

ABSTRACT

Yulan Lusiana Kusmayani. 2019. Analysis Community Structure Macrozoobenthos in Bagendit 2 lake, Garut. Guided by Dr. Yusuf Ibrahim, M.Pd., M.P. and Dr. rer.nat. H. Ama Rustama, M.Sc.

*Research on the Analysis of the Makrozoobenthos Community Structure in Bagendit 2 lake Garut, in May 2019. The study aims to determine the structure of the Macrozoobenthos community in Bagendit 2 lake Garut. The research method used is quantitative descriptive method with quadratic research design. The research station consisted of 3 stations with 6 squares in the Bagendit 2 lake waters area of Garut Regency, with sampling 3 times each of the research stations. Sampling using ekman grab and hand shorting. The main data measured is the abundance and diversity of Macrozoobenthos and supporting data in the form of environmental factors such as water temperature, water pH, dissolved oxygen (DO) and light intensity. Based on the results of identification and analysis of data found 23 species of Macrozoobenthos consisting of two phyla, 3 classes and 9 familli namely phylum Mollusca and Arthropoda, 3 classes namely Gastropod class consisting of 21 species, class Crustaceans and Dragonflies, each of which only have 1 species. The highest abundance of Macrozoobenthos is found in station II which is 304 ind/m² while the lowest species abundance is found in station III which is 131 ind/m². The highest abundance per-species was found in *Melanoides tuberculata* species with an abundance value of 227 ind/m². The average diversity index of Macrozoobenthos in Situ Bagendit 2 in Garut Regency is 1.90. The diversity index value is included in the category of moderate diversity with environmental factors average temperature ranging from 29.5-30.5 °C, average water pH of 7.7-7.8, disollved oxygen (DO) an average of 5 , 3-5.9 and an average light intensity of 60650-61566*

Keywords : Bagendit 2 lake, Community structure, abundance, diversity Macrozoobenthos