

File - Landfill

DIVISION OF AIR QUALITY
December 12, 2005

MEMORANDUM

TO: Booker Pullen, Raleigh Central Office
FROM: Jamie Sellman, Meteorologist, AQAB
THROUGH: Jim Roller, Supervisor, Air Quality Analysis Branch (AQAB)
SUBJECT: Dispersion Modeling Analyses for Landfills

In response to the Landfill MACT and subsequent landfill permit applications, we have reviewed a number of modeling analyses that were conducted to evaluate NC toxic landfill emissions. Using the conservative SCREEN3 model in all but one analysis, the modeled impacts were well below the applicable AALs. As a result, we believe most, if not all landfills can be screened from future permitting modeling requirements and have developed a landfill data spreadsheet that summarizes the relevant emission and modeling variables.

For future landfill submissions, the following information will be needed to potentially screen formal modeling submittal requirements:

- a. location of landfill (city, county);
- b. emission sources by type (e.g., area, point, flare, etc.);
- c. pollutant emission rates for each source;
- d. site map identifying emission sources and property boundaries.

Once received, we will compare this data with the landfill data spreadsheet and draft an appropriate response.

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