

**Title** Study on Water Quality in Huay Kha-Khang  
and Rong Khampae  
that Passed through Kerng Sub-district  
Community, Muang  
District, Maha Sarakham Province

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### **Abstract**

Study on Water Quality in Huay Kha-Khang and Rong Khampae that Passed through Kerng Sub-district Community, Muang District, Maha Sarakham Province. The datas were collected from 7 places in order to analyzed for

out physical, chemical, and biological characteristics of water quality. Those were temperature, turbidity, conductivity, quantity of total dissolved solids, suspended solids, pH, dissolved oxygen, Biochemical Oxygen Demand, phosphate, nitrate, and coliform bacteria. The study took place from November to December 2015. Mean and standard deviation were used in analyzing.

From the exploring of general environments of the area, the land was mostly used for housing estates and farmlands. According to the study of water quality from 7 places, it showed the temperature was 27-29 °C, the turbidity was 12.45-44.46 NTU, Electrical conductivity was 255-330  $\mu\text{s}/\text{cm}$ , quantity of total dissolved solids was 152-298 mg/L, quantity of suspended solids was 7.3-12.1 mg/L, potential of Hydrogen ion (pH) was 6.2 – 7.9, dissolved oxygen was 4.23 – 6.00 mg/L, Biochemical Oxygen Demand was 5.5 – 8.1mg/L , Phosphates was 0.409 - 2.943, Nitrates was 0.766 - 1.166, and Coliform bacteria was 230 - >2,400 MPN/100ml respectively.