



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

June 12, 2007

Michael F. Easley, Governor
William G. Ross Jr., Secretary

MEMORANDUM

To: Larry Frost

From: Brian Wootton

Subject: Application for Permit to Construct,
Iredell County Subtitle D Landfill – MSW Landfill
Proposed Phase 4 Expansion
Design Hydrogeologic Study - Final Comments
Permit No. 49-03

I have reviewed the Design Hydrogeologic Study and portions of the Permit to Construct Application (pertaining to hydrogeology) for proposed Phase 4 (12 acres) Expansion for Permit to Construct. **The Study and supporting information meets the criteria required in the Rules [(i.e. 15A NCAC 13B .1623(b) and 15A NCAC 13B .1624(b)(4)]; therefore, I have no objection to issuance of this portion to Permit to Construct based on these rules.**

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

Prior to construction of cell(s), all piezometers, ground-water monitoring wells, and borings, located in the proposed cell(s), shall be properly abandoned by overdrilling first (exception of non-cased borings) and sealed with grout in accordance with 15A NCAC 2C.0113(b)(1), titled "Abandonment of Wells".

- a. In areas where soil is to be undercut, wells should not be grouted to pre-grade land surface, but to the proposed base grade surface to prevent having to cut excess grout and possibly damaging the wells.
- b. Well abandonment records for each piezometer, ground-water monitoring well and boring shall be certified by the permit holder's geologist and submitted to the Solid Waste Section in accordance with 15A NCAC 02C.0114(b).

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 ground-water monitoring 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, 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.

After well completion, provide a scaled map depicting the location of the new ground-water monitoring well(s); existing ground-water monitoring well(s), and abandoned ground-water monitoring well(s).

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

Ground water monitoring wells and surface water sampling locations associated with Phase 4 shall be sampled for the Appendix 1 constituent 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
Teresa Bradford, Solid Waste Section
Central File