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A STUDY OF METHODS TO REDUCE GROUNDWATER CONTAMINATION AROUND A LANDFILL IN KOREA

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ABSTRACT

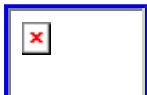
Several alternatives were studied to prevent groundwater contamination around the Kimpo landfill site in Korea using a numerical model and hydraulic parameter measurements. The leachate flow system and pollutant transport system around the landfill were analyzed using a numerical model. Alternatives utilizing dewatering wells with radial collector well laterals had low costs but resulted in low efficiency of pollutant reduction. Installing an interception wall at the circumference of the landfill was more efficient but had a high cost. Installing an interception wall to the second layer was the most stable and most economical alternative.

Reference: Kim, Gye-Nam, Jakong Koo, Joonbo Shim, Jongsik Shon, and Sungho Lee; A Study of Methods to Reduce Groundwater Contamination Around a Landfill in Korea, Journal of Environmental Hydrology, Vol. 7, Paper 10, June 1999.

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