

<p>1. Technology Others (including resource recovery, rivers, and forests, etc)</p>
<p>2. Project Name 2.4.22 Evaluation of the compatibility of devices, etc. used in the water reuse technology</p>
<p>3. Keyword Wastewater treatment, reuse, water reuse technology, training</p>
<p>4. Objectives As the water quality standards, including the Water Supply Act, were revised, TOC (total organic carbon) was added to items of water quality as an indicator for gauging the content of organic substances.</p>
<p>5. Contents The combustion and oxidation in the TOC measurement equipment are typically catalyzed oxidation inside combustion tubes. As for the measurement of water containing high concentrations of salts, the problems of the clogging of combustion tubes with deposits, the maintenance degradation due to catalyst deterioration, and measurement stability were pointed out. On the other hand, in specific drainage facilities designated by the Water Quality Pollution Control Act, it is obliged to measure the total amount of nitrogen automatically. Therefore, there is the demand for analysis apparatus that can automatically and stably measure TOCs and the total amount of nitrogen. We evaluate the compatibility, performance, safety, etc. of equipment for measuring TOCs and the total amount of nitrogen for water containing high concentrations of salts, which can be used for the above mentioned purposes and does not use the catalyzed oxidation method. The results of laboratory experiment indicate that if there are salts, the precision of analysis of low-concentration nitrogen (around 0.5 mgN/L) becomes unstable. In addition, demonstration equipment was installed in the demonstration site (Water Plaza Kitakyushu) at the end of September, and long-term operation data were collected. The specified target values have been satisfied as a whole.</p>
<p>6. Results For the compatibility evaluation, a committee was organized, and committee meetings were held, to receive guidance and advice. Then, we issued compatibility evaluation reports.</p>
<p>7. Reference Consignment business from Ecolo Co., Ltd.</p>