

## **Resistivity survey and soil chemistry of unsecured landfill sites in Bukit Kemuning, Shah Alam, Selangor**

WAN ZUHAIRI, WAN YAACOB, ABDUL RAHIM SAMSUDIN, BAHAA EL-DIN EL-WALI,  
SUHARSONO, & UMAR HAMZAH.

Pusat Pengajian Sains Sekitaran dan Sumber Alam, Fakulti Sains dan Teknologi,  
Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor Darul Ehsan

The study was undertaken to highlight the suitability of the resistivity survey as a tool to investigate the migration of leachate into groundwater. The results indicate that the resistivity image corresponds very well with field data from the excavated part of this landfill. The results of soil analysis reveal that the soil below the landfill site is highly contaminated with heavy metals that originate from local industrial waste. The concentration of heavy metals increase slightly with depth and become constant after a depth of 50 cm.