

## Landfill Leachate Treatment Using Biofilm Technology

### Cost Effective Nitrification and Denitrification Using BioCord™ Reactors

Municipal landfill leachate is one of the most difficult types of wastewater to treat, due to high contaminant and nutrient concentrations. Using conventional wastewater solutions has a high capital and operational cost. Biofilm wastewater treatment technology offers a solution that is simple and cost effective.

#### Kouda, Japan

Using an anoxic/aerobic process with BioCord™ Reactors using Biofilm Technology, the city of Kouda, Japan was able to treat the leachate from their landfill site. The results was treated wastewater that met all discharge standards and was suitable for discharge back into the environment

Parameter	Influent	Effluent
BOD	250 mg/L	<10mg/L
Total Suspended Solids	200 mg/L	< 10 mg/L
Total Nitrogen	100mg/L	<10mg/L
Total Phosphorus	7 mg/L	<1 mg/L



#### Kitaibaraki, Japan



Using an anoxic/aerobic process with BioCord™ Reactors using Biofilm Technology, the city of Kitaibaraki, Japan was able to treat the highly volatile leachate from their landfill site. This leachate was extremely high in toxic ammonia, but the treatment resulted in a process that was suitable for discharge back into the environment.

Parameter	Influent	Effluent
Total Nitrogen	365 mg/L	20 mg/L
Ammonia	380 mg/L	1 mg/L

**For further information or project evaluation contact Bishop Water Technologies**