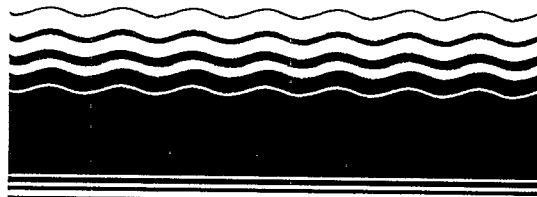




# **SITE**

**SUPERFUND INNOVATIVE  
TECHNOLOGY EVALUATION**



## **Technology Demonstration Summary**

### **SITE Program Demonstration of a Trial Excavation at the McColl Superfund Site**

Region IX of the U.S. Environmental Protection Agency (EPA), in cooperation with EPA's Air and Energy Engineering Research Laboratory (AEERL) and EPA's Superfund Innovative Technology Evaluation (SITE) Program, and with assistance from the California Department of Health Services (DHS), conducted a trial waste excavation project at the McColl Superfund site in Fullerton, CA.

In the early to mid-1940s, the McColl site was used for disposal of acidic refinery sludge, and in 1982, it was placed on the National Priorities List (NPL). The McColl waste is known to release volatile organic compounds (VOCs) and sulfur dioxide (SO<sub>2</sub>) whenever disturbed. Since 1984, the entire site has been covered with soil in an attempt to minimize atmospheric emissions of VOCs and SO<sub>2</sub>.

In February 1989, EPA and DHS issued a proposed plan for the McColl project selecting thermal destruction, either on or offsite, as the preferred remedy. An important component of this remedy is the excavation and waste-handling activities that must occur before thermal destruction. The overall goal of the trial excavation was

to obtain information pertaining to these activities that would support the selection of thermal destruction as the preferred remedy and that would aid in the design of a thermal destruction remedy.

EPA determined that the trial excavation was necessary to ascertain if the McColl waste could be excavated with conventional equipment without releasing significant amounts of VOCs and SO<sub>2</sub> to the surrounding community. The trial excavation was also necessary to define the treatment needed, if any, to improve the handling characteristics of the waste as a precursor to thermal destruction. The trial excavation was a research project designed to gather information for use in the design of the final remediation for Superfund sites and specifically for the McColl Superfund site in Fullerton, CA.

*This Summary was developed by EPA's Air and Energy Engineering Research Laboratory, Research Triangle Park, NC, and Risk Reduction Engineering Laboratory, Cincinnati, OH, to announce key findings of the SITE program demonstration that is fully documented in a separate volume of the same title (see ordering information at back).*



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*The complete report, entitled "SITE Program Demonstration of a Trial Excavation at the McColl Superfund Site," (Order No. PB92-226 448/AS; Cost: \$35.00, subject to change) will be available only from:*

*National Technical Information Service*

*5285 Port Royal Road*

*Springfield, VA 22161*

*Telephone: 703-487-4650*

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EPA/540/SR-92/015

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