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July 22, 2013

Mr. Kent Brandon  
Solid Waste Director  
Wilkes County Department of Solid Waste  
P.O. Box 389  
Roaring River, NC 28669

**RE: Wilkes County Roaring River Landfill, Permit Number 97-04  
Third Quarterly landfill 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 Roaring River Landfill, Permit Number 97-04. During this event, Joyce Engineering (JOYCE) monitored four gas probes and two on-site structures for the presence of landfill gas. Methane was not detected in the boundary probes or in the on-site structures during this monitoring event. Please place a copy of the monitoring results in the records for this facility.

As previously documented, gas probe GP-4 was accidentally destroyed by facility equipment. Upon meeting with Ervin Lane of the Solid Waste Section on February 29, 2008, it was determined that the destroyed gas probe GP-4 did not need to be replaced unless methane detections in boundary probes exceed the lower explosive limit. If we can provide any additional information, please call me or Larry Hine at (336) 323-0092.

Sincerely,  
**JOYCE ENGINEERING**

Adam Cox  
Field Consultant

Attachments: Landfill Gas Monitoring Log

### Landfill Gas Monitoring Data Form

Facility Name: Roaring River Landfill Permit Number: 97-04  
 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 1000 Calibration Gas Type: 2.5% CH4, exp. 5-2013  
 General Weather Conditions: P. Cloudy 70's Barometer: 29.99 In-Hg

Location or LFG Well ID	Instr. purged	Time	Probe Pressure (InWg)	Time Pumped (sec.)	CH <sub>4</sub> (%LEL)	CH <sub>4</sub> (%Vol)	% LEL Limit	Notes
GP-1	Y	1009	0.000	60	0.0	0.0	100.0	
GP-2	Y	1012	0.000	60	0.0	0.0	100.0	
GP-3	Y	1017	0.000	60	0.0	0.0	100.0	
GP-5	Y	1040	0.000	60	0.0	0.0	100.0	
Scale House	Y	1058	-	Continuous	0.0	0.0	25.0	
Offices/ Shop	Y	1046	-	Continuous	0.0	0.0	25.0	

Abbreviations: GP= Gas Probe  
 LEL= Lower Explosive Limit