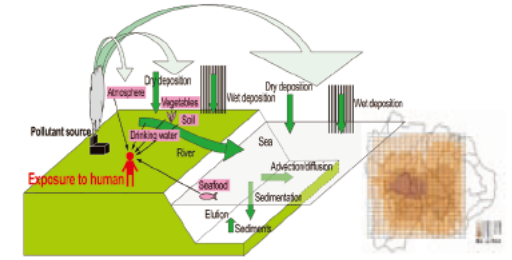
Technical Information Sheet

1. Name of technology	Technology for assessing environmental risks posed by toxic chemicals
2. Type of technology	There is growing concern over the effects of environmental toxic chemicals on ecosystems and human health. Our company scientifically analyzes and assesses environmental risks by conducting a variety of research projects. Such research projects include studies on the environmental effects and exposure levels of chemicals and ultra-trace substances based on accurate and reliable chemical analysis, biological tests using a variety of aquatic species (ecological effect tests), as well as detailed surveys focused on the environmental effects of chemicals and the mechanism of contamination by hazardous substances. We provide systematic consulting services, including scientific knowledge and technological information required to reduce and control environmental risks posed by toxic chemicals in the operation and management of waste treatment facilities.
3. Description of technology	
Objective, application, characteristics, delivery record, and price of technology	[Objective and application of technology] Our technology is aimed at properly managing gases and water emitted from waste plants and other waste disposal facilities in order to avoid their effects on human health and ecosystems. To this end, we scientifically analyze and assess environmental risks by conducting surveys on the environmental effects and exposure levels of toxic chemicals in the environment, along with tests using aquatic species. At the same time, we provide scientific knowledge and technological information required to reduce and control such risks. [Characteristics of technology] We perform analysis on the following chemicals to study the environmental effects and exposure levels of chemicals, to plan and conduct detailed surveys focused on the environmental behavior of toxic chemicals and contamination mechanisms, and to propose measures required to reduce and control environmental risks. ➢ Dioxins and PCBs ➢ Persistent organic pollutants (POPs) ➢ Agrichemicals and residual agrichemicals in foods ➢ Heavy metals ➢ Endocrine disrupting chemicals ➢ Volatile organic compounds (VOCs)  Environmental behavior of chemicals (dioxin as an example) Concentration distribution around the emission source [Delivery record] We have been using this technology to conduct operations for more than 20 years for a variety of institutions in Japan and overseas. We are also cooperating in conducting research for the revision of the OECD Test Guidelines, which provide international standards for ecological effect tests, and our technology is globally recognized. [Price or contact point] Ikuro Mitsumoto, Overseas Business Department, IDEA Consultants, Inc. (TEL: +81-045-593-7637; e-mail: mitu@ideacon.co.jp)
4. Classification of technology	
(1) Applicable fields	Toxic waste treatment, surveys and assessment
(2) Target waste	Waste plastics, construction waste, home appliances, fluorescent light tubes, electronic products, mobile phones, automobiles, cells and lead batteries, waste tires, medical waste, and waste oil
(3) Services provided	Consulting, environmental impact assessment, surveys, and data processing
5. Countries to which this technology can be provided	Southeast Asia
6. Keywords	Toxic chemicals, exhaust gases, wastewater, leachate, biological effects, management, monitoring
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