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CONTACT INFORMATION

Last Revised: 11/23/01

WEB Info: DAndreaG@arofe.army.mil

WEB Master: suzukim@ditcfe.disa.mil

NEDO* Program on Soil Remediation (Phase II) ..

in situ soil bioremediation * *New Energy and Industrial Technology Development Organization*

Phase II started in 2001 and was designed to develop low cost, high performance Remediation Technologies for soil polluted by heavy oil and heavy metals. Six concepts are being pursued:

- 1) High Performance Soil Remediation Technology for Oil Polluted Soil by Kajima**
This technology treats the high concentrate oil-polluted soil to low concentrate level by using the air bubbling method. Oil is separated from the soil by air bubbling. (See Figure 1)
- 2) High Performance Low Temperature Bio-Remediation Technology for Oil Polluted Soil by Taisei.** This technology treats the oil-polluted soil by using bacteria at low temperature. The key of this technology is keeping the appropriate temperature for bacteria during the winter season.
- 3) Soil Remediation Technology for Oil Polluted Soil by Kumagai Gumi.** This technology treats the oil-polluted soil by using tornado combo. The oil-polluted soil is grinded together with water in the tornado combo reactor, and then the oil is separated from the soil. (See Figure 2).
- 4) Soil Remediation Technology for Oil Polluted Soil by Sumitomo Metal Mining.** The pH and temperature adjusted water are added to the oil-polluted soil, and then mixed and washed in the rotating cleaning machine. The oil in the soil is separated from the soil. The washed soil are sieved to the 10-30 micro sizes and then back-filled.
- 5) Soil Remediation by ECGO (Electrical Chemical Geo Oxidation) Method by Kurita**
This technology developed by Germany Co. and licensed to Kurita, evaluates in-situ remediation of the polluted soil by Tri-chloro-ethylene by using ECGO technology. ECGO technology decomposes the organic compounds by energizing the direct current between two electrodes installed in the polluted soil.
- 6) Soil Remediation Technology for Heavy Metal Polluted Soil by Shimizu**
This project evaluates the in-situ soil remediation technology for heavy metal polluted soil by soil-flushing method, porous electrode screen method, etc. In addition, it will establish the technology for simulation analysis for the soil remediation and dispersion/protection of the polluted materials.

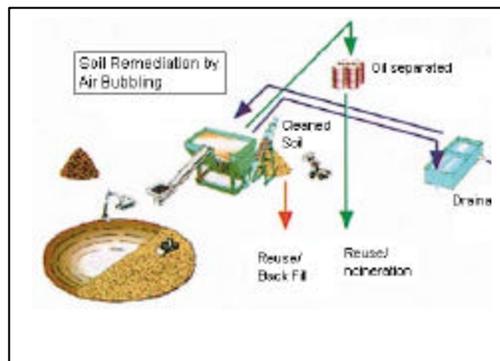


Figure 1: Soil Remediation by Air Bubbling

Figure 2: Soil Remediation by Tornado Combo

Useful URL Addresses: (nedotech@infoc.nedo.go.jp)
<http://www.nedo.go.jp/informations/press/130427/130427.html>