

# Desain tempat pengolahan sampah reduce reuse recycle tps 3r terintegrasi bank sampah pada kawasan perkampungan studi kasus Kampung Maruga Tangerang Selatan = Design material recovery facility reduce reuse and recycle mrf 3r integrated with waste bank in the settlement area case study Kampung Maruga Tangerang Selatan

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## Abstrak

### [<b>ABSTRAK</b>

Penelitian ini membahas timbulan dan komposisi sampah rumah tangga pada Kampung Maruga, Tangerang Selatan sebagai dasar usulan desain Tempat Pengolahan Sampah Reduce, Reuse, Recycle (TPS 3R) terintegrasi Bank Sampah pada kawasan ini. Metode yang digunakan yaitu SNI 19-3964-1994 tentang Metode Pengambilan dan Pengukuran Contoh Timbulan dan Komposisi Sampah Perkotaan. Hasil penelitian menyatakan jumlah timbulan sampah saat ini mencapai 0,39 kg/orang/hari. Komposisi sampah rumah tangga di Kampung Maruga terdiri dari 65,8% organik yang berasal dari sisa makanan dan sampah kebun, 11,5% plastik, 9,2% kertas, 3,5% tekstil, 3% adsorbent (pamper dan pembalut), 2,8% logam, 1% kaca, 0,8% kayu, 0,6% limbah B3, 0,4% karet, 0,2% limbah elektronik, 0,1% styrofoam, dan 1% lainnya. Tempat Pengolahan Sampah 3R terintegrasi bank sampah didesain dengan kapasitas 0,835 ton/hari atau 7,7 m<sup>3</sup>/hari. Total luas minimum desain unit pengolahan sampah mencapai 255 m<sup>2</sup> yang terdiri dari area bank sampah, area pencacahan, area pengomposan, area pengayakan, area penyimpanan, kantor, gudang, kamar mandi, balai serbaguna dan lahan berkebun.

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### <i><b>ABSTRACT</b>

, This study focuses on the household solid waste generation and composition at Kampung Maruga, Tangerang Selatan for the basis of design Material Recovery Facility Reduce, Reuse, Recycle (MRF 3R) with the integration of Waste Bank in this area. The method which being used is SNI 19-3964-1994 on Methods of Sample Collection and Measurement and The Composition of Urban Waste. The results stated the solid waste currently are 0,39 kg/person/day. The composition of household waste in Kampung Maruga consist of 65,8% organic which is come from food scraps and yard waste, 11,5% plastic, 9,2% paper, 3,5% textil, 3% adsorbent (pampers and band), 2,8% metal, 1% glass, 0,8% wood, 0,6% hazardous waste, 0,4% rubber, 0,2% electronic waste, 0,1% styrofoam, and the other 1%. Material recovery facility with the integration of waste bank is designed with a capacity of 0,835 ton/day or 7,7 m<sup>3</sup>/day. Total area minimum of material recovery facility design reaches 255 m<sup>2</sup> consisting of a waste bank area, enumeration area, composting area, screening area, storage area, office area, toilet, multi purpose couch and plantation area.]