/01/2008
97-04	MW-18	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008

RAL Sample #: 615664

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roari.. .iver Landfill - Inorganics

ACILITY ERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	MW-18	7440-36-0	13	Antimony	6.0	ug/L	U	1	6.0	1.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7440-38-2	14	Arsenic	10.0	ug/L	U	1	10.0	5.5	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7440-39-3	15	Barium	**204**	ug/L		1	100	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7440-41-7	23	Beryllium	**1.5**	ug/L		1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	744-43-9	34	Cadmium	**0.2**	ug/L	J	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7440-47-3	51	Chromium	**7.0**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7440-48-4	53	Cobalt	**8.3**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7440-50-8	54	Copper	**16.8**	ug/L		1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7439-92-1	131	Lead	**11.5**	ug/L		1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7440-02-0	152	Nickel	**8.0**	ug/L	J	1	50.0	0.6	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7782-49-2	183	Selenium	10.0	ug/L	U	1	10.0	6.3	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7440-22-4	184	Silver	10.0	ug/L	U	1	10.0	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7440-28-0	194	Thallium	5.5	ug/L	U	1	5.5	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7440-62-2	209	Vanadium	**14.2**	ug/L	J	1	25.0	0.4	04/28/2008	04/30/2008	05/02/2008
97-04	MW-18	7440-66-6	213	Zinc	**155**	ug/L		1	10.0	2.7	04/28/2008	04/30/2008	05/02/2008

RAL Sample #: 615664

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roaring r Landfill - Volatile Organics

CILITY ERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	Field Blank	75-09-2	140	Methylene Chloride	1.0	ug/L	U	1	1.0	0.6	04/28/2008	N/A	05/01/2008
97-04	Field Blank	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Field Blank	67-66-3	44	Chloroform	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	79-01-6	201	Trichloroethene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	124-48-1	66	Dibromochloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	79-00-5	202	1,1,2-Trichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Field Blank	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Field Blank	108-90-7	39	Chlorobenzene	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	71-43-2	16	Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	75-25-2	30	Bromoform	3.0	ug/L	U	1	3.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Field Blank	79-34-5	191	1,1,2,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	108-88-3	196	Toluene	1.0	ug/L	U	1	1.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Field Blank	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	74-87-3	137	Chloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	74-83-9	136	Bromomethane	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Field Blank	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	75-00-3	41	Chloroethane	10.0	ug/L	U	1	10.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	67-64-1	3	Acetone	100	ug/L	U	1	100	1.2	04/28/2008	N/A	05/01/2008
97-04	Field Blank	75-15-0	35	Carbon Disulfide	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	Field Blank	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	1	50.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Field Blank	78-93-3	141	2-Butanone	100	ug/L	U	1	100	0.9	04/28/2008	N/A	05/01/2008
97-04	Field Blank	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	1	100	1.0	04/28/2008	N/A	05/01/2008
97-04	Field Blank	591-78-6	124	2-Hexanone	50.0	ug/L	U	1	50.0	1.4	04/28/2008	N/A	05/01/2008
97-04	Field Blank	100-42-5	186	Styrene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	1330-20-7	346	Total Xylenes	4.0	ug/L	U	1	4.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Field Blank	107-13-1	8	Acrylonitrile	200	ug/L	U	1	200	12.4	04/28/2008	N/A	05/01/2008
97-04	Field Blank	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	Field Blank	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	74-88-4	142	Methyl Iodide	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Field Blank	74-97-5	28	Bromochloromethane	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	74-95-3	139	Dibromomethane	10.0	ug/L	U	1	10.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Field Blank	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Field Blank	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	1.0	ug/L	U	1	1.0	0.5	04/28/2008	N/A	05/01/2008
97-04	Field Blank	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008

RAL Sample #: 615666

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
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Wilkes County - Roaring River Landfill - Inorganics

CILITY ERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	Field Blank	7440-36-0	13	Antimony	6.0	ug/L	U	1	6.0	1.2	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7440-38-2	14	Arsenic	10.0	ug/L	U	1	10.0	5.5	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7440-39-3	15	Barium	**3.1**	ug/L	J	1	100	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7440-41-7	23	Beryllium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	744-43-9	34	Cadmium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7440-47-3	51	Chromium	**1.4**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7440-48-4	53	Cobalt	10.0	ug/L	U	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7440-50-8	54	Copper	**5.8**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7439-92-1	131	Lead	**3.8**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7440-02-0	152	Nickel	**1.9**	ug/L	J	1	50.0	0.6	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7782-49-2	183	Selenium	10.0	ug/L	U	1	10.0	6.3	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7440-22-4	184	Silver	10.0	ug/L	U	1	10.0	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7440-28-0	194	Thallium	5.5	ug/L	U	1	5.5	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7440-62-2	209	Vanadium	25.0	ug/L	U	1	25.0	0.4	04/28/2008	04/30/2008	05/02/2008
97-04	Field Blank	7440-66-6	213	Zinc	10.0	ug/L	U	1	10.0	2.7	04/28/2008	04/30/2008	05/02/2008

RAL Sample #: 615666

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Roaring r Landfill - Volatile Organics

CILITY ERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	Travel Blank	75-09-2	140	Methylene Chloride	1.0	ug/L	U	1	1.0	0.6	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	67-66-3	44	Chloroform	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	79-01-6	201	Trichloroethene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	124-48-1	66	Dibromochloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	79-00-5	202	1,1,2-Trichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	108-90-7	39	Chlorobenzene	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	71-43-2	16	Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	10061-02-6	87	Trans-1,3-Dichloropropene	3.0	ug/L	U	1	3.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	75-25-2	30	Bromoform	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	79-34-5	191	1,1,2,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	108-88-3	196	Toluene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	74-87-3	137	Chloromethane	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	74-83-9	136	Bromomethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	75-01-4	211	Vinyl Chloride	10.0	ug/L	U	1	10.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	75-00-3	41	Chloroethane	100	ug/L	U	1	100	1.2	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	67-64-1	3	Acetone	**0.54**	ug/L	J	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	75-15-0	35	Carbon Disulfide	50.0	ug/L	U	1	50.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	108-05-4	210	Vinyl Acetate	100	ug/L	U	1	100	0.9	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	78-93-3	141	2-Butanone	100	ug/L	U	1	100	1.0	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	108-10-1	147	4-Methyl-2-Pentanone	50.0	ug/L	U	1	50.0	1.4	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	591-78-6	124	2-Hexanone	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	100-42-5	186	Styrene	4.0	ug/L	U	1	4.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	1330-20-7	346	Total Xylenes	200	ug/L	U	1	200	12.4	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	107-13-1	8	Acrylonitrile	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	95-50-1	69	1,2-Dichlorobenzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	106-46-7	71	1,4-Dichlorobenzene	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	110-57-6	73	Trans-1,4-Dichloro-2-butene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	156-59-2	78	Cis-1,2-Dichloroethene	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	74-88-4	142	Methyl Iodide	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	74-97-5	28	Bromochloromethane	10.0	ug/L	U	1	10.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	74-95-3	139	Dibromomethane	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	630-20-6	190	1,1,1,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	1	1.0	0.5	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Travel Blank	106-93-4	68	1,2-Dibromoethane (EDB)									

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

RAL Sample #: 615667

N/A = Not Applicable

Wilkes County - Roaring River Landfill - Inorganics

CILITY ERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	Travel Blank	7440-36-0	13	Antimony	6.0	ug/L	U	1	6.0	1.2	04/28/2008	04/30/2008	05/08/2008
97-04	Travel Blank	7440-38-2	14	Arsenic	10.0	ug/L	U	1	10.0	5.5	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7440-39-3	15	Barium	**33.2**	ug/L	J	1	100	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7440-41-7	23	Beryllium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	744-43-9	34	Cadmium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7440-47-3	51	Chromium	**2.0**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7440-48-4	53	Cobalt	10.0	ug/L	U	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7440-50-8	54	Copper	**5.2**	ug/L	J	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7439-92-1	131	Lead	10.0	ug/L	U	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7440-02-0	152	Nickel	50.0	ug/L	U	1	50.0	0.6	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7782-49-2	183	Selenium	10.0	ug/L	U	1	10.0	6.3	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7440-22-4	184	Silver	10.0	ug/L	U	1	10.0	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7440-28-0	194	Thallium	5.5	ug/L	U	1	5.5	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7440-62-2	209	Vanadium	25.0	ug/L	U	1	25.0	0.4	04/28/2008	04/30/2008	05/02/2008
97-04	Travel Blank	7440-66-6	213	Zinc	10.0	ug/L	U	1	10.0	2.7	04/28/2008	04/30/2008	05/02/2008

RAL Sample #: 615667

N/A = Not Applicable

U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

Wilkes County - Le ate - Volatile Organics

CILITY ERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	Leachate	75-09-2	140	Methylene Chloride	1.0	ug/L	U	1	1.0	0.6	04/28/2008	N/A	05/01/2008
97-04	Leachate	75-69-4	203	Trichlorofluoromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	75-35-4	77	1,1-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	75-34-3	75	1,1-Dichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Leachate	67-66-3	44	Chloroform	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	56-23-5	36	Carbon Tetrachloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	78-87-5	82	1,2-Dichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	79-01-6	201	Trichloroethene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	124-48-1	66	Dibromochloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	79-00-5	202	1,1,2-Trichloroethane	5.0	ug/L	U	1	5.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Leachate	127-18-4	192	Tetrachloroethene	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Leachate	108-90-7	39	Chlorobenzene	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	156-60-5	79	Trans-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	107-06-2	76	1,2-Dichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	71-55-6	200	1,1,1-Trichloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	75-27-4	29	Bromodichloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	10061-01-5	86	Cis-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	71-43-2	16	Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	10061-02-6	87	Trans-1,3-Dichloropropene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	75-25-2	30	Bromoform	3.0	ug/L	U	1	3.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Leachate	79-34-5	191	1,1,2,2-Tetrachloroethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	108-88-3	196	Toluene	**0.41**	ug/L	J	1	1.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Leachate	100-41-4	110	Ethyl Benzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	74-87-3	137	Chloromethane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	74-83-9	136	Bromomethane	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Leachate	75-01-4	211	Vinyl Chloride	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	75-00-3	41	Chloroethane	10.0	ug/L	U	1	10.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	67-64-1	3	Acetone	**21.5**	ug/L	J	1	100	1.2	04/28/2008	N/A	05/01/2008
97-04	Leachate	75-15-0	35	Carbon Disulfide	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	Leachate	108-05-4	210	Vinyl Acetate	50.0	ug/L	U	1	50.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Leachate	78-93-3	141	2-Butanone	100	ug/L	U	1	100	0.9	04/28/2008	N/A	05/01/2008
97-04	Leachate	108-10-1	147	4-Methyl-2-Pentanone	100	ug/L	U	1	100	1.0	04/28/2008	N/A	05/01/2008
97-04	Leachate	591-78-6	124	2-Hexanone	50.0	ug/L	U	1	50.0	1.4	04/28/2008	N/A	05/01/2008
97-04	Leachate	100-42-5	186	Styrene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	1330-20-7	346	Total Xylenes	4.0	ug/L	U	1	4.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Leachate	107-13-1	8	Acrylonitrile	200	ug/L	U	1	200	12.4	04/28/2008	N/A	05/01/2008
97-04	Leachate	95-50-1	69	1,2-Dichlorobenzene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	106-46-7	71	1,4-Dichlorobenzene	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	110-57-6	73	Trans-1,4-Dichloro-2-butene	100	ug/L	U	1	100	0.5	04/28/2008	N/A	05/01/2008
97-04	Leachate	156-59-2	78	Cis-1,2-Dichloroethene	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	74-88-4	142	Methyl Iodide	10.0	ug/L	U	1	10.0	0.2	04/28/2008	N/A	05/01/2008
97-04	Leachate	74-97-5	28	Bromochloromethane	3.0	ug/L	U	1	3.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	74-95-3	139	Dibromomethane	10.0	ug/L	U	1	10.0	0.3	04/28/2008	N/A	05/01/2008
97-04	Leachate	630-20-6	190	1,1,1,2-Tetrachloroethane	5.0	ug/L	U	1	5.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	96-18-4	206	1,2,3-Trichloropropane	1.0	ug/L	U	1	1.0	0.1	04/28/2008	N/A	05/01/2008
97-04	Leachate	92-12-8	67	1,2-Dibromo-3-Chloropropane(DBCP)	1.0	ug/L	U	1	1.0	0.5	04/28/2008	N/A	05/01/2008
97-04	Leachate	106-93-4	68	1,2-Dibromoethane (EDB)	1.0	ug/L	U	1	1.0	0.2	04/28/2008	N/A	05/01/2008

NE = Not Established

U = Not detected.

J = Estimated results. Present but below reporting limit.

B = Lab blank contamination.

µg/L = micrograms per Liter = parts per billion (ppb)

RAL Sample #: 615668

N/A = Not Applicable

Wilkes County - Leachate - Inorganics

CILITY ERMIT	WELL ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	QUALIFIER	DILUTION FACTOR	SWSL	MDL	COLLECT DATE	EXTRACTION DATE	ANALYSIS DATE
97-04	Leachate	7440-36-0	13	Antimony	**2.3**	ug/L	J	1	6.0	1.2	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7440-38-2	14	Arsenic	10.0	ug/L	U	1	10.0	5.5	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7440-39-3	15	Barium	**113**	ug/L		1	100	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7440-41-7	23	Beryllium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	744-43-9	34	Cadmium	1.0	ug/L	U	1	1.0	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7440-47-3	51	Chromium	**6.6**	ug/L	J	1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7440-48-4	53	Cobalt	**16.6**	ug/L		1	10.0	0.7	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7440-50-8	54	Copper	**18.2**	ug/L		1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7439-92-1	131	Lead	10.0	ug/L	U	1	10.0	2.0	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7440-02-0	152	Nickel	**45.2**	ug/L	J	1	50.0	0.6	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7782-49-2	183	Selenium	**13.4**	ug/L		1	10.0	6.3	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7440-22-4	184	Silver	10.0	ug/L	U	1	10.0	1.1	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7440-28-0	194	Thallium	5.5	ug/L	U	1	5.5	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7440-62-2	209	Vanadium	**1.8**	ug/L	J	1	25.0	0.4	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7440-66-6	213	Zinc	**134**	ug/L		1	10.0	2.7	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7439-96-5	342	Manganese	**362**	ug/L		1	NE	0.2	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7439-98-7	397	Molybdenum	10.0	ug/L	U	1	NE	1.3	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	7439-97-6	132	Mercury	0.2	ug/L	U	1	0.2	0.01	04/28/2008	04/30/2008	05/02/2008
97-04	Leachate	SW316	316	BOD	**50.0**	mg/L		1	NE	2.0	04/28/2008	04/30/2008	04/30/2008
97-04	Leachate	NE	NE	Oil & Grease	5.0	mg/L	U	1	NE	5.0	04/28/2008	04/30/2008	04/30/2008
97-04	Leachate	57-12-5	58	Cyanide	10.0	ug/L	U	1	10.0	5.0	04/28/2008	04/30/2008	04/30/2008
97-04	Leachate	SW343	343	TSS	**64.0**	mg/L		1	NE	5.0	04/28/2008	04/30/2008	05/02/2008

RAL Sample #: 615668

N/A = Not Applicable

NE = Not Established
U = Not detected.
J = Estimated results. Present but below reporting limit.
B = Lab blank contamination.
µg/L = micrograms per Liter = parts per billion (ppb)

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RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Quality Control Summary Results for Project Identified as Roaring River Landfill (A Wilkes County Project, 28 April 2008)

Volatile Organics EPA Method 8260 Parameter	Method Blank (mg/L)	Matrix Spike % Recovery	Spike Diplicate % Recovery	Quality Control Limits	Analyst
Methylene Chloride	ND	N/A	N/A	N/A	SA
Trichlorofluoromethane	ND	N/A	N/A	N/A	SA
1,1-Dichloroethene	ND	**82**	**84**	61-145	SA
1,1-Dichloroethane	ND	N/A	N/A	N/A	SA
Chloroform	ND	N/A	N/A	N/A	SA
Carbon Tetrachloride	ND	N/A	N/A	N/A	SA
1,2-Dichloropropane	ND	N/A	N/A	N/A	SA
Trichloroethene	ND	**84**	**82**	71-120	SA
Dibromochloromethane	ND	N/A	N/A	N/A	SA
1,1,2-Trichloroethane	ND	N/A	N/A	N/A	SA
Tetrachloroethene	ND	N/A	N/A	N/A	SA
Chlorobenzene	ND	**101**	**98**	75-130	SA
Trans-1,2-Dichloroethene	ND	N/A	N/A	N/A	SA
1,2-Dichloroethane	ND	N/A	N/A	N/A	SA
1,1,1-Trichloroethane	ND	N/A	N/A	N/A	SA
Bromodichloromethane	ND	N/A	N/A	N/A	SA
Cis-1,3-Dichloropropene	ND	N/A	N/A	N/A	SA
Benzene	ND	**112**	**113**	76-127	SA
Trans-1,3-Dichloropropene	ND	N/A	N/A	N/A	SA
Bromoform	ND	N/A	N/A	N/A	SA
1,1,2,2-Tetrachloroethane	ND	N/A	N/A	N/A	SA
Toluene	ND	**92**	**93**	76-125	SA
Ethyl Benzene	ND	N/A	N/A	N/A	SA
[illegible]methane	ND	N/A	N/A	N/A	SA
Bromomethane	ND	N/A	N/A	N/A	SA
Vinyl Chloride	ND	N/A	N/A	N/A	SA
Chloroethane	ND	N/A	N/A	N/A	SA
Acetone	ND	N/A	N/A	N/A	SA
Carbon Disulfide	ND	N/A	N/A	N/A	SA
Vinyl Acetate	ND	N/A	N/A	N/A	SA
2-Butanone	ND	N/A	N/A	N/A	SA
4-Methyl-2-Pentanone	ND	N/A	N/A	N/A	SA
2-Hexanone	ND	N/A	N/A	N/A	SA
Styrene	ND	N/A	N/A	N/A	SA
Total Xylenes	ND	N/A	N/A	N/A	SA
Acrylonitrile	ND	N/A	N/A	N/A	SA
1,2-Dichlorobenzene	ND	N/A	N/A	N/A	SA
1,4-Dichlorobenzene	ND	N/A	N/A	N/A	SA
Trans-1,4-Dichloro-2-butene	ND	N/A	N/A	N/A	SA
Cis-1,2-Dichloroethene	ND	N/A	N/A	N/A	SA
Methyl Iodide	ND	N/A	N/A	N/A	SA
Bromochloromethane	ND	N/A	N/A	N/A	SA
Dibromomethane	ND	N/A	N/A	N/A	SA
1,1,1,2-Tetrachloroethane	ND	N/A	N/A	N/A	SA
1,2,3-Trichloropropane	ND	N/A	N/A	N/A	SA
1,2-Dibromo-3-Chloropropane(DBCP)	ND	N/A	N/A	N/A	SA
1,2-Dibromoethane (EDB)	ND	N/A	N/A	N/A	SA

COMMENTS:

Corresponding Samples: **615658-68**

% Percent

ND = Non Detected

N/A = Not Available

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RESEARCH & ANALYTICAL LABS. SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Quality Control Summary Results for Project Identified as Roaring River Landfill (A Wilkes County Project, 28 April 2008)

Inorganics Appendix I Parameter	Prep. Blank %	ICV Recovery %	CCV Recovery %	LCS Recovery %	Spike Recovery %	% Difference
Arsenic	BDL	101	99 99 100	93	92	2
Antimony	BDL	108	100 96 104	105	85	5
Barium	BDL	103	102 102 102	96	96	2
Beryllium	BDL	100	100 102 100	95	94	1
Cadmium	BDL	99	101 101 101	96	95	2
Chromium	BDL	102	102 102 102	95	95	1
Cobalt	BDL	104	102 102 102	95	95	2
[illegible]er	BDL	98	99 99 99	91	91	2
Lead	BDL	102	101 100 102	93	92	2
Nickel	BDL	103	103 102 103	96	94	2
Selenium	BDL	101	101 100 102	103	102	0
Silver	BDL	103	103 103 103	95	94	2
Thallium	BDL	102	98 99 99	91	86	1
Vanandium	BDL	104	100 100 100	94	95	2
Zinc	BDL	103	103 103 104	98	92	2

COMMENTS: 615658-68

% Percent
I. Initial Calibration Verification
CCV = Continuing Calibration Verification
LCS = Laboratory Control Sample
N/A = Not Available

*** Post Spike**

GROUNDWATER MON ORING FIELD LOG

Facility	Wilkes County		Personnel Present:	Comments:
	Roaring River Landfill	April 28, 2008	Glenn Price	**Well Shaft bent - 50'
			Morgan Turner	down well - unable to
Weather	Cloudy, Light Rain 62°F	Date		purge

Monitoring Well No.	MW-2 R	MW-5	MW-6	MW-7	*MW-8	MW-9	MW-10	**MW-12 S	MW-12 D	MW-17	MW-18	Leachate
Total Depth (FT.)	116.0	38.11	37.60	41.77	58.50	37.57	76.75	104.00	134.00	24.63	46.85	
Surface Depth (FT.)	50.85	36.73	37.60	41.41	41.44	30.23	76.68	102.84	102.92	19.89	33.04	
Water Depth (FT.)	35.15	1.38	0	0.36	17.06	7.34	0.07	1.16	31.08	4.74	13.81	
Diameter (IN.)	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"	
Conversion Factor	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	
Well Volume (GAL.)	5.62	0.22	0	0.06	2.73	1.17	0.01	0.19	4.97	0.75	2.21	
Volume (GAL.) X 3	16.87	0.66	Well Dry	Well Dry	8.19	3.52	Well Dry	0.75	14.92	2.28	6.83	
# Bails (L)	68	3			33	15		3	60	10	27	
Purge Date	04/28/08	04/28/08	04/28/08	04/28/08	04/28/08	04/28/08	04/28/08	04/28/08	04/28/08	04/28/08	04/28/08	
Purge Time (hrs.)	0950	1004			0740	0804		Bailer unable to reach water	0915	0947	0927	
Purge Method	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer		Bailer	Bailer	Bailer	
Volume Removed (GAL.)	10.50-Dry	0.25-Dry			7.25-Dry	3.75			5.50-Dry	0.75-Dry	6.75	
Sampling Date	04/28/08	04/28/08	04/28/08	04/28/08	04/28/08	04/28/08	04/28/08		04/28/08	04/28/08	04/28/08	04/28/08
Sampling Time (hrs.)	0915	1016			1052	1044			1028	0955	0940	1100
Sampling Method	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
pH (Standard Units)	6.88	5.12			5.56	5.21			10.29	4.90	4.96	8.28
Temperature (EC)	16.4	16.3			15.5	15.8			15.5	15.6	16.0	17.8
Conductivity (µmhos/cm)	177	37			54	36			465	33	<30	
Dissolved Oxygen (mg/L)												
Observations/Sampling	Clear	Sl. Turbid			Clear	Clear			Clear	Sl. Turbid	Sl. Turbid	Turbid

* Duplicate

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: Wilkes Co. Landfills
STREET ADDRESS:
CITY, STATE, ZIP:
CONTACT: PHONE:
JOB NO.:
PROJECT: Roaring River
SAMPLER NAME (PLEASE PRINT): Glenn Price
SAMPLER SIGNATURE:

WATER / WASTEWATER | MISC.

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P, G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P, G (COD, N, P) H_2SO_4	1L P, G (Metals, Hardness) HNO_3	1L P, G (CYANIDE) NaOH	Sterile P, G (Coliform)				REQUESTED ANALYSIS
615658	4/28/08	0915		✓		—		W	MW-2R	6		4			1			1						* See Remarks
659		1016		✓		—		W	MW-5	6		4			1			1						
660		1052		✓		—		W	MW-8	6		4			1			1						
661		1044		✓		—		W	MW-9	6		4			1			1						
662		1028		✓		—		W	MW-12D	6		4			1			1						
663		0955		✓		—		W	MW-17	6		4			1			1						
664		0940		✓		—		W	MW-18	6		4			1			1						
665		1052		✓		—		W	Duplicate	6		4			1			1						
666		1100		✓		—		W	FB	5		4			1			1						(no Cond)
667		0530		✓		—		W	TB	5		4						1						(no Cond)
668		1100		✓		—		W	Leachate	10		4			2	2		1	1					* Remarks + Hg, Mn, O&G, CN, BOD, TSS, Mo

RELINQUISHED BY	DATE/TIME	RECEIVED BY
[signature]	4/29/08	[signature]
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: * Sb, As, Ba, Be, Cd, Cr, Co, Cu, Ni, Pb, Se, Ag, Ti, V, Zn, VOA 8260, Cond

SAMPLE TEMPERATURE AT RECEIPT 3.0 °C