**ABSTRACT**

**ANALYSIS OF THE EFFECT OF SEDIMENT ON THE QUALITY OF THE REEF CORAL REEF QUALITY GELAM CAPE REGION, HEMLET REED, DISTRICT PUBLICATIONS, JEPARA, CENTRAL JAVA PROVINCE**

**Erni Linda Angella Udam**

**114080073**

Coral reef is an ecosystem that is highly susceptible to disturbance due to the activities of both human and natural factors. Sediment is one of the natural factors that led to the death of coral reefs. therefore conducted an analysis to determine the effect of sediment on reef quality. This study conducted in Tanjung Gelam, Hamlet Reed, District Karimunjawa, Karimunjawa, Jepara, Central Java Province. The purpose of this study is (1) know the characteristics of the sediment, (2) create a map of the distribution of sediments, (3) create a map of the distribution of coral reef quality.

Methods used in this study is a survey method, analysis of sediment, and transect methods. parameters used in the sediment influence on the quality of the reef is a type of sediment, sediment thickness, and sediment depth.

Based on the results of the study, the type of sediment that is in the area of ​​research is intact shells, shell fragments, and lithic, of which there are three types of sediments are very dominant fractions of the shell, then certainly derived sediments in the study area is derived from the erosion of coral reefs. Sediment thickness varies greatly ranging from very thin to very thick. sediment thickness thinner then the better the quality of the coral reef or the thicker the thickness of the sediments in reef quality is getting worse. sampling and measurement of the thickness of the sediment carried out at three different depths, ie 1, 3, and 5 meters.

Keywords : Sediments, Coral quality