



North Carolina Department of Environment and Natural Resources

Division of Waste Management

Dexter R. Matthews

Director

Beverly Eaves Perdue  
Governor

Dee Freeman  
Secretary

February 27, 2009

Ms. Joan Smyth, P.G.  
Richardson Smith Gardner & Associates  
14 N. Boylan Avenue  
Raleigh, North Carolina 27603

Subject: Additional Site Study Work Plan, Avery County C&D Landfill Expansion, Permit 06-03, Doc ID 6809

Dear Ms. Smyth:

The Solid Waste Section (SWS) approves the Additional Site Study Work Plan (plan) presented in the letter, dated February 26, 2009. The SWS met you at its central office on February 12, 2009, to discuss the plan for the site suitability study applicable to construction of landfill phases subsequent to Phase 3. Those phases are depicted in Drawing P1, Sheet 6 and Drawing P2, Sheet 7 in Appendix H of the *Revised Site Study. Avery County Landfill, Ingalls, North Carolina* (Doc ID 4444).

The area of study approximates 30 acres. The plan meets the requirement of Regulation .0538(a)(3) in which a minimum "one boring per each 10 acres" is specified. Three borings are proposed: PZ-14, PZ-15 and PZ-16. They are depicted in Figure 1 attached to the aforementioned letter. The borings can be utilized in Design Hydrogeologic Studies for later landfill construction. In these studies, boring densities are "one boring for each acre of the investigative area", pursuant to Regulation 15A NCAC 13B .0538(b)(1). Pursuant to Regulation 15A NCAC 13B .0538(a)(4)(E), include the porosity, effective porosity, and dispersive characteristic for each lithologic unit in the upper aquifer when conducting geotechnical analysis.

Please contact me if you have any questions. I can be reached at 919-508-8401 or at [zinith.barbee@ncmail.net](mailto:zinith.barbee@ncmail.net).

Sincerely,

Zinith Barbee  
Hydrogeologist  
Solid Waste Section

cc: Buddy Norris    Avery County Solid Waste - Director  
Allen Gaither    SWS/ARO  
Bill Wagner    SWS/ARO  
Ed Mussler    SWS Permitting Branch  
Central File