



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

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

February 8, 2010

Mr. Tom Miller
Solid Waste Director
P.O. Box 3289
130 S. Queen Street
Kinston, North Carolina 28501

Re: Technical Review Letter
Design Hydrogeologic Report
Lenoir County MSW Landfill, Phase 2
LaGrange, Lenoir County, North Carolina
Permit No. 54-09, Document ID No. 9564

Dear Mr. Miller:

The North Carolina Solid Waste Section has completed a technical review of the November 2009 Hydrogeologic Study of the Lenoir County MSW Landfill Phase 2 expansion. The Section engineer will send comments on the Permit to Construct under separate cover. Comments on the Design Hydrogeologic Study are as follows:

Wetlands

The April 29, 2002 wetlands determination issued by The U.S. Army Corps of Engineers for the Lenoir County Landfill has expired. The determination states "any changes in the described work resulting in impacts to jurisdictional waters or wetlands or any new work in jurisdictional waters or wetlands outside the area described must be coordinated with Corps of Engineers prior to commencement." Please provide information regarding the impact of landfill expansion activity on the wetlands located at the facility and include an updated wetland determination if necessary.

Section 1.2.1 Drainage

This section includes a statement that "At the landfill facility, surface drainage flows northwesterly towards Fredricks Branch, which flows northeasterly into Falling Creek and subsequently into the Neuse River." There are no maps depicting locations of these drainage features at the landfill facility. Please submit maps illustrating the location of these drainage features in relationship to the landfill property and include discussion regarding influence of these drainage features on surface water and groundwater flow at the site.

Section 6 Groundwater Quality Monitoring System

In order to detect the effects of the facility on surface water in the area, surface water samples need to be collected in upgradient and downgradient locations. The single proposed surface water sampling point, SW-3, located in the wetland area in the eastern corner of the property, is insufficient to determine surface water quality across the entire landfill area. Please identify additional surface water sampling locations to accurately depict surface water quality across the site.

A Water Quality Monitoring Plan must be submitted which satisfies the rule requirements of 15A NCAC 13B .1623 (b)(3). The Groundwater and Surface Water Sampling and Analysis Plan discussed in this section and included as Appendix E of the Design Hydrogeological Report needs to be updated to adhere to the Solid Waste Section Guidelines for Groundwater, Soil and Surface Water Sampling located at <http://www.wastenotnc.org/swhome/EnvMonitoring/SolidWasteSamplingGuidance>. This guidance document has been updated in the period of time since the last permit was issued for this site.

If you have any questions, you may contact me at (919)508-8506.

Sincerely,



Christine Ritter
Hydrogeologist
Solid Waste Section

Cc: Mark Brown, Municipal Engineering Services Company
Ming-Tai Chao, DWM
Ed Mussler, DWM
Wes Hare, DWM