



North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor
Dee Freeman, Secretary

June 25, 2010

MEMORANDUM

To: Solid Waste Directors, Landfill Owners/Operators, and North Carolina Certified Laboratories

From: North Carolina Division of Waste Management, Solid Waste Section

Re: Tetrahydrofuran Analysis at Construction and Demolition Landfills

Based upon historical sampling results, health and environmental concerns, and an ongoing EPA evaluation of tetrahydrofuran (THF), the Solid Waste Section (Section) is requiring, in accordance with 15A NCAC 13B .0601, that Construction and Demolition Landfills (CDLFs) begin analyzing ground and surface water samples collected after January 1, 2011 for THF. The purpose of this memorandum is to inform CDLF owners and operators and laboratories that are involved in the collection or analysis of environmental samples of this requirement.

Although the North Carolina Occupational and Environmental Epidemiology Branch previously established a health based standard for THF, there are currently no established Maximum Contaminant Levels or 15A NCAC 02L .0202 Standards due to the lack of historical toxicological data necessary to promulgate regulatory standards. However, THF analysis is currently required at CDLFs located in several states throughout the U.S. and has been shown to be a constituent of concern in groundwater at CDLFs for several years. In addition, THF has been documented as a contaminant associated with CDLF leachate.

Due to the potential health hazards associated with THF and its documented presence at CDLFs, the Section has determined that CDLFs should begin analyzing ground and surface water samples for THF to ensure protection of human health and the environment. Although regulatory standards have not yet been established for THF, its presence in groundwater must be determined in order to accurately assess the risks at each CDLF and determine if regulatory standards need to be established. The Section will reevaluate monitoring requirements for THF in the future after enough data has been collected to determine the extent of THF at C&D facilities.

Laboratories are advised to contact the Division of Water Quality-Laboratory Section-Certification Branch prior to initiating THF analysis using Method 8260.

If you have any questions or concerns, please feel free to contact Jaclynne Drummond (919-508-8500) or Ervin Lane (919-508-8516). Thank you for your continued cooperation with this matter.