

## ABSTRAK

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### ANALISIS KUALITAS MIKROBIOLOGI AIR SUMUR SEKITAR KANDANG TERNAK AYAM

(Studi di Desa Bleber Kecamatan Kras Kabupaten Kediri Tahun 2022)

xvi + 72 Halaman + 4 Gambar + 16 Tabel

Kandang ternak ayam yang berdekatan dengan sumur menimbulkan risiko terjadinya pencemaran air. Pencemaran air sumur dapat terjadi akibat kondisi fisik sumur yang buruk. Tujuan penelitian ini adalah untuk mengetahui kualitas Total Coliform dan *Escherichia coli* dalam air sumur sekitar kandang ternak ayam di Desa Bleber Kecamatan Kras Kabupaten Kediri Tahun 2022.

Jenis penelitian ini adalah observasional dengan pendekatan *cross sectional*. Teknik pengumpulan data dengan cara observasi langsung, pengambilan sampel, dan pemeriksaan laboratorium. Teknik pengambilan sampel menggunakan teknik *total sampling*. Analisis data dilakukan secara deskriptif.

Hasil penelitian menunjukkan jarak kandang ternak ayam dengan sumur tidak memenuhi syarat, kondisi fisik sumur tidak memenuhi syarat, arah aliran air tanah mengalir dari timur ke barat dan selatan ke utara. Kandungan *Total Coliform* dan *Escherichia coli* di air sumur tidak memenuhi syarat. Jarak sumur, kondisi fisik sumur, arah aliran air tanah dapat menimbulkan terjadinya pencemaran air tanah.

Diharapkan masyarakat memperhatikan jarak sumur, kondisi fisik sumur, dan arah aliran air tanah dalam pembangunan sumur maupun kandang ternak ayam agar tidak terjadi pencemaran air. Peneliti lain dapat melakukan penelitian lanjut terkait identifikasi arah aliran air tanah di sekitar kandang ternak dengan melakukan pengecekan muka air sumur. Instansi terkait dapat melakukan pengawasan, penyuluhan dan sosialisasi terkait pembangunan sumur yang baik dan benar.

Kata kunci : Kandang ternak ayam, sumur, kualitas mikrobiologi air

Daftar bacaan : 48 (2010-2021)

## ABSTRACT

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### MICROBIOLOGICAL QUALITY ANALYSIS OF WELL WATER AROUND CHICKEN CAGE

(Study in Bleber Village, Kras District, Kediri Regency in 2022)

xv i+ 72 Pages + 4 Images + 16 Tables

Chicken cage adjacent to wells pose a risk of water pollution. Pollution of well water can occur due to the poor physical condition of the well. The aim of this study was to determine the quality of Total Coliform and *Escherichia coli* in well water around the chicken cage in Bleber Village, Kras District, Kediri Regency in 2022.

This type of research will be observational with a cross-sectional approach. Data collection will use the method of observation, sampling, and laboratory examinations. Sampling is done using the total sampling technique. Data analysis is done using descriptive analysis.

The results showed that the distance between the chicken cage and the well did not meet the requirements, the physical condition of the well did not meet the requirements, the direction of groundwater flow was from east to west and south to north. *Total Coliform* and *Escherichia coli* in well water did not meet the requirements. The distance of the well, the physical condition of the well, the direction of groundwater flow can cause groundwater pollution.

It is hoped that the community will pay attention to the distance of the well, the physical condition of the well, and the direction of groundwater flow in the construction of wells and chicken cages so that water pollution does not occur. Other researchers can conduct further research related to identifying the direction of groundwater flow around the cattle pens by checking the water level of the well. Relevant agencies can carry out supervision, counseling and socialization related to the construction of good and correct wells.

Keywords : Chicken cages, wells, microbiological quality of water

reading list : 48 (2010-2021)