



## UI GreenMetric Questionnaire

University : Ubon Ratchathani Rajabhat University  
Country : Thailand  
Web Address : <https://www.ubru.ac.th/>

### [4] Water (WR)

#### [4.5] Water pollution control in campus area



The quality of water in the ponds behind Building 9, behind Building 5, and at the Kanchanapisek Cultural Center of Ubon Ratchathani Rajabhat University was monitored and inspected in October 2022



Picture of water sampling point

- Inlet point for the pond behind Building 9, sample point 1.
- Outlet point for the pond behind Building 9, sample point 2.
- Inlet point for the pond behind Building 5, sample point 3.
- Outlet point for the pond behind Building 5, sample point 4.
- Inlet point for the Kanchanapisek Cultural Center pond, sample point 5.
- Outlet point for the Kanchanapisek Cultural Center pond, sample point 6.

#### Descriptions:

UBRU has a policy in Green University where water management is included in. The university inspects the water quality regularly and utilizes the treated water on daily basis, mainly, to water the trees within the university.

#### Water Inspection Parameters:

1. Potential of Hydrogen ion (pH)
2. Electrical Conductivity (EC)
3. Total dissolved solids (TDS)
4. Biochemical Oxygen Demand (BOD)
5. Chemical Oxygen Demand (COD)
6. Dissolved Oxygen (DO)

#### Analysis Results:

- **pH (Potential of Hydrogen ion):** The pH values ranged from a minimum of 6.44 to a maximum of 7.13, with an average value.
- **EC (Electrical Conductivity):** Electrical Conductivity (EC) had an average value that ranged from 239.6 to 499 microsiemens per centimeter.
- **Total Solids:** The Total Dissolved Solids (TDS) ranged from an average of 80 to 302 milligrams per liter.
- **BOD (Biochemical Oxygen Demand):** Biochemical Oxygen Demand (BOD) 40% had an average value ranging from 0.6 to 13.6 milligrams per liter. BOD 60% showed similar results.
- **COD (Chemical Oxygen Demand):** The average value for Chemical Oxygen Demand (COD) ranged from 74.6 to 533.3 milligrams per liter.
- **DO (Dissolved Oxygen):** Dissolved Oxygen (DO) had an average value that ranged from 0.3 to 6.7.