

# THE WATER QUALITY TEST IN RESERVOIR CIRATA PURWAKARTA DISTRICT

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## ABSTRACT

This Research has been conducted the title is "The Water Quality Test in Reservoir Cirata Purwakarta District". Problems that are often experienced by the reservoir is a condition of water that always changes because of the entry of pollutants derived from human activities such as : domestic waste, residual accumulation and pesticides from farm activities and fishery cultivation. This study aims to obtain data on the physical-chemical quality of water as well as describe the condition of the waters in Cirata Reservoir of the village Sinargalih, Subdistrict Maniis, Purwakarta, West Java. This research method is descriptive by using *Belt Transect* design. The water quality testing is conducted in open and covered areas of weeds. The results of the open area showed average values of *Biochemical Oxygen Demand* (BOD) are 3,1 mg/L, *Chemical Oxygen Demand* (COD) are 8,6 mg/L, *Dissolved Oxygen* (DO) are 6,7 ppm, Hydrogen Potential 6,9, Water temperature 23°C and Light intensity 37. The results of covered weed area showed average values of *Biochemical Oxygen Demand* (BOD) are 3,3 mg/L, *Chemical Oxygen Demand* (COD) are 8,0 mg/L, *Dissolved Oxygen* (DO) are 6,6 ppm, Hydrogen Potential 7,1, Water Temperature 22°C and Light Intensity 35. Based on the data, the water quality in Cirata Reservoir of Sinargalih Village, Maniis Subdistrict, Purwakarta, West Java, can still be used for water recreation facilities, cultivations of trout, barnyard, water to irrigate farms and it is intended for others requires water quality and is not intended for drinking.

**Keywords:** Quality, Water, Cirata Reservoir, *Belt Transect*, Purwakarta