NCDENR

North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

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

April 30, 2007

Mr. Jason Falls
Granville County Solid Waste Director
P.O. Box 906
Oxford, NC 27565

Re: Abandonment of Water Supply Well
Granville County Butner Landfill, Permit Number 39-02

Mr. Falls:

The Solid Waste Section (Section) has observed the presence of a water supply well within 500 feet of the Granville County Butner Landfill, Permit Number 39-02. In accordance with 15A NCAC 02C.0107 (2) (J), the minimum horizontal separation between a well, intended for a single-family residence or other non-public water system, and a sanitary landfill should be 500 feet. In order to meet the requirements of 15A NCAC 02C .0107 (2) (J), Granville County is instructed to properly abandon the water supply well using the methods outlined in 15A NCAC 02C .0113.

The purpose of the rules stated above is to prevent the spread of contamination and protect present and future users of groundwater. The Solid Waste Section is requiring assessment and remediation activities at landfills where a nearby supply well enlarged a contaminant plume and played a role in contaminating the groundwater on adjacent property. Therefore, the Section recommends that Granville County abandon the existing well and install a new one beyond 500 feet from the edge of waste in order to reduce the possibility of the well acting as a conduit for groundwater contamination and/or withdrawals from the well altering the direction of groundwater migration which may further enable the spread of groundwater contamination.

The Section is aware that Granville County will incur unexpected cost by undertaking well abandonment and replacement; however the cost associated with well abandonment and replacement is substantially less than the cost of conducting a groundwater assessment and remediation if continued use of the water supply well leads to groundwater contamination or the exacerbation and spread of existing contamination beyond the compliance boundary.

If you have any questions or need additional information please feel free to call me at (919) 508-8500 or by email at jaclynne.drummond@ncmail.net.

Sincerely,

Jaclynne Drummond
Hydrogeologist
Environmental Compliance
Solid Waste Section

cc: Mark Poindexter
Dennis Shackelford
Mary Whaley