

# Penilaian kualitas air DAS Cilutung, Majalengka, Jawa Barat dengan menggunakan indeks Biological Monitoring Working Party-Average Score per Taxon (BMWP-ASPT) = Water quality assessment of Cilutung watershed, Majalengka, West Java based on Biological Monitoring Working Party-Average Score per Taxon (BMWP-ASPT) index

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## Abstrak

Penelitian mengenai kualitas air DAS Cilutung yang dilakukan pada tiga Sub DAS merepresentasikan kegiatan yang berbeda di lingkungan sekitar Sub DAS, diantaranya kegiatan mandi cuci kakus MCK pada Sub DAS Cideres, tambang pasir pada Sub DAS Cijurey, dan pertanian pada Sub DAS Cisaar. Penelitian ini bertujuan untuk mengetahui nilai kualitas air DAS Cilutung, Majalengka, Jawa Barat berdasarkan makroinvertebrata dan dianalisis menggunakan metode Biological Monitoring Working Party - Average Score Per Taxon BMWP - ASPT . Parameter lingkungan juga turut diukur dalam penelitian ini. Hasil penelitian didapatkan 23 famili makroinvertebrata bioindikator kualitas perairan, diantaranya Chrysomelidae, Cincidelidae, Gyrinidae, Heteroceridae, Baetidae, Cydnidae, Gerridae, Mesoveliidae, Naucoridae, Aeshnidae, Lindeniidae, Corduliidae, Lestidae, Libellulidae, Perlidae, Perlodidae, Hydropsychidae, Limnephilidae, Palaemonidae, Parathelphusidae, Viviparidae, Lymnidae, dan Thiaridae. DAS Cilutung, Majalengka, Jawa Barat memiliki kisaran nilai ASPT 5--5,9 yang menunjukkan bahwa kondisi perairan tergolong kedalam kualitas air tercemar ringan.

.....A research of water quality assessment in Cilutung Watershed has been conducted at three Sub Watershed representing the diverse activities around them, which are toilet activities on Cideres Sub Watershed, sands mining on Cijurey Sub Watershed, and farming on Cisaar Sub Watershed. This research aimed to determine the quality of Cilutung Watershed, Majalengka, Jawa Barat using benthic makroinvertebrates as bioindicator through Biological Monitoring Working Party Average Score Per Taxon BMWP ASPT method. Environmental parameter is also measured.

The results obtained were twentythree families of benthic macroinvertebrates namely Chrysomelidae, Cincidelidae, Gyrinidae, Heteroceridae, Baetidae, Cydnidae, Gerridae, Mesoveliidae, Naucoridae, Aeshnidae, Lindeniidae, Corduliidae, Lestidae, Libellulidae, Perlidae, Perlodidae, Hydropsychidae, Limnephilidae, Palaemonidae, Parathelphusidae, Viviparidae, Lymnidae, and Thiaridae. Cilutung Watershed, Majalengka, Jawa Barat has ASPT range between 5 5,9 which classified as fairly polluted water quality.