EVALUASI DAN OPTIMALISASI INSTALASI PENGOLAHAN AIR LIMBAH DOMESTIK SEMANGGI KOTA SURAKARTA

Hikmat Sandi, Wiharyanto Oktiawan, ST, MT dan Ir. Mochtar Hadiwidodo

ABSTRACT

Domestic waste water treatment plant in Semanggi Surakarta one of the domestic waste water management system according to off site that is operated in the year 2001 with service in this time as much as 6208 house connections. At this time in waste water treatment plant in Semanggi is combination design pre-treatment and aerobic system with capacity 30 l/dt. Processing form that applied according to physics and biology by using several processing units that is grit chamber, equalisasi, aerasi with activated sludge process, sedimentation and sludge drying bed. Effluen from this processing furthermore be channelled to premulung river around 100 m from processing location. During the operational is found several troubleshoots so that want evaluation for the repair. This evaluation is done by using a technical measuring rod that is made based on literature study. Existing condition in this time can be increased with do optimalization and shaped repair or component increasing appropriate evaluation result that done.

Evaluation result based on condition eksisting processing that there in general demo that processing system IPAL Semanggi can be increased with do optimalization shaped repair and component increasing that need. IPAL Semanggi from capacity stills to can to accommodate rate of flow addition from waste water network, from has remainder idle capacity about 2220 SR.

keywords : semanggi, wastewater treatment plant, 30 l/s, idle capacity