



**DEPARTMENT OF THE NAVY**

ENGINEERING FIELD ACTIVITY, NORTHEAST  
NAVAL FACILITIES ENGINEERING COMMAND  
10 INDUSTRIAL HIGHWAY  
MAIL STOP, #82  
LESTER, PA 19113-2090

N00158.AR.000153  
NAS WILLOW GROVE  
5090.3a

IN REPLY REFER TO

5090  
Code 1821/JLC

**25 JUN 2001**

Ms. Pam Reigh  
Pennsylvania Department of Environmental Protection  
555 North Lane  
Conshohocken, PA 19428

Dear Pam:

Subj: FINAL REPORT ON PERFORMANCE OF VACUUM-ENHANCED LNAPL RECOVERY SYSTEM  
FOR CALENDAR YEAR 2000 AT NAVY FUEL FARM; NASJRB WILLOW GROVE, PA

The Navy is enclosing a Final Report<sup>0</sup> regarding System Performance of the LNAPL Recovery System that was installed at the Navy's Fuel Farm (IR Site 10). Installation of the full-scale LNAPL Recovery System was completed in January 1998 and, to date, the system has continued to be operational. This report summarizes and describes the system's performance for the year of operation covering the period from January 2000 until December 2000.

The report will conclude that, although the LNAPL Recovery System continues to yield free product, the effectiveness of the system has been significantly reduced. Therefore, the Navy is recommending that the vacuum enhanced portion of the treatment system be discontinued for a period of time. During that time, recovery of free product will continue using more passive techniques such as bailing or absorbent pillows, and then compare the rates of recovery.

In addition, the groundwater extraction portion of the system has continued to extract and treat groundwater contaminated with low levels of BTEX compounds. Graphs that have been incorporated into this report will show that the influent concentrations of these BTEX compounds have gradually reduced over time. Therefore, the Navy would also like to explore the possibility of closing this site out under the ACT 2 requirements of PADEP's Land Recycling Program and would appreciate any comments that you may have regarding this issue.

If you have any questions or would like to discuss the enclosed document further, please call me at (610) 595-0567, extension 163.

Sincerely,

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

Enclosure: (1) LNAPL System Performance Report for Calendar Year 2000

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