

Intisari

Penelitian ini berjudul ‘Karakteristik Sifat Fisika dan Kimia Tanah di Muara Sungai Opak Bantul’ bertujuan untuk mengetahui karakteristik morfologi permukaan lahan, litologi bentanglahan aluvial, dan karakteristik sifat fisiko-kimia tanah di Muara Sungai Opak, Bantul. Penelitian ini dilakukan dengan mengambil 6 profil tanah yang berbeda dengan metode *Systematic random sampling* yang diambil pada litologi yang berbeda. Parameter penelitian yang dianalisis meliputi tekstur, berat volume, berat jenis, porositas, pH, daya hantar listrik, bahan organik, dan uji pirit. Hasil penelitian menunjukkan bahwa perbedaan karakteristik fisika dan kimia tanah yang terjadi dipengaruhi oleh perbedaan material endapan Sungai Opak dan periode pengendapan, serta pengaruh gelombang air laut.

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

Abstract

The research entitled ‘Characteristics of soil physico-chemical properties in Opak River Estuary, Bantul’ aims to determine the characteristics of land surface morphology and alluvial landform lithology as well as physical and chemical soil characteristics at Opak River Estuary. This research is conducted to examine 6 soil profiles by using systematic random sampling method which was taken from different lithologies and then continued with laboratory analysis. The parameters of soil analysis are soil texture, bulk density, particle density, porosity, pH, electrical conductivity (EC), organic matter, and pyrite test. The results showed that differences in the physical and chemical characteristics of the soil at different locations were influenced by sedimentation of material carried by the Opak River, sedimentation period, and redeposited by sea waves.

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