Persistent organic pollutants in sediments from Sai Gon-Dong Nai River basin, Vietnam: Levels and temporal trends

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Abstract: Surficial sediment samples were collected from Hochiminh City canals, the Sai Gon-Dong Nai River, and its estuary, one of the most predominant industrial areas in Hochiminh City, southern Vietnam, for determination of selected persistent organic pollutants (POPs). Contamination pattern was as follows: PCBs ? DDTs > HCB > CHLs > HCHs. Concentrations of PCBs and DDTs ranged from 0.50-150 ng/g and 0.15-72 ng/g dry wt, respectively. On the other hand, concentrations of CHLs, HCHs, and HCB were mostly DDTs in the city canals but PCBs Author Keywords: Persistent organochlorine; Sediment; Temporal trend; Vietnam

Index Keywords: chlordane; chlorphenotane; hexachlorobenzene; lindane; organochlorine pesticide; polychlorinated biphenyl; fluvial deposit; hazard assessment; organic pollutant; organochlorine; pollutant source; pollutant transport; river basin; urban area; aquatic environment; article; chemical composition; dry weight; estuary; hazard assessment; organic pollution; priority journal; river basin; sediment; urban area; Viet Nam; water contamination; water pollutant; water pollution; wood; Environmental Monitoring; Geologic Sediments; Hydrocarbons, Chlorinated; Reference Values; Rivers; Time Factors; Vietnam; Water Pollutants, Chemical; Asia; Dong Nai River; Eurasia; Ho Chi Minh City; Southeast Asia; Viet Nam; Isoptera

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