

Water quality monitoring in refill depots Banyumas

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Abstract. The use of refill water is increasing due to lack of access to drinking water sources. 420 water depots are available in Banyumas. 66% of them have implemented water quality monitoring and only 83.4% qualify as drinking water. This study aims to identify the determinants quality of refills water. This observational study involves 162 water depots that have implemented water quality monitoring as samples. Data analysis was done statistically. There are 13.58% water depots are not yet eligible. Source of drinking water comes from wells (53.09%), local water company (33.95%) and springs (12.96%). This study show that water sources, tandon quality, environmental hygiene, hygiene behavior of handlers, filter size, use of disinfectant and coagulant usage are not related to quality of refill water. But there is a significant relationship between filter quality and quality of water refill (p value = 0,03; 95% CI = 1.00-10.53; PR = 3.26). This situation also indicates the weaknesses supervision of refill water depots that make the water quality has not met safety standards for consumers.

Keywords: water quality; refill depots; monitoring

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