Hunters Point Shipyard

ENVIRONMENTAL CLEANUP

NEWSLETTER

October-December 2001

This Environmental Cleanup Newsletter is the seventh in a series of quarterly newsletters describing the Navy's environmental cleanup program at Hunters Point Shipyard. Each newsletter includes articles and information updating various environmental cleanup activities, project progress, and key milestones. The Navy contracts with a local business to distribute these newsletters to individuals on the current mailing list.

BRANCH LIBRARY INFORMATION

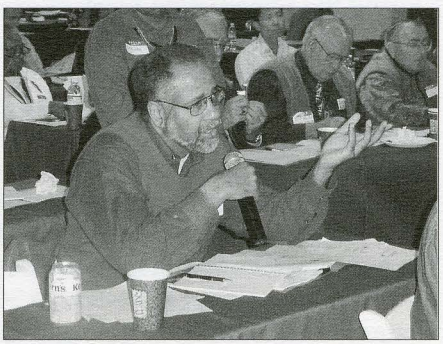
The Information Repository at the Bayview/ Anna E. Waden Branch Library will be completely overhauled in January 2002 to make room for a number of new documents being issued in the coming year. In October 2001, the Navy initiated a complete inventory of all the documents on the shelves at the Information Repository, and out-of-date reports were removed in the months that followed. The paper was recycled and the binders were donated to the library. The library, in turn, donated the binders to local residents. In total, over 80 outdated documents were recycled to make room on the shelf for new reports.

For more information about the Information Repository or the Administrative Record, please see page 6, Hunters Point Shipyard Information Repositories. An additional source of information on the environmental cleanup at Hunters Point Shipyard is located on the internet. Point your browser to http://www.efdsw.navfac.navy.mil/Environmental/HuntersPoint.htm for newsletters, fact sheets, and Restoration Advisory Board (RAB) meeting minutes and transcripts.

INSIDE THIS ISSUE

Bay Area RAB Members Participate at Workshop

The Navy sponsored a one-day Restoration Advisory Board (RAB) training workshop at the Nimitz Center on Treasure Island on October 27, 2001. The goal of the workshop was to provide training on issues that impact RABs at Navy installations and to provide RAB members and Community Co-chairs the opportunity to meet and share experiences in operating their RABs. Approximately 100 people attended the workshop. Very positive feedback was received from both the Navy and community representatives.



Mr. Raymond Tompkins, Hunters Point Shipyard RAB member, asks a question during the training workshop.

The workshop was structured to provide specific training on several topics in the morning. The morning session was open to all current RAB members and invited guests. An afternoon session, open to the general public and all concerned community members, followed the training session and featured an open house poster display from each of the Naval installations and regulatory agencies in the area.

Many RABs from the San Francisco Bay area, including the Hunters Point Shipyard RAB, were represented at the workshop. At the November 29, 2001 Hunters Point Shipyard RAB meeting, Community Co-chair Caroline Washington said that the workshop was informative and helpful to her understanding of the RAB process.

The Navy and the Hunters Point Shipyard RAB are working together to prepare a follow-on workshop, specifically tailored for the issues of concern at Hunters Point. The Navy is preparing to host the workshop some time in early 2002.

Copies of the material presented at this workshop can be obtained from Mr. Keith Forman. See page 7 (inside back cover) for contact information.

CLARIFICATION: *The article on the Community Notification Plan, in the July-September 2001 Environmental Cleanup Newsletter, was intended to summarize the general reporting requirements under the Community Notification Plan. The correct time interval is within 24 hours for serious incidents, and within 72 hours for minor incidents. The Navy is committed to adhering to the CNP reporting times.*

Parcel B Remedial Action

SOIL

The Navy has completed remedial actions at 100 of the 103 original Areas of Concern (AOCs) on Parcel B at Hunters Point Shipyard. In support of these operations, the Navy's contractor and their subcontractors excavated, transported, and disposed of over 150,000 cubic yards of soil.

During the remediation work at one of the areas, the Navy uncovered a former industrial drain line that was identified on recent utility maps as an abandoned portion of the sanitary sewer system. Analytical results for one sample of debris deposited in the drain line detected elevated concentrations of lead. In order to speed the evaluation and remediation of this drain line, the Navy committed to removing its entire length before conducting any additional sampling. More than 1,300 feet of this drain line and almost 2,000 cubic yards of soil were excavated. Samples were collected from the trench bottom to identify potential release areas. The resulting data support the conclusion that the drain line did not leak and no new AOCs were identified along this line.

Construction schedules show that backfill operations for the last AOC and the industrial drain line are planned for January and February 2002. The Navy is actively pursuing opportunities with the city of San Francisco and its developer to provide proposals and recommendations to complete the remaining cleanup and speed the transfer and development of Parcel B.

GROUNDWATER

In December 2001, the Navy completed a major review of the groundwater conditions in Parcel B. The Parcel B Groundwater Evaluation Technical Memorandum provides a thorough overview of the groundwater conditions on Parcel B. This memorandum also focuses attention on two primary AOCs, Installation Restoration (IR) Site IR-10 and the presence of tricholoroethylene (TCE) in groundwater, and the need for additional supporting data for IR-26. As a result of this document, the Navy prepared a revision to the Parcel B groundwater monitoring program (due for release in January 2002) that focuses the groundwater program on these two remaining AOCs. To support this new monitoring program, the Navy will install three new groundwater-monitoring wells at IR-26 in mid-January 2002. These changes will ensure that the proper data are available to support future evaluation of these sites and the groundwater monitoring program.

Historical Radiological Assessment

As many members of the community are aware, the Navy has delayed the release of the Historical Radiological Assessment (HRA) report. We would like to take this opportunity to tell you where we are in the process. Our ultimate goal is to provide the community and regulatory agencies with a comprehensive report that is clear and informative and meets the objectives of all parties involved.

As a part of continuing efforts to provide comprehensive information concerning the environmental remediation efforts at the former Hunters Point Naval Shipyard, the Navy has completed a detailed review of historical records regarding radiological operations. These records include, but are not limited to, information associated with the former Shipyard, Naval Radiological Defense Laboratory (NRDL), Triple A Machine Shop, and the decontamination of ships and equipment involved with atomic weapons testing.

The Navy is using these records to finalize preparation of the draft HRA report. To further support the conclusions of these records, the Navy is performing two more steps. First, the Navy is attempting to conduct additional interviews with former NRDL and Shipyard employees to supplement the written records. Secondly, the Navy is conducting additional surveys of buildings and areas where the historical records do not contain the necessary information to compare the previous survey results to today's more stringent release standards. Again, the Navy's goal is to provide the community and regulatory agencies associated with the Hunters Point Shipyard with a comprehensive report that fully addresses their health and environmental concerns.

The Navy's radiological and environmental teams are making every effort to have all of this additional information compiled into a comprehensive draft HRA report for release on March 29, 2002. This report will then be available to federal, state and local environmental review agencies, local community groups and the general public in the San Francisco Bay Area.

Parcel D – Investigation and Cleanup Accomplishments Assessment

A time-critical removal action (TCRA) that addressed the contaminated soil at Parcel D at Hunters Point Shipyard was completed and the Final Closure Report was submitted in December 2001. The cleanup involved 15 Parcel D sites and potential contamination resulting from steam lines and fuel lines. Contaminated soil was excavated and removed from nine sites, and six sites were investigated further and determined to not require further action.

The Navy excavated approximately 1,650 cubic yards of contaminated soil from nine Parcel D sites. Contaminants included metals, polychlorinated biphenyls (PCBs), and semi-volatile organic compounds. Six sites were further characterized and it was determined they are to be addressed under the Parcel D Feasibility Study (FS). Feasibility studies are conducted to determine suitable cleanup alternatives. Also, approximately 14,500 feet of steam lines were cleaned and met criteria for in-place closure, 700 feet of the lines required cleaning before in-place closure, and 2,100 feet of the lines were removed for disposal. Soil samples were collected and analyzed from the areas surrounding the steam lines. Test results determined that the soil was not contaminated. A single, buried fuel line was also investigated and found to contain residual petroleum product. This fuel line was removed and soil samples were collected around the line. Petroleum contamination was detected in the soil. The Total Petroleum Hydrocarbons (TPH) Corrective Action Plan (CAP) will address this contaminated soil. Fieldwork is expected to be conducted in winter 2002.

The Parcel D TCRA has met the Navy's objective of removing soil that is contaminated above the cleanup goals established in the TCRA Action Memorandum. Since the TCRA removed most of the contaminated soil from Parcel D, these results will be used to revise the human health risk assessment that is being conducted as part of the Parcel D FS. This assessment will help the Navy, regulatory agencies, and the public evaluate whether future cleanup action is required for soil at Parcel D.

New Face for Navy RAB Co-chair

Beginning in January 2002, Mr. Keith Forman replaces Mr. Richard Mach as the Navy's representative on the RAB. Mr. Mach has accepted a distinguished promotion at the Navy's NAVFAC Headquarters in Washington, DC.

The announcement was made to the Bayview community at the November 29, 2001 RAB meeting. The Navy provided coffee and cake for Mr. Mach's "going away" recognition. The cake was purchased from a local Bayview business, Wendy's Cheesecake Bakery, and was served to more than 60 attendees of the November RAB meeting.

Mr. Forman most recently served as the BRAC [Base Realignment and Closure] Environmental Coordinator (BEC) at the Marine Corps Air Station Tustin. He will bring a lot of enthusiasm to the RAB along with his experience in transferring Navy property.

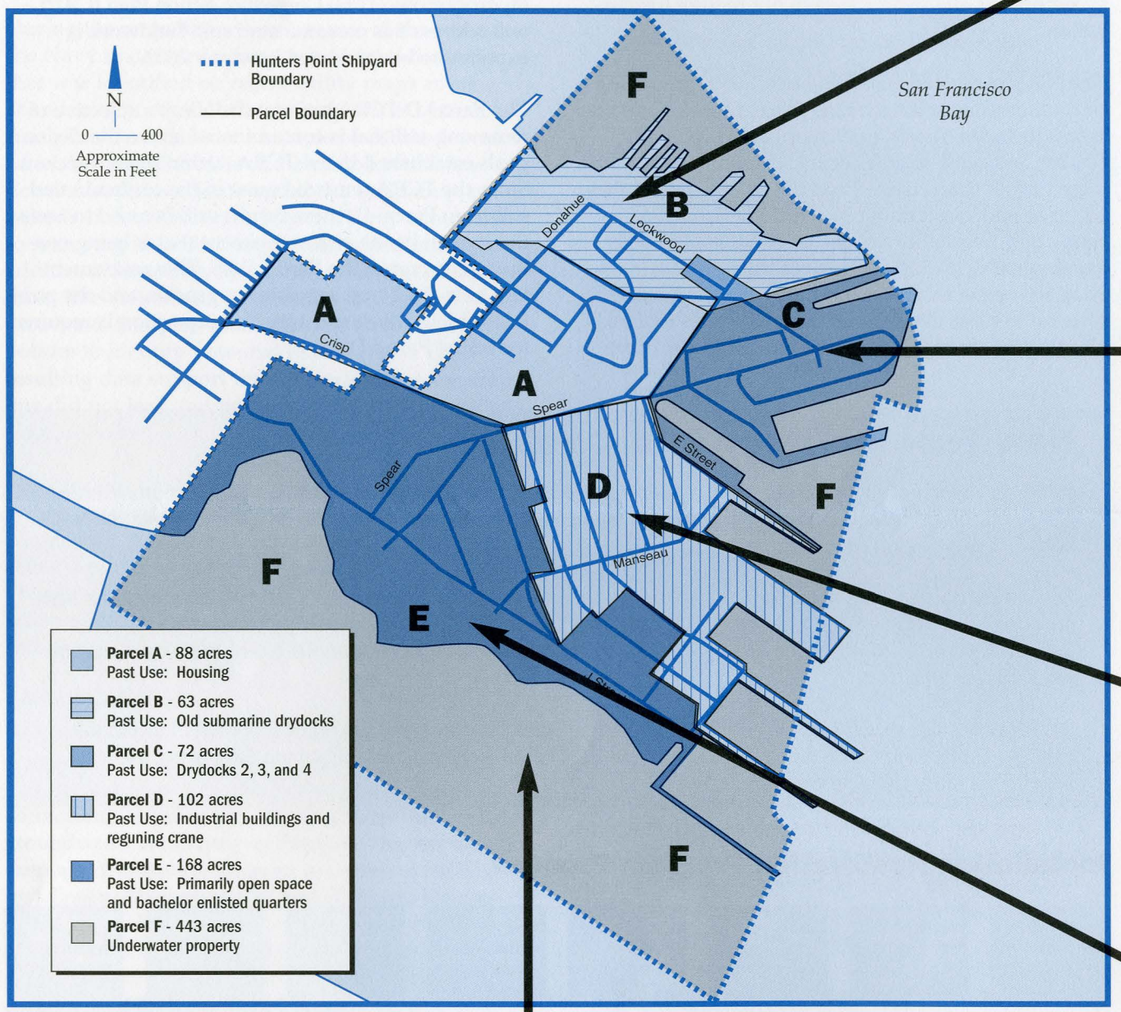
Installation Restoration Program Process

Preliminary Assessment/ Site Inspection (PA/SI)	Remedial Investigation (RI)	Feasibility Study (FS)	Proposed Plan/Public Comment Period	Record of Decision (ROD)/ Responsiveness Summary	Remedial Design	Remedial Action	Property Transfer and Reuse
The PA/SI results in the discovery and verification of potential sites.	The RI identifies and confirms the sources and areas of soil and groundwater contamination.	The FS identifies remedial alternatives for soil and groundwater cleanup.	The public has the opportunity to comment on the preferred remedy and other proposed alternatives.	The selected remedial alternative and responses to public comments are documented in the ROD.	Detailed specifications for the selected remedies are developed.	A qualified contractor begins the closure actions according to specifications.	A Finding of Suitability to Transfer (FOST) is prepared.

Note: The Navy's IR Program is consistent with the guidelines outlined in the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP). Interim actions or Removal Actions, may be performed at sites at any point in this process. The Navy meets on an ongoing basis with the BRAC Cleanup Team (BCT) to determine ways to accelerate the cleanup of Hunters Point Shipyard.

Parcel-by-Parcel Status Update—October-December 2001

Hunters Point Shipyard is divided into six parcels (Parcels A through F) to more effectively manage the cleanup effort and efficiently transfer the property to the city of San Francisco (see the figure below). Although chemical contamination resulting from the Shipyard activities varies from site to site on each parcel, chemical contaminants at a site may include compounds present in industrial solvents, PCBs, pesticides, gasoline, diesel, motor oil, and/or metals. Following are brief descriptions of environmental investigation/cleanup accomplishments that occurred during October-December 2001 and a look ahead at upcoming activities.



Parcel B October–December 2001 Activities

- Prepared and submitted the draft July-September 2001 Quarterly Groundwater Monitoring Report.
- Continued to work toward informal dispute resolution with the BRAC Cleanup Team regarding manganese issues.
- Completed cleanup actions at delineated remedial action areas that met the cleanup goals, with the exception of one excavation (7-4) where additional evaluation is ongoing.
- Continued additional investigation and excavation along the newly discovered industrial drain line along Lockwood Street.
- Continued to operate soil vapor extraction (SVE) system and to evaluate SVE performance data for the Phase II SVE treatability study at Building 123.

What's Next?

- Prepare and submit the draft revised Remedial Action Monitoring Plan for additional groundwater monitoring.
- Conduct January 2002 quarterly groundwater monitoring event (including installation of new wells in IR Site 26).
- Prepare and submit the Final July-September 2001 Quarterly Groundwater Monitoring Report.
- Prepare and submit the Final Land Use Control Implementation Plan (LUCIP) pending approval of response to comments on draft final LUCIP.
- Prepare and submit Final Explanation of Significant Differences (ESD).
- Prepare and submit the Final Groundwater Evaluation Technical Memorandum.

Parcel C October–December 2001 Activities

- Evaluated SVE performance data for the Phase II SVE treatability study and continued to operate SVE system at Buildings 211/253 and 272.
- Completed Time-Critical Removal Action for soil.
- Completed fuel and steamline inspections and removal.
- Completed emergency removal action for drainage culvert sediment at Dry Dock No. 4 and submitted the Action Memorandum.
- Prepared and submitted the Final Aboveground/Underground Storage Tank (AST/UST) report.

What's Next?

- Begin soil Removal Action Closeout Report, including results from the fuel and streamline inspection/removal.
- Complete field sampling activities associated with the Total Petroleum Hydrocarbon Corrective Action Plan.
- Prepare and submit Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP) addenda for the Phase III groundwater data gaps investigation.
- Resume chemical injection for chemical oxidation treatability study at volatile organic compound (VOC) groundwater areas pending approval of work plan addendum.
- Begin Parcel C Feasibility Study.

Parcel D October–December 2001 Activities

- Continued radiation removal action activities at Building 364.
- Continued field activities on the TPH CAP work.
- Prepared and submitted Final Removal Action Closeout Report for soil and pipeline removal actions.
- Prepared and submitted the Final AST/UST report.
- Continued work on revised draft Parcel D FS.

What's Next?

- Complete radiation removal action activities at Building 364.
- Complete field sampling activities associated with TPH CAP.
- Prepare and submit FSP/QAPP addenda for the Phase III groundwater data gaps investigation.
- Prepare and submit the draft revised Parcel D FS.

Parcel E October–December 2001 Activities

- Evaluated SVE performance data for Phase II SVE treatability study at Building 406 (limited field activities in Parcel E).
- Continued radiation removal action activities.
- Continued field activities on the TPH CAP work.
- Prepared and submitted the Final AST/UST report.

What's Next?

- Complete radiation removal action activities.
- Prepare and submit FSP/QAPP addenda for the Phase III groundwater data gaps investigation and begin Phase III groundwater data gaps investigation.
- Extend the landfill cap and add additional storm water drainage controls to address BCT comments.
- Prepare and submit the draft final Landfill Data Gaps Work Plan.
- Prepare and submit the draft final Soil and Non-Landfill Data Gaps Work Plan.

Parcel F October–December 2001 Activities

- Completed data validation for human health and ecological fieldwork.
- Continued preparation of draft Validation Study Report.

What's Next?

- Continue preparation of draft Validation Study Report.

Groundwater Treatability Studies

Innovative groundwater cleanup technologies are being tested at Parcel C where chlorinated solvents have caused groundwater contamination. Tests include the following:

- Chemical oxidation *(see Jan-Mar 2001 newsletter)*;
- Enhanced biodegradation; and
- Zero-valent iron injection.

Initial results from chemical oxidation suggest that permanganate injection was successful in destroying much of the groundwater contamination at the test site. Additional groundwater sampling is scheduled in January 2002 to confirm the results. Groundwater sampling at other sites revealed evidence of **natural biodegradation.** Based on these results, a test is being designed to stimulate the growth of natural microbial populations that break down and destroy the groundwater contaminants as part of their life process. By adding another food source to the contaminated groundwater, the time required to destroy the contaminants will be greatly reduced. The Navy also will test the effectiveness of zero-valent iron injection. This technology, which uses elemental iron, also has the potential to break down and destroy chlorinated solvents. Test results will be available by late summer 2002 and will be used to help evaluate remedial alternatives for groundwater at Parcel C.

Simply speaking, **natural biodegradation** is a process by which naturally occurring microbes in the soil or groundwater consume some, or all, of the contamination. This process can be enhanced, or accelerated, by adding nutrients to the soil or groundwater.

Hunters Point Shipyard Information Repositories

The Navy maintains two Information Repositories for Hunters Point Shipyard that contain project documents and other reference materials. The Main Library in downtown San Francisco contains a nearly complete record of all the documents related to the cleanup of Hunters Point Shipyard. The Bayview/Anna E. Waden Branch Library is a smaller collection of documents and contains copies of the major investigation reports for each parcel as well as documents related to more current activities. Public Information Material binders, containing archives of RAB meeting minutes and handouts, are available at both libraries.

The Navy encourages you to visit the libraries and review the documents prepared for Hunters Point Shipyard to gain a more complete understanding of the cleanup investigations.

CITY OF SAN FRANCISCO MAIN LIBRARY
Science, Technical, and Government Documents Room
100 Larkin Street
San Francisco, CA 94102
(415) 557-4500

BAYVIEW/ANNA E. WADEN BRANCH LIBRARY
5075 Third Street
San Francisco, CA 94124
(415) 715-4100

NOTE: Hunters Point Shipyard RAB meeting minutes and agendas will continue to be available to the public at the Information Repositories (listed above) established for the Hunters Point Shipyard cleanup program. Documents are also available on the Navy's web page at http://www.efdsw.navfac.navy.mil/Environmental/HuntersPoint.htm

For more information on the cleanup program at Hunters Point Shipyard, please contact Mr. Keith Forman, Base Realignment and Closure Environmental Coordinator and RAB Navy Co-chair.

RAB MEETING INFORMATION

Hunters Point Shipyard RAB members and the interested public have been regularly informed of the cleanup work underway at the Shipyard. The RAB, composed of representatives from the community, regulatory agencies, and the Navy, meets to review, comment, and make recommendations to the BCT on matters pertaining to the restoration and environmental cleanup of the Shipyard. Approximately 60 people regularly attend and participate at the monthly RAB meetings.

RAB meetings are typically held from 6:00 to 8:00 p.m., in the fourth week of each month at the Bayview Police Station Community Room. For current schedule information, please contact Mr. Keith Forman, Base Realignment and Closure Environmental Coordinator and RAB Navy Co-chair.

If you are interested in becoming a RAB member, please indicate your preference on the Hunters Point Shipyard Mailing List Update Form – see the back page. We will mail you an application promptly. The application is also available online at the Navy's web page; http://www.efdsw.navfac.navy.mil/Environmental/HuntersPoint.htm

Agencies and Organizations Involved in the Environmental Cleanup Program

LIST OF CONTACTS FOR REGULATORS, NAVY, AND RAB CO-CHAIR

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Mr. Keith Forman BRAC Environmental Coordinator	Naval Facilities Engineering Command, Southwest Division	(619) 532-0913 (415) 515-6216 Fax: (619) 532-0995	formanks@efdsw.navfac.navy.mil
Mr. Dave DeMars Lead Remedial Project Mgr.	Naval Facilities Engineering Command, Southwest Division	(619) 532-0912 Fax: (619) 532-0995	demarsdb@efdsw.navfac.navy.mil
Ms. Claire Trombadore Project Manager for Parcels A, B, and D	U.S. Environmental Protection Agency	(415) 744-2409 Fax: (415) 744-1916	trombadore.claire@epa.gov
Mr. Michael Work Project Manager for Parcels C, E, and F	U.S. Environmental Protection Agency	(415) 744-2392 Fax: (415) 744-1916	work.michael@epa.gov
Mr. Chein Kao Project Manager	California Department of Toxic Substances Control	(510) 540-3822 Fax: (510) 849-5285	ckao@dtsc.ca.gov
Mr. Michael Rochette Project Manager	California Regional Water Quality Control Board	(510) 622-2411 Fax: (510) 622-2458	mbr@rb2.swrcb.ca.gov
Ms. Dorothy Peterson RAB Community Co-chair	Hunters Point Resident	(415) 648-0661	dotp@silcon.com
Ms. Caroline Washington RAB Community Co-chair	Hunters Point Resident	(415) 822-9392	none

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