

عنوان مقاله:

(Assessment of Influence of Landfill Leachate on Groundwater Quality: A Case Study Albourz Landfill (Qom, Iran

محل انتشار:

مجله آرشیو علوم بهداشتی, دوره 4, شماره 1 (سال: 1394)

تعداد صفحات اصل مقاله: 9

نویسندگان:

Roya Ardani - Department of Environmental Health Engineering, School of Health, Qom University of Medical Sciences, Qom, Iran

Ahmad Reza Yari - Environmental Pollutants Research Center, Qom University of Medical Sciences, Qom, Iran

Mohammad Fahiminia - Environmental Pollutants Research Center, Qom University of Medical Sciences, Qom, Iran

Sara Hashemi - Environmental Pollutants Research Center, Qom University of Medical Sciences, Qom, Iran

خلاصه مقاله:

Background and Aim of the Study: The landfill leachate is contains various contaminatesthat can effect on quality of surface water and wells. In this study influence of the leachatefrom Albourz landfill in Qom (Qom, Iran) was investigated on quality of groundwater. Material and Methods: In this experimental study, Samples were collected from wellsaround the landfill site. Various physical, chemical and biological parameters weredetected. All tests were performed according to the Standard methods for the examination of water and wastewater. Findings were compared with Iran national drinking waterstandard.Results: Findings show that the highest level of pH 7.76 mg/l, nitrate34.12 mg/l, phosphate8.84 mg/l, total hardness 2095 mg/l, electrical conductivity 14850 s/cm, total dissolvedsolids 5841 mg/l, Ca+2 2.5 mg/l, Mg+2 30.11 mg/l, Na+ 112 mg/l, K+ 28.8 mg/l,Cl-66.75mg/l, SO2- 4 110.1mg/l and biological oxygen demand 4.5 mg/l . The results ofmicrobiological tests were reported negative. Conclusion: Results obtained in this study confirm that the quality of the groundwaterresource underlying Albourz landfill hasn't been significantly impacted. The results of experiment of the following specific parameters Po 3-4, TH and TDS are above the .highestpermissible levels allowed by Iran national Standards for Drinking Water

کلمات کلیدی: Water Qualityground waterlandfillleachate

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/792453

