



环境卫生工程

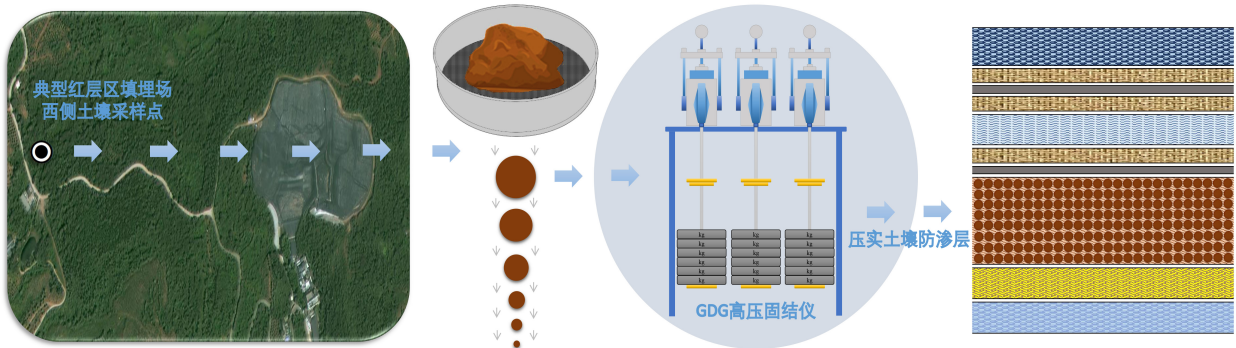
ENVIRONMENTAL SANITATION ENGINEERING

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· 四川典型红层区生活垃圾填埋场衬层土壤防渗性能研究

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【导语】 填埋场衬层土壤大多取自附近土壤, 通过对四川省典型红层区填埋场附近不同深度的 6 种粒径区间的筛分土样开展标准固结试验, 研究压缩固结过程中饱和密度以及渗透系数的变化趋势和规律。结果表明: 红层筛分土饱和密度随着竖向压力的增大呈对数增加, 压缩固结主要集中于 12.5~800 kPa 的竖向压力区间。与粒径更大的砂砾土相比, 红层筛分粉黏土更适合作为填埋场防渗系统中的土壤衬层。基于已有的 $\lg kv - \lg e$ 渗透模型, 提出了 2 种适用于不同粒径区间红层土的 $\lg kv - \lg \rho_{sat}$ 线性及非线性拟合渗透模型。



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