

# **KUALITAS DAN KELAYAKAN AIR SUMUR DAERAH TERDAMPAK ROB DI PESISIR PANTURA Studi Kasus: Kecamatan Pekalongan Utara Kota Pekalongan**

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## **ABSTRAK**

Penelitian ini bertujuan untuk menganalisis pH, suhu, *turbidity* atau kekeruhan, TDS (*Total Dissolved Solid*), *salinity* atau kadar garam terlarut dan DO (*Dissolved Oxygen*) pada air sumur di Kecamatan Pekalongan Utara Kota Pekalongan, Subjek penelitian ini adalah air sumur di Kecamatan Pekalongan Utara, dan objek dalam penelitian ini adalah pH, suhu, *turbidity* atau kekeruhan, TDS, *salinity* atau kadar garam terlarut dan DO (*Dissolved Oxygen*) dalam air sumur tersebut. Hasil penelitian menunjukkan bahwa kadar pH, suhu, TDS, DO, kadar garam terlarut dan kekeruhan air sumur secara berturut-turut adalah 7,39; 29,8°C, 1660 mg/L; 1,90; 0,4 mg/L dan 5,5 NTU. TDS (jumlah padat terlarut), kadar garam terlarut, DO (oksigen terlarut) dan kekeruhan berada di atas batas kadar maksimal yang diperbolehkan sesuai dengan Permenkes No: 416/Menkes/Per/IX /2010, PP No: 82 Tahun 2001 dan Permenkes No: 492/Menkes/Per /IV/2010. Kadar pH dan suhu masih berada di bawah batas kadar maksimal yang diperbolehkan. Hal ini menunjukkan bahwa air sumur di Kecamatan Pekalongan Utara perlu mendapat pertimbangan untuk dikonsumsi secara langsung.

Kata kunci: Air Sumur, Kualitas Air

# **WELL WATER QUALITY AND FEASIBILITY IN THE TIDE-AFFECTED REGIONS ON THE PANTURA COAST**

## **Case Study: North Pekalongan District, Pekalongan City**

### **ABSTRACT**

This study aims to analyze pH, temperature, turbidity or turbidity, TDS (Total Dissolved Solid), salinity or dissolved salt content, and DO (Dissolved Oxygen) in well water in North Pekalongan District, Pekalongan City. The subject of this research is well water in Pekalongan District. North and the objects in this study are pHs, temperature, turbidity or turbidity, TDS, salinity or dissolved salt content and DO (Dissolved Oxygen) in the well water. The results showed that the pH, temperature, TDS, DO, dissolved salt content, and turbidity levels of well water were 7.39; 29.8°C, 1660 mg/L; 1.90; 0.4 mg/L, and 5.5 NTU. TDS (amount of dissolved solids), dissolved salt content, DO (dissolved oxygen), and turbidity are above the maximum permissible levels according to the Minister of Health Regulation No: 416/Menkes/Per/IX/2010, PP No: 82 of 2001 and Minister of Health Regulation No. : 492/ Menkes/Per /IV/2010. The pH and temperature levels are still below the maximum allowable levels. This shows that well water in North Pekalongan District needs to be considered for direct consumption.

**Keywords:** Well Water, Water Quality