ABSTRACT

INFORMATION DASHBOARD FOR REAL-TIME WATER QUALITY MONITORING IN CITARUM RIVER USING TELEMETRY SYSTEM

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Citarum is the longest and largest river in West Java Province. The river which most divides West Java is sourced from the springs of Mount Wayang (south of Bandung), flows north through the Bandung Basin and empties into the Java Sea. At present the Citarum River is one of the polluted rivers in the world. This study aims to provide information on the level of water quality in the Citarum River. The results of this study are expected to provide education to the community to be more concerned about the environment of the Citarum river about river water quality, as well as the impact or treatment of the water for the community.

This study designed an information mapping of an observation point using an application based on Geographic Information System (GIS) which can be implemented and applied to an Information dashboard that can be accessed on the website. GIS can provide information about the point of observation of the location of water quality in the Citarum River. It is expected that with the existence of this GIS can provide information on an observation point about water quality in the Citarum River to stakeholders who are accessing the website to find out water quality information.

Information dashboards are expected to provide information about the level of water quality to the community or to stakeholders of relevant government agencies to respond and take actions and evaluations. The Information Dashboard is expected to facilitate all stakeholders to monitor and see the water quality in the Citarum River in real-time through the website. With this website, it is expected that it can be easily accessed freely by connecting through the internet network.

Keywords: Citarum River, Information Dashboard, Website, GIS, Water Quality.