

Intisari

Penelitian ini bertujuan untuk mengetahui sifat fisika, kimia dan klasifikasi tanah di lahan mangrove Muara Sungai Opak, Bantul. Kegiatan penelitian dilaksanakan pada bulan Maret-April 2020. Penelitian ini dilakukan di lapangan dan diikuti dengan analisis di laboratorium. Profil tanah diambil dari tiga lokasi dengan metode *Systematic random sampling* didasarkan atas jarak lokasi dari pantai dan ciri proses pengendapan material alluvial sungai. Parameter penelitian yang dianalisis meliputi: tekstur, berat volume, berat jenis, porositas, pH, bahan organik dan daya hantar listrik. Hasil penelitian menunjukkan bahwa perbedaan karakteristik fisika dan kimia tanah pada titik lokasi yang berbeda dipengaruhi oleh proses pengendapan dan endapan material yang dibawa Sungai Opak.

Kata kunci : karakteristik, tanah, mangrove, litologi, muara, Sungai Opak



Abstract

This study aims to determine the physico-chemical properties and classification of soils in the mangrove area of the Opak River Estuary, Bantul. This research was carried out in the field and followed by analysis in the laboratory from March to April 2020. Soil profiles were taken from three locations using the systematic random sampling method based on the distance from the beach and the characteristics of the river alluvial material deposition process. The research parameters analyzed included: texture, bulk density, particle density, porosity, pH, organic matter and electrical conductivity. The results showed that the differences in the physical and chemical characteristics of the soil at different locations were influenced by the deposition process and material deposition carried by the Opak River.

Keywords: characteristics, soil, mangrove, lithology, estuary, Opak River