

**KOMPOSISI KIMIA SUBSTRAT ASOSIASI *Sonneratia alba-Avicennia marina* DI MUARA SUNGAI LEKOK,  
KABUPATEN PASURUAN**

***Chemical Properties of Soils *Sonneratia alba-Avicennia marina*  
Association in Lekok Estuary, Pasuruan, East Java***

**Hani Sudarmanto, Mas Loegito, Trisnadi Widyoleksono C.P.,  
Handoko Darmokoesoemo, Sediono  
FMIPA Universitas Airlangga,  
Kampus C Mulyorejo, Surabaya 60115**

**ABSTRACT**

*The mangrove forest occurred in the north coast of Pasuruan Regency have not been reported about the vegetational and substrate compositions. This research's purpose were to analysis the vegetational composition and the chemical properties of the substrate. The result showed that this mangrove forest were dominated by association of *Sonneratia alba-Avicennia marina*. The results showed that soils had the neutral reaction (pH: 7,01-7,65), low in organic matter (2,18-4,72%) and total nitrogen (0,48-0,51%), but high in total phosphorous (25,19-29,22ppm) and in exchangable cation ( $Ca^{+2}$ : 389,855-504,056 mg/100 gr ,  $Mg^{+2}$ : 409,522-441,400 mg/100 gr,  $K^{+}$ : 228,900-390,435 mg/100gr).*

**Key words:** *chemical properties, association of *Sonneratia alba-Avicennia marina*.*