

ABSTRACT

Sriwahyuningsih Lasoma. 2014. Analysis of the performance of water distribution network Boalemo. Program S1 Civil Engineering. Engineering Faculty. State University of Gorontalo. Preceptor I Ir. Rawiyah Husnan, MT and Preceptor II Darwis Hineho, ST, MT

Water is a basic need for people who consumed every day and is very influential in every community activity. PDAM as a regional company that manages the water supply is expected to meet the needs of clean water for the community. The purpose of this study was to determine the performance of the water distribution network taps Boalemo by analyzing the performance of the service area by PDAM Boalemo by analyzing the ability of the network to meet the drinking water needs of the customers include discharge, pressure, and continuity

The method used in this study is the method of interviews and field observations, especially the District Tilamuta distribution network in 7 villages of 10 village sub-district services Tilamuta. Supply of water from the Water Treatment Plant (IPA) of 0.02 m³/second Ayuhulalo to meet water needs in the District Tilamuta.

The results showed that the 4 villages (Modelomo , Piloliyanga Housing Complex , Pentadu West and Pentadu East) is a village that is farthest from the water source Ayuhulalo IPA is very difficult to get clean water. This is caused by two factors , first the amount of energy lost by 2,674 m , the second discharge is needed at 0.008 m³/second while existing discharge of only 0.006207 m³/second .

Keywords : Network performance , Discharge , Pressure , Continuity .