**Title** Study on Water Quality in Huay Kha-Khang and Rong Khampae

 that Passed through Kerng Sub-district Community, Muang

 District, Maha Sarakham Province

**Authers** Gittipong Laosopa

 Pich Khamwongsa

 Jakkapan Muanchaiyaphoom

**Advisers** Miss Angsuma Kanchak

 Miss Chompoo Nuasri

 Dr. Nukoon Kudthalang

**Department/Faculty** Environmental Science/ Faculty of Science and Technology

**University** Rajabhat Maha Sarakham University

**Year** 2016

**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 µs/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.