DESIGNING AND TESTING RIVER WASTE LEVELS DETECTION SYSTEM USING PH LEVEL PARAMETER AND WATER MUDDINESS LEVEL AT UNMANNED SURFACE VEHICLE (USV)

Qori'ah Wulandari
Electrical Engineering Study Program, Faculty of Information Technology and Electro
Universitas Teknologi Yogyakarta
Jl. Ringroad Utara Jombor Sleman Yogyakarta
E-mail : goriahwulandari l402Bffmail.com

ABSTRAK

The environment is the most important factor of the living things life on earth. Environmental pollution is the entry or inclusion of living things, substances, energy, or other components into the environment carried out by human activities. Water pollution is the entry or inclusion of living things, substances, energy, or other compoitents in water carried out by human activities so that the quality ofwater drops to a certain level. Indeed, people need a tool to detect levels of river waste levels by using a TDS and pH sensor. An Unmantied Survace Vehicle (USV) system was used to monitor the river waste levels in real time where the locations are difficult to reach directly by humans. The results of test showed pH aid TDS sensors accuracy of the pH setmor was 99.9% with a precision level of 99.9%, while the TDS sensor has accuracy rate of 99.% with a precision level *of 99.5%.*

Keywords: *Water Pollution, Waste, pH, Unmmned Survace Vehicle*