

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

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

Name: Van Burbach Ph.D., P.G.

Phone: (336) 323-0092

E-mail: vburbach@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Germantown Landfill Wilkes County	Mailing Address: 580 Poplar Grove Road Wilkesboro NC, 28697	97-01	.0500	April 9, 2015

### 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 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.

G. Van Ness Burbach Ph.D., P.G.

Technical Consultant

(336) 323-0092

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Signature

Date

Affix NC Licensed Professional Geologist Seal

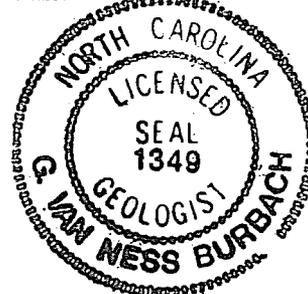
2211 West Meadowview Rd. Suite 101, Greensboro, NC 27407

Facility Representative Address

C-0782

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009





2211 West Meadowview Rd.  
Greensboro, NC 27407

tel: 336/323-0092  
fax: 336/323-0093

[www.JoyceEngineering.com](http://www.JoyceEngineering.com)

April 13, 2015

Mr. Ervin Lane  
Compliance Hydrogeologist  
Division of Waste Management/Solid Waste Section  
1646 Mail Service Center  
Raleigh, NC 27699-1646

**RE: Wilkes County Germantown Landfill, Permit Number 97-01  
Second Quarterly Gas Monitoring Results of 2015  
JOYCE Project No. 356.1501.12, Task No. 03**

Dear Ervin:

Attached are the results from the April 9, 2015, second quarterly monitoring event at the Wilkes County Germantown Landfill, Permit Number 97-01. During this event, Joyce Engineering (JOYCE) monitored three gas probes and three on-site structures for the presence of landfill gas. Methane was detected above the lower explosive limit (LEL) in gas probe GP-1. No methane was detected in any of the other gas probes or on-site structures during this monitoring event. A copy of the monitoring results will be placed in the records for this facility. If we can provide any additional information, please call Van Burbach or myself at (336) 323-0092.

Sincerely,  
**JOYCE ENGINEERING**

A handwritten signature in blue ink that reads "Daniel S. Girdner".

Daniel S. Girdner  
Staff Consultant

Attachments: EMRF  
Table of Detections and Table of Exceedances  
Landfill Gas Monitoring Log  
Site Map

C: Kent Brandon, Solid Waste Director

**TABLE 1: Methane Detections**

<b>Date</b>	<b>Location</b>	<b>CH<sub>4</sub> (% LEL)</b>	<b>CH<sub>4</sub> (% Volume)</b>
4/9/2015	GP-1	818	40.9

**TABLE 2: Exceedances of the LEL**

<b>Date</b>	<b>Location</b>	<b>CH<sub>4</sub> (% LEL)</b>	<b>CH<sub>4</sub> (% Volume)</b>
4/9/2015	GP-1	818	40.9

CH<sub>4</sub> = Methane

LEL = Lower Explosive Limit for Methane

LEL = 5% by volume at standard temperature and pressure

## Landfill Gas Monitoring Data Form

Facility Name: Germantown Closed Landfill  
 Date of Sampling: 04/09/15  
 Gas Monitor Type & Serial Number: GEM 2000 GM05194  
 Field Calibration Date & Time: 4/9/2015 14:05  
 General Weather Conditions: Sunny, 70s

Permit Number: 97-01  
 Personnel: D. Girdner, G. Eller  
 Calibration Date: 11/14/14  
 Calibration Gas Type: 50% CH4  
 Barometer : 28.98 In-Hg

Location or LFG Well ID	Instr. purged	Time	Probe Pressure (InWg)	Time Pumped (sec.)	CH <sub>4</sub> (% Vol)	CH <sub>4</sub> (%LEL)	Limit (%LEL)	Notes
GP-1	Y	1435	0.03	60	40.9	818.0	100.0	
GP-2	Y	1415	0.00	60	0.0	0.0	100.0	
GP-4	Y	1427	0.01	60	0.0	0.0	100.0	
Barn	Y	1421	-	Continuous	0.0	0.0	25.0	
Garage	Y	1425	-	Continuous	0.0	0.0	25.0	
Office	Y	1430	-	Continuous	0.0	0.0	25.0	

Abbreviations: LEL= Lower Explosive Limit  
 GP = Boundary Probe  
 BP= Barhole Probe



PROJECT NO. <b>356.1102.12</b>	GERMANTOWN LANDFILL WILKES COUNTY, NORTH CAROLINA		2211 W. MEADOWVIEW ROAD GREENSBORO, NC 27407 PHONE: (336) 323-0092 NC CORP LIC: C-0782	DESIGNED HRW DRAWN HRW CHECKED ACE APPROVED GVB DATE 6/12/12	<table border="1"> <thead> <tr> <th>DATE</th> <th>REVISIONS AND RECORD OF ISSUE</th> <th>NO</th> <th>BY</th> <th>CK</th> <th>APP</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP																																																						
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SCALE <b>AS SHOWN</b>	<b>LANDFILL GAS MONITORING PLAN</b>		© 2012 Joyce Engineering, Inc. All rights reserved.																																																														
DRAWING NO. <b>LF-G-1</b>																																																																	