

KAJIAN PENANGANAN BANJIR PADA DAS SEKANAK KOTA PALEMBANG

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ABSTRACT

Catchment of Sekanak is one of many catchments in Palembang City that is located in the center of government, business, and people inhabitant. Region in this catchment often suffers from flood and water puddle due to limited capacity of local drainage channels and bad management of available channel systems. This research is aimed at studying and analyzing annual flood problem happening in catchment of Sekanak by using HEC-RAS 4.0 (Hydrologic Engineering Center - River Analysis System) software. The model evaluates supply of drainage channels to obtain formulation of various simulations in flood control, for example, supply of retention ponds, pumping system, flow and banks normalization.

The recommended flood control is by excavating instream of Sekanak River, Siti Khodijah River, Baung River, and Tridinanti River from upstream to downstream with total excavation volume of 110.000 m³ and building flood protective banks especially those in Siti Khodijah River with the height of 60 cm and Tridinanti River with the height of 50 cm.

Keywords :

Catchment of Sekanak, flood control, normalization