

堆肥-零价铁混合PRB处理铬污染地下水 Treatment of Cr-polluted Groundwater Using a Mixed ZVI-Compost PRB

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关键词: 堆肥 零价铁 可渗透反应墙 铬污染 地下水

摘要: 分别用堆肥、零价铁、堆肥-零价铁作为反应介质,对PRB处理铬污染地下水的可行性和有效性进行了研究。结果表明:以堆肥-零价铁作为反应介质的反应柱去除Cr(VI)的效果比单独以堆肥或铁粉为介质的反应柱好;增加铁粉或堆肥的用量均有利于Cr(VI)的去除;堆肥时间对Cr(VI)的去除效果影响不大;出水总铁含量符合《生活饮用水卫生标准》要求。With compost, ZVI, and ZVI-compost as reaction media respectively, the feasibility and effectiveness of Cr-polluted groundwater by PRB were studied. The results showed that the reactor packed with ZVI-compost had a better performance than that with compost or ZVI alone; increasing the amount of compost ZVI could increase the removal effects; moreover the removal effects were little influenced by the time of composting; total iron of effluent meet the requirement of standards for drinking water quality.

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