

## GROWTH UNDERPINNED BY OUR TECHNOLOGICAL CAPABILITIES

### APPLYING ENGINEERING TECHNOLOGY TO IMPROVING THE WATER QUALITY OF LAKES AND OTHER BODIES OF WATER

Today, water pollution is viewed as one of the global-scale environmental problems facing mankind. To answer the needs of countries struggling with water pollution, and as part of our new business of developing fresh applications for engineering technology, JGC is making strides in the water purification business.

China is an example of a country where water pollution has become a severe problem in conjunction with rapid economic growth, and dealing with it is an urgent matter. JGC has conducted water purification testing at Lake Taihu, which is rapidly becoming polluted.

The test was conducted in Wuxi in Jiangsu Province, the area where the pollution of Lake Taihu is worst. Using technology with ozone developed by a Japanese venture company, we acquired basic data in order to comprehensively purify the entire aquatic environment.

As a result of testing, in a period of one month we succeeded in cleaning up the water in the test area, which had been the most polluted water, to a level where it could be used as drinking water.

JGC is conducting the following activities with respect to the water pollution of Lake Taihu, and aiming to purify the entire aquatic environment comprehensively.

- Purifying the water
- Converting pollutants into natural resources
- Recovering the natural purification capability of the system

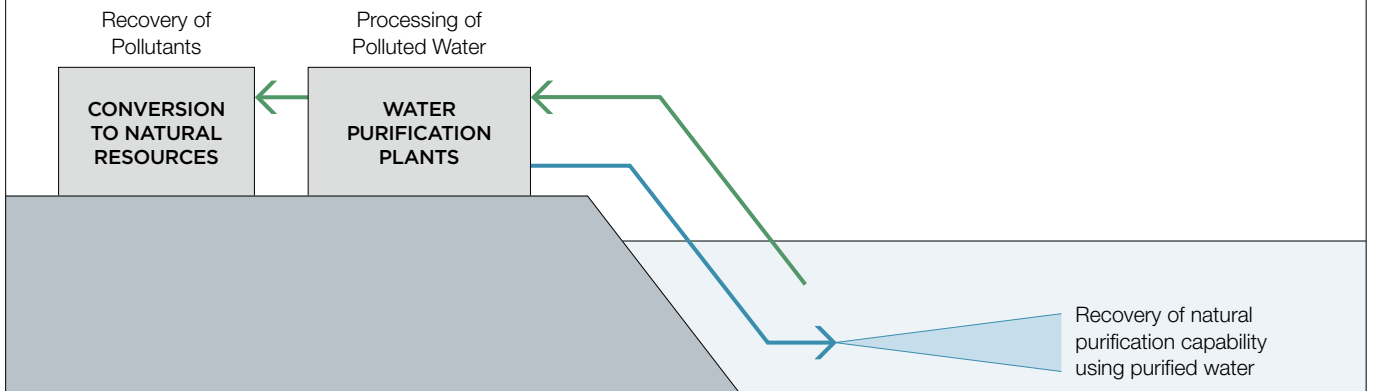
Going forward, we will conduct engineering work based on the data and know-how that we gain from element technology testing at JGC's research and development center, on-site studies in China, and the purification testing using actual-size equipment on-site in China.

The governments of both Japan and China were very interested in this initiative that could only be carried out by an engineering company. On November 28, 2008, this was recognized as a signature project at the 3rd Japan-China Energy Conservation Forum held jointly by both governments.

JGC will partner with the China Energy Conservation Investment Corporation (China's only national-class energy conservation and environment-focused investment company) to advance the water purification business in China and contribute to protecting the environment.

## WATER PURIFICATION TEST FLOW

### WATER PURIFICATION PLANTS



Testing area before purification (approx. 20,000 m<sup>3</sup>)



Roughly 6 cm of transparency



Testing area one month after start of purification



More than 1.25 m transparency