



North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor
Dee Freeman, Secretary

March 15, 2012

Sent Via Email – majones@hendersoncountync.org

Mr. Marcus Jones
Henderson County
Director of Engineering
802 Stoney Mountain Road
Hendersonville, NC 28791

Re: *Landfill Gas Monitoring Plan*
Henderson County Closed Stand Alone C&D Landfill
Solid Waste Section Permit Number 45-01
DIN 16312

Dear Mr. Jones:

The Solid Waste Section has completed a review of the *Landfill Gas Monitoring Plan* dated January 20, 2012 (DIN 16100) and submitted on behalf of Henderson County by Golder Associates NC, Inc. for the Closed Stand Alone C&D Landfill. The *Landfill Gas Monitoring Plan* was submitted in accordance with 15A NCAC 13B .0544(d) and pursuant to the letter issued by the Solid Waste Section on May 12, 2011.

The *Landfill Gas Monitoring Plan* includes the installation of three landfill gas monitoring wells (LFG-101, LFG-102, and LFG-103) located to the south of the landfill. Per the *Landfill Gas Monitoring Plan*, based upon the topography and physical features, potential landfill gas is expected to migrate to the south and southwest, therefore the landfill gas monitoring wells are proposed to be located south of the landfill. The landfill gas monitoring wells will be constructed to a depth equivalent to the top of bedrock unless groundwater is encountered above bedrock. In addition, the top of the PVC riser will be equipped with a well cap with a stopcock valve or quick connect coupling.

Landfill gas monitoring will occur on a quarterly basis in accordance with 15A NCAC 13B .0544(d)(2). No on-site structures are present within the vicinity of the Closed Stand Alone C&D Landfill, therefore no structures will be monitored during the quarterly landfill gas monitoring events for the Closed C&D Landfill.

In the event that the explosive action level or compliance level is exceeded, the landfill gas monitoring frequency will increase to monthly until three consecutive months have passed without a methane action level or compliance level exceedance, at which time the monitoring frequency will revert back to quarterly monitoring. In addition, pursuant to 15A NCAC 13B .0544(d)(3), within 60 days of an exceedance, the County will implement a remediation plan for the explosive gas release.

1

As a result, the *Landfill Gas Monitoring Plan* is approved as described. Please implement the *Landfill Gas Monitoring Plan* within 30 days of receipt of this letter. If you have any questions or concerns regarding this letter, please contact me at 919-707-8294 or by email at jaclynne.drummond@ncdenr.gov. Thank you for your continued cooperation with this matter.

Sincerely,



Jaclynne Drummond
Compliance Hydrogeologist
Solid Waste Section

cc via email: Mark Poindexter, Field Operations Supervisor
Jason Watkins, Western District Supervisor
Andrea Keller, Environmental Senior Specialist
Elizabeth Werner, Permitting Hydrogeologist
Larry Frost, Permitting Engineer