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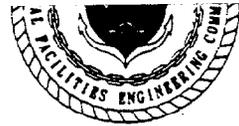
FACT SHEET UPDATE ON ENVIRONMENTAL STUDIES BASE LAUNDRY FACILITY AREA C  
NTC ORLANDO FL  
1/1/1996  
NAVFAC SOUTHERN



# Naval Training Ce Orlando, Florida

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## Environmental Studies Base Laundry Facility, Area C

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*This fact sheet was developed to inform interested citizens about the Naval Training Center, Orlando environmental program. Fact sheets will be distributed periodically to keep the community informed. Additional copies of these fact sheets can be obtained from any member of the NTC, Orlando Restoration Advisory Board or by calling the NTC, Orlando Public Affairs Office at (407) 646-4430.*

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### Introduction

Preliminary studies known as site screening investigations have recently been completed at the laundry facility at Area C of the Naval Training Center (NTC). Area C is two miles west of the NTC Main Base, adjacent to the Koger Business Center, a condominium complex, and Lake Druid. The laundry, which is currently inactive, is in the northwest corner of Area C (Figures 1 and 2 on back page). The site screening work at the laundry is part of the Installation Restoration program at NTC and included soil and groundwater sampling and analysis. In response to questions from the NTC Restoration Advisory Board, followup surface water and sediment sampling in Lake Druid has also been performed.

### Findings

Soil samples from the laundry vicinity contained tetrachloroethene (PCE), formerly used as a drycleaning solvent at the laundry, at levels above State of Florida cleanup standards. Both PCE and trichloroethylene (TCE, another solvent) were detected in shallow groundwater samples at levels above State and Federal cleanup standards. Near-shore surface water and sediment samples from Lake Druid contained PCE, TCE, dichloroethene (DCE), and vinyl chloride. In the environment, PCE is often transformed into TCE, DCE, and vinyl chloride. Samples taken further out in the lake generally contained little or none of these substances. The contamination is believed to be the result of past laundry and drycleaning operations at the site.

### Are There Any Immediate Risks?

PCE, TCE, and vinyl chloride are known carcinogens which when released to the soil tend to move into groundwater or vaporize into the air. People are most often exposed to these compounds by breathing contaminated air or drinking contaminated water.

A risk evaluation at the laundry facility has determined that swimming in Lake Druid is the most likely path for human exposure to these contaminants. Preliminary data indicate that such exposures do not present health risks, given the contaminant concentrations found in lake samples. Since area groundwater and Lake Druid are not used for drinking water, human contact with the contaminants in this way is unlikely.

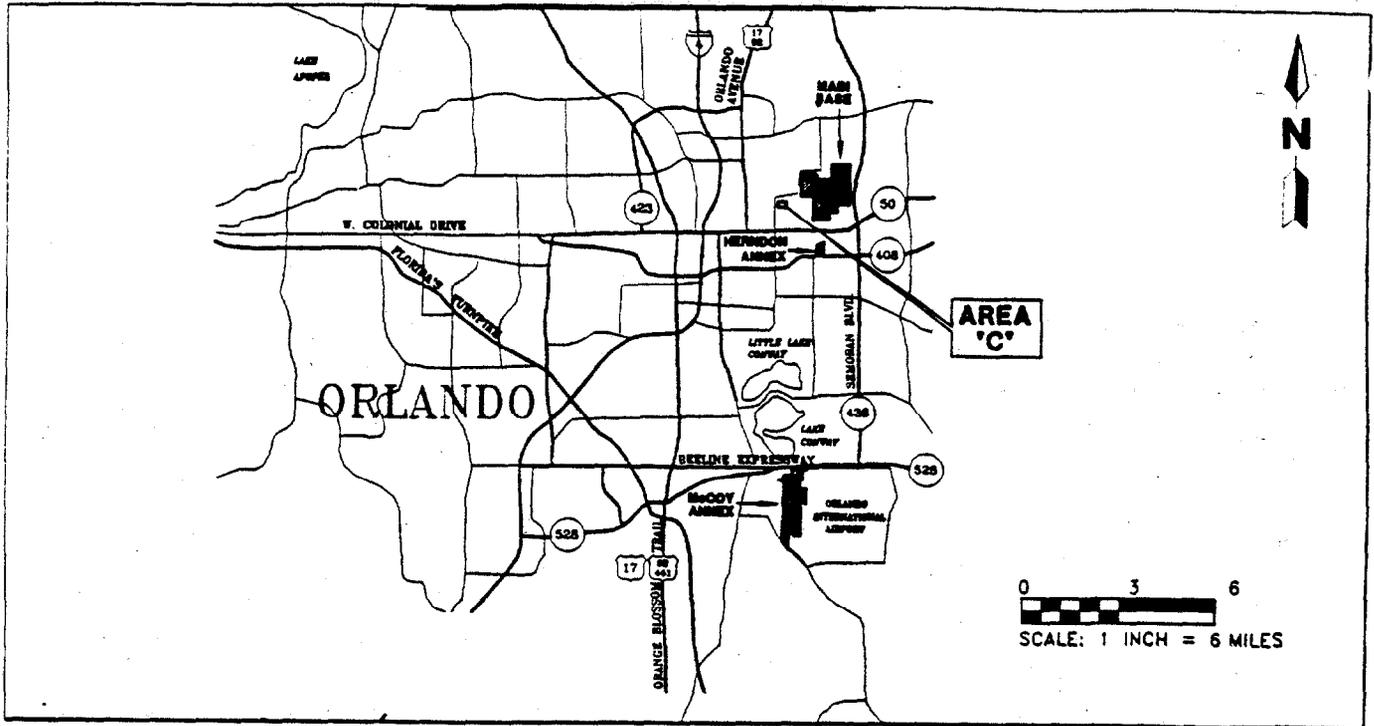
### About Vinyl Chloride

Vinyl chloride belongs to a group of chemicals called chlorinated solvents. It is a colorless gas that mixes with water but evaporates completely when exposed to the air. In its most common form, polyvinyl chloride is used to make PVC, a hard plastic. It is also found in cigarette and cigar smoke and was once an ingredient in some cosmetics. While most vinyl chloride comes from the plastics industry, it can also be formed by the natural breakdown of materials such as solvents under environmental conditions typical of sites like the base laundry.

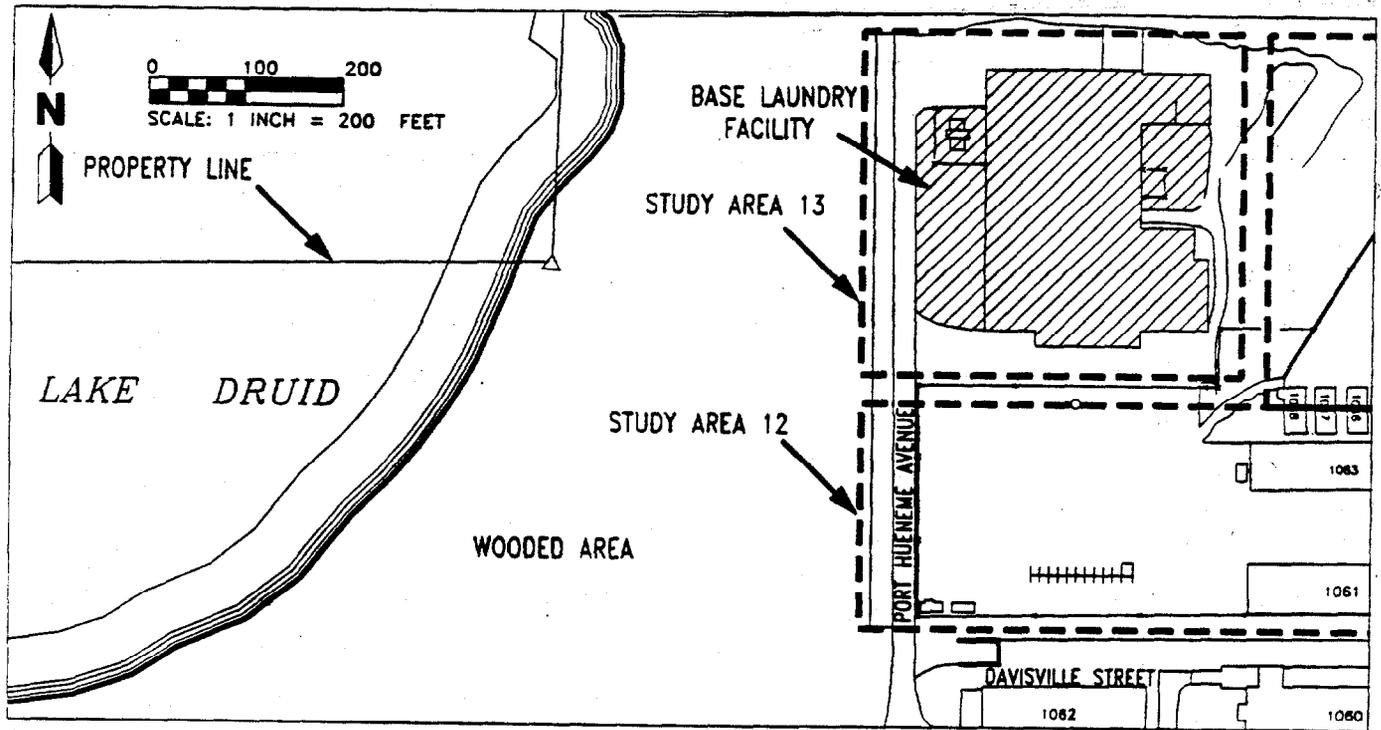
### What's Next?

Navy and contractor personnel are working with State and Federal environmental officials to develop a cleanup plan for the laundry site which would prevent further discharge into the groundwater and Lake Druid. Further sampling is also likely in Lake Druid and in the wooded area between the lake and the laundry buildings. The need for sampling at some offbase locations will also be assessed. If the results of these studies indicate immediate health concerns, the affected community will be promptly and fully informed, and interim cleanup measures will be taken while permanent plans are developed.

**Figure 1. Location of Area C, Naval Training Center, Orlando**



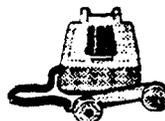
**Figure 2. Location of Base Laundry Facility, Area C**



**For More Information**

For further information on the investigation at the NTC laundry facility and on the basewide Installation Restoration environmental program, please call:

Lt. Robert Mehal  
Public Affairs Officer  
(407) 646-4430



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Public Works Department  
(407) 646-4735