

Wastewater treatment at a food processing plant



- Wastewater type : Food processing wastewater
- Volume : 200m³/day
- Model : Aquablaster system AL-750



Problem

Rough wastewater treatment was carried out using a pressurized flotation device and microorganism carrier agents, but the quality of discharged water was not consistent, and treatment costs were very high.

Challenges

Treatment was stabilized and simplified, and treatment costs were reduced.

Solutions

There was an existing wastewater treatment pit with a capacity of approximately 500 tons. Half of the water tank was used to install Aquablaster, and modifications were made so wastewater was discharged to the sewage system. The remainder of the tank was filled in.

Effects

Treatment proceeded smoothly, and aeration time during operation was reduced to around 16 hours, cutting electricity costs as well.

Treatment results (Unit: mg/l)

| | | | | |
|-------|---|-------|---|-------------|
| B O D | : | 1,000 | → | 200 or less |
| S S | : | 800 | → | 200 or less |
| N-hex | : | 100 | → | 30 or less |



At a new plant, we were involved in wastewater treatment from the design stage.

Repeat orders

Previously, Aience had remodeled an existing treatment facility with highly successful results, receiving positive feedback such as "We never knew such miraculous wastewater treatment existed!" When the new plant was planned, wastewater treatment was left up to us from the design stage. At this facility, the three blowers do not operate at the same time, they can treat wastewater by operating one by one for eight consecutive hours apiece, and the client is pleased with the energy savings.

