

Recent levels of organochlorine pesticides and polychlorinated biphenyls in sediments of the sewer system in Hanoi, Vietnam

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Abstract: The occurrence, temporal trend, sources and toxicity of PCBs and organochlorine pesticides were investigated in sediment samples from the sewer system of Hanoi City, including the rivers Nhue, To Lich, Lu, Set, Kim Nguu and the Yen So Lake. In general, the concentrations of the pollutants followed the order DDTs > PCBs > HCHs (β -HCH) > HCB. However, the pollution pattern was different for the DDTs and PCBs when the sampling locations were individually evaluated. The concentrations of the DDTs, PCBs, HCHs, and HCB ranged from 4.4 to 1100, 1.3 to 384, Index Keywords: Organochlorine pesticides; Persistent compounds; Sampling location; Sediment samples; Sewer system; Temporal trends; Viet Nam; Combined sewers; Location; Pesticides; Polychlorinated biphenyls; Printed circuits; Sedimentology; Lake pollution; chlorphenotane; hexachlorobenzene; lindane; organochlorine pesticide; polychlorinated biphenyl; river water; DDE; DDT; organochlorine; PCB; pesticide; sewer network; toxicity; article; controlled study; hazard assessment; organic pollution; sediment; sewer; total organic carbon; Viet Nam; water analysis; water pollution; water sampling; Environmental Monitoring; Geologic Sediments; Hydrocarbons, Chlorinated; Pesticides; Polychlorinated Biphenyls; Sewage; Vietnam; Hanoi; Nhue River; Viet Nam

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