



2211 West Meadowview Rd.  
Greensboro, NC 27407

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

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

May 2, 2014

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 2014  
JOYCE Project No. 356.1301.12, Task No. 06**

Dear Kent:

Attached to this letter is the landfill gas monitoring log from the April 29, 2014, 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 BP-1. No methane was detected in any of the other gas probes or in the 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 me or Van Burbach at (336) 323-0092.

Sincerely,  
**JOYCE ENGINEERING**

A handwritten signature in cursive script, appearing to read "Amanda Freeman".

Amanda Freeman  
Field Consultant

Attachments: Landfill Gas Monitoring Log

C: Kent Brandon, Solid Waste Director

**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: Larry Hinline, P.G. Phone: (336) 323-0092  
 E-mail: lhinline@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 29, 2014

**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

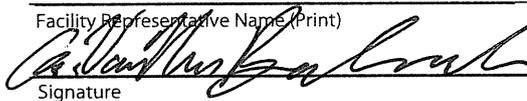
**Notification attached?**

- 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 \_\_\_\_\_  
 5/2/14  
 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)

### Landfill Gas Monitoring Data Form

Facility Name: Germantown Closed Landfill Permit Number: 97-01  
 Date of Sampling: 04/29/14 Personnel: D. Girdner/ A. Freeman  
 Gas Monitor Type & Serial Number: GEM 5000 #G5000636 Calibration Date: 03/25/14  
 Field Calibration Date & Time: 4/29/14 @ 11:50 Calibration Gas Type: Fresh air calibrated  
 General Weather Conditions: Light rain, 60's Barometer: 28.69 In-Hg

Location or LFG Well ID	Instr. purged	Time	Probe Pressure (In Wg)	Time Pumped (sec.)	CH <sub>4</sub> (%Vol)	CH <sub>4</sub> (%LEL)	Limit (%LEL)	Notes
BP-1	Y	12:20	-0.04	45	3.0	60.0	100.0	
BP-2	Y	11:50	0.04	45	0.0	0.0	100.0	
BP-4	Y	12:05	0.07	45	0.0	0.0	100.0	
Barn	Y	11:53	-	Continuous	0.0	0.0	25.0	
Garage	Y	11:55	-	Continuous	0.0	0.0	25.0	
Office	Y	12:10	-	Continuous	0.0	0.0	25.0	

Abbreviations: LEL= Lower Explosive Limit  
 BP = Boundary Probe  
 BH = Bar-hole