



# FACT SHEET

## FORMER MARE ISLAND NAVAL SHIPYARD

### Engineering Evaluation/Cost Analysis/Interim Removal Action Work Plan for the Building 742 Former Degreasing Plant

September 2009

#### ■ Introduction

The Department of the Navy (Navy) plans to conduct a non-time-critical removal action (NTCRA) at the Building 742 Former Degreasing Plant (FDP) area, located within the former Mare Island Naval Shipyard, Vallejo, California (Mare Island) (Figure 1). The NTCRA is described in the Draft Final Engineering Evaluation/Cost Analysis/Interim Removal Action Work Plan (EE/CA/IRAW) for Building 742 FDP. This Fact Sheet provides information on the EE/CA/IRAW document and describes opportunities for the community to provide comments. The NTCRA involves the removal of soil and treatment of groundwater that contribute to elevat-

ed concentrations of volatile organic compounds (VOCs) in soil gas at the site. The Navy is conducting this NTCRA to prevent exposure to VOCs while the overall investigation of the Building 742 area continues.

#### ■ Site Background

Building 742 was constructed in 1942 and used as an ordnance machine shop until 1972, when the building was occupied by Ocean Engineering. The FDP, located outside and at the southeast corner of Building 742, operated from the early 1940s until the 1970s. The cleaning and degreasing plant was used to clean metal parts generated at the ordnance machine shop.

Site investigations have determined that historical degreasing operations at the FDP are the most likely source of VOC contamination in soil gas and groundwater at the site. VOCs are organic compounds, including many common solvents, that readily vaporize under normal conditions. Manhole D1-C85 was identified as a secondary source of groundwater contamination.

Site investigations have also determined the presence of polychlorinated biphenyls (PCBs) in soils around Manhole D1-C85 and total petroleum hydrocarbons (TPH) in soils along a stormwater pipeline, a portion of which has been crushed in place. These areas will be addressed by the proposed removal action.

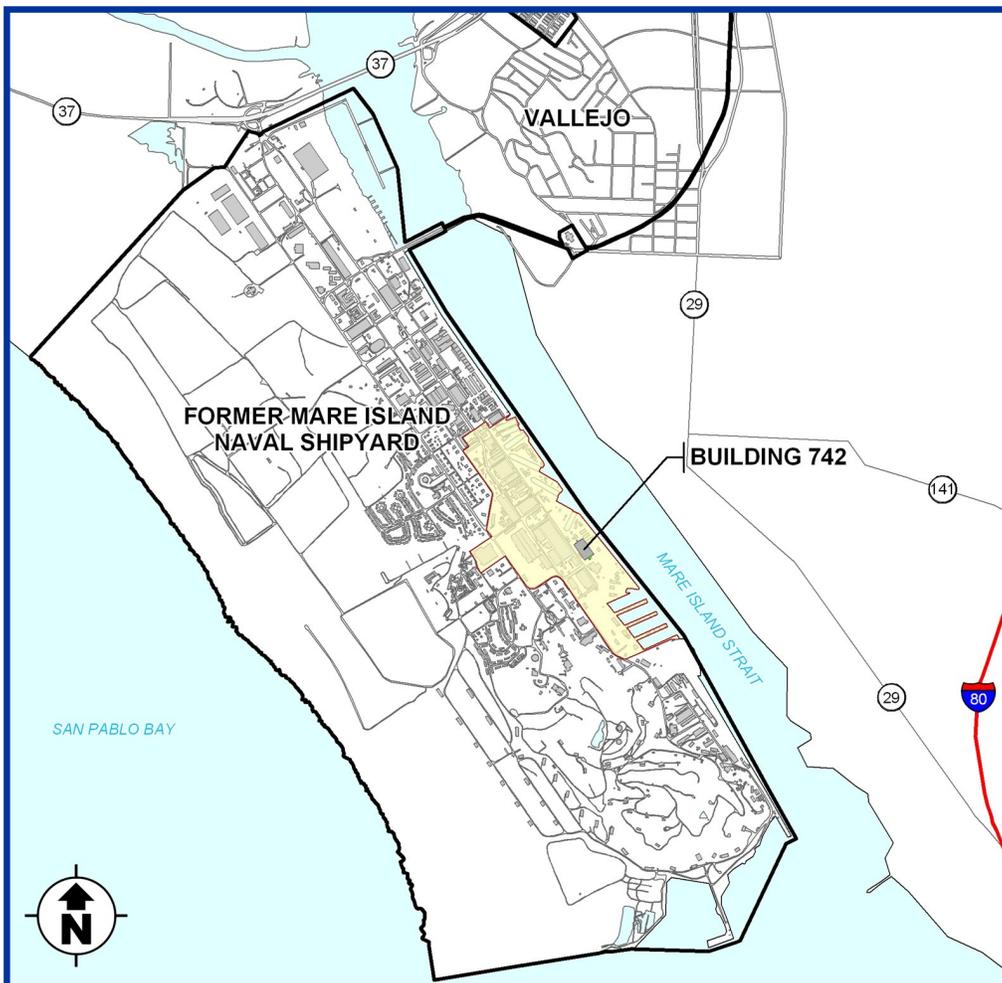


Figure 1 - Location of Building 742

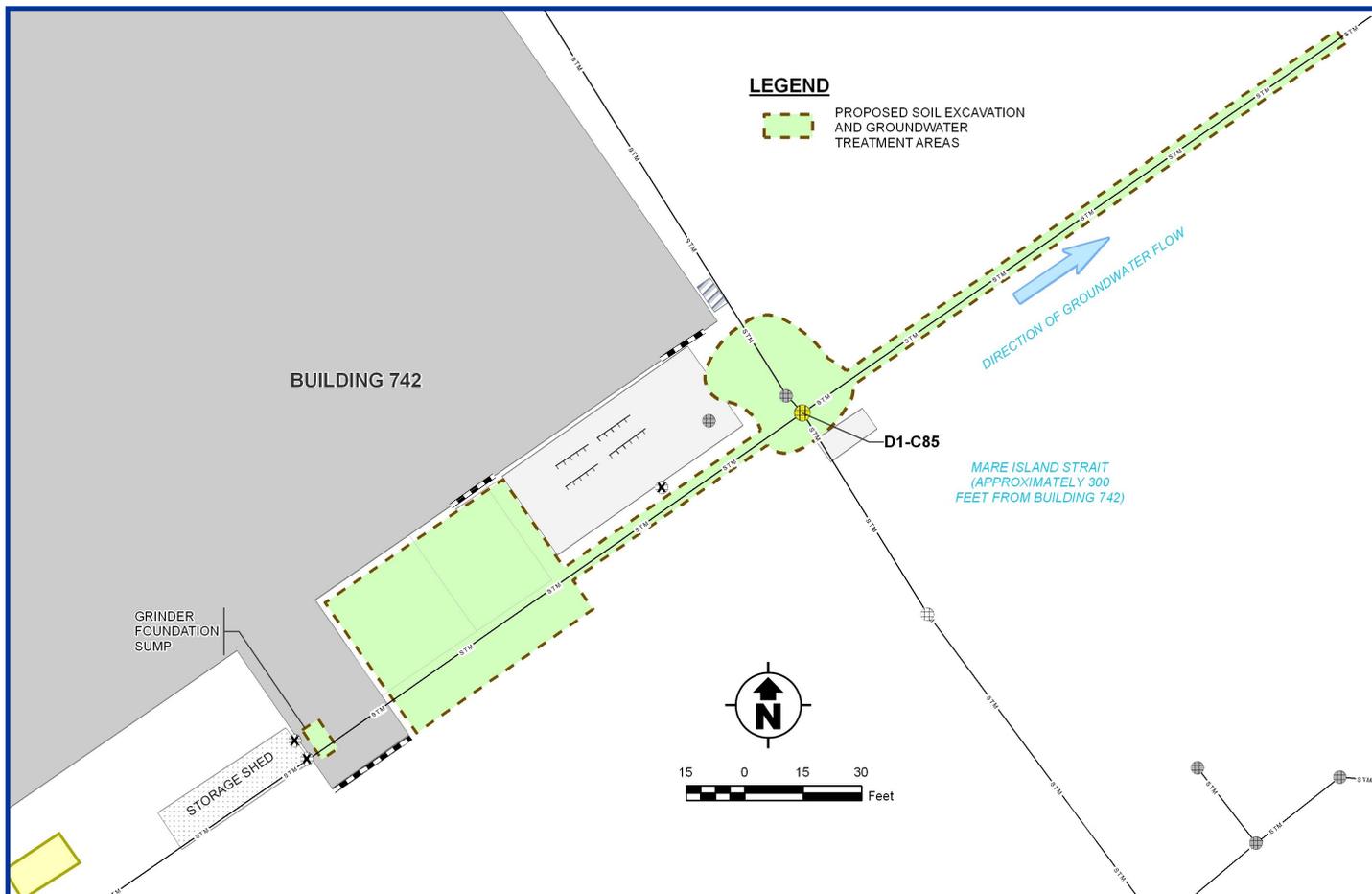


Figure 2 - Proposed Excavation and Treatment Areas

## ■ Engineering Evaluation/Cost Analysis/Interim Removal Action Work Plan

The EE/CA/IRAW describes the Navy’s plan to conduct an NTCRA at Building 742 FDP. The EE/CA/IRAW describes site conditions, current risk to human health and the environment, extent of contamination requiring action, and development of the objectives for a removal action. It also evaluates three removal action alternatives suitable for cleaning up the contamination. The alternatives that were evaluated are 1) No Action, 2) Excavation of soil and debris and treating the groundwater in place using microorganisms, and 3) Excavation of soil and debris and treating the groundwater in place using chemical oxidation. The overall cleanup objectives for the site are to reduce the risk from vapor intrusion to human health posed by inhalation of VOCs released from groundwater and subsurface soil gas that could migrate into the indoor air of an occupiable building. Vapor intrusion is the migration of volatile chemicals from below the ground surface into buildings, which may cause a health risk for building occupants.

The EE/CA/IRAW evaluates the potential removal action al-

ternatives for implementability, effectiveness, and cost, along with applicable or relevant and appropriate requirements. It also recommends one of the alternatives for implementation.

## ■ Non-Time-Critical Removal Action

The recommended alternative involves the excavation and removal of soil and debris from within the Building 742 FDP footprint. The FDP footprint and manhole areas will be excavated to approximately 8 feet below ground surface (bgs), and the area along the stormwater pipeline will be excavated to 9 feet bgs for complete removal of the crushed pipe and pipe bedding material. An estimated 2,100 cubic yards (3,100 tons) of material is anticipated to be generated from the excavations. The excavated materials will be disposed of off-site at an appropriate permitted disposal facility. The excavations will be backfilled with clean import material.

As a consequence of this removal action, soils with PCB concentrations greater than 1 milligram per kilogram will be excavated in the area around Manhole D1-C85. TPH contamination commingled with VOCs will also be removed along the stormwater pipeline (Figure 2).

Groundwater in the excavation areas will be treated in situ (in place) by bioremediation. Bioremediation uses microorganisms present in the system to remove or reduce contaminants. Bioremediation can be enhanced by the addition of nutrients or oxygen to encourage bacteria present in the groundwater to break down the pollutant chemicals.

Following excavation and groundwater treatment, a minimum of four quarters of groundwater and soil gas monitoring will be performed to determine the effectiveness of the removal action.

This action is intended to reduce contamination at the site to be protective of human health.

### ■ California Environmental Quality Act

As required by California state law (the California Environmental Quality Act, or CEQA), the Department of Toxic Substances Control (DTSC) studied the possible effects the proposed cleanup could have on the environment. The findings of the study can be reviewed in a document called a Notice of Exemption (commonly referred to as an NOE). The NOE states that the proposed cleanup will have no negative impact on the environment.

### ■ Community Involvement

The Navy encourages public involvement throughout all stages of its environmental cleanup program, using various means such as fact sheets and public meetings. Restoration Advisory Board (RAB) meetings are always open to the public and are held at 7:00 p.m. on the last Thursday of every month at the Mare Island Conference Center, 375 G Street, on former Mare Island, Vallejo. A public presentation of the Draft Final EE/CA/IRAW will be conducted at the above location, on September 24, 2009 at 6:00 p.m.

The Draft Final EE/CA/IRAW for the Building 742 FDP and the CEQA NOE will be available for public review and comment at the information repository and administrative record file from September 21 through October 21, 2009.

### Submitting Comments

The Navy and DTSC encourage the public's input on the documents. The Navy and DTSC ask the public to submit comments on the Draft Final EE/CA/IRAW and CEQA NOE before the comment period closes. Comments may be mailed, faxed, and/or e-mailed to the Navy and DTSC representatives listed in this Fact Sheet. Comments must be postmarked no later than October 21, 2009, to be considered. Please provide your name and full mailing or e-mail address with your comments. All comments will be compiled and responded to and provided in the Action Memorandum/Removal Action Work Plan.

### Project Points of Contact

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### Where to Find the Documents

The Draft Final EE/CA/IRAW for Building 742 FDP and the CEQA Notice of Exemption are available for review at the following locations:

#### John F. Kennedy Library

505 Santa Clara Street  
Vallejo, California 94590  
Phone (707) 553-5568

#### DTSC

700 Heinz Avenue  
Berkeley, California 94710  
Phone (510) 540-3800  
(By Appointment Only)



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