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From: Commanding Officer, Engineering Field Activity, West, Naval Facilities Engineering Command

To: Distribution

Subj: PARCEL D REMEDIAL INVESTIGATION DRAFT REPORT, ENGINEERING FIELD ACTIVITY, WEST, NAVAL FACILITIES ENGINEERING COMMAND, HUNTERS POINT SHIPYARD, SAN FRANCISCO, CALIFORNIA

Encl: (1) Public Summary and Restoration Advisory Board Impact Summary for Parcel D Remedial Investigation Draft Report, Hunters Point Shipyard, San Francisco, California; Department of the Navy, Naval Facilities Engineering Command, Engineering Field Activity, West, San Bruno, California

1. Enclosure (1) is forwarded to members of the Hunters Point Shipyard (HPS) Restoration Advisory Board (RAB) for information. The entire 18 volumes of this report are available for review at the HPS public information repositories in the San Francisco Main Library, and the Anna E. Waden Branch Library, 5075 Third Street, San Francisco, California. Additional information on this report will be available at the next RAB meeting, which is scheduled for 24 July 1996. The public review period for this report ends on 12 August 1996.

2. If you have any questions regarding this enclosure, please contact Mr. Richard Powell, Code 1832, at (415) 244-2655, or Mr. William Radzevich, Code 1832.2, at (415) 244-2555.

Original signed by: *WR*

for RICHARD POWELL
By direction of
the Commanding Officer

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PARCEL D REMEDIAL INVESTIGATION DRAFT REPORT PUBLIC SUMMARY

As part of its commitment to cleanup Hunters Point Shipyard and transfer the property to the City of San Francisco, the Navy recently completed investigations of the environmental conditions at a 128-acre parcel of the property, referred to as Parcel D. The results of the environmental investigation are in a report titled "Parcel D Remedial Investigation Draft Report." This document summarizes its findings. A complete copy of the remedial investigation report consisting of 18 volumes is available to the public in the information repositories located at the City of San Francisco main library and the Anna E. Waden branch library located at 5075 Third Street, in the Bayview Hunters Point District.

Parcel D is in the southwest corner of Hunters Point Shipyard. Historically, much of Parcel D was used for shipping, ship repair, offices, and commercial buildings. Industrial activities included pickling and plate operations, container and scrap metal storage, shipping and receiving, electronics and plastics repairs, painting and welding operations, and automotive repair.

Parcel D was investigated in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The Navy identified 27 areas of concern in Parcel D where contaminants may have been released onto either soil or the groundwater. Three of these areas of concern span the entire installation: IR-45, the Steam Lines; IR-50, the Storm Drain and Sanitary Sewer Systems; and IR-51, the Former Transformer Sites. These areas were included in the Parcel D Remedial Investigation because portions of them are physically located within Parcel D boundaries.

In order to determine whether hazardous substances and petroleum hydrocarbons had been released at Parcel D, the Navy collected over 2,000 soil samples, 659 groundwater samples, and more than 100 samples from the utility lines, areas where sandblasting had occurred, floors and walls of buildings, test pits, trenches, and underground storage tank locations.

As a result of laboratory analysis, contaminants were found at various locations throughout Parcel D in the soil and groundwater. The most common contaminants at Parcel D were petroleum-related compounds such as gasoline, diesel, and motor oil found in the soil and groundwater. Heavy metals,

such as lead and arsenic were also found at Parcel D sites. PCBs and solvents were detected at low concentrations in groundwater. Solvents were also detected at low concentrations in soil at some sites.

The field data were evaluated as a part of the risk assessment to determine whether exposure to the contaminants would pose a potential risk to humans or the environment. As a means of estimating the human health risks caused by exposure to contaminants, EPA has established an acceptable range of 1 in 1,000,000 to 1 in 10,000 for potential cancer risk and considers a value of less than 1.0 for noncancer risks to be protective of human health.

In the human health risk assessment, the Navy calculated current and potential future cancer and noncancer risks from all possible ways of being exposed to the chemicals found in soil and groundwater. The risk assessment concluded that 14 installation restoration (IR) sites pose a potential cancer risk above 1 in 10,000 at Parcel D. Twenty-five IR sites pose a potential cancer risk of between 1 in 10,000 and 1 in 100,000. Nineteen IR sites pose a potential cancer risk of between 1 in 100,000 and 1 in 1,000,000. Potential noncancer risks above 1.0 are present at 26 IR sites, and the Navy is evaluating the significance of those potential risks. As the Navy continues to refine its risk assessment analysis, the conclusions in the final remedial investigation report will be updated and may differ from the current conclusions in the draft report.

The Navy evaluated potential risk to the environment, including plants and animals, from contaminants found in soil and groundwater. No threatened or endangered species are known to inhabit Hunters Point Shipyard or its vicinity. Limited plant or animal habitat is available because most of Parcel D is covered by asphalt, buildings, or other structures. For these reasons, the contamination poses no significant threat to land-dwelling species. In addition, the Navy is currently evaluating the potential risks to marine plants and animals that may be at risk from exposure to contamination originating in the groundwater.

The Navy is committed to cleaning up and transferring Parcel D as quickly as possible. After finalizing the remedial investigation, the Navy intends to complete, by January 1997, a study to identify possible cleanup methods. Once that study is completed, and with input from the regulatory agencies

and the community, the Navy will select a final site remedy. The Navy estimates that a remedy will be selected in mid-1997 and cleanup will begin in late-1998.

The Navy is attempting to accelerate cleanup at the site and has conducted several removal actions at Parcel D. These include the removal of sandblast grit to an off-site location for recycling, removal of hazardous materials at the Pickling and Plate Yard, removal of PCB-contaminated soil, and the removal of 33 underground and above ground storage tanks. The Navy is planning the excavation of visibly stained surface soils from six locations at Parcel D, as well as the removal of sediment and repairs to certain storm drains to prevent the potential infiltration of contaminated groundwater.

As the Navy completes necessary studies required under CERCLA, and begins to design methods of cleaning up the contamination at Parcel D, there may be job opportunities for the local community.

**RESTORATION ADVISORY BOARD
IMPACT SUMMARY
OF THE REMEDIAL INVESTIGATION DRAFT REPORT
FOR PARCEL D
HUNTERS POINT SHIPYARD
SAN FRANCISCO, CALIFORNIA**

This Restoration Advisory Board (RAB) Impact Summary of the draft Remedial Investigation Report for Parcel D identifies the impact on:

1. Jobs in the local community
2. The environment and human health of the local community
3. Hunters Point Shipyard land reuse

Community Jobs: The draft Remedial Investigation Report itself does not create any jobs. However, the recommended remedial actions presented in the report may create job opportunities for the community when cleanup begins.

Community Health: The recommended remedial actions presented in the Remedial Investigation Report will help reduce the risk of possible health effects from contaminated soil and groundwater present at the shipyard.

Land Reuse: The recommended remedial actions presented in the Remedial Investigation Report will support final cleanup of the shipyard and ultimate reuse of the property.