



## Water Quality Assessment – River Trail Project of Pusat Asasi, UiTM Dengkil

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JM052 – Innovation – Local – Category B: Professional (Other Institutions) -

***Abstract***—Environmental sustainability is one of the important agendas in the development of the community and the country. In supporting the Sustainable Development Goals initiatives, the pilot project consists of environmental appreciation development activities involving the students and academician has been organized in the river tributary beside Pusat Asasi, UiTM Dengkil that flows to the Langat River. This preliminary project consists of water quality assessment for the river trail project which has been conducted on-site. The parameters of biochemical oxygen demand (BOD), chemical oxygen demand (COD), pH, temperature, and ammonia-nitrogen have been determined to evaluate the water quality index (WQI) of the wastewater treatment plant and the river beside Pusat Asasi, UiTM Dengkil. From the results obtained, the river classification has been studied as polluted. Moreover, rehabilitation is considered to improve the water quality in the river. Additionally, extensive wastewater treatment is needed to enhance the quality of the effluent discharge into the river. This proposed work on the river trail project will later be exposed to the surrounding community. At this stage, living lab concept can educate the students of Science, Technology, Engineering and Mathematics - STEM on the sustainable management in comprised with environmental engineering education. Thus, in introducing the student on the SDGs 6 that is clean water and sanitation for all.

***Keywords***—Sustainable development goals; river trail project; water quality index