

ABASTRAK

Penelitian ini bertujuan untuk mengevaluasi sistem drainase di Jalan Raya Cimindi, Kota Cimahi, yang kerap mengalami banjir saat musim hujan. Metode yang digunakan meliputi pengumpulan data curah hujan, kondisi saluran eksisting, serta analisis hidrologi dan hidraulik. Hasil analisis menunjukkan bahwa kapasitas beberapa saluran tidak mencukupi untuk menampung debit puncak aliran air hujan. Berdasarkan temuan tersebut, diperlukan upaya normalisasi saluran dan peningkatan kapasitas tampung, serta peran aktif masyarakat dalam menjaga kebersihan saluran sebagai bagian dari solusi penanggulangan banjir.

Kata Kunci: Banjir, DTA Jalan Raya Cimindi, Hec-Ras, Hidrologi, Cimahi



ABSTRACT

This research aims to evaluate the drainage system on Cimindi Road, Cimahi City, which often experiences flooding during the rainy season. The methods used include collecting rainfall data, assessing the condition of existing channels, and analyzing hydrology and hydraulics. The analysis results show that the capacity of several channels is insufficient to accommodate peak rainfall runoff. Based on these findings, there is a need for channel normalization efforts and an increase in storage capacity, as well as active community participation in maintaining the cleanliness of the channels as part of the flood mitigation solution.

Keywords: Flood, Cimindi Road Catchment Area, HEC-RAS, Hydrology, Cimahi

