## Technical Information Sheet

<table>
<thead>
<tr>
<th>1. Name of technology</th>
<th>Advanced treatment of leachate from final disposal sites (Takuma Advanced Oxidation System (Dioxin removal equipment and COD removal equipment))</th>
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</thead>
<tbody>
<tr>
<td>2. Type of technology</td>
<td>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.</td>
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</tbody>
</table>
| 3. Description of technology       | **Objective and application of the technology**  
Advanced leachate treatment  

**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. |
|                                   | **Delivery record**  
Town Y (23 m³ per day), Town N (60 m³ per day)  

**Price and other inquiries**  
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Person in charge: Susumu Uno  
TEL: 03-5822-7894 (Direct)  
FAX: 03-5822-7895 |
| 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.  
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