BCO 2394

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	~~79-04~~ 97-04	.1600	December 7, 2006

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.

Hannu Kemppinen — Facility Representative Name (Print)
Sr. Proj. Consultant — Title
336-323-0092 — (Area Code) Telephone Number

Hannu Kemppinen — Signature
April 26, 2007 — Date

Affix NC Licensed/Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1490 GEOLOGIST HANNU M. A. KEMPPINEN

Revised 10/2006

ENGINEERING, INC.

Waste Industry Experts

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April 25, 2007

Mr. Ethan Brown
Division of Waste Management/Solid Waste Section
1647 Mail Service Center
Raleigh, NC 27699-1646

RE: Second Semiannual Groundwater Monitoring Reports of 2006
Wilkes County Landfills - Roaring River, Dan Johnson and Germanton
JEI Project No. 356.00, Task 34

Dear Ethan:

On behalf of Wilkes County, Joyce Engineering, Inc. (JEI) is submitting the enclosed statistical analysis of the December 7, 2006, groundwater monitoring data for the Wilkes County (Roaring River) Landfill. The facility is monitoring in accordance with the Detection Monitoring Program described in Rule .1633. Research and Analytical Laboratories, Inc. (RAL) of Kernersville, NC performed the sampling and laboratory analysis. No organic constituents were detected at statistically significant concentrations in the downgradient monitoring wells during this sampling event. Vanadium was detected in MW-7 while zinc was detected in MW-7, MW-9, and MW-18. The inorganic detections are not considered statistically significant concentrations. The leachate results from this facility are also included in this report. These results can be found in the *Laboratory Reports and Field Data* section of the report.

Also enclosed with this letter are the compliance monitoring reports for the second semiannual monitoring events at the closed Dan Johnson and Germanton Landfills. These events took place on December 20, 2006, and November 9, 2006, respectively. Sampling and laboratory analysis were performed by RAL.

At the Dan Johnson Landfill, the following organic constituents were detected in MW-1: 1,1-dichloroethane, benzene, chloroethane, 1,4-dichlorobenzene, and cis-1,2-dichloroethene. MW-2 organic constituent detections consisted of methylene chloride, chlorobenzene, 1,4-dichlorobenzene, and cis-1,2-dichloroethene. MW-3 organic constituent detections are 1,4-dichlorobenzene and cis-1,2-dichloroethene. Detections of benzene in MW-1 and 1,4-dichlorobenzene in MW-1, -2, &-3 exceeded the NC 2L Standard. Barium, copper, and zinc were the inorganic constituents detected during the December 2006 sampling event. Copper was detected in MW-1 and zinc was detected in MW-2. Barium was detected in MW-3 and the downstream surface water sampling point. These detections are generally consistent with previous results.

At the Germanton Landfill, chlorobenzene in MW-5 was the only organic constituent reported to be present during this sampling event. This detected concentration is below the NC 2L Standard and is consistent with previous events. Cobalt was the only inorganic constituents detected during the November 2006 sampling. Cobalt was detected in MW-4 and MW-5 at concentrations below the NC 2L Standard. These detections are consistent with previous results.

The three facilities will continue monitoring for the NC Appendix I list of constituents. Two additional copies of this letter are enclosed for your files. If you have any questions, please feel free to contact me at (336) 323-0092.

Sincerely,
JOYCE ENGINEERING, INC.

Jeremey J. Kerly
Staff Consultant

Enclosure

C: Thomas D. Livingston - Wilkes County, Solid Waste Director
File

P:\Wilkes\GROUNDWATER\STAT REPORTS\Nov-Dec 2006 Stats\Wilkes County Report Letter Nov-Dec 2006.doc

A C02394

Prepared for:

Wilkes County Department of Solid Waste
9219 Elkin Highway
Roaring River, North Carolina 28669

JEI Project Number 356.00, Task 34

SECOND SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2006 WILKES COUNTY, NC - ROARING RIVER LANDFILL PERMIT NUMBER 97-04

April 2007

Prepared by:

JOYCE ENGINEERING, INC.

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Second Semiannual Groundwater Monitoring Report of 2006
Wilkes County, NC – Roaring River Landfill
Permit Number

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1.0 Introduction

The following statistical analysis of groundwater monitoring data from the Wilkes County Roaring River Landfill has been prepared for the December 2006 sampling event. The first statistical analysis for the facility after initiating Detection Monitoring was submitted after the September 1998 sampling event. The analytical data for the semiannual monitoring performed on December 7, 2006, at the Wilkes County Roaring River Landfill are included in the *Laboratory Reports and Field Data* section.

Facility background concentrations for inorganic constituents were calculated based on the data from April 1994 through December 2006. Background values for detected inorganic constituents are shown in the *Statistical Analyses* section. Methods used to calculate the backgrounds are described in Section 4.0 of this report. There were no statically significant increases of inorganic constituents for the December 2006 monitoring event. Also, no organic constituents were reported to be present above laboratory reporting limits in any of the wells during this event. Samples were not recovered from MW-6, -10, -12S, and -17 during this sampling event due to extremely low water columns and recharge.

1.1 Site Information

The Wilkes County Landfill is owned and operated by Wilkes County. 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. A leachate lagoon is located southwest of the approximately 12-acre lined area.

1.2 Groundwater Monitoring Network

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 the Phase 1 cell. Monitoring wells MW-12S and -12D were installed in March 2000 to be incorporated into the monitoring network to effectively monitor the Phase 2 cell. Wells MW-17 and MW-18 were installed during the Design Hydrogeologic Investigation for Phase 3/4 to be incorporated into the facility network upon approval of the revised Groundwater Monitoring Plan. The monitoring well network is shown on *Drawing No. 1*.

The site has been monitored in accordance with Detection Monitoring requirements since February 1994. To date, twenty-six semiannual sampling events have been conducted for

the groundwater monitoring wells. The leachate is also sampled semiannually and the results are included in the *Laboratory Reports* section.

2.0 Site Hydrogeology

Surface water flows to the south-southeast in three site drainages to the Yadkin River, which borders the southeastern facility boundary. Regional groundwater flow in the vicinity of the facility is also generally to the south 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 December 2006 sampling event.

Estimated horizontal groundwater gradients from the December 2006 groundwater levels are presented in *Table 2*. The average horizontal gradient is approximately 0.071 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.

The average estimated linear groundwater flow velocity for the site is approximately 89.4 ft/year *(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.

3.0 Results of Laboratory Analysis

Research and Analytical Laboratories, Inc. (RAL) personnel collected the groundwater, surface water, and leachate samples on December 7, 2006. RAL personnel measured the water quality indicator parameters pH, temperature and conductivity in the field during purging and just prior to sample collection. The December 2006 samples were also analyzed by RAL.

The detected constituents for the December 2006 sampling event are summarized in *Table 3* and discussed in detail below. Historically detected constituents are summarized in *Table 4* while field indicator parameters are summarized in *Table 5*. The results as reported by the laboratory, laboratory quality assurance/quality control information, and the chain of custody records are included in the *Laboratory Reports* section.

4.0 Statistical Procedures

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.

4.1 Background Data

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 from the previous four background sampling events.

4.2 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.

4.2.1 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.

4.2.2 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.

4.2.3 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).

4.2.4 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).

4.2.5 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).

4.2.6 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).

5.0 Results of Statistical Analyses

There were no statistically significant increases for all detected inorganic constituents during the December 7, 2006 sampling event. Inorganic constituents were reported above their respective reporting limits in monitoring wells MW-7, MW-9, and MW-18. Organic constituents are compared directly to the quantitation limits for each constituent. No organic constituents were reported at concentrations above their respective reporting limits.

6.0 Summary

Samples were not recovered from MW-6, -10, -12S, and -17 during December 2006 sampling event due to extremely low water columns and recharge. No statistically significant increases were noted for any of the inorganic parameters analyzed during this event. Zinc was detected in monitor wells MW-7, -9, and -18 but were well below the NC 2L standards during this event while vanadium was detected in MW-7. No organic constituents were reported above their laboratory quantitation limits during the December 2006 event. Therefore, the site will remain in Detection Monitoring.

TABLE 1
Summary of Groundwater Elevations
Wilkes County - Roaring River Landfill
Wilkes County, North Carolina

WATER LEVEL ELEVATION: FEET ABOVE MEAN SEA LEVEL											
Well No.	MW-2R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-12S	MW-12D	MW-17	MW-18
TOC Elev.	1118.10	996.15	981.01	984.08	984.46	971.89	1024.10	1052.79	1052.89	986.68	1026.49
Oct-94	NI	966.74	949.27	947.37	948.60	943.17	NI	NI	NI	NI	NI
Apr-95	NI	966.73	949.01	946.65	948.07	943.08	NI	NI	NI	NI	NI
Oct-95	NI	967.05	948.73	946.67	947.85	943.24	NI	NI	NI	NI	NI
Apr-96	NI	968.15	950.20	947.21	948.46	943.34	NI	NI	NI	NI	NI
Nov-96	NI	967.40	949.28	946.75	947.96	943.36	NI	NI	NI	NI	NI
Mar-97	NI	968.14	951.06	947.61	948.99	944.23	NI	NI	NI	NI	NI
Sep-97	NI	966.55	948.88	947.07	951.62	943.81	NI	NI	NI	NI	NI
Mar-98	NI	969.55	949.61	946.98	948.34	944.19	NI	NI	NI	NI	NI
Sep-98	NI	967.92	950.09	947.36	948.57	943.43	956.95	NI	NI	NI	NI
Oct-98	NI	967.13	948.76	946.77	947.98	943.37	956.08	NI	NI	NI	NI
Nov-98	NI	966.53	947.76	946.33	947.68	943.64	955.13	NI	NI	NI	NI
Dec-98	NI	966.20	947.24	946.08	947.35	942.29	954.56	NI	NI	NI	NI
Feb-99	NI	968.43	947.79	946.31	947.61	943.77	953.18	NI	NI	NI	NI
Apr-99	NI	967.89	948.44	946.36	947.61	943.34	952.93	NI	NI	NI	NI
Sep-99	NI	965.54	946.43	945.33	946.50	942.86	NA	NI	NI	NI	NI
Apr-00	NI	965.71	945.72	945.34	947.85	943.31	951.29	958.39	958.38	NI	NI
Sep-00	NI	964.15	945.49	945.20	946.52	943.43	949.79	956.37	956.58	NI	NI
Mar-01	NI	964.30	944.87	944.86	946.21	943.49	948.39	954.38	954.56	NI	NI
Oct-01	NI	960.32	944.79	944.15	945.46	943.49	947.56	954.05	953.23	NI	NI
Apr-02	1018.99	961.64	946.59	944.28	945.71	943.38	947.40	952.78	949.37	NI	NI
Nov-02	1032.21	961.81	946.92	943.07	946.25	943.90	947.40	949.98	946.52	NI	NI
May-03	1037.34	964.50	951.47	946.87	948.19	944.07	947.43	951.89	944.49	NI	NI
Nov-03	1041.84	962.60	950.27	946.77	948.05	943.42	948.66	955.89	954.78	NI	NI
Apr-04	1041.41	963.52	948.59	946.70	947.51	943.88	948.54	954.92	954.11	967.57	995.90
May-04	-	-	-	-	947.34	-	-	-	-	-	-
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
Jun-06	1030.65	958.18	943.61	944.08	944.52	946.31	948.21	952.45	952.55	963.04	991.49
Dec-06	1039.79	959.85	943.41	944.43	944.76	943.76	-	951.34	951.34	962.05	992.24
MAX	1042.35	969.55	951.47	947.61	951.62	946.31	956.95	958.39	958.38	967.57	995.90
MIN	1018.99	958.18	943.41	943.07	944.52	942.29	947.40	949.98	944.49	962.05	987.81

NOTES:
1. - = Data not available
2. NI = Well not installed
3. Elevations used in the construction of the Groundwater Surface Contour Map (Drawing No. 1) were measured on October 20, 2004.
4. Well MW-2 was abandoned on April 8, 2002 and replaced with MW-2R.
5. Wells MW-17 and MW-18 were installed during the Phase 3/4 Design Hydrogeologic Investigation in July 2003 and are not yet part of the compliance monitoring network.

TABLE 2
Estimated Hydraulic Gradients and Linear Flow Velocities
Wilkes County - Roaring River Landfill
Wilkes County, North Carolina

GRADIENT CALCULATION SEGMENT	HYDRAULIC CONDUCTIVITY (K, cm/s)	EFFECTIVE POROSITY (%)	GRADIENT SEGMENT LENGTH (ft)	FLOW DIRECTION	December 2006 Groundwater Elevations		
					Elevation (ft, MSL)	Gradient (i,ft/ft)	Velocity (v,ft/yr)
i_1	1.9E-04	16	374	W	1000 970	0.080	101.03
i_2	1.9E-04	16	1282	S	1020 950	0.055	68.83
i_3	1.9E-04	16	1025	S-SE	1030 950	0.078	98.42

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
Wilkes County - Roaring River Landfill
Summary of Detected Constituents
December 2006 Sampling Event

Constituent	RL	Concentrations (µg/L)			
		MW-7	MW-9	MW-18	Leachate
Barium	100	ND	ND (ND)	ND	103
Cobalt	10	ND	ND (ND)	ND	13
Manganese	5	-	-	-	848
Vanadium	25	27	ND (ND)	ND	ND
Zinc	10	120	43 (55)	39	48
BOD	2000	-	-	-	16300
TSS	5000	-	-	-	36000

Notes:
1. ND = Non-detect
2. - = Not analyzed
3. Values in parentheses are duplicate samples.

TABLE 4
Summary of Historically Detected Constituents Wilkes County - Roaring River Landfill
Wilkes County, North Carolina

Constituent [NC 2L in µg/L]	Date	Concentration in (µg/L)												
		RL	MW-2R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-12S	MW-12D	MW-17	MW-18	Leachate	Blanks
Barium [2000]	Apr-94	250	-	ND	444	3480	ND	1600	-	-	-	-	-	-
	Oct-94	500	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	-
	Apr-95	500	-	BQL	BQL	701	BQL	516	-	-	-	-	-	-
	Oct-95	500	-	BQL	BQL	1630	BQL	BQL	-	-	-	-	-	-
	Apr-96	500	-	BQL	BQL	1650	BQL	BQL	-	-	-	-	-	BQL
	Nov-96	500	-	BQL	BQL	1660	BQL	BQL	-	-	-	-	-	BQL
	Mar-97	500	-	BQL	BQL	1440	BQL	BQL	-	-	-	-	-	BQL
	Sep-97	500	-	BQL	BQL	745	BQL	BQL	-	-	-	-	-	BQL
	Mar-98	500	-	BQL	BQL	937	BQL	BQL	-	-	-	-	-	BQL
	Sep-98	500	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Mar-99	500	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-99	500	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Apr-00	500	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	BQL
	Sep-00	500	-	BQL	665	BQL	BQL	BQL	BQL	BQL	-	-	-	BQL
	Mar-01	500	-	BQL	BQL	BQL	BQL	BQL	BQL (BQL)	BQL (BQL)	-	-	-	-
	Jun-01	500	-	-	-	-	-	-	-	-	-	-	-	BQL
	Oct-01	500	-	BQL	BQL	526	BQL (BQL)	BQL	BQL	BQL	-	-	-	BQL
	Apr-02	500	BQL	BQL	BQL	554	BQL	BQL	-	-	-	-	-	BQL
	Nov-02	500	BQL	BQL	BQL	-	BQL	BQL (BQL)	-	-	-	-	-	BQL
	May-03	500	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	-	-	-	BQL
	Nov-03	500	BQL	BQL	BQL	BQL	BQL	BQL (BQL)	BQL	BQL	-	-	-	BQL
	Apr-04	500	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	ND
	May-04	500	-	-	-	-	ND	-	-	-	-	-	-	BQL
	Oct-04	500	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL
	May-05	500	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	Oct-05	500	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL
	Jun-06	500	BQL	BQL	BQL	563	BQL	BQL	BQL	BQL	BQL	649	BQL	BQL
	Dec-06	100	BQL	BQL	-	BQL	BQL	BQL (BQL)	-	BQL	-	BQL	103	BQL
Beryllium [NE]	Apr-94	5	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Oct-94	2	-	BQL	BLQ	6	BQL	4	-	-	-	-	-	-
	Apr-95	2	-	3	2	2	BQL	6	-	-	-	-	-	-
	Oct-95	2	-	4	2	4	BQL	2	-	-	-	-	-	-
	Apr-96	2	-	5	3	5	3	3	-	-	-	-	-	-
	Nov-96	2	-	4	BQL	4	BQL	3	-	-	-	-	-	BQL
	Mar-97	2	-	3	BQL	3	BQL	BQL	-	-	-	-	-	BQL
	Sep-97	2	-	4	BQL	4	BQL	BQL	-	-	-	-	-	BQL
	Mar-98	2	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-98	2	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Mar-99	2	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-99	2	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Apr-00	2	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	BQL
	Sep-00	2	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	BQL
	Mar-01	2	-	BQL	-	BQL	BQL	BQL	BQL (BQL)	BQL (BQL)	-	-	-	BQL
	Oct-01	2	-	BQL	-	BQL	BQL (BQL)	BQL	BQL	BQL	-	-	-	BQL
	Apr-02	2	BQL	BQL	-	BQL	BQL	BQL	-	-	-	-	-	BQL
	Nov-02	2	BQL	BQL	-	-	BQL	BQL (BQL)	-	-	-	-	-	BQL
	May-03	2	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	-	-	-	BQL
	Nov-03	2	BQL	BQL	BQL	BQL	BQL	BQL (BQL)	BQL	BQL	-	-	-	BQL
	Apr-04	2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	ND
	May-04	2	-	-	-	-	ND	-	-	-	-	-	-	BQL
	Oct-04	2	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	May-05	2	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL
	Oct-05	2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5	BQL	BQL
	Jun-06	2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL
	Dec-06	1	BQL	BQL	-	BQL	BQL	BQL (BQL)	-	BQL				
Cadmium [1.75]	Apr-94	2	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Oct-94	1	-	BQL	1	BQL	BQL	BQL	-	-	-	-	-	-
	Apr-95	1	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	-
	Oct-95	1	-	1	1	BQL	BQL	1	-	-	-	-	-	-
	Apr-96	1	-	1	2	4	BQL	3	-	-	-	-	-	BQL
	Nov-96	1	-	3	2	9	BQL	7	-	-	-	-	-	BQL
	Mar-97	1	-	2	8	12	BQL	5	-	-	-	-	-	BQL
	Sep-97	1	-	12	BQL	3	1	1	-	-	-	-	-	BQL
	Mar-98	1	-	BQL	BQL	BQL	3	BQL	-	-	-	-	-	BQL
	Sep-98	1	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Mar-99	1	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-99	1	-	3.7	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Apr-00	1	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	BQL
	Sep-00	1	-	BQL	2	BQL	BQL	3	4	4	-	-	-	BQL
	Mar-01	1	-	BQL	BQL	BQL	BQL	BQL	BQL (BQL)	BQL (BQL)	-	-	-	BQL
	Oct-01	1	-	3	BQL	2	2 (BQL)	2	1	1	-	-	-	BQL
	Apr-02	1	2	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Nov-02	1	BQL	BQL	BQL	-	BQL	BQL (BQL)	-	-	-	-	-	BQL
	May-03	1	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	-	-	-	BQL
	Nov-03	1	BQL	BQL	BQL	BQL	BQL	BQL (BQL)	BQL	BQL	-	-	-	BQL
	Jan-04	1	-	-	-	-	-	-	-	-	-	-	-	BQL
	Apr-04	1	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	ND
	May-04	1	-	-	-	-	ND	-	-	-	-	-	-	BQL
	Oct-04	1	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	May-05	1	1	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	1	BQL	BQL	BQL	BQL
	Oct-05	1	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL
	Jun-06	1	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	6	BQL	BQL
	Dec-06	1	BQL	BQL	-	BQL	BQL	BQL (BQL)	-	BQL	-	BQL	BQL	BQL

TABLE 4
Summary of Historically Detected Constituents Wilkes County - Roaring River Landfill
Wilkes County, North Carolina

Constituent [NC 2L in µg/L]	Date	Concentration in (µg/L)												
		RL	MW-2R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-12S	MW-12D	MW-17	MW-18	Leachate	Blanks
Chromium [50]	Apr-94	20	-	ND	ND	ND	ND	57	-	-	-	-	-	-
	Oct-94	10	-	BQL	BQL	25	BQL	26	-	-	-	-	-	-
	Apr-95	10	-	14	10	18	BQL	64	-	-	-	-	-	-
	Oct-95	10	-	22	141	34	BQL	34	-	-	-	-	-	-
	Apr-96	10	-	20	23	32	BQL	32	-	-	-	-	-	BQL
	Nov-96	10	-	27	17	40	BQL	46	-	-	-	-	-	BQL
	Mar-97	10	-	10	46	35	11	23	-	-	-	-	-	BQL
	Sep-97	10	-	37	BQL	14	BQL	BQL	-	-	-	-	-	BQL
	Mar-98	10	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-98	10	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Mar-99	10	-	BQL	BQL	BQL	BQL	11	-	-	-	-	-	BQL
	Sep-99	10	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Apr-00	10	-	BQL	14	BQL	BQL	BQL	23	23	-	-	-	BQL
	Sep-00	10	-	BQL	15	BQL	BQL	11	19	19	-	-	-	-
	Jun-01	10	-	-	-	-	-	-	-	-	-	-	-	BQL
	Oct-01	10	-	BQL	-	BQL	BQL (BQL)	BQL	16	16	-	-	-	BQL
	Apr-02	10	BQL	BQL	-	10	BQL	21	-	-	-	-	-	BQL
	Nov-02	10	BQL	BQL	-	-	BQL	BQL (BQL)	-	-	-	-	-	BQL
	May-03	10	BQL	13	17	BQL	BQL(BQL)	BQL	34	34	-	-	-	BQL
	Nov-03	10	BQL	BQL	BQL	BQL	BQL	BQL (BQL)	BQL	BQL	-	-	-	BQL
	Apr-04	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	ND
	May-04	10	-	-	-	-	ND	-	-	-	-	-	-	BQL
	Oct-04	10	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL
	May-05	10	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	Oct-05	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL
	Jun-06	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	23	BQL	BQL
	Dec-06	10	BQL	BQL	-	BQL	BQL	BQL (BQL)	-	BQL	-	BQL	BQL	BQL
Cobalt [NE]	Apr-94	50	-	ND	ND	ND	ND	220	-	-	-	-	-	-
	Oct-94	10	-	BQL	BQL	BQL	BQL	32	-	-	-	-	-	-
	Apr-95	10	-	BQL	BQL	BQL	BQL	78	-	-	-	-	-	-
	Oct-95	10	-	20	74	21	BQL	53	-	-	-	-	-	-
	Apr-96	10	-	27	14	20	BQL	48	-	-	-	-	-	-
	Nov-96	10	-	23	11	23	BQL	67	-	-	-	-	-	BQL
	Mar-97	10	-	BQL	24	23	BQL	26	-	-	-	-	-	BQL
	Sep-97	10	-	24	BQL	BQL	BQL	10	-	-	-	-	-	BQL
	Mar-98	10	-	11	BQL	11	BQL	14	-	-	-	-	-	BQL
	Sep-98	10	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Mar-99	10	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-99	10	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Apr-00	10	-	23	14	BQL	BQL	16	61	61	-	-	-	BQL
	Sep-00	10	-	21	15	BQL	BQL	17	57	57	-	-	-	BQL
	Mar-01	10	-	14	-	BQL	BQL	11	34 (47)	34 (47)	-	-	-	-
	Jun-01	10	-	-	-	-	-	-	-	-	-	-	-	BQL
	Oct-01	10	-	BQL	-	BQL	BQL (BQL)	BQL	49	49	-	-	-	BQL
	Apr-02	10	BQL	BQL	-	BQL	BQL	12	-	-	-	-	-	BQL
	Nov-02	10	BQL	13	-	-	BQL	BQL (BQL)	-	-	-	-	-	BQL
	May-03	10	13	15	16	BQL	BQL(BQL)	10	68	68	-	-	-	BQL
	Nov-03	10	BQL	BQL	17	BQL	BQL	BQL (BQL)	20	20	-	-	-	BQL
	Apr-04	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	ND
	May-04	10	-	-	-	-	ND	-	-	-	-	-	-	BQL
	Oct-04	10	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL
	May-05	10	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	NQL
	Oct-05	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	12	BQL
	Jun-06	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	18	12	BQL
	Dec-06	10	BQL	BQL	-	BQL	BQL	BQL (BQL)	-	BQL	-	BQL	13	BQL
Copper [1000]	Apr-94	10	-	ND	28	31	ND	80	-	-	-	-	-	-
	Oct-94	200	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	-
	Apr-95	200	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	-
	Oct-95	200	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	-
	Apr-96	200	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Nov-96	200	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Mar-97	200	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-97	200	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Mar-98	200	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-98	200	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Mar-99	200	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-99	200	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Apr-00	200	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	BQL
	Sep-00	200	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	BQL
	Mar-01	200	-	BQL	-	BQL	BQL	BQL	BQL (BQL)	BQL (BQL)	-	-	-	-
	Jun-01	200	-	-	-	-	-	-	-	-	-	-	-	BQL
	Oct-01	200	-	BQL	-	BQL	BQL (BQL)	BQL	BQL	BQL	-	-	-	BQL
	Apr-02	200	BQL	BQL	-	BQL	BQL	BQL	-	-	-	-	-	BQL
	Nov-02	200	BQL	BQL	-	-	BQL	BQL (BQL)	-	-	-	-	-	BQL
	May-03	200	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	-	-	-	BQL
	Nov-03	200	BQL	BQL	BQL	BQL	BQL	BQL (BQL)	BQL	BQL	-	-	-	BQL
	Apr-04	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	ND
	May-04	200	-	-	-	-	ND	-	-	-	-	-	-	BQL
	Oct-04	200	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	May-05	200	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL
	Oct-05	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	Jun-06	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL
	Dec-06	10	BQL	BQL	-	BQL	BQL	BQL (BQL)	-	BQL				

TABLE 4
Summary of Historically Detected Constituents Wilkes County - Roaring River Landfill
Wilkes County, North Carolina

Constituent [NC 2L is µg/L]	Date	Concentration is (µg/L)												
		RL	MW-2R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-12S	MW-12D	MW-17	MW-18	Leachate	Blanks
Lead [15]	Apr-94	5	-	15	34	39	5	116	-	-	-	-	-	-
	Oct-94	10	-	BQL	BQL	22	BQL	24	-	-	-	-	-	-
	Apr-95	10	-	14	BQL	16	BQL	48	-	-	-	-	-	-
	Oct-95	10	-	28	37	33	BQL	30	-	-	-	-	-	-
	Apr-96	10	-	20	24	32	BQL	28	-	-	-	-	-	-
	Nov-96	10	-	27	15	35	BQL	37	-	-	-	-	-	BQL
	Mar-97	10	-	BQL	45	31	BQL	18	-	-	-	-	-	BQL
	Sep-97	10	-	37	12	26	BQL	16	-	-	-	-	-	BQL
	Mar-98	10	-	BQL	13	BQL	BQL	26	-	-	-	-	-	BQL
	Sep-98	10	-	BQL	11	BQL	BQL	BQL	-	-	-	-	-	BQL
	Mar-99	10	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Apr-00	10	-	BQL	17	BQL	BQL	BQL	24	24	-	-	-	BQL
	Sep-00	10	-	BQL	27	BQL	BQL	10	31	31	-	-	-	BQL
	Mar-01	10	-	BQL	-	BQL	BQL	BQL	11 (15)	11 (15)	-	-	-	-
	Jun-01	10	-	-	-	-	-	-	-	-	-	-	-	BQL
	Oct-01	10	-	BQL	-	BQL	BQL (BQL)	BQL	24	24	-	-	-	BQL
	Apr-02	10	BQL	BQL	-	BQL	BQL	BQL	-	-	-	-	-	BQL
	Nov-02	10	BQL	BQL	-	-	BQL	BQL (BQL)	-	-	-	-	-	BQL
	May-03	10	BQL	BQL	20	BQL	BQL(BQL)	BQL	30	30	-	-	-	BQL
	Nov-03	10	BQL	BQL	21	BQL	BQL	BQL (BQL)	11	11	-	-	-	BQL
	Apr-04	10	BQL	BQL	12	BQL	BQL	BQL	BQL	BQL	10	BQL	-	ND
	May-04	10	-	-	-	-	ND	-	-	-	-	-	-	BQL
	Oct-04	10	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL
	May-05	10	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	Oct-05	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL
	Jun-06	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	34	BQL	BQL
	Dec-06	10	BQL	BQL	-	BQL	BQL	BQL (BQL)	-	BQL	-	BQL	BQL	BQL
Manganese	Dec-06	5	-	-	-	-	-	-	-	-	-	-	848	BQL
Nickel [100]	Apr-94	50	-	ND	ND	ND	ND	65	-	-	-	-	-	-
	Oct-94	50	-	BQL	BQL	57	BQL	BQL	-	-	-	-	-	-
	Apr-95	50	-	BQL	BQL	BQL	BQL	94	-	-	-	-	-	-
	Oct-95	50	-	BQL	132	83	BQL	58	-	-	-	-	-	-
	Apr-96	50	-	BQL	BQL	78	BQL	56	-	-	-	-	-	-
	Nov-96	50	-	77	BQL	100	BQL	100	-	-	-	-	-	BQL
	Mar-97	50	-	BQL	BQL	55	BQL	BQL	-	-	-	-	-	BQL
	Sep-97	50	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Mar-98	50	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-98	50	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-99	50	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Apr-00	50	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	BQL
	Sep-00	50	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	BQL
	Mar-01	50	-	BQL	-	BQL	BQL	BQL	BQL (BQL)	BQL (BQL)	-	-	-	-
	Jun-01	50	-	-	-	-	-	-	-	-	-	-	-	BQL
	Oct-01	50	-	BQL	-	BQL	BQL (BQL)	BQL	BQL	BQL	-	-	-	BQL
	Apr-02	50	BQL	BQL	-	BQL	BQL	BQL	-	-	-	-	-	BQL
	Nov-02	50	BQL	BQL	-	-	BQL	BQL (BQL)	-	-	-	-	-	BQL
	May-03	50	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	-	-	-	BQL
	Nov-03	50	BQL	BQL	BQL	BQL	BQL	BQL (BQL)	BQL	BQL	-	-	-	BQL
	Apr-04	50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	ND
	May-04	50	-	-	-	-	ND	-	-	-	-	-	-	BQL
	Oct-04	50	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL
	May-05	50	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	Oct-05	50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL
	Jun-06	50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	Dec-06	50	BQL	BQL	-	BQL	BQL	BQL (BQL)	-	BQL	-	BQL	BQL	BQL
Vanadium [NE]	Apr-94	80	-	ND	ND	ND	ND	ND	-	-	-	-	-	-
	Oct-94	40	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	-
	Apr-95	40	-	BQL	BQL	89	BQL	89	-	-	-	-	-	-
	Oct-95	40	-	BQL	122	150	BQL	BQL	-	-	-	-	-	-
	Apr-96	40	-	BQL	50	147	BQL	BQL	-	-	-	-	-	BQL
	Nov-96	40	-	40	BQL	184	BQL	59	-	-	-	-	-	BQL
	Mar-97	40	-	BQL	97	152	BQL	BQL	-	-	-	-	-	BQL
	Sep-97	40	-	49	BQL	77	BQL	BQL	-	-	-	-	-	BQL
	Mar-98	40	-	BQL	BQL	42	BQL	BQL	-	-	-	-	-	BQL
	Sep-98	40	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Mar-99	40	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-99	40	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Apr-00	40	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	BQL
	Sep-00	40	-	BQL	41	BQL	BQL	BQL	BQL	BQL	-	-	-	BQL
	Mar-01	40	-	BQL	-	BQL	BQL	BQL	BQL (BQL)	BQL (BQL)	-	-	-	-
	Jun-01	40	-	-	-	-	-	-	-	-	-	-	-	BQL
	Oct-01	40	-	BQL	-	BQL	BQL (BQL)	BQL	BQL	BQL	-	-	-	BQL
	Apr-02	40	BQL	BQL	-	BQL	BQL	BQL	-	-	-	-	-	BQL
	Nov-02	40	BQL	BQL	-	-	BQL	BQL (BQL)	-	-	-	-	-	BQL
	May-03	40	BQL	BQL	47	BQL	BQL(BQL)	BQL	58	58	-	-	-	BQL
	Nov-03	40	BQL	BQL	BQL	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	-	BQL
	Apr-04	40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	ND
	May-04	40	-	-	-	-	ND	-	-	-	-	-	-	BQL
	Oct-04	40	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
	May-05	40	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL
	Oct-05	40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	51	BQL	BQL
	Jun-06	40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL
	Dec-06	25	BQL	BQL	-	27	BQL	BQL (BQL)	-	BQL				

TABLE 4
Summary of Historically Detected Constituents Wilkes County - Roaring River Landfill
Wilkes County, North Carolina

Constituent [NC 2L in µg/L]	Date	Concentration in (µg/L)												
		RL	MW-2R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-12S	MW-12D	MW-17	MW-18	Leachate	Blanks
Zinc [1050]	Apr-94	20	-	54	114	597	62	678	-	-	-	-	-	-
	Oct-94	50	-	BQL	93	234	BQL	211	-	-	-	-	-	-
	Apr-95	50	-	106	52	160	BQL	451	-	-	-	-	-	-
	Oct-95	50	-	162	384	359	BQL	306	-	-	-	-	-	-
	Apr-96	50	-	152	104	354	90	304	-	-	-	-	-	-
	Nov-96	50	-	203	110	426	136	412	-	-	-	-	-	BQL
	Mar-97	50	-	80	144	378	128	189	-	-	-	-	-	BQL
	Sep-97	50	-	309	140	246	418	187	-	-	-	-	-	BQL
	Mar-98	50	-	70	BQL	162	246	57	-	-	-	-	-	BQL
	Sep-98	50	-	130	121	174	108	123	-	-	-	-	-	BQL
	Mar-99	50	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Sep-99	50	-	BQL	BQL	BQL	BQL	BQL	-	-	-	-	-	BQL
	Apr-00	50	-	BQL	BQL	112	BQL	77	55	55	-	-	-	BQL
	Sep-00	50	-	BQL	111	BQL	BQL	53	BQL	BQL	-	-	-	BQL
	Mar-01	50	-	BQL	-	BQL	BQL	BQL	63 (92)	63 (92)	-	-	-	BQL
	Jun-01	50	-	-	-	-	-	-	-	-	-	-	-	-
	Oct-01	50	-	59	-	BQL	BQL (BQL)	BQL	84	84	-	-	-	BQL
	Apr-02	50	BQL	BQL	-	141	BQL	98	-	-	-	-	-	BQL
	Nov-02	50	BQL	62	-	-	BQL	BQL (53)	-	-	-	-	-	BQL
	May-03	50	BQL	62	84	88	BQL(BQL)	71	138	138	-	-	-	BQL
	Nov-03	50	BQL	58	BQL	BQL	BQL	BQL (BQL)	BQL	BQL	-	-	-	BQL
	Apr-04	50	BQL	179	BQL	73	BQL	BQL	71	71	BQL	BQL	-	ND
	May-04	50	-	-	-	-	ND	-	-	-	-	-	-	BQL
	Oct-04	50	BQL	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL
	May-05	50	BQL	BQL	BQL (BQL)	65	BQL	BQL	BQL	BQL	BQL	50	BQL	BQL
	Oct-05	50	138	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL
	Jun-06	50	BQL	BQL	BQL	81	BQL	BQL	BQL	BQL	BQL	200	BQL	BQL
	Dec-06	10	BQL	BQL	-	120	BQL	43 (55)	-	BQL	-	39	48	BQL
Biochemical Oxygen Demand	Dec-06	2000	-	-	-	-	-	-	-	-	-	-	16300	BQL
Total Suspended Solids	Dec-06	5000	-	-	-	-	-	-	-	-	-	-	36000	BQL

NOTES:

1. All concentrations are reported in micrograms per liter (mg/L).
2. Values in parentheses represent duplicate sample results.
3. MW- = groundwater monitoring well
4. DL = laboratory detection limit
5. QL = laboratory quantitation limit
6. ND = not detected above laboratory reporting limit
7. BQL = not detected above laboratory quantitation limit
8. - = not sampled for
9. January 2004 results represent a resampling event. Sample was analyzed by ENCO Laboratories.
10. May 2004 results for MW-8 were analyzed by ENCO Laboratories. Well was damaged during regular sampling event.
11. NE = Not Established

TABLE 5
Summary of Field Parameters
Wilkes County - Roaring River Landfill
Wilkes County, North Carolina

Parameter	Date	MW-2R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-12S	MW-12D	MW-17	MW-18	Leachate
pH (S.U.)	Sep-98	-	5.10	5.70	5.90	4.90	5.30	-	-	-	-	7.30
	Mar-99	-	4.06	5.04	6.08	6.01	5.41	-	-	-	-	8.05
	Sep-99	-	4.64	5.37	6.61	5.89	5.01	-	-	-	-	6.16
	Apr-00	-	6.04	5.21	5.09	5.63	5.44	5.67	5.76	-	-	5.80
	Sep-00	-	6.16	5.63	5.94	5.37	5.39	10.63	10.59	-	-	5.82
	Mar-01	-	4.80	-	5.20	5.10	4.70	4.50	11.70	-	-	6.47
	Oct-01	-	5.25	-	5.38	5.15	5.39	5.28	10.59	-	-	5.69
	Apr-02	6.76	4.96	-	5.09	5.33	5.02	-	11.01	-	-	6.77
	Nov-02	6.22	5.48	-	-	6.03	5.82	-	10.22	-	-	6.17
	May-03	5.43	6.11	5.93	6.11	5.82	6.42	6.18	10.01	-	-	6.09
	Nov-03	6.44	5.03	6.09	5.83	5.27	5.03	4.04	8.98	-	-	5.96
	Jan-04	-	-	-	-	-	-	-	12.23	-	-	-
	Apr-04	7.31	5.49	5.37	5.97	-	5.36	6.30	10.93	5.25	5.17	7.91
	May-04	-	-	-	-	5.90	-	-	-	-	-	-
	Oct-04	7.11	5.73	5.44	5.61	6.06	5.22	6.49	10.44	5.37	5.11	7.37
	May-05	7.30	5.21	5.05	5.65	6.03	5.41	6.08	10.35	5.18	4.95	8.26
	Oct-05	7.00	5.93	7.10	7.22	7.43	6.02	7.69	10.35	5.87	5.44	8.54
	Jun-06	7.27	-	-	6.39	6.65	5.87	-	9.94	5.73	5.64	8.76
	Dec-06	6.70	5.12	-	5.80	6.23	4.88	-	6.72	-	6.72	8.33
Temperature (°C)	Sep-98	-	22	23	19	19	22	-	-	-	-	23
	Mar-99	-	15.7	15.6	16.1	14.8	15.9	-	-	-	-	17
	Sep-99	-	18	19	19	17	18	-	-	-	-	17
	Apr-00	-	11.4	14.2	12.6	12.5	12.7	12.8	12.8	-	-	9.8
	Sep-00	-	16.4	19.3	17.6	17.9	17.2	18.4	17.9	-	-	16.3
	Mar-01	-	17	-	17	17	16	17	14	-	-	20
	Oct-01	-	20	-	19	21	20	19	19	-	-	19
	Apr-02	17	16	-	15	14	15	-	13	-	-	14
	Nov-02	16	15	-	-	16	16	-	16	-	-	15
	May-03	16	17	16	17	17	18	19	17	-	-	16
	Nov-03	17	17	18	17	17	17	17	16	-	-	18
	Jan-04	-	-	-	-	-	-	-	13	-	-	-
	Apr-04	19	19	19	19	-	20	18	19	19	22	21
	May-04	-	-	-	-	20	-	-	-	-	-	-
	Oct-04	17	18	16	16	17	18	17	16	17	16	16
	May-05	20	25	17	17	17	18	18	18	21	21	29
	Oct-05	13.4	14.9	14.7	16.4	16.7	16.5	15.6	14.7	16.9	15.8	14.7
	Jun-06	27.3	-	-	22.5	25.3	23.1	-	21.4	21.9	21.7	30.9
	Dec-06	13.0	14.1	-	12.8	12.2	15.0	-	14.1	-	13.0	8.6
Conductivity (mohms/cm)	Sep-98	-	46	23	127	69	46	-	-	-	-	-
	Mar-99	-	292	23	50	60	44	-	-	-	-	-
	Sep-99	-	778	96	523	499	103	-	-	-	-	296
	Apr-00	-	807	186	623	581	296	293	241	-	-	347
	Sep-00	-	810	196	655	523	309	277	204	-	-	323
	Mar-01	-	180	-	40	30	20	1400	1700	-	-	-
	Oct-01	-	20	-	110	40	80	100	1500	-	-	260
	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	-	-	220
	Jan-04	-	-	-	-	-	-	-	1518	-	-	-
	Apr-04	210	36	<30	69	-	31	178	1010	<30	<30	2210
	May-04	-	-	-	-	33	-	-	-	-	-	-
	Oct-04	210	180	260	90	60	140	230	1960	120	180	110
	May-05	105	25	25	76	39	39	14	404	27	18	3
	Oct-05	110.3	34.2	39.9	90.8	38.6	30.5	193.7	327	38.9	18.9	296
	Jun-06	95.7	-	-	50.8	35.8	67.6	-	396	30.1	12.4	2000
	Dec-06	240	38.2	-	85.3	78.2	57.1	-	324	-	93.7	2330

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.

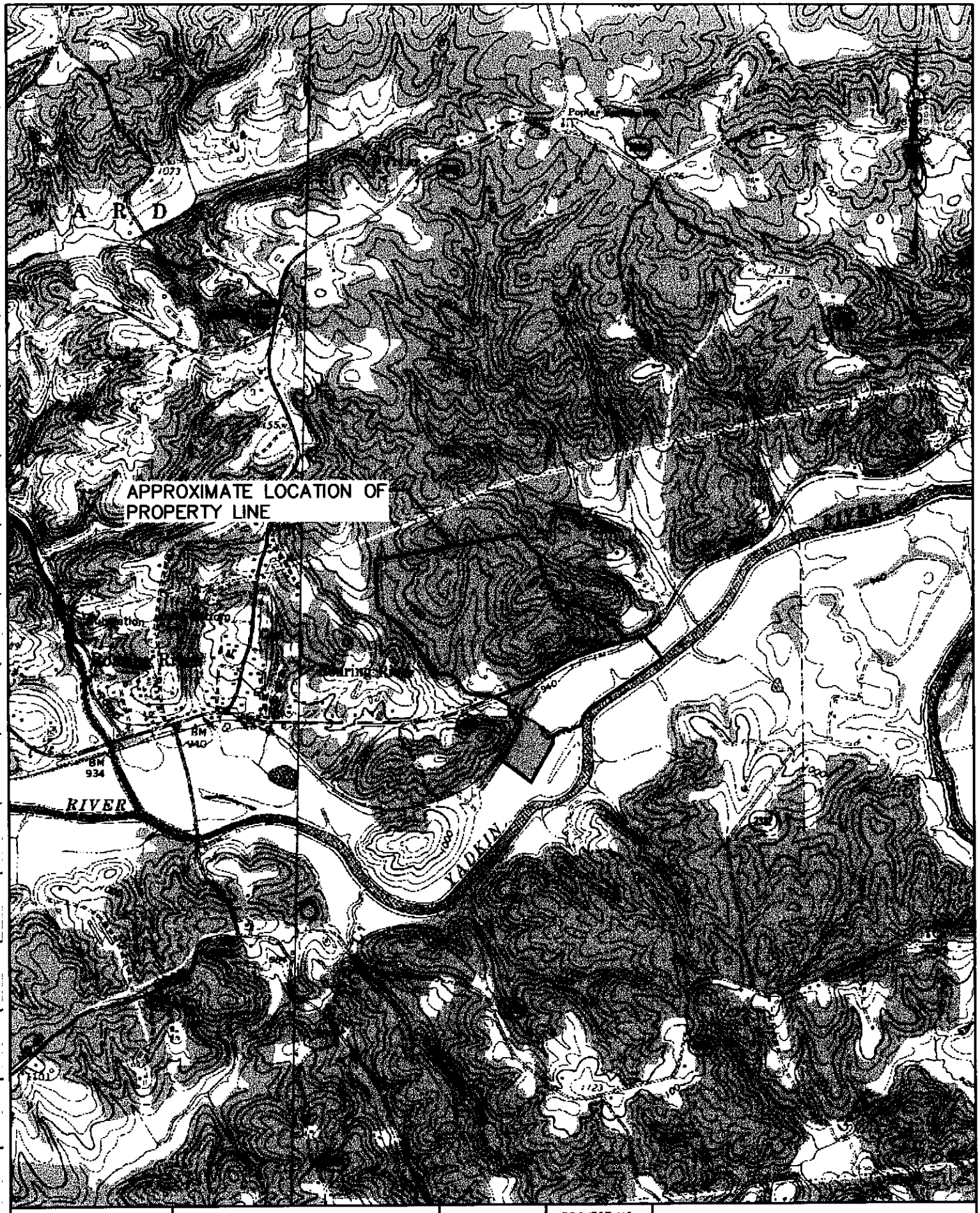

FIGURE NO. 1	JOYCE ENGINEERING, INC. 2211 WEST MEADOWVIEW ROAD GREENSBORO, N.C. 27407 PHONE: (336) 323-0092	SCALE	PROJECT NO.	SITE LOCATION MAP
	© 2007 Joyce Engineering, Inc. All rights reserved.	1"=2000'	356.34	02/23/07

Wilkes County Landfill
Summary of Statistical Analyses
Inorganic Constituents
December 2006 Sampling Event

Analyte	Data Distribution	Statistical Method used to Establish Background	Background (µg/L)	Noted Increases
Antimony			n/e	
Arsenic			n/e	
Barium			n/e	
Beryllium			n/e	
Cadmium			n/e	
Chromium			n/e	
Cobalt			n/e	
Copper			n/e	
Lead			n/e	
Mercury			n/e	
Nickel			n/e	
Selenium			n/e	
Silver			n/e	
Sulfides			n/e	
Thallium			n/e	
Tin			n/e	
Vanadium		Non-parametric Prediction Interval	205	
Zinc		Non-parametric Prediction Interval	995	

Notes:

1. n/a - not available
2. n/e - not established; background concentrations not established for constituents not detected during subject event.

Detailed Results

JEI Project: Roaring River Landfill - Wilkes County
Project No: 356.34
Date: 12/07/06

Analyte: Vanadium

Sample No.	Sample Date	Location	Concentration (ug/L)	Quantitation Limit (ug/L)	Sorted Concentration (ug/L)	
1	Apr-94	MW-2	ND	80	25	80
2	Oct-94	MW-2	138	40	40	40
3	Apr-95	MW-2	205	40	40	40
4	Oct-95	MW-2	BQL	40	40	40
5	Apr-96	MW-2	148	40	40	40
6	Nov-96	MW-2	156	40	40	40
7	Mar-97	MW-2	101	40	40	40
8	Sep-97	MW-2	125	40	40	40
9	Mar-98	MW-2	43	40	40	40
10	Sep-98	MW-2	44	40	40	40
11	Apr-02	MW-2R	BQL	40	40	40
12	Nov-02	MW-2R	BQL	40	40	40
13	May-03	MW-2R	BQL	40	40	40
14	Nov-03	MW-2R	BQL	40	40	40
15	Apr-04	MW-2R	BQL	40	40	40
16	Oct-04	MW-2R	BQL	40	40	40
17	May-05	MW-2R	BQL	40	40	40
18	Oct-05	MW-2R	BQL	40	40	40
19	Jun-06	MW-2R	BQL	40	40	40
20	Dec-06	MW-2R	BQL	25	40	40
21	Apr-04	MW-17	BQL	40	40	40
22	Oct-04	MW-17	BQL	40	40	40
23	May-05	MW-17	BQL	40	40	40
24	Oct-05	MW-17	BQL	40	40	40
25	Apr-04	MW-18	BQL	40	40	40
26	Oct-04	MW-18	BQL	40	40	40
27	May-05	MW-18	BQL	40	40	40
28	Oct-05	MW-18	BQL	40	80	25

Number of Data: 28
Number of Truncated Data: 20
Percentage of Truncated Data: 71%

Non-parametric Prediction Interval: 205

- All concentrations in micrograms per liter.
- Blank qualified data not used in statistical calculations.

JEI Project: Roaring River Landfill - Wilkes County
Project No: 356.34
Date: 12/07/06

Analyte: Zinc

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

Number of Data: 28
Number of Truncated Data: 17
Percentage of Truncated Data: 61%

Non-parametric Prediction Interval: 995

- All concentrations in micrograms per liter.
- Blank qualified data not used in statistical calculations.

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

ble 1 - Volatile Organic Analysis (Appendix I-Subtitle D) for Selected Monitoring Wells at the Wilkes County - Roaring River Landfill - 07 December 2006

atile Organics A Method 8260 rameter	Quantitation Limits (mg/L)	MW-2 R (mg/L)	MW-5 (mg/L)	MW-7 (mg/L)	MW-8 (mg/L)	MW-9 (mg/L)	MW-9 Duplicate (mg/L)	MW-12D (mg/L)	Travel Blank (mg/L)	Field Blank (mg/L)
thylene Chloride	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
chlorofluoromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
-Dichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
oroform	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
rbon Tetrachloride	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
-Dichloropropane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
chloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
romochloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,2-Trichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
rachloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
lorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
ns-1,2-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
-Dichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,1-Trichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
omodichloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
-1,3-Dichloropropene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
nzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
ns-1,3-Dichloropropene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
omoform	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,2,2-Tetrachloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
luene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
yl Benzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
loromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
omomethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
nyl Chloride	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
loroethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
etone	0.100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
rbon Disulfide	0.100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
nyl Acetate	0.050	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Butanone	0.100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Methyl-2-Pentanone	0.100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Hexanone	0.050	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
yrene	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
tal Xylenes	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
crylonitrile	0.200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
-Dichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
-Dichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
ans-1,4-Dichloro-2-butene	0.100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
s-1,2-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
ethyl Iodide	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
romochloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
bromomethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,1,2-Tetrachloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2,3-Trichloropropane	0.008	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2-Dibromo-3-Chloropropane(DBCP)	0.025	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
2-Dibromoethane (EDB)	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
ample Number		577716	577717	577718	577719	577720	577723	577721	577724	577725
ample Date		12/07/06	12/07/06	12/07/06	12/07/06	12/07/06	12/07/06	12/07/06	12/07/06	12/07/06
ample Time		1150	1136	1119	1105	1130	1130	1200	0600	0840
urrogate recoveries:		%	%	%	%	%	%	%	%	%
lbromofluoromethane		106	106	104	110	106	108	109	108	105
oluene-D8		98	98	99	98	101	101	100	98	99
bromofluorobenzene		97	100	99	98	98	100	99	98	96

pg/l = milligrams per Liter = parts per million

BQL = Below Quantitation Limit

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

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

Table 1 - Volatile Organic Analysis (Appendix I-Subtitle D) for Selected Monitoring Wells at the Wilkes County - Roaring River Landfill - 07 December 2006

Volatile Organics EPA Method 8260 Parameter	**Quantitation Limits (mg/L)**	**MW-18 (mg/L)**
Methylene Chloride	0.005	BQL
Trichlorofluoromethane	0.005	BQL
1,1-Dichloroethene	0.005	BQL
1,1-Dichloroethane	0.005	BQL
Chloroform	0.005	BQL
Carbon Tetrachloride	0.005	BQL
1,2-Dichloropropane	0.005	BQL
Trichloroethene	0.005	BQL
Dibromochloromethane	0.005	BQL
1,1,2-Trichloroethane	0.005	BQL
Tetrachloroethene	0.005	BQL
Chlorobenzene	0.005	BQL
Trans-1,2-Dichloroethene	0.005	BQL
1,2-Dichloroethane	0.005	BQL
1,1,1-Trichloroethane	0.005	BQL
Bromodichloromethane	0.005	BQL
Cis-1,3-Dichloropropene	0.005	BQL
Benzene	0.005	BQL
Trans-1,3-Dichloropropene	0.005	BQL
Bromoform	0.005	BQL
1,1,2,2-Tetrachloroethane	0.005	BQL
Toluene	0.005	BQL
Ethyl Benzene	0.005	BQL
Chloromethane	0.005	BQL
Bromomethane	0.010	BQL
Vinyl Chloride	0.005	BQL
Chloroethane	0.010	BQL
Acetone	0.100	BQL
Carbon Disulfide	0.100	BQL
Vinyl Acetate	0.050	BQL
2-Butanone	0.100	BQL
4-Methyl-2-Pentanone	0.100	BQL
2-Hexanone	0.050	BQL
Styrene	0.010	BQL
Total Xylenes	0.005	BQL
Acrylonitrile	0.200	BQL
1,2-Dichlorobenzene	0.005	BQL
1,4-Dichlorobenzene	0.005	BQL
Trans-1,4-Dichloro-2-butene	0.100	BQL
Cis-1,2-Dichloroethene	0.005	BQL
Methyl Iodide	0.010	BQL
Bromochloromethane	0.005	BQL
Dibromomethane	0.010	BQL
1,1,1,2-Tetrachloroethane	0.005	BQL
1,2,3-Trichloropropane	0.008	BQL
1,2-Dibromo-3-Chloropropane(DBCP)	0.025	BQL
1,2-Dibromoethane (EDB)	0.005	BQL
Sample Number		577722
Sample Date		12/07/06
Sample Time		1150
Surrogate recoveries:		**%**
Dibromofluoromethane		104
Toluene-D8		98
4-bromofluorobenzene		98

mg/L = milligrams per Liter = parts per million

BQL = Below Quantitation Limits

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

Table 1 - Volatile Organic Analysis (Appendix I-Subtitle D) for Leachate Sample at the Wilkes County - Roaring River Landfill - 07 December 2006

Volatile Organics EPA Method 8260 Parameter	Quantitation Limits (mg/L)	Leachate (mg/L)
Methylene Chloride	0.005	BQL
Trichlorofluoromethane	0.005	BQL
1,1-Dichloroethene	0.005	BQL
1,1-Dichloroethane	0.005	BQL
Chloroform	0.005	BQL
Carbon Tetrachloride	0.005	BQL
1,2-Dichloropropane	0.005	BQL
Trichloroethene	0.005	BQL
Dibromochloromethane	0.005	BQL
1,1,2-Trichloroethane	0.005	BQL
Tetrachloroethene	0.005	BQL
Chlorobenzene	0.005	BQL
Trans-1,2-Dichloroethene	0.005	BQL
1,2-Dichloroethane	0.005	BQL
1,1,1-Trichloroethane	0.005	BQL
Bromodichloromethane	0.005	BQL
Cis-1,3-Dichloropropene	0.005	BQL
Benzene	0.005	BQL
Trans-1,3-Dichloropropene	0.005	BQL
Bromoform	0.005	BQL
1,1,2,2-Tetrachloroethane	0.005	BQL
Toluene	0.005	BQL
Ethyl Benzene	0.005	BQL
Chloromethane	0.005	BQL
Bromomethane	0.010	BQL
Vinyl Chloride	0.005	BQL
Chloroethane	0.010	BQL
Acetone	0.100	BQL
Carbon Disulfide	0.100	BQL
Vinyl Acetate	0.050	BQL
2-Butanone	0.100	BQL
4-Methyl-2-Pentanone	0.100	BQL
2-Hexanone	0.050	BQL
Styrene	0.010	BQL
Total Xylenes	0.005	BQL
Acrylonitrile	0.200	BQL
1,2-Dichlorobenzene	0.005	BQL
1,4-Dichlorobenzene	0.005	BQL
Trans-1,4-Dichloro-2-butene	0.100	BQL
Cis-1,2-Dichloroethene	0.005	BQL
Methyl Iodide	0.010	BQL
Bromochloromethane	0.005	BQL
Dibromomethane	0.010	BQL
1,1,1,2-Tetrachloroethane	0.005	BQL
1,2,3-Trichloropropane	0.008	BQL
1,2-Dibromo-3-Chloropropane(DBCP)	0.025	BQL
1,2-Dibromoethane (EDB)	0.005	BQL
Sample Number		577726
Sample Date		12/07/06
Sample Time		1115
Surrogate recoveries:		%
Dibromofluoromethane		107
Toluene-D8		99
4-bromofluorobenzene		97

mg/L = milligrams per Liter = parts per million

BQL = Below Quantitation Limits

NR = Not Requested

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

Table 2 - Inorganic Analysis (Appendix I - Subtitle D) for Selected Monitoring Wells at the Wilkes County - Roaring River Landfill - 07 December 2006

Inorganics Parameter	EPA Method	Quantitation Limit (mg/L)	MW-2 R (mg/L)	MW-5 (mg/L)	MW-7 (mg/L)	MW-8 (mg/L)	MW-9 (mg/L)	MW-9 Duplicate (mg/L)	MW-12D (mg/L)	Travel Blank (mg/L)	Field Blank (mg/L)
Arsenic	6010	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Antimony	7041	0.006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Barium	6010	0.100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Beryllium	6010	0.001	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Cadmium	6010	0.001	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Chromium	6010	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Cobalt	6010	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Copper	6010	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Lead	6010	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Nickel	6010	0.050	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Selenium	6010	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Silver	6010	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Thallium	6010	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Vanadium	6010	0.025	BQL	BQL	**0.027**	BQL	BQL	BQL	BQL	BQL	BQL
Zinc	6010	0.010	BQL	BQL	**0.120**	BQL	**0.043**	**0.055**	BQL	BQL	BQL
Sample Number			577716	577717	577718	577719	577720	577723	577721	577724	577725
Sample Date			12/07/06	12/07/06	12/07/06	12/07/06	12/07/06	12/07/06	12/07/06	12/07/06	12/07/06
Sample Time			1150	1136	1119	1105	1130	1130	1200	0600	0840

mg/L = milligrams per Liter = parts per million

BQL = Below Quantitation Limits

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

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

Table 2 - Inorganic Analysis (Appendix I - Subtitle D) for Selected Monitoring Wells at the Wilkes County - Roaring River Landfill - 07 December 2006

Inorganics Parameter	EPA Method	Quantitation Limit (mg/L)	MW-18 (mg/L)
Arsenic	6010	0.010	BQL
Antimony	7041	0.006	BQL
Barium	6010	0.100	BQL
Beryllium	6010	0.001	BQL
Cadmium	6010	0.001	BQL
Chromium	6010	0.010	BQL
Cobalt	6010	0.010	BQL
Copper	6010	0.010	BQL
Lead	6010	0.010	BQL
Nickel	6010	0.050	BQL
Selenium	6010	0.010	BQL
Silver	6010	0.010	BQL
Thallium	6010	0.005	BQL
Vanadium	6010	0.025	BQL
Zinc	6010	0.010	**0.039**

Sample Number	577722
Sample Date	12/07/06
Sample Time	1150

mg/L = milligrams per Liter = parts per million

BQL = Below Quantitation Limits

NR = Not Requested

RESEARCH & ANALYTICAL LABORATORIES, INC.
Analytical/Process Consultations

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

Table 2 - Inorganic Analysis (Appendix I - Subtitle D) for Leachate Sample at the Wilkes County - Roaring River Landfill - 07 December 2006

Inorganics Parameter	EPA Method	Quantitation Limit (mg/L)	Leachate (mg/L)
Arsenic	6010	0.010	BQL
Antimony	7041	0.006	BQL
Barium	6010	0.100	**0.103**
Beryllium	6010	0.001	BQL
Cadmium	6010	0.001	BQL
Chromium	6010	0.010	BQL
Cobalt	6010	0.010	**0.013**
Copper	6010	0.010	BQL
Lead	6010	0.010	BQL
Nickel	6010	0.050	BQL
Manganese	6010	0.005	**0.848**
Molybdenum	6010	0.020	BQL
Mercury	245.1	0.0002	BQL
Selenium	6010	0.010	BQL
Silver	6010	0.010	BQL
Thallium	6010	0.005	BQL
Vanadium	6010	0.025	BQL
Zinc	6010	0.010	**0.048**
Biochemical Oxygen Demand (BOD)	405.1	2.00	**16.3**
Total Oil & Grease	413.1	5.00	BQL
Cyanide	335.2	0.005	BQL
Total Suspended Soilds (TSS)	160.2	5.0	**36.0**

Sample Number	577726
Sample Date	12/07/06
Sample Time	1115

mg/L = milligrams per Liter = parts per million

SU = Standard Units

BQL = Below Quantitation Limits

NR = Not Requested

GROUNDWATER MONITORING FIELD LOG

Facility	Wilkes County		Personnel Present:	Comments:
	Roaring River Landfill	December 7, 2006	Glenn Price	FB @ 0840 (*MW-12S
			Joe Baskin	well casing bent -unable
Weather	36° F Clear	Date		to get bailer to water level)

Monitoring Well No..	MW-2	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.)	79.02	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.)	Unable to locate well	78.31	36.30	37.60	39.65	39.70	28.13		101.45	101.55	24.63	34.25	
Water Depth (FT.)		37.69	1.81	0	2.12	18.80	9.44		2.55	32.45	0	12.60	
Diameter (IN.)	2"	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	
Well Volume (GAL.)		6.03	0.29		0.34	3.01	1.51		0.41	5.19		2.01	
Volume (GAL.) X 3		18.09	0.86	*Well*	1.02	9.02	4.53	*Well*	1.22	15.58		6.05	
# Bails (L)		73	4	*Dry*	5	37	19	*Dry*	5	62		25	
Purge Date		12/07/06	12/07/06		12/07/06	12/07/06	12/07/06		12/7	12/07/06		12/07/06	
Purge Time (hrs.)		0953	0907		0824	0822	0832			1035		0940	
Purge Method	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	*Bailer unable*	Bailer	Bailer	Bailer	
Volume Removed (GAL.)		12.50 - Dry	0.50 - Dry		0.50 - Dry	9.25	4.75		*to contact*	3.50 - Dry		6.25	
Sampling Date		12/07/06	12/07/06		12/07/06	12/07/06	12/07/06		*water*	12/07/06		12/07/06	12/07/06
Sampling Time (hrs.)		1150	1136		1119	115	1130			1200		1150	1115
Sampling Method	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Grab-direct
pH (Standard Units)		6.70	5.12		5.80	6.23	4.88			6.72		6.72	8.33
Temperature (EC)		13.0	14.1		12.8	12.2	15.0			14.1		13.0	8.6
Conductivity (µmhos/cm)		240	38.2		85.3	78.2	57.1			324		93.7	2,330
Dissolved Oxygen (mg/L)													
Observations/Sampling		Clear	Sl. Turbid		Turbid	Clear	Clear			Clear		Turbid	Sl. Turbid

* Duplicate

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

Quality Control Summary Results for Project Identified as Roaring River Landfill (A Wilkes County Project, 07 December 2006)

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	NM
Trichlorofluoromethane	ND	N/A	N/A	N/A	NM
1,1-Dichloroethene	ND	108	113	61-145	NM
1,1-Dichloroethane	ND	N/A	N/A	N/A	NM
Chloroform	ND	N/A	N/A	N/A	NM
Carbon Tetrachloride	ND	N/A	N/A	N/A	NM
1,2-Dichloropropane	ND	N/A	N/A	N/A	NM
Trichloroethene	ND	90	95	71-120	NM
Dibromochloromethane	ND	N/A	N/A	N/A	NM
1,1,2-Trichloroethane	ND	N/A	N/A	N/A	NM
Tetrachloroethene	ND	N/A	N/A	N/A	NM
Chlorobenzene	ND	93	99	75-130	NM
Trans-1,2-Dichloroethene	ND	N/A	N/A	N/A	NM
1,2-Dichloroethane	ND	N/A	N/A	N/A	NM
1,1,1-Trichloroethane	ND	N/A	N/A	N/A	NM
Bromodichloromethane	ND	N/A	N/A	N/A	NM
Cis-1,3-Dichloropropene	ND	N/A	N/A	N/A	NM
Benzene	ND	101	101	76-127	NM
Trans-1,3-Dichloropropene	ND	N/A	N/A	N/A	NM
Bromoform	ND	N/A	N/A	N/A	NM
1,1,2,2-Tetrachloroethane	ND	N/A	N/A	N/A	NM
Toluene	ND	91	95	76-125	NM
Ethyl Benzene	ND	N/A	N/A	N/A	NM
Chloromethane	ND	N/A	N/A	N/A	NM
Bromomethane	ND	N/A	N/A	N/A	NM
Vinyl Chloride	ND	N/A	N/A	N/A	NM
Chloroethane	ND	N/A	N/A	N/A	NM
Acetone	ND	N/A	N/A	N/A	NM
Carbon Disulfide	ND	N/A	N/A	N/A	NM
Vinyl Acetate	ND	N/A	N/A	N/A	NM
2-Butanone	ND	N/A	N/A	N/A	NM
4-Methyl-2-Pentanone	ND	N/A	N/A	N/A	NM
2-Hexanone	ND	N/A	N/A	N/A	NM
Styrene	ND	N/A	N/A	N/A	NM
Total Xylenes	ND	N/A	N/A	N/A	NM
Acrylonitrile	ND	N/A	N/A	N/A	NM
1,2-Dichlorobenzene	ND	N/A	N/A	N/A	NM
1,4-Dichlorobenzene	ND	N/A	N/A	N/A	NM
Trans-1,4-Dichloro-2-butene	ND	N/A	N/A	N/A	NM
Cis-1,2-Dichloroethene	ND	N/A	N/A	N/A	NM
Methyl Iodide	ND	N/A	N/A	N/A	NM
Bromochloromethane	ND	N/A	N/A	N/A	NM
Dibromomethane	ND	N/A	N/A	N/A	NM
1,1,1,2-Tetrachloroethane	ND	N/A	N/A	N/A	NM
1,2,3-Trichloropropane	ND	N/A	N/A	N/A	NM
1,2-Dibromo-3-Chloropropane(DBCP)	ND	N/A	N/A	N/A	NM
1,2-Dibromoethane (EDB)	ND	N/A	N/A	N/A	NM

COMMENTS: **577716-26**

Corresponding Samples:

% = Percent

ND = Non Detected

N/A = Not Available

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

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, 07 December 2006)

Inorganics Appendix I Parameter	Prep. Blank %	ICV Recovery %	CCV Recovery %	LCS Recovery %	Spike Recovery %	Difference
Arsenic, Total	BDL	96.1	102 103 102 103	83.9	102	0
Antimony, Total	BDL	107	104 106 106 110	88.8	92.5	0
Barium, Total	BDL	105	101 102 102 103	83.1	98.4	1
Beryllium, Total	BDL	101	100 100 102 103	91.4	101	0
Cadmium, Total	BDL	98.4	101 102 101 102	80.8	96.8	0
Chromium, Total	BDL	100	98.6 99.9 103 104	80.3	99.5	0
Cobalt, Total	BDL	103	101 102 103 103	82.6	99.2	0
Copper, Total	BDL	97.3	98.9 98.9 99.6 100	80.2	100	0
Lead, Total	BDL	102	103 103 104 104	82.6	99.0	0
Nickel, Total	BDL	99.3	101 102 102 102	82.3	98.0	0
Selenium, Total	BDL	98.6	102 104 106 107	83.7	101	0
Silver, Total	BDL	98.6	99.2 99.8 100 100	81.4	95.3	0
Thallium. Total	BDL	102	101 103 102 105	81.6	99.3	0
Vanadium, Total	BDL	102	99.2 99.9 100 100	80.3	95.2	0
Zinc, Total	BDL	105	102 103 103 103	82.8	102	4

COMMENTS: 577716-26
% = Percent
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
LCS = Laboratory Control Sample
N/A = Not Available

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

ANY: Wilkes County
T ADDRESS:
STATE, ZIP:
ACT: PHONE:

JOB NO.:
PROJECT: Roaring River Landfill
SAMPLER NAME (PLEASE PRINT): Glenn Price
SAMPLER SIGNATURE:

WATER / WASTEWATER | MISC.

LE NUMBER (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
77716	12/7/06	1150		✓				W	MW-2R	5	4							1						* see Remarks
717		1136		✓				W	MW-5	5	4							1						
718		1119		✓				W	MW-7	5	4							1						
719		1105		✓				W	MW-8	5	4							1						
720		1130		✓				W	MW-9	5	4							1						
721		1200		✓				W	MW-12D	5	4							1						
722		1150		✓				W	MW-18	5	4							1						
723		1130		✓				W	Duplicate	5	4							1						
724		0600		✓				W	TB	5	4							1						
725		0840		✓				W	FB	5	4							1						
77726	✓	1115		✓				W	Leachate		4			2	1			1	1					* Remarks + Hg, Mn, OG, CN, BOD, TSS, Mo

QUISHED BY	DATE/TIME	RECEIVED BY
	12/7/06	
QUISHED BY	DATE/TIME	RECEIVED BY
	12-7-06 14:45	Melissa Bennett

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

SAMPLE TEMPERATURE AT RECEIPT 2°C on ice

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

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

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	WATER / WASTEWATER: 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)	MISC.	REQUESTED ANALYSIS
577716	12/7/06	1150		✓				W	MW-2R	5		4						1				* See Remarks
717		1136		✓				W	MW-5	5		4						1				
718		1119		✓				W	MW-7	5		4						1				
719		1105		✓				W	MW-8	5		4						1				
720		1130		✓				W	MW-9	5		4						1				
721		1200		✓				W	MW-12D	5		4						1				
722		1150		✓				W	MW-18	5		4						1				
723		1130		✓				W	Duplicate	5		4						1				
724		0600		✓				W	TB	5		4						1				
725		0840		✓				W	FB	5		4						1				
577726	✓	1115		✓				W	Leachate			4			2	1		1	1			* Remarks + Hg, Mn, OG, CN, BOD, TSS, Mo

RELINQUISHED BY	DATE/TIME	RECEIVED BY
	12/7/06	
RELINQUISHED BY	DATE/TIME	RECEIVED BY
	12-8-06 14:45	Melissa Bennett

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

SAMPLE TEMPERATURE AT RECEIPT ___ °C on ice