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A comparative study of trends of nitrate, chloride and phosphate concentration levels in selected

urban rivers

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Abstract

Concerns for the river environment in Malaysia are highlighted. There had been occurrences of

inadequate supply for water in big cities and unexpected floods over the last few years. This paper

discussed and compared the results of efforts to clean-up Gombak River which passes through several

industrial areas and the City of Kuala Lumpur and Penchala River which passes through the industrial

areas and the neighboring City of Petaling Jaya. The trends in the levels of nitrates, chlorides and

phosphates present in the rivers were analyzed. Over the period of thirteen years from 1997 to 2009,

results of efforts which included public participation, engineering and river works and strict statutory

regulations by government had shown success in improving the river water quality. Continued efforts

from stakeholders must be harnessed to enhance the health of the Gombak River and the Penchala River.

Keywords: health; monitoring; pollution; remediation; water.

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