

SCS ENGINEERS

January 26, 2010
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 – January 11, 2010
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 January 11, 2010. This monitoring was performed in accordance with the updated Landfill Gas Remediation Plan, dated July 12, 2007 and in response to exceedances monitored on December 9, 2009. Correspondence serving as notification of the methane exceedance detected at LFG monitoring probes M-3, M-4, and M-23 was submitted to NCDENR on December 17, 2009. Monitoring probes M-4 and M-23 regained compliant status during the December 10, 2009 verification monitoring event. Probe M-3 remains above the compliance threshold; however, it has been approved for probe relocation by NCDENR. Proposed replacement probe M-3R will tentatively be installed in February 2010. Probes M-4 and M-23 remained in compliance status during the January monthly monitoring event.

SCS used a GEM-2000 Infrared Gas Analyzer to measure subsurface concentrations of methane, carbon dioxide, oxygen, and balance gas at probes M-3, M-4, and M-23, which had exhibited methane levels in excess of the regulatory limit during the fourth quarter probe monitoring event. The results of this monthly monitoring event are presented in Exhibit 1.

The methane concentrations recorded at probes M-4 and M-23 on January 11, 2010 were below the regulatory limit of 5 percent. This is consistent with the concentrations recorded during the December 10, 2009 verification monitoring event. The sustained reduction in methane concentration is most likely attributed to the increase in applied vacuum implemented on December 9, 2009 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-4 and M-23 below the regulatory limit of 5 percent for one (1) month. Therefore, in accordance with the updated LFG Remediation Plan, the frequency for monitoring at LFG probes M-3, M-4, and M-23 will remain monthly until the probes have established compliance for three (3) consecutive



Mr. Johnny Beal
January 26, 2010
Page 2

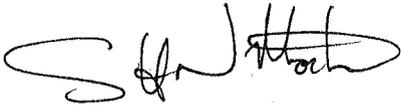
months. SCS will continue to coordinate with Wake County and WGP to monitor the active LFG perimeter migration control system performance and evaluate the impact on subsurface methane levels at the perimeter LFG monitoring probes during the next month until ongoing compliance for three (3) consecutive months is demonstrated.

If you have questions or require additional information, please feel free to contact either of the undersigned.

Sincerely,



D. Brandon King
Staff Scientist



Scott N. Mortimer
Sr. Project Professional
SCS ENGINEERS, PC

DBK/SNM:asd

cc: Jim Onofrio, WGP
Jeff Daniel, WGP
Jackie Drummond, NCDENR

Enclosure

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

Date: January 11, 2010
 Project No: 02199312.02
 Weather: Sunny, 50°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	13:42	41.5	36.7	0.6	21.2	NM
M 4	13:47	0.2	2.3	18.9	78.6	NM
M 23	13:35	0.1	0.8	19.9	79.2	NM

Notes: NM = Not Monitored

