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FACT SHEET UPDATE ON ENVIRONMENTAL ACTIONS AT FORMER BASE LAUNDRY  
AREA C NTC ORLANDO FL  
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# Naval Training Center Orlando, Florida



## Update on Environmental Actions at the Former Base Laundry Facility, Area C

*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 by calling the NTC, Orlando Public Affairs Office at (407) 646-4430.*

July 1997

### Introduction

In January 1996 a fact sheet titled *Environmental Studies: Base Laundry Facility, Area C* summarized Installation Restoration (IR) program activities and findings for the site to date. This current fact sheet describes actions taken since then to implement a fast-track cleanup (known as an Interim Remedial Action, or IRA) at the former base laundry site and vicinity (Figure 1). The IR program name for this site is Operable Unit (OU) 4.

### Spring 1996

A Focused Field Investigation (FFI) was conducted to gather the data needed to help investigators plan the IRA. These data included: the extent of contamination in surface water and sediment at the eastern end of Lake Druid and in groundwater between the laundry and the lakeshore; the source of the contaminants in the lake; and relevant physical characteristics of the lake.

A briefing on these activities was provided to the NTC, Orlando Restoration Advisory Board (RAB) in March 1996.

### Summer 1996

The FFI findings showed the following:

- chlorinated organic chemicals (likely byproducts of drycleaning solvents formerly used at the laundry) were present in groundwater between the laundry building and Lake Druid;
- contamination did not appear to go beyond the site property line;
- groundwater flows into the lake along the eastern shoreline; and
- groundwater pumping tests were needed to help select an appropriate cleanup technology (these tests were successfully completed in August 1996).

The FFI findings were presented to the RAB in July 1996 as part of their regular update on IR program site status.

### Autumn 1997

Site investigators evaluated the FFI results in detail. They concluded that contaminants were likely reaching Lake Druid through groundwater discharge, but the source could not be determined from available data. However, steps to reduce contaminant discharge into the lake could still be taken without certain identification of the source. As a result, an interim cleanup goal to minimize contaminated groundwater discharge into Lake Druid was established. It was also determined that

additional study was needed to more clearly identify the source(s) of the groundwater contamination. A Focused Feasibility Study (FFS) was then carried out to detail the cleanup goal (or remedial action objective) and evaluate several potential cleanup options.

### Winter 1997

A process known as in-well stripping (Figure 2) was selected as the preferred interim cleanup method for groundwater contamination at the laundry site. The process would circulate the contaminated groundwater through an underground well installed between the laundry and Lake Druid. This motion changes (or volatilizes) water-borne contaminants into vapors, which are then vented to the surface, treated through a filter if needed, and released into the air.

Natural attenuation and biodegradation were the preferred cleanups for sediments along a portion of the eastern lakeshore. These processes leave the contaminants undisturbed, allowing them to break down and disperse naturally. Periodic monitoring to ensure that natural breakdown is occurring is also part of this alternative.

A conceptual design for these interim measures was then developed. Additional soil and groundwater sampling to determine whether or not a recirculation well was needed at the presumed source of the contamination (areas under and adjacent to the laundry building) was also completed.

The RAB was briefed on the OU 4 FFS and the cleanup goals for the site in January 1997. An advertised public meeting to present the preferred cleanup alternatives for OU 4 was held in <sup>Winter Park</sup> Orlando City Hall on March 20. The public comment period on this proposal ran from February 27 to March 28. No comments were received from the public.

### Spring 1997

Contractor bids for installing the in-well stripping system were requested, and four bids were received and evaluated. Results from the source area sampling showed the primary contaminant sources to be (1) a settling tank that was used during laundry operations and (2) areas beneath the laundry building floor and near the back of the building. However, further study was needed to select the most most efficient placement for an additional recirculation well at the source area.

### Current Status/Next Steps

An in-well stripping system contractor has been selected. The system is scheduled to go on-line in September. Meanwhile, a workplan outlining a detailed study to assess environmental conditions across the OU 4 site has been developed.

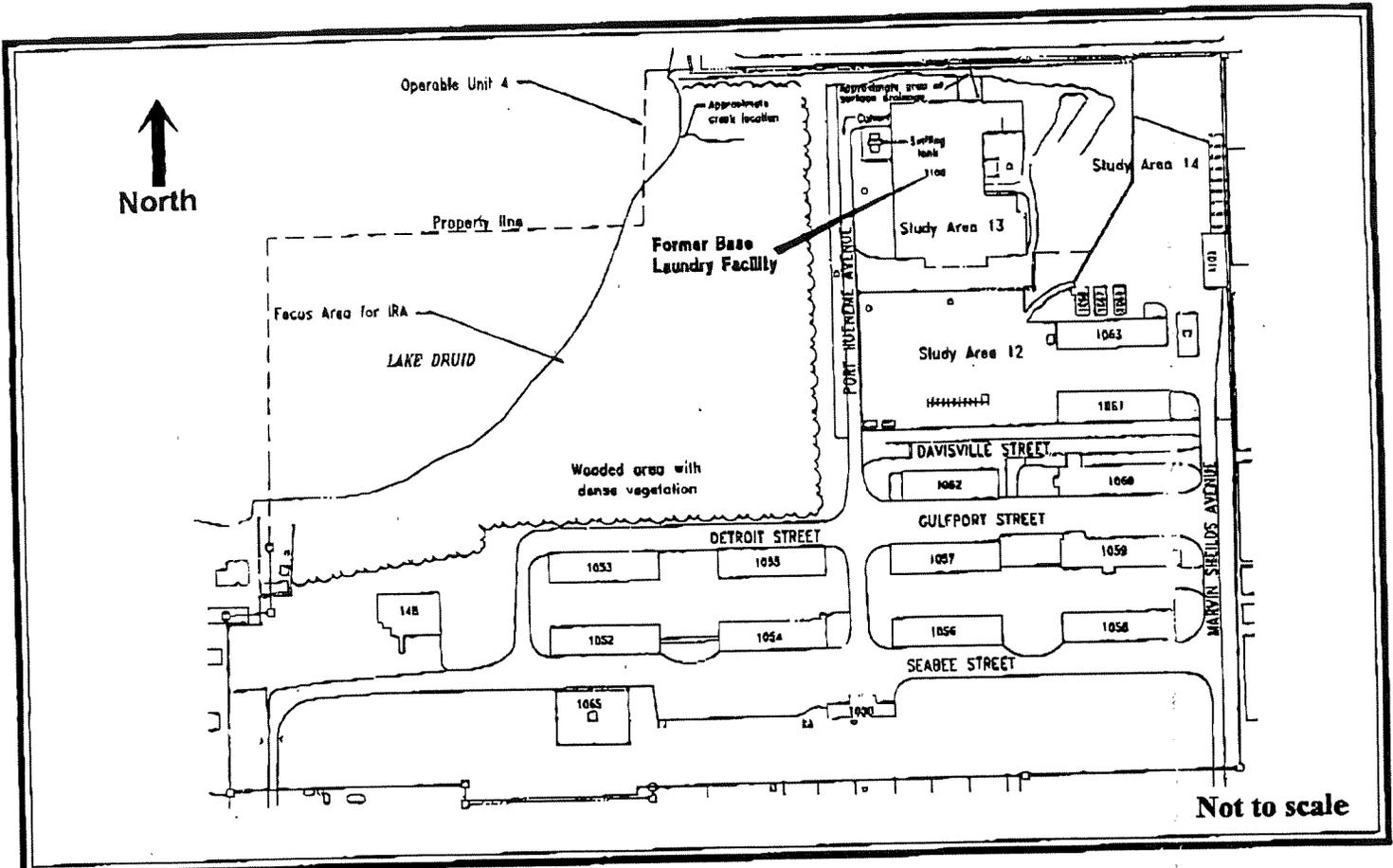


Figure 1. Operable Unit 4 site layout.

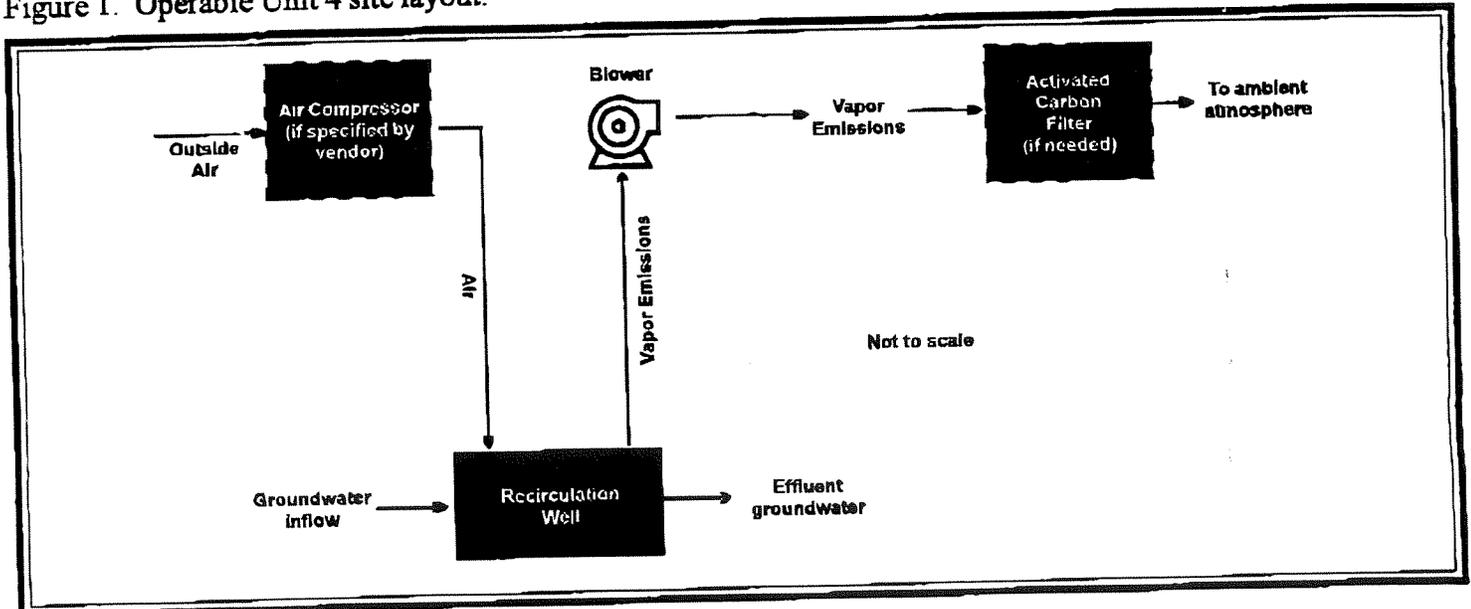


Figure 2. Typical in-well stripping treatment process.

### For More Information

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

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