

合併処理浄化槽に及ぼす写真廃液の影響に関する研究

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概 要

写真廃液を、重金属を含む濃縮液とアンモニウム塩を主成分とする蒸留液に効率的に分離する蒸留装置が開発された。小規模なミニラボ現像所（カラー写真現像店）において超小型蒸留装置から得られる蒸留液を小型合併処理浄化槽に投入し、処理水への影響を調べ、次のような結果を得た。① SSおよびBODに対して特に影響は見られなかった。② T-Nに対しては、循環液の使用により影響を少なくすることができた。使用人数が少ない場合や汚泥の蓄積が著しい場合にはT-Nが高くなったが、蒸留液への添加物の工夫や浄化槽の適切な維持管理により対処し得る。

Studies on Adequate Treatment for Developing Waste Using Small Scale Onsite Wastewater Treatment Systems

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Abstract

The distillation equipment that could efficiently separate developing waste into the residue containing heavy metals and the distillate containing ammonium salts was developed. The distillate, obtained from small distillation equipment at Mini-Lab store (color film developing store), was poured into small scale onsite wastewater treatment systems and the influence of ammonium salts on the effluent quality was investigated. As a result, the following points were clarified. (1) The influence on SS and BOD were not appreciable. (2) The influence on T-N could be reduced by equipping recycle system. When the treatment systems were used by less person than planned person or the excess of accumulated sludge was remarkable, T-N became higher. When adequate chemicals are poured into distillate or appropriate maintenance are carried out, treatment systems may keep good effluent.