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July 22, 2013

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

**RE: Wilkes County Dan Johnson Landfill, Permit No. 97-02  
Third Quarterly Gas Monitoring Results of 2013  
JOYCE Project No. 356.1201.12, Task No. 04**

Dear Kent:

Attached to this letter is the landfill gas monitoring log from the July 22, 2013, third quarterly event at the Wilkes County Dan Johnson Landfill, Permit Number 97-02. During this event, Joyce Engineering (JOYCE) monitored three gas probes for the presence of landfill gas. Methane was detected above the lower explosive limit (LEL) in gas probe GP-2. A bar-hole probe for GP-2 (BH-2A) was used 50 ft. towards the boundary of the landfill in which no methane was detected. No methane was detected in any of the other gas probes during this monitoring event. Please place a copy of the monitoring results in the records for this facility. If we can provide any additional information, please call me or Larry Hinline at (336) 323-0092.

Sincerely,  
**JOYCE ENGINEERING**

A handwritten signature in cursive script that reads "Adam Cox".

Adam Cox  
Field Consultant

Attachments: Landfill Gas Monitoring Log

C: Kent Brandon, Solid Waste Director

**Landfill Gas Monitoring Data Form**

Facility Name: Dan Johnson Closed Landfill Permit Number: 97-02  
 Date of Sampling: 07/22/13 Personnel: A. Cox  
 Gas Monitor Type & Serial Number: RKI GX-2003 Calibration Date: 01/30/13  
 Field Calibration Date & Time: 7/22/2013 1335 Calibration Gas Type: 2.5% CH4, exp. 5-2013  
 General Weather Conditions: P. Cloudy 80's Barometer: 29.99 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  |
|-------------------------|---------------|------|-----------------------|--------------------|------------------------|------------------------|--------------|--|
| BP-1                    | Y             | 1409 | 0.000                 | 30                 | 0.0                    | 0.0                    | 100.0        | Bar-hole probe 50' towards boundary, no detections |
| BP-2                    | Y             | 1343 | 0.540                 | 30                 | 39.0                   | 0.0                    | 100.0        |  |
| BP-3                    | Y             | 1359 | 0.000                 | 30                 | 0.0                    | 0.0                    | 100.0        |  |
| BH-2A                   | Y             | 1345 | 0.000                 | 30                 | 0.0                    | 0.0                    | 100.0        |  |

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



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

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:<br>(.0500 or .1600) | Actual sampling dates (e.g.,<br>October 20-24, 2006) |
|---------------------------------------|--|-------------------|---------------------------------------|--|
| Dan Johnson Landfill<br>Wilkes County | Mailing Address: 9219 Elkin Highway<br>Roaring River, NC 28669 | 97-02             | .0500                                 | July 22, 2013  |

### 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.

Larry Hinline, P.G.

Technical Consultant

(336) 323-0092

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

Affix NC Licensed Professional Geologist Seal

Signature

Date

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

