

State of North Carolina
Department of Environment,
Health and Natural Resources
Division of Solid Waste Management

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary
William L. Meyer, Director

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To TOM WAINWRIGHT	From JIM BATESON	
Co. MCKIM & CREED	Co. SOLID WASTE	
Dept.	Phone # 733-0692 x 342	
Fax # 233-8031	Fax #	

DENINR

December 28, 1995

Mr. Tom Wainwright
McKim and Creed Engineers, P.A.
5625 Dillard Road, Suite 117
Cary, NC 27511

Fac/Perm/Co ID #	Date	Doc ID#
<i>[Signature]</i>	07/15/2011	DIN 14371

RE: Construction Plan Application, Proposed Anderson Creek
Construction and Demolition Landfill, Harnett County
Permit #43-03; Hydrogeological Considerations

Dear Mr. Wainwright,

As discussed in our December 19, 1995 meeting, the following is a summary of the work plan agreed upon in order to satisfy the requirements of 15A NCAC 13B, section .0504(1), for the Site Suitability Application, and section .0504(2), for a Construction Plan Application, for the above referenced landfill unit. The work discussed below refers, in part, to those items described in my letter of December 8, 1995, which applies to the site suitability application. Some of the requirements of section .0504(2) may be satisfied by modification of materials included in the submittal of November, 1995:

1. Property to be added to the proposed site needs to be surveyed, and a metes and bounds description of the entire new facility boundary written, such that the inclusion of this acreage can be recorded with the deed for each property involved. A copy of such a description needs to be included in the permit application.
2. We agreed on a drilling program consisting of the following wells and piezometers, to meet the needs outlined in Item 2 of the December 8, 1995 letter:
 - a. Borings equivalent to proposed MW-5 and MW-6, located about 150 feet from the planned edge of waste, and proposed MW-4, to be installed as monitoring wells. Solid Waste Section approval of the use of these wells will be contingent on the results of the currently proposed investigation.
 - b. An additional monitoring well or piezometer directly north of the proposed first five year cell, in the new buffer strip. Upon approval from the Section, this well may serve as part of the monitoring system during the first five years of operation, even though it will be further than 250 feet from the edge of waste until later phases of the unit are constructed.

Mr. Tom Wainwright
Anderson Creek C&D Landfill
Permit #43-03
December 28, 1995
Page 2.

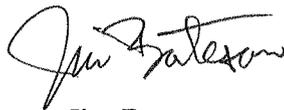
- c. A nest of two piezometers located within the proposed footprint of the first five year cell. One will be 50 feet deep, and the other screened at the surficial water table.
- d. Two piezometers midway between the proposed footprint and the creek.
- e. Two hand auger borings installed as piezometers in the bottom of the borrow area to the south of the proposed footprint. If the water table is too deep for hand auger installation, then one piezometer may be installed with a drill rig.

Locations of wells and piezometers will need to be surveyed for vertical and horizontal control. The information from these boreholes needs to be gathered and presented according to all of the requirements of .0504(1)(c), to include a new potentiometric map, and a discussion of the possible existence of multiple aquifers beneath the site. Goals include determination of groundwater flow conditions at the site, to allow design and evaluation of the proposed groundwater monitoring system, and to confirm adequate vertical separation between waste and seasonal high groundwater levels.

3. Proposed waste boundaries need to be clearly indicated on the plan sheets.
4. A water quality monitoring plan containing proposed well locations and construction specifications, and a text with details of sampling frequency and procedures, plus analytical protocols.

If you have any questions about this letter, please call me at the Solid Waste Section, (919) 733-0692, ext. 342.

Sincerely,



Jim Bateson
Hydrogeologist,
Solid Waste Section

cc: Mr. Jerry Blanchard; Harnett County
Jim Barber; Solid Waste Section
Bobby Lutfy; "