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February 22, 2013

Ms. Jackie Drummond
North Carolina Department of Environment and Natural Resources
Division of Waste Management, Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

**RE: Landfill Gas Monitoring Report
LFG Monitoring - February Event of 2013
Town of Kernersville Closed Landfill, Permit No. 34-04
JOYCE Project No. 838.1201.12, Task No. 03**

Dear Ms. Drummond:

Please find attached a Landfill Gas Monitoring Log and an EMRF for a monitoring event that occurred on February 22, 2013 at the Closed Town of Kernersville Landfill (Permit number 34-04). Methane monitoring for this event was conducted as proposed by JOYCE on behalf of the Town of Kernersville in accordance with approved *Landfill Gas Monitoring Plan*—dated July 17, 2012. A new permanent gas probe, GW-2R, was installed and monitored on February 22, 2013, and is intended to replace the recently damaged gas probe, GW-2. Methane was detected in gas monitoring probes GW-1, GW-2R, and GW-3 above the LEL on this date. If you have any further questions, please contact me at (336) 323-0092. Thank you.

Sincerely,
JOYCE ENGINEERING

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

Adam Cox
Field Consultant

Copy: Thad Buck, Town of Kernersville

Landfill Gas Monitoring Data Form

Facility Name: Town of Kernersville Permit Number: 34-04
 Date of Sampling: February 22, 2013 Personnel: A. Cox
 Gas Monitor Type & Serial Number: GEM 2000; GM05194 Calibration Date: August 17, 2012
 Field Calibration Date & Time: 2/22/2013 10:50 Calibration Gas Type: 50% CH4, exp. 5-2013
 General Weather Conditions: Light rain, 40's°F Barometer: 30.25 In-Hg

Location or ID	Time	Probe Pressure (In-Wg)	Instr. sample tube purged	Time Pumped (sec.)	Initial %LEL	Stabilized %LEL	CH ₄ (%Vol)	Notes
GW-1	1136	-0.020	Y	30	696	696	34.8	
GW-2R	1055	0.050	Y	30	898	898	44.9	
GW-3	1206	-5.410	Y	30	262	262	13.1	
GW-4	1158	0.000	Y	30	0	0	0	
GW-5	1147	-6.120	Y	30	10	10	0.5	replacement probe for GW-2

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: G. Van Ness 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)
Town of Kernersville Landfill	Freeman Road Kernersville, NC 27284	34-04	.0500	February 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.

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

Technical Consultant

(336)-323-0092

Facility Representative Name (Print)

Title

(Area Code) Telephone Number

G. Van Ness Burbach
Signature

2/22/13
Date

Affix NC Licensed Professional Geologist Seal

2211 W. Meadowview Rd. Ste. 101, Greensboro, NC 27407

Facility Representative Address

C-0782

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

Revised 6/2009

