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**Utilization of Portable Effluent Wastewater in Brick  
Manufacturing**

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Portable wastewater is produced from sedimentation and filtration tanks in portable water treatment plants. Usually, this useless wastewater is drained into River Nile Canal and not to the sewer system causing a potential pollution. Wastewater has been taken from Portable Treatment Plant located at Qalubia Province, Delta, Egypt. Evaluation of raw materials was carried out by using X-ray diffraction (XRD), X-ray fluorescence (XRF), thermal analyses (DTA and TGA) as well as plasticity and drying sensitivity coefficient (DSC) measurements. Technological properties of fired bricks were investigated according to Egyptian and American Specifications. The obtained experimental results encourage substitution of the drained portable wastewater for the tap water in bricks manufacturing. Thus, utilization of the studied portable effluent wastewater in such industry is possible and fulfills the double target of saving drinking water used in clay bricks manufacturing, rather than its environmental pollution prevention.