Wastewater treatment using denitrification process by anammox (AX) reaction combined with heterotrophic nitrate reduction was investigated by many researchers. We have investigated this process and obtained basic performance. But, detailed operating factors was unknown. So, we had investigated detailed operating factor to utilize practical application.

**Object**

1. Effect of circulating ratio on T-N removal.
2. Effect of C/N ratio on T-N removal.
3. Estimate of AX contribution from ratio of anammox reaction / heterotrophic denitrification.

**Methods**

- **Experimental equipment and operating method:**
  - Anammmox reactor was operated with AX system.
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