단순투기형 일반폐기물 매립장의 침출수에 의한 하부토양의 오염과 해안점토층을 이용한 폐기물 매립장의 건설가능성에 대한 연구

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Pollution Characteristics of Leachate and Underground Soil of the Landfill Site and Possibilities of Landfill Site Using Clay Layer of the Sea Shore

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Abstract

Pollution characteristics of leachate and underground soil of the two landfill sites were investigated. Domestic wastes were dumped in the two adjacent landfill sites. Only small portion of S landfill site was filled with domestic wastes at the first stage of dumping, and most portion of the site was filled with construction wastes. However Y landfill site was filled with mostly domestic wastes.

Higher concentrations of organic pollutants including VOCs were measured in Y landfill site leachate than in S landfill site.

Underground soils of the two landfill sites were analyzed by the two kinds of leaching methods, KEP(Korean Extraction process) and Acid Digestion. Underground soils of the both landfill sites were not polluted by leachate. Underground soils of the two were composed of fine silty material. Thus it is found that fine silty soil layer of the sea shore may be used as a landfill site.

Key words : leachate, Underground soil, landfill, domestic waste, VOC