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Sep 23-27/02 Environmental Ergonomics

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NEDO* Program on Soil Remediation.. in situ soil bioremediation

New Energy and Industrial Technology Development Organization

Phase 1 of NEDO's Project on Soil Remediation was conducted from 1995 to 2001.

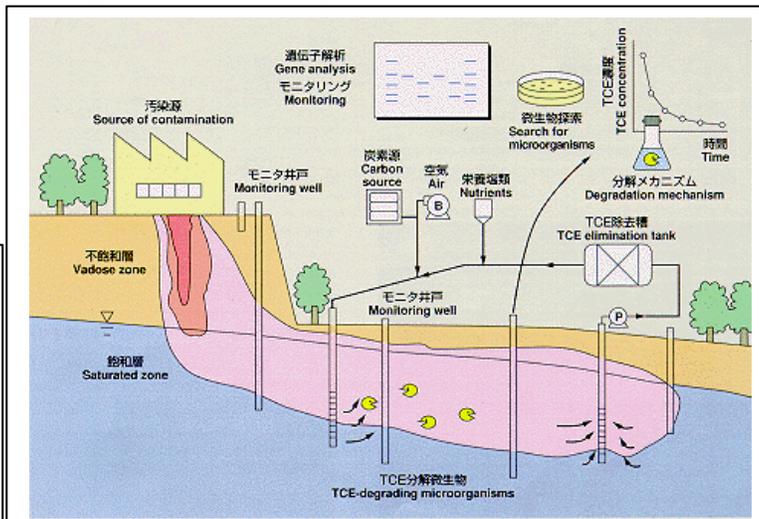
The Final Report will be published within this year and can be obtained from the NEDO technical database (nedotech@infoc.nedo.go.jp)*. **Phase 2**, started in 2001, covers the development of the Remediation technology for the soil polluted by heavy oil and heavy metals. <http://www.nedo.go.jp/informations/press/130427/130427.html>

Phase 1 was designed to develop technologies, using the functions of micro-mechanisms, to efficiently degrade and detoxify degradation resistant substances such as organic chlorinated compounds and to clean up soil and under-groundwater environments.

The research areas included: **1. Search for microorganisms, analysis of degradation genes, and breeding improvement:** a. A search for microorganisms capable of degrading contaminants was conducted at contaminated sites. b. Genes capable of degradation were analyzed to isolate microorganisms. c. In order to obtain microorganisms of higher degradation capability, breeding and improvement were carried out by means of genetic engineering techniques. **2. Development of biological treatment technologies for contaminated soil:** a. A preliminary test for demonstration study and an effectiveness test and impact analysis for exogenous microorganisms were performed. b. A demonstration study of in-situ bioremediation was conducted at a contaminated site and its effectiveness was evaluated. **3. Development of analysis technologies for microorganisms:** Monitoring technologies for microorganisms using molecular biological techniques were developed in order to study the correlation between

effectiveness and biological contribution & the environmental impact of bioremediation application.

** If unsuccessful, please contact ARO-FE.*



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For Remediation Activities in Japan, click on: <http://www.gepc.or.jp/english/eindex.html>



Mechanical & Environmental Sciences