Site evaluation of municipal solid waste landfill on wetland environment-Case study of Shadegan International Wetland

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Abstract

Municipal solid waste landfill has great potential to contaminate the environment and human health effects due to decomposition , leachate and gases .The effects on the environment if not managed appropriately ,will bring several damages on sensitive areas. Shadegan wetland is located in Khuzestan province in south west of Iran. This wetland is exposed to many risk factors internationally. One of the major factors threatening Shadegan is disposal of urban solid waste in it .According to the daily 28.2 tons disposal of solid waste in wetland, ecological , fishing ,economic values, settlements and livelihoods ,it is important that evaluation of selection criteria of shadegan landfill based on national and international environmental regulations should be done. This research is based on field studies using GIS layers according to national and international regulations and standards carried out in 2013 .Results show that solid waste landfill of Shadegan inconsistent with national criteria ,but are more compatible with international criteria . Overall, the lack of consistent national and international standards was 38.2 percent. The main parameters which are not consistent with Shadegan landfill ,include adjacent to the main roads ,water wells ,residential centers and the lagoon.

Keywords: Municipal Solid wastes, Solid waste Landfill , Aquatic ecosystems, Shadegan International wetland, Site evaluation.