

ABSTRACT

Gray water waste occupies the largest type of domestic liquid waste in Indonesia. This waste has great potential to be recycled, but very few people distribute gray water waste to the WWTP center because the procedures and processes are not easy. Large-scale wastewater treatment requires very high costs and according to research, small-scale wastewater treatment can run more optimally and provide better results. The utilization of recycled water that is most likely to be accepted by the community today is non-potable water reuse activities. Flushing toilets is the first level in the use of clean water for most non-potable use domestic activities. so this research focuses on redesign of portable tank products to support household-scale gray water waste treatment whose processing results can be used to flush toilets.

Keywords: Waste, gray water, recycling, household, flush toilet.