

# **EVALUASI SISTEM DRAINASE DALAM UPAYA MENANGGULANGI BANJIR DI KOTA BANTAENG PROVINSI SULAWESI SELATAN**

**Juniyanty**

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## **ABSTRACT**

Bantaeng City is a capital of Bantaeng Regency located in a coastal region extending from western to eastern of the region. In view of the regions condition, flood is a serious problem will flooding occurs almost every year. The city is a densely populated region, so that when flood occurred, water flooded the settlement location. Therefore, an evaluation on the drainage system is required to mitigate flood in Bantaeng City.

This study armed at evaluating the performance of the drainage system in Bantaeng City. It was conducted by hydraulic flood routing using the Hydrologic Engineering Center-River Analysis System software (HEC-RAS) version 4.0.

Simulation shows that under two year rainfall of 80 mm the drainage capacity is not sufficient. A recommended alternative controlling effort is by using a by-pass channel. The result shows that the reduced elevation of water surface was 0.29 m. Recharge well do not much reduce the flooding. The maximum water level is reduced by only 7 mm.

### **Keywords :**

*Drainage, Flood Controlling, By-Pass Channel, Recharge well*