



State of Ohio Environmental Protection Agency

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P.O. Box 1049
Columbus, OH 43216-1049

John L. Hattersley, P.E.
Rumpke Waste, Inc.
10795 Hughes Road
Cincinnati, Ohio 45251

**Re: Request for Alternate Material for Phase IIB-S2 Drainage Layer Sand
Rumpke Waste, Inc. Brown County Landfill, Brown County**

Dear Mr. Hattersley:

On September 14, 2007, the Ohio Environmental Protection Agency (Ohio EPA), Division of Solid and Infectious Waste Management, Southwest District Office received a request titled, "*Alternate Material for Phase IIB-S2 Drainage Layer Sand, Rumpke Waste, Inc. Brown County Landfill,*" dated September 13, 2007, for the Brown County Landfill located in Brown County. In the request, Rumpke proposes to use an alternate leachate collection layer material that does not meet all of the specifications of Ohio Administrative Code (OAC) Rule 3745-27-08(D)(12)(a). Specifically, Rumpke proposes to use a sand that does not meet the specific rule requirements for particle size and permeability.

Pursuant to OAC Rule 3745-27-08(D)(12)(a)(vi), an alternate material and/or thickness may be used provided that it is demonstrated to the satisfaction of the director or his authorized representative that the alternate material or thickness meets the minimum requirements of the leachate collection layer. The request contained quality control testing and frequency of testing in accordance with OAC Rule 3745-27-08(D)(12)(a)(vi), and supporting calculations. The calculations demonstrate that the proposed sand material for the leachate collection layer meets the OAC Rule 3745-27-08(C)(2)(d) design requirement for a maximum daily head value of less than one foot on the separatory liner. The calculations were determined by using the Hydrologic Evaluation of Landfill Performance (HELP) Model Version 3.07 (November 1, 1997), as developed by US Army Corps of Engineers, Waterways Experiment Station.

Ohio EPA has reviewed the request and has determined that the proposed alternate leachate collection layer material is acceptable and will provide for adequate performance of the leachate collection layer. Therefore, I hereby approve Rumpke's request to use the alternate leachate layer collection material for Phase IIB-S2 at the Brown County Landfill.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission (Commission) pursuant to Ohio Revised Code Section 3745.04. The appeal must be in writing and set forth the action complained of and the grounds upon

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which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
309 South Fourth Street, Room 222
Columbus, OH 43215

If you have any questions regarding this authorization, please contact Michael Harris of Ohio EPA, SWDO at (937) 285-6089.

Sincerely,

Chris Korleski
Director

cc: Stephen Dick, Brown County Health Department
Michael Harris, Ohio EPA, SWDO
Pat Willoughby, Ohio EPA, SWDO