



DEPARTMENT OF THE NAVY

NORTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
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MEMORANDUM

FOR THE MEMBERS OF THE TECHNICAL REVIEW COMMITTEE (TRC) FOR THE
INSTALLATION RESTORATION PROGRAM AT NAVAL WEAPONS INDUSTRIAL RESERVE
PLANT (NWIRP) CALVERTON, NEW YORK

Enclosed is the Navy's Summary Results Report for the Air Sparging/Vapor Extraction Pilot Study that was conducted at NWIRP Calverton, New York. This study was conducted at Site 2 - Fire Training Area during a four month period which started in the beginning of August 1995 and ran through December 1995. This technology was considered due to its unique characteristic to remediate both the soils in the vadose zone and the shallow layers of groundwater at the same time.

The purpose of this pilot study was to demonstrate that this type of technology could be a potentially viable and cost effective option for remediation of this site and other sites that have similar contaminants at the Calverton facility. The contaminants at Site 2 that were targeted were fuels and solvents. An additional goal of this study was to determine if this type of technology was effective in eliminating or substantially reducing a floating free-product layer that was also identified at the site.

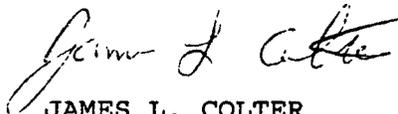
In general, the results of the pilot study were favorable. Measurable amounts of both chlorinated and non-chlorinated volatile organic contamination were removed from the soils and groundwater. Similar reductions in semivolatile contamination was also noted. The effects of this technology regarding the free-product layer were not totally conclusive. It does appear that the system did liberate some soil-bound free product however, it was not determined if the overall thickness of the layer was affected.

It was determined that the system should continue to run for an additional period of time to better measure the overall effectiveness of the system. Additionally, more data needs to be gathered in order to determine if this technology should be used at this site as a final remedial action. Therefore, the system was restarted in early May 1996 and will continue to run until the end of September 1996. At that time, a follow-up report will be issued.

Any comments or observations that you may have regarding the enclosed document would be appreciated. If you would like to discuss this issue further or if you need additional information, please give me a call at (610) 595-0567, extension 163. If you would like to fax any comments in, my fax number is (610) 595-0555.

Thank you for your continued interest and participation in NWIRP Calverton's IR program.

Sincerely,



JAMES L. COLTER
Remedial Project Manager
by direction of the
Commanding Officer

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