

12. Study on the Bioremediation for the Oil Contaminated Soil in the Saturated Ground

Takashi Misawa, Hiroaki Shiraishi, Seiji Ebisu

Since the enactment of the Soil Contamination Countermeasures Law, contamination of soil has been increasingly found during investigations performed while transacting land, increasing purification works. However, there are no effective technologies available for purifying oil-contaminated soil in the saturated ground at the site, and the contaminated soil is usually removed and replaced by non-polluted soil. In-situ purification technologies have been awaited for treating soil under structures such as factories in operation. An in-situ method for purifying oil-contaminated soil is being developed using horizontal direction drilling. This paper describes basic experimental results of purification technologies of oil-contaminated soil in the saturated ground, purification using microorganisms, and air sparging.

Key words : oil contaminated soil, microorganism purification, in-situ purification, saturated ground