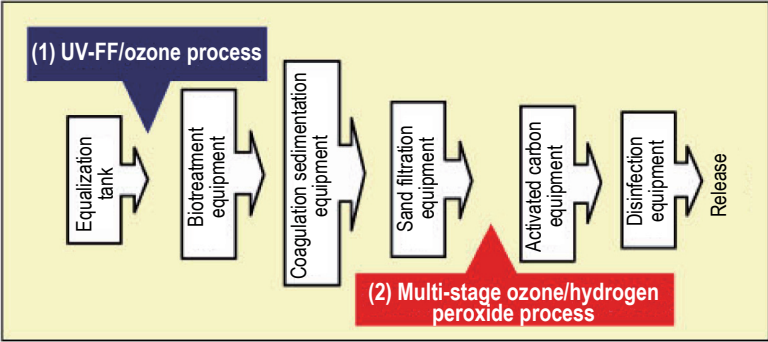


Technical Information Sheet

1. Name of technology	Advanced treatment of leachate from final disposal sites (Takuma Advanced Oxidation System (Dioxin removal equipment and COD removal equipment))
2. Type of technology	To improve the treatment capacity of the leachate treatment process of a final disposal site, advanced oxidation is performed with ultraviolet and ozone or ozone and hydrogen peroxide.
3. Description of technology	
Objective, application, characteristics, delivery record, and price of technology	<p>[Objective and application of the technology] Advanced leachate treatment</p> <p>[Characteristics of the technology] The UV/ozone process is provided downstream of the equalization tank to decompose dioxins, etc. The UV lamp is a falling film reaction lamp, which does not come in contact with treated water, preventing contamination. This enables easy maintenance and efficient treatment with a thinner film. The multi-stage ozone/hydrogen peroxide process is provided downstream of the sand filtration process, providing improved quality of effluent in terms of dioxins, colors, etc. The combination of the multi-stage ozone/hydrogen peroxide process and bio-treatment process enables efficient COD removal.</p> <div style="text-align: center;">  <p>Leachate treatment system (example)</p> </div> <p>[Delivery record] Town Y (23 m³ per day), Town N (60 m³ per day)</p> <p>[Price and other inquiries] Engineering Planning Department (Tokyo), Planning and Development Center, TAKUMA Co., Ltd. Person in charge: Susumu Uno TEL: 03-5822-7894 (Direct) FAX: 03-5822-7895</p>
4. Classification of technology	
(1) Applicable fields	Final disposal site
(2) Target waste	Other (leachate from final disposal sites)
(3) Services provided	Plant construction, Sales of machinery and equipment, Waste treatment service, Technical cooperation/licensing, Environmental impact assessment, Survey/data processing, Other
5. Countries to which this technology can be provided	No limitations have been placed on country or region.
6. Keywords	Leachate from final disposal sites, advanced oxidation, dioxins, degradation and removal
7. Contact information	Engineering Planning Department (Tokyo), Planning and Development Center, TAKUMA Co., Ltd. Person in charge: Susumu Uno TEL: 03-5822-7894 (Direct) FAX: 03-5822-7895