



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

March 13, 2008

Mr. Michael Chris Stahl
Macon County Solid Waste Director
109 Sierra Drive
Franklin, North Carolina 28734

Re: Assessment Review
Macon County Lined Landfill, Permit #57-03

Dear Mr. Stahl:

The Solid Waste Section (Section) has reviewed the *Report of Limited Groundwater Contamination Assessment* prepared by Bunnell-Lammon Engineering, Inc. (BLE) in December 2007.

Macon County was required to conduct a groundwater assessment due to volatile organic compound (VOC) exceedances in monitor wells, MW-1A and MW-1B. Three additional monitor wells (MW-1D, MW-5D, and MW-23) were installed to fully characterize the vertical and horizontal extent of contamination and MW-1A, MW-1B, and MW-17 groundwater samples were analyzed for Appendix II constituents. The assessment indicated that no VOCs were detected above the 15A NCAC 02L .0202 groundwater standards (2L Standards) in the newly constructed monitor wells. Bis(2-ethylhexyl)phthalate was the only Appendix II compound reported above the Solid Waste Section Limits. Based on the assessment results, BLE recommended the following:

- Amendment of the water quality monitoring plan to replace MW-5 with MW-5D
- The addition of MW-1D and MW-23 to the semi-annual monitoring plan for assessment purposes and discontinue their sampling if similar results are yielded during the next three consecutive monitoring events
- Discontinue Appendix II monitoring
- Conduct no further assessment
- Implement no corrective action

The Section's response to the recommendations is as follows:

- The water quality monitoring plan should be amended to replace MW-5 with MW-5D.
- MW-1D and MW-23 should be added to the semi-annual monitoring plan permanently. Continued monitoring of MW-1D and MW-23 is necessary to remain aware of groundwater conditions in fractured bedrock and downgradient of the facility beyond the compliance boundary.

- Appendix II monitoring should be discontinued
- The contaminant plume has been horizontally and vertically delineated and no further assessment is necessary
- The data from the assessment indicates that plume delineation is complete and contaminants of concern have been identified. However, continued 2L Standard violations at the compliance boundary warrant the need to initiate remedial actions. Since plume delineation is complete, Macon County is now in the position to evaluate, identify, and implement the proper remediative measure(s) in order to effectively reduce groundwater contamination at the site. Existing site conditions may require the use of more than one technology to correct the problem and/or may limit the use of others.

Within 90 days of receipt of this letter, submit for approval by the Section an assessment of corrective measures report in accordance with Title 15A North Carolina Administrative Code 13B, Solid Waste Management Rules and Law, Rule .1635.

Please contact me at (919) 508-8520 or by e-mail at ervin.lane@ncmail.net if you have any questions or concerns regarding this letter. Thank you in advance for your anticipated cooperation in this manner.

Sincerely,



Ervin Lane
Hydrogeologist
Environmental Compliance
Solid Waste Section

cc: Andrew Alexander, P.G., Bunnell-Lammons Engineering, Inc.
Mark Poindexter, Field Operations Supervisor
Deb Aja, Western Regional Supervisor
Troy Harrison, Environmental Senior Specialist
Solid Waste Central Files