THE MODEL PREDICTION OF SPREADING POLLUTANT SURABAYA RIVER AT THE EMPTY SEGMENT KALI TENGAH RIVER TO GUNUNGSARI SLUICE

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ABSTRACT

The body of water is said to have been polluted if it has been entered or possessed pollutant that over the quality standardization of water base on their allocation.

This Research is preceded by studying literature, collecting primary and secondary data and analyzing at laboratory to know the parameter concentration of DO, BOD, COD and TSS. The parameter content is used to know the spreading of pollutant in the river. This research is only to count the content of DO, BOD, COD and TSS at each space of Surabaya River because of the entering pollutant.

From the result of analyzing and discussing can be concluded that Surabaya River at the empty segment middle river to Gunungsari sluice can be said it has been heavy polluted base on analyzing by using Government standard PP.82 Th.2001 and Kep.Gub.No.45. Th. 2002 about the quality of industrial sewage water at Surabaya River, from the above explanation by using HP2S model (hydrodynamics spreading pollutant at river). It can give description of spreading pollutant from sewage water to the river and it can be used to make decision of sample location at monitoring the quality of water.

Keynote : Water pollution, spreading pollutant, HP2S, Surabaya River