



North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

November 6, 2009

Mr. Joel Lenk, Project Manager
Altamont Environmental, Inc.
231 Haywood Street
Asheville, North Carolina 28801

RE: Landfill Gas Monitoring Plan
Proposed Landfill Gas Monitoring Probe Locations
Closed International Paper Company Landfill #5
Permit #44-01, Canton, North Carolina
DIN # 8873

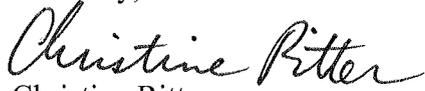
Dear Mr. Lenk:

The North Carolina Solid Waste Section has reviewed the map provided by Altamont Environmental, Inc. on behalf of International Paper Company illustrating proposed locations for landfill gas monitoring probes at Closed Landfill #5 (including areas 5A, 5B, and 5C). The total proposed number of **two** landfill gas monitoring probes identified on the map is inadequate to monitor the potential location and migration of landfill gas at Closed Landfill #5. The NC Solid Waste Section (SWS) is currently in the process of updating guidance for the installation of landfill gas monitoring systems and implementation of landfill gas monitoring programs at solid waste management facilities. The NC Solid Waste Section recommends that landfill gas monitoring probes at unlined landfills be installed around the perimeter of the entire landfill at 500-foot intervals. The recommended point of compliance for the location of the landfill gas monitoring probes is no more than 250 feet from a waste boundary and at least 50 feet within the property boundary. Additionally, if the vadose zone or soil column above the water table at any given location is greater than 30 feet, the SWS recommends that landfill gas monitoring probes be installed as clustered well pairs, i.e., a shallow landfill gas probe with a screened interval in the upper portion of the soil column and a deeper landfill gas probe with a screened interval in the lower portion of the soil column.

Landfill Area 5B of the closed landfill has already been developed and is currently used for recreational purposes with baseball fields, concession stands and other associated structures, and future development of Landfill Area 5C include plans for a Livestock Market and Events Center. As public safety is a primary concern at this landfill, the SWS is providing the above guidelines to ensure that a landfill gas monitoring system is installed at the landfill which protects human health and safety.

If you have any questions, please contact me at (919) 508-8506 or by e-mail at christine.ritter@ncdenr.gov.

Sincerely,

A handwritten signature in cursive script that reads "Christine Ritter".

Christine Ritter
Hydrogeologist, Permitting Branch
NC Solid Waste Section

Cc: Tom Richardson-International Paper
Allen Gaither, Engineer, SWS, ARO
Ed Mussler, Permitting Branch Head, SWS
Andrea Keller, Field Operations Branch, SWS, ARO