

SCS ENGINEERS

October 1, 2009
File No. 02199312.02-2

Mr. Johnny Beal
Facility Manager
Wake County
Solid Waste Management Division
PO Box 550
Raleigh, North Carolina 27609



Subject: Landfill Gas Monitoring Results – August 19, 2009
North Wake Landfill – Wake County, North Carolina

Dear Johnny:

SCS Engineers, PC (SCS) is pleased to submit the results of the Monthly Landfill Gas (LFG) Monitoring Event, performed at the North Wake Landfill on August 19, 2009. This monitoring was performed in accordance with the updated Landfill Gas Remediation Plan, dated July 12, 2007. Correspondence serving as notification of the methane exceedance detected at LFG monitoring probes M-3 and M-16 was submitted to NCDENR on June 19, 2009. Monitoring probes M-3 and M-16 regained compliant status during the June 24, 2009 verification monitoring event. The probes remained in compliance status during the August monthly monitoring event.

SCS used a GEM-2000 Infrared Gas Analyzer to measure subsurface concentrations of methane, carbon dioxide, oxygen, balance gas, and pressure at probes M-3 and M-16, which had exhibited methane levels in excess of the regulatory limit during the second quarter probe monitoring event. The monitoring results of this monthly monitoring event are presented in Exhibit 1.

The methane concentration recorded at probes M-3 and M-16 on August 19, 2009 was below the regulatory limit of 5 percent. This is consistent with the concentrations recorded during June 24, 2009 and July 2, 2009 verification monitoring events. The sustained reduction in methane concentration is most likely attributed to the increase in applied vacuum on the LFG collection system and the LFG perimeter migration control system in the vicinity of these probes.

SCS has recorded methane concentrations in probes M-3 and M-16 below the regulatory limit of 5 percent for two (2) consecutive months. Therefore, in accordance with the updated LFG Remediation Plan, the frequency for monitoring at LFG probes M-3 and M-26 will remain monthly until the probes have established compliance for three (3) consecutive months. SCS will continue to coordinate with Wake County and WGP to monitor the active LFG perimeter migration control system performance and evaluate the impact on subsurface



**EXHIBIT 1. LANDFILL GAS MONITORING PROBES
NORTH WAKE LANDFILL - WAKE COUNTY, NORTH CAROLINA**

Date: August 19, 2009
 Project No: 02199312.02
 Weather: Sunny, 90°F

Personnel: DBK
 Equipment: GEM-2000

Monitoring Probe No.	Time (24-hr)	Methane (% vol)	Carbon Dioxide (% vol)	Oxygen (% vol)	Balance Gas (% vol)	Pressure (in-wc)
M 3	13:09	4.2	2.5	16.6	76.7	0.0
M 16	13:27	0.1	5.1	14.2	80.6	0.1

Notes: