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**Title** Pengaruh Tekstur Sedimen Terhadap FBI Makrozoobentos Pada Vegetasi Berbeda Di LSA Cilacap

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## Title and Abstract

### Title

Pengaruh Tekstur Sedimen Terhadap FBI Makrozoobentos Pada Vegetasi Berbeda Di LSA Cilacap

### Abstract

Laguna Segara Anakan (LSA) Cilacap yang terletak di antara pulau Jawa dan pulau Nusakambangan, Jawa Tengah, merupakan habitat yang baik bagi biota makrozoobentos. Habitat tersebut dicirikan dengan sedimen pasir, debu dan liat. Identifikasi dan analisis keanekaragaman makrozoobentos penting untuk menentukan kondisi ekosistem yang didominasi liat. Tujuan dari penelitian ini adalah untuk mengetahui jenis tekstur sedimen dan untuk mengetahui kualitas perairan dengan menerapkan index biotic makrozoobentos. Metode yang digunakan yaitu survei dan purposive random sampling dilakukan pada saat mengambil sampel sedimen dan makrozoobentos pada 12 titik penelitian menggunakan handpacking dengan bantuan cetok. Pengambilan sampel dilakukan pada bulan September – November 2023. Analisis dilakukan secara deskriptif dan regresi menggunakan software Microsoft Excel. Hasil penelitian tekstur sedimen fraksi pasir berkisar 1,09-1,7%; fraksi debu berkisar 31,43-48,31 dan fraksi liat berkisar 50,6-67,17%. Family Biotic Index (FBI) berkisar antara 7,097-7,399 yang berarti kondisi perairan di LSA Cilacap dalam kategori buruk – sangat buruk. Pengaruh tekstur sedimen fraksi pasir dengan FBI makrozoobentos memiliki pengaruh negatif dengan persamaan  $y = -0,5245x + 8,005$ ; pengaruh tekstur sedimen fraksi debu dengan FBI makrozoobentos memiliki pengaruh negatif dengan persamaan  $y = -0,0042x + 7,4203$  dan pengaruh tekstur sedimen fraksi liat dengan FBI makrozoobentos memiliki Pengaruh positif dengan persamaan  $y = 0,005x + 6,9572$ .

Segara Anakan Lagoon (LSA) in Cilacap, situated between Java Island and Nusakambangan Island, Central Java, serves as a favorable habitat for macrozoobenthos biota. This habitat is characterized by sandy, silty and clay sediments. Identifying and analyzing the diversity of macrozoobenthos is crucial in determining the ecosystem conditions dominated by clay. This research aims to determine the sediment texture types and assess water quality by applying the macrozoobenthos biotic index. The method employed was survey and purposive random sampling during sediment and macrozoobenthos sample collection at 12 research points using handpacking with the assistance of a scoop. Sampling was conducted from September - November 2023. Analysis was performed descriptively and through regression using Microsoft Excel software. The results showed that the sand fraction of sediment texture ranged from 1,09% to 1,7%; the silt fraction ranged from 31,43% to 48,31%; and the clay fraction ranged from 50,6% to 67,17%. The Family Biotic Index (FBI) ranged from 7,097 to 7,399, indicating that the water conditions in LSA Cilacap fall into the poor to very poor category. The influence of sand fraction sediment texture on macrozoobenthos FBI exhibited a negative impact with the equation  $y = -0,5245x + 8,005$ ; the influence of silt fraction sediment texture on macrozoobenthos FBI also demonstrated a negative effect with the equation  $y = -0,0042x + 7,4203$ ; whereas, the influence of clay fraction sediment texture on macrozoobenthos FBI showed a positive impact with the equation  $y = 0,005x + 6,9572$ .

### Notice

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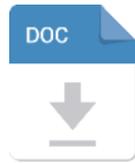
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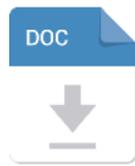
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