

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):

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

Name: Dennis F. Tyndall, P.G.

Phone: (704) 336-5454

E-mail: Dennis.Tyndall@MecklenburgCountyNC.gov

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Harrisburg Road Landfill	7819 Harrisburg Road, Charlotte NC	60-01	0.500	December 13,14,17 &18, 2007 & January 2, 2008

Environmental Status: (Check all that apply)

- Initial/Background Monitoring Detection Monitoring Assessment Monitoring Corrective Action

Type of data submitted: (Check all that apply)

- Groundwater monitoring data from monitoring wells Methane gas monitoring data
 Groundwater monitoring data from private water supply wells Corrective action data (specify) _____
 Leachate monitoring data Other(specify) _____
 Surface water monitoring data

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.

Dennis F. Tyndall, P.G.

Hydrogeologist

(704) 336-5454

Facility Representative Name (Print)

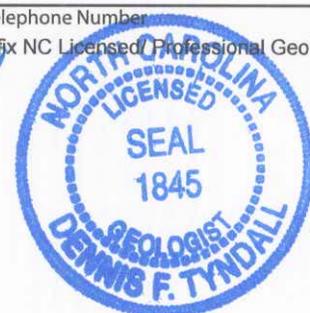
Title

(Area Code) Telephone Number

Affix NC Licensed Professional Geologist Seal

Signature

Date





MECKLENBURG COUNTY
Land Use and Environmental Services Agency
Water and Land Resources

March 4, 2009

Ms. Jaclynne Drummond
North Carolina Department of Environment
and Natural Resources
Division of Waste Management
Groundwater Compliance Unit
Mail Service Center 1646
Raleigh, NC 27699-1646

Subject: Water Quality Monitoring Report
Harrisburg Road Landfill, Permit 60-01

Dear Ms. Drummond:

Mecklenburg County conducted semi-annual water quality monitoring at the closed Harrisburg Road Landfill in December 2007 and January 2008 in accordance with the approved revised sample and analysis plan dated May 11, 2004. Surface water sampling was delayed until January 2007 due to rainfall in December. This report details the results of that monitoring event. Laboratory data, field data and a summary table of values exceeding standards are contained on the electronic data deliverable (EDD) submittal on the enclosed CD.

Samples were collected from five monitoring wells (HBW17B, HBW-20, HBW-21, HBW-22, HBW-28), two potable wells (HBW744 and CLUBHS) and, three surface-water sampling locations (HB2006, HB2008 and, HB2010). Wells HBW12B and HBW14 were not sampled due to insufficient water in the wells.

The monitoring data in the EDD is labeled to reflect the units that are used for reporting. Detection levels and applicable standards have been included for all sampling locations. Surface water standards listed are the water quality standards established for freshwater classification for aquatic life as outlined in 15A NCAC 2B "Classification and Water Quality Standards Applicable to Surface Waters of North Carolina". Groundwater standards listed are the standards outlined in 15A NCAC 2L "Classification of Water Quality Standards applicable to the Groundwaters of North Carolina". Results exceeding water quality standards along with a preliminary explanation of the cause and significance are included.

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www.co.mecklenburg.nc.us/coenv

Surface water samples:

Copper was detected between 2.9 and 4.6 ug/l in the three surface water samples below the 2B Standard of 7 ug/l. Nickel was detected at 2.8 and 2.0 ug/l respectively in the samples collected from HB2006 and HB2010 below the 2B Standard of 88ug/l. No other metals or any VOCs were detected in the surface-water samples. All field-measured parameters were within the established regulatory limits. The table below summarizes field-measured parameters for surface-water samples.

Sample Location	Temp. (°C)	pH	Specific Conductivity (umho/cm)	Dissolved Oxygen (mg/l)
HB2006	5.56	7.74	169	7.83
HB2008	5.12	7.78	212	7.89
HB2010	4.14	7.56	215	7.94

Groundwater samples:

Chromium was detected at 97 ug/l in the sample collected from HBW-22 above the 2 L Standard of 50 ug/l. No other metals were detected above the 2L Standard in any other samples. The table below summarizes metals detections in groundwater samples.

Well ID	Cr ug/l	Co ug/l	Cu ug/l	Ni ug/l	Vn ug/l	Zn ug/l
CLUBHS	-----	-----	-----	-----	-----	69
HBW744	-----	-----	18	-----	5.5	14
HBW17B	-----	19	43	-----	7.8	28
HBW-20	-----	-----	3.0	-----	8.3	-----
HBW-21	-----	-----	5.8	-----	8.8	11
HBW-22	97	-----	19	12	9.3	-----
HBW-28	14	28	44	-----	35	27
2L Std.	50	-----	1,000	100	-----	1,050

Note: Bolded values exceed 2L Std.

The following nine volatile organic compounds (“VOCs”) were detected in HBW17B:

VOC	Sample Result ug/l	2L Standard ug/l
Acetone	19	700
1,1-Dichloroethane	21	70
1,2-Dichloropropane	11	0.51
Benzene	17	1
cis-1,2 Dichloroethene	120	70
Tetrachloroethene	78	0.7
Trichloroethene	51	2.8
Vinyl Chloride	10	0.015
Xylenes (total)	27	530

Note: Bolded values exceed 2L Std.

VOCs were not detected in any other groundwater samples.

Field-measured parameters for groundwater samples are summarized in the table below:

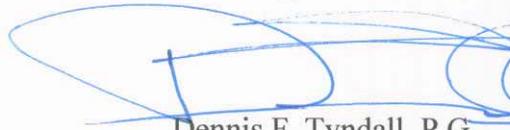
Sample Location	Temp. °C	pH	Specific Conductivity (umho/cm)
HBW17B	15.2	4.93	58
HBW-20	16.6	6.36	93
HBW-21	15.5	5.85	604
HBW-22	15.6	6.34	74
HBW-28	16.6	5.65	23
HBW744	16.2	6.75	202
CLUBHS	16.0	6.60	82

NOTE: HBW-28 is a background well

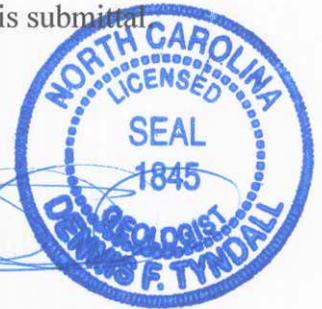
Measurements of pH were more acidic than the 2L Standard range in samples collected from all monitoring wells including background well HBW-28.

Please call me at (704) 336-5454, if you have any questions regarding this submittal

Sincerely,



Dennis F. Tyndall, P.G.
Hydrogeologist
Groundwater and Wastewater Services



cc: Amber Lindon, P.G., Mecklenburg County LUESA Solid Waste Management

