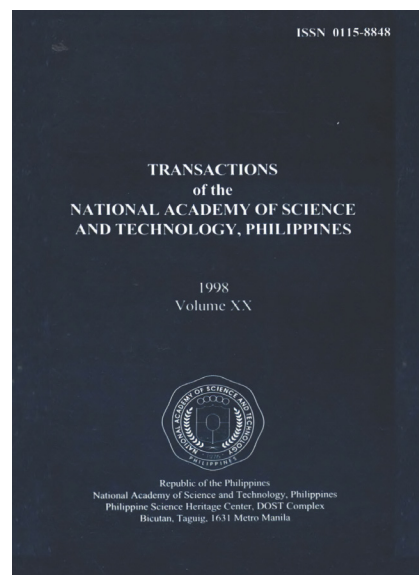


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Biodegradation of Crude Oil using Microorganisms from Pasig and Manila Bay

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BIOLOGICAL SCIENCES DIVISION

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ABSTRACT

The consortium of microorganisms used consisted of *Alcaligenes* sp., *Flavobacterium indologenes*, and *Bacillus* spp. These were isolated from Pasig River and Manila Bay through streak plating technique. These isolates were identified based on biochemical tests and morphological observations. They were introduced to Natural Seawater (NSW) and Mineral Medium C (MMC) with oil. The crude oil layer in the inoculated treatments gradually diminished after eight weeks of continuous shaking compared to the uninoculated control treatment. Qualitative analyses of extracts from the control and inoculated liquid media with crude oil were performed using gas chromatography. The consortium was effective in degrading crude oil.

Key words: *Alcaligenes* sp., *Bacillus* spp., biodegradation, bioremediation, consortium, crude oil, *Flavobacterium indologenes*, Manila Bay, microorganisms, Pasig River