

Municipal waste landfilling, a source of environment pollution

Carmen ZAHARIA* and Mioara SURPĂȚEANU

Department of Environmental Engineering and Management, Technical University of Iasi, Faculty of Chemical Engineering, 71A D.Mangeron Bvd., 700050 Iasi, Romania

Abstract One of the most important point sources of environment pollution is generated by the municipal waste landfilling. To demonstrate this fact, a Moldavian waste landfill was studied (e.g., municipal waste depositing activities and all the environment components into the landfilling area, to appreciate the pollution level in comparison with legislative norms and local environmental regulations). Following the monitoring, sample collecting and physical-chemical analysis of the environment components into the municipal waste landfilling area, a significant pollution on certain environment components, including water (e.g. ground water, surface water), air and soil was found. Almost all of the studied physical – chemical indicators into each environment components (e.g., ground and surface water, air and soil) were found close to the maximum allowable concentrations or higher than the values imposed by the national or local regulations. Thus, there are recommended practice for ecological cleaning of the area and, also, waste deposition reduction.

Keywords: municipal waste, deposition, landfill, ground water, surface water, air, soil, point source, environment pollution
