



Intisari

KELIMPAHAN DAN KEANEKARAGAMAN MAKROBENTOS DI SUNGAI CODE YOGYAKARTA

Penelitian ini bertujuan untuk mengetahui keanekaragaman, kelimpahan, dominansi, dan pemerataan makrobentos yang berada di Sungai Code, Yogyakarta. Penelitian dilaksanakan pada bulan Desember 2019-Januari 2020 di Sungai Code, Yogyakarta. Pengambilan data dilakukan sebanyak 4 kali pada 6 stasiun. Makrobentos diambil menggunakan *surber net* dengan ukuran 30 x 30 cm dan sampling sebanyak 5 titik setiap stasiun. Hasil yang dianalisis adalah indeks keanekaragaman, kelimpahan individu, indeks dominansi, dan indeks pemerataan. Data kualitas air yang diambil meliputi suhu air, kecepatan arus, kedalaman air, pH air, oksigen terlarut, dan bahan organik. Data kualitas air yang diperoleh yaitu suhu air 27,53-29,26 °C, kedalaman air 0,21-0,27 m, kecepatan arus 0,38-0,59 m/detik, pH air 7,13-7,57, kandungan oksigen terlarut (DO) 3,56-5,72, dan bahan organik (BO) 9,17-22,30 ppm. Substrat pada keenam stasiun terdiri dari berbatu, lumpur, lumpur berbatu, dan pasir berbatu. Hasil penelitian menunjukkan bahwa kelimpahan makrobentos berkisar antara 54,44-172,22 ind/m². Indeks keanekaragaman berkisar antara 0,71-1,75 dengan kategori rendah-sedang. Indeks dominansi berkisar antara 0,22-0,66 dengan kategori rendah-tinggi. Indeks pemerataan berkisar antara 0,48-0,86 dengan kategori sedang-tinggi.

Kata kunci: bioindikator, dominansi, pemerataan, kualitas air



Abstract

ABUNDANCE AND DIVERSITY OF MACROBENTHOS
IN CODE RIVER YOGYAKARTA

This research aimed to know the density, diversity, dominance, and evenness of macrobenthos in Code River, Yogyakarta. This research was conducted during December 2019-January 2020 in Code River, Yogyakarta. Data was taken 4 times in 6 stations. Macrobenthos was taken using a surber net with a size of 30 x 30 cm and sampling at 5 spots in each station. Data analysis were consisted of density, diversity index, dominance index, and evenness index. Water quality data were consisted of water temperature, flow velocity, water depth, water pH, dissolved oxygen, and organic matter. Water quality data obtained were water temperature ranged from 27.53-29.26 °C, water depth 0.21-0.27 m, current speed 0.38- 0.59 m/sec, water pH 7.13-7.57 , dissolved oxygen (DO) 3,56-5,72 ppm, and organic matter (BO) 9,17-22,30 ppm. The substrates at the six stations were consisted of rocky, mud, rocky mud and rocky sand. The density of macrobentos ranged from 54,44-172,22 individual/m². Diversity index ranged from 0,71-1,75 with low to medium categories. Dominance index ranged from 0,22-0,66 with low to high categories. Evenness index ranged from 0,48-0,86 with medium to high categories.

Key words: bioindicator, dominance, evenness, water quality



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