OPERATIONAL EVALUATION OF SEWERAGE NETWORK IN SANUR, BALI

Name : Dita Febriani D.D.P
NRP : 305.100.009
Program : Environmental Engineering
Supervisor : Ir. Ati Hartati, Msc

ABSTRACT

Sanur is one of the famous places in Bali which has beautiful beach. The development of Sanur brings some problems. It’s need commitment by the government to reserve Sanur beach as an interesting place to visit. One of its action is a comprehensive sewerage project, it’s called “ Denpasar sewerage Development Project (DSDP)”. DSDP channels domestic waste from resident and tourism area to be processed by wastewater treatment plant in Benoa.

The sewerage network evaluation is considered from the hydraulic aspect. Then evaluation is accomplished on the sewer pipe especially in wetpit and Sanur pumping station capacity evaluation.

The result of this evaluation is the sewer network that flowrate is 1,032 m$^3$/minute. Sewer network in wetpit is operated manually for 3 hours once in 3 days. This matter cause overflow in every wetpit. Whereas the operational in Sanur pumping station consists of 3 unit pumps, and 1 unit back up pump. The flow rate in pumping station is 1,032 m$^3$/minute. This is showed that all the sewer network has not been aplicated by the citizen yet. It is caused by the plan flowrate is a0,34 m$^3$/minute. There is only 10 % sewer network which has been aplicated, from comparing between the plan flowrate and eksisting flowrate.

Keyword : Wastewater, Sewer, Sanur
“Halaman ini sengaja dikosongkan”