

**SISTEM PEMENUHAN KEBUTUHAN AIR BERSIH  
PENDUDUK KECAMATAN JERUKLEGI  
KABUPATEN CILACAP**

**T E S I S**

Disusun Dalam Rangka Memenuhi Persyaratan  
Program Studi Magister Teknik Pembangunan Wilayah dan Kota

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## **ABSTRACT**

*Jeruklegi Subdistrict is one of prone to water area in Cilacap Regency. Cilacap Waterworks as water provider for the resident of Cilacap Regency had difficulties for distributing water in Jeruklegi, because of the hilly topography. From 13 residential area in Jeruklegi, only 6 had been served by Cilacap Waterworks and not all of them served continuously 24 hours yet.*

*According to description above, this research's purpose is to determine the delivery water system at Jeruklegi Subdistrict by identifying the water need of residents, how it done, then analyze primary data from questioner and combine them with secondary data using descriptive methode. To determine the water delivery system, comparing cost technique is used, from two available alternatives.*

*From the research, it is found that the resident daily water consumption is about 122-240 litre. It's above the standard of Public Works Department where each resident of subdistrict daily consumption is 99 litre. Steep and hilly topography caused difficulty to appoint the place for reservoir in determining alternatives phase. Transmission and distribution in one system is a problem at Jeruklegi water delivery system. The survey shows that 35,2% respondent using comunal well, it proved water source is hard to find there. Most of the resident using water from well and Cilacap Waterworks, but they realized that water from Cilacap Waterworks is better than from well.*

*Conclusion of this research are the water delivery system for Jeruklegi Subdistrict is a combination between pump and gravitation system. It's because the hilly topography of the area. Cilacap Waterworks' limited funding demands it to use existing water delivery system to supressed investation cost. Residents' willingnes to contribute in development of distribution system can be considered as supporting factor to developing water distribution system at Jeruklegi. Based on those conclusions, the writer recommends Cilacap Waterworks to build optimal water delivery system at Jeruklegi in several stages; make proposal to central or local government to help funding the development of the system; to make socialization programme for residents to use Cilacap Waterworks' water, because it's healthier than the well; involving residents of Jeruklegi to build the water distribution system.*

*Keyword: water delivery system*