

October 27, 2005

**MEMORANDUM**

To: John Murray

From: Brian Wootton

RE: Final Comments - Site Study Report for North Mecklenburg C&D Landfill Expansion – Area II (23.4 acres); Design Hydrogeologic Study, Phase 1 (6.5 acres) of Area II  
Water Quality Monitoring Plan – Additional Information Requested  
Mecklenburg County  
Permit No. 60-13  
ID # P0477

I have reviewed the Site Suitability Application for proposed Area II expansion (23.4 acres) and the Groundwater and Surface Water Quality Plan. The application was received on September 15, 2005 and subsequent supporting information received on October 12, 2005, October 19, 2005, and October 26, 2005. Although there is not a separate autonomous Design Study for proposed Phase 1 (6.5 acres located within the 23.4 acre Site Study), ample information has been provided in the application in order to meet hydrogeological criteria required by .0500 Rules for both the Site Study suitability of 23.4 acres and for the Design Study suitability of 6.5 acres (Phase 1).

**Prior to construction activities commencing, the Solid Waste Section requests the following information is addressed from the permittee.**

Prior to construction of Phase 1 cell(s), all piezometers, ground-water monitoring wells, and borings, located in the proposed cell(s), are to be abandoned (sealed) by overdrilling first (exception of non-cased borings) and sealing each with cement grout according to 15A NCAC 2C .0113 (b)(1), "procedures for permanent abandonment of wells". In portions of the site where soil areas to be undercut, do not grout the wells up to pre-grade land surface, but up to proposed base grade surface in order to prevent cutting off excess vertical grout and possibly damaging the grouted wells.

Submit copies of Well abandonment records for each piezometer, ground-water monitoring well, and boring abandoned according to 15A NCAC 02C. 0114(b).

Mr. John Murray  
North Mecklenburg C&D, Expansion II, Site Study, Design Study  
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**Construction Conditions: (Include these conditions in the Permit to Construct)**

The owner's geologist shall examine the cell excavation and note any pertinent geologic features exposed during the construction process and shall notify the

Solid Waste Section Hydrogeologist of these findings prior to placement of any liner materials.

The owner's geologist shall be in the field to supervise all well installations. Any modifications to the approved water quality monitoring plan require approval by the Section Hydrogeologist. Documentation of all changes to the approved plan shall be submitted with the well construction records.

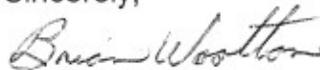
For each well constructed (i.e. ground-water monitoring wells MW-1, MW-2, and MW-3) a well construction record, well schematic, boring log, and a description of well development activities shall be submitted to the Section within 30 days of well completion. MW-4 shall be constructed such the well screen brackets the water table.

**Pre-Operational Condition: (Include this condition in the Permit to Construct)**

Ground water monitoring wells and surface water sampling locations shall be sampled for the Appendix 1 (VOC's and RCRA Metals) constituents list prior to issuing the Permit to Operate.

Please contact me with any questions or comments. I can be reached at (919) 508-8524 or by e-mail.

Sincerely,



Brian Wootton

cc: Ed Mussler, Solid Waste Section  
Central File