

11

Granville Co. 39-01
1985

39011985



State of North Carolina
Department of Natural Resources and Community Development
512 North Salisbury Street • Raleigh, North Carolina 27611

James G. Martin, Governor

S. Thomas Rhodes, Secretary

May 13, 1985

MEMORANDUM

TO: Bill Meyer, Head
Solid and Hazardous Waste Management Branch

FROM: Paul Wilms, Director
Division of Environmental Management 

RE: Site Assessment for Proposed Granville County Landfill

Based on review of the proposed landfill site, the Division staff would have no objection to approval of the Providence site but would make the following observations:

- (1) The subsurface investigations conducted by both Soil Material and Engineers and Ezra Meir Associates depict conditions high variability in both the thickness of sediments overlying bedrock and depths to an established water table. When assumed areal mean seasonal high water tables (in February - March) are integrated into Figure No. 6 of the Soil Material and Engineering report, the required four (4) foot separation of landfill depth above water table may severely limit excavation depths to eight (8) feet or less in a number of areas.
- (2) The changes in water levels over short time spans in several of the test borings indicate that the partially weathered zone immediately overlying bedrock is highly transmissive zone which would rapidly transmit any leachate from the landfill to lower elevations where discharge into surface waters would be possible. Should this site be chosen, the applicant should consider that heavy compaction of the landfill base and an extensive system of monitor wells may be required to control and track leachate migration.

If you have any questions on this matter, please contact Perry Nelson at 733-5083.

cc: Perry Nelson
Lee Fleming
Robert Van Tilburg