

3-11-08



**DEPARTMENT OF THE NAVY**  
PORTSMOUTH NAVAL SHIPYARD  
PORTSMOUTH, N. H. 03804-5000

IN REPLY REFER TO:  
March 4, 2008

**MEMORANDUM**

**From:** Occupational, Safety, Health and Environmental Office, Environmental Division  
**To:** Members of the Restoration Advisory Board (RAB) CERCLA Remedial Action Program, Portsmouth Naval Shipyard, Kittery, Maine  
**Subj:** RESTORATION ADVISORY BOARD (RAB) CERCLA REMEDIAL ACTION PROGRAM, PORTSMOUTH NAVAL SHIPYARD, KITTEERY, MAINE

The next RAB meeting will be held on Tuesday, March 11, 2008 beginning at 7 p.m. in the community room at the new Fire Station in Kittery, Maine. The new Fire Station is located at 3 Gorges Road, which is off of US-1 Bypass South. A map showing the location is attached.

The agenda will include an update on the status of field work at OU2 and a general status update on the other sites and operable units.

Your participation is greatly appreciated. If you are unable to attend the meeting, please contact me at (207) 438-3830. I look forward to seeing you at the RAB meeting.

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth Plaisted".

KENNETH PLAISTED  
Navy Co-Chairman

**Copy to:**

Doug Bogen  
Michele Dionne  
Alan Davis  
Roger Wells  
EPA Region I (M. Audet)  
MEDEP (I. McLeod)  
NOAA (K. Finkelstein)  
MEDMR (D. Card)  
NHFG (C. McBane)  
USFWS (K. Munney)  
NAVFAC Mid-Atlantic (K. Stevens)  
TiNUS (D. Cohen)

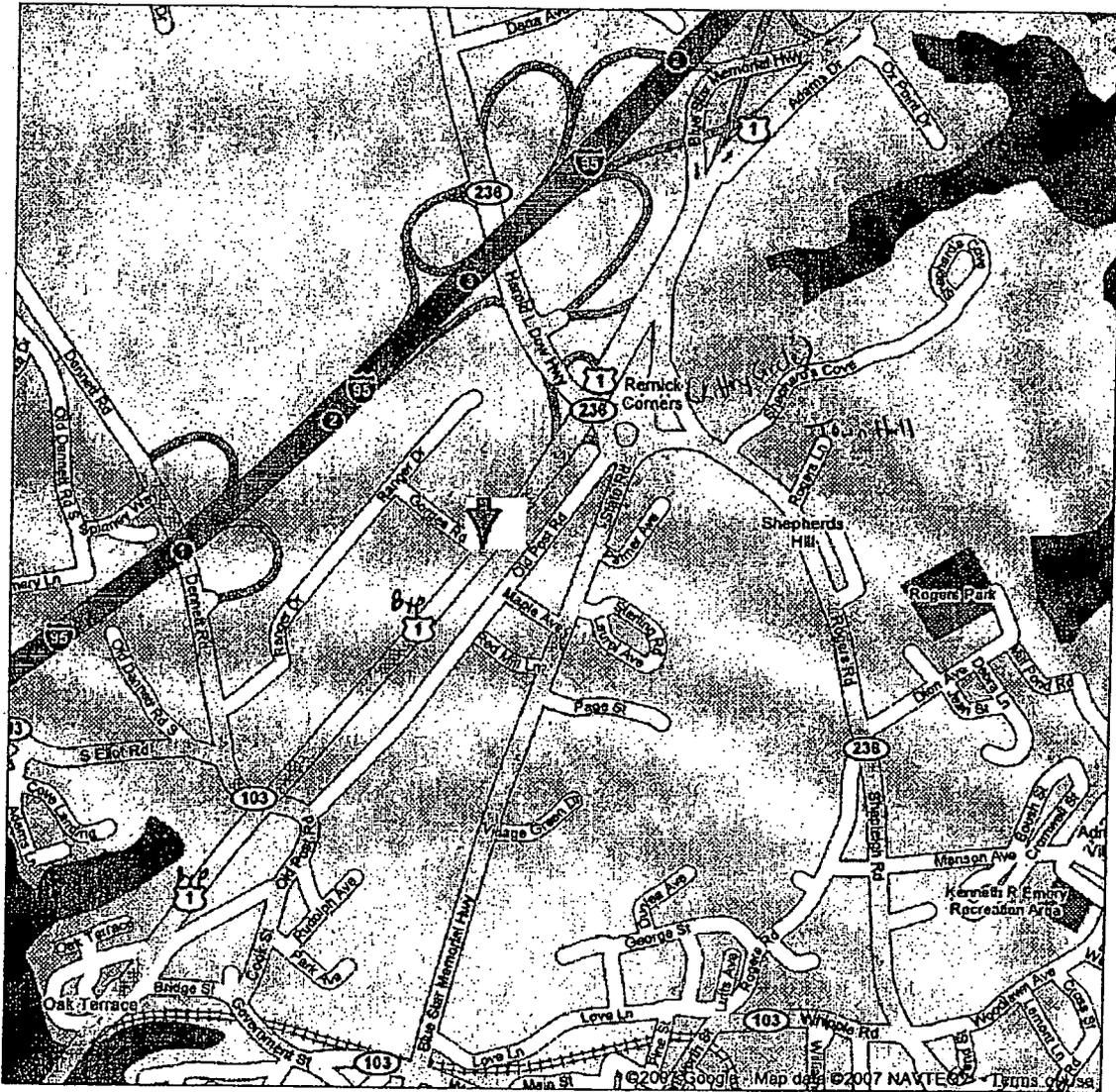
Jeff Clifford  
Mary Marshall  
Jack McKenna  
Carolyn Lepage  
Onil Roy  
James Horrigan  
Diane McNabb  
Peter Britz  
Mr. Jon Carter  
ATSDR (C. Hossom)



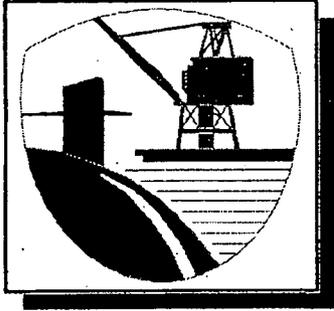
Address

3 Gorges Rd  
Kittery, ME 03904

Get Google Maps on your phone  
Text the word "GMAPS" to 466453



Approximately 0.3 miles south of Kittery Circle,  
off of US-1 Bypass South



# **Portsmouth Naval Shipyard Installation Restoration Program Agenda**

**Date – March 11, 2008**

**Place – “The New” Firehouse, Kittery, ME**

**Time – 7 p.m. - 9 p.m.**

- . Introductions**
- . Status of Work**
- . Regulator Updates**
- . OU-2 Shoreline Repairs Update**
- . IR Overview**
- . Field Investigation Update**
- . Other Issues as Required**



**TETRA TECH**

PITT-04-8-043

April 28, 2008

Project Number 112G00904

Reference: Contract No. N62467-04-D-0055 (CLEAN)  
Contract Task Order No. 443

**MEMORANDUM**

**FOR THE MEMBERS OF THE RESTORATION ADVISORY BOARD (RAB), INSTALLATION RESTORATION PROGRAM, PORTSMOUTH NAVAL SHIPYARD, KITTEERY, MAINE**

On behalf of the U.S. Navy, Tetra Tech NUS, Inc. is pleased to provide the draft minutes from the March 11, 2008 Restoration Advisory Board meeting for your review and comment.

Comments are requested by May 19, 2008. You may provide your comments to Ken Plaisted at (207) 438-3830.

Sincerely,

Deborah J. Cohen, P.E.  
Project Manager

DJC/clm  
Enclosure

**DISTRIBUTION:**

D. Bogen  
P. Britz  
J. Carter  
J. Clifford  
A. Davis  
M. Dionne  
J. Horrigan  
C. Lepage  
M. Marshall  
J. McKenna  
D. McNabb  
O. Roy  
R. Wells  
EPA (M. Audet)  
MEDEP (I. McLeod)  
MEDMR (D. Card)  
USFWS (K. Munney)  
NHF&G (C. McBane)  
NOAA (K. Finkelstein)  
NAVFAC Mid Atlantic (K. Stevens)  
ATSDR (C. Hossom)  
TTNUS (D. Cohen)  
PNS (J. Gildersleeve )  
PNS PAO (D. Eddy, email)

**Tetra Tech NUS, Inc.**

661 Andersen Drive, Pittsburgh, PA 15220-2745  
Tel 412.921.7090 Fax 412.921.4040 www.ttnus.com

**RESTORATION ADVISORY BOARD MEETING  
PORTSMOUTH NAVAL SHIPYARD  
KITTERY FIRE HALL, KITTERY MAINE, ME  
March 11, 2008**

Restoration Advisory Board (RAB) members at the meeting included the following:

- RAB community members – Jon Carter, Michele Dionne, Jim Horrigan, Mary Marshall, Diana McNabb, Onil Roy, and Roger Wells.
- Navy RAB members – Kirk Stevens, Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic and Ken Plaisted, Portsmouth Naval Shipyard (PNS)
- Regulatory representatives – Matt Audet, United States Environmental Protection Agency (USEPA) and Iver McLeod, Maine Department of Environmental Protection (MEDEP)
- Natural Resource Trustee – Don Card, Maine Department of Marine Resources (MEDMR)
- Community members Doug Bogen, Peter Britz, Jeff Clifford, Alan Davis, and Jack McKenna were absent.

Guests at the RAB included:

- John Gildersleeve from PNS
- Debbie Cohen and Chuck Race from Tetra Tech NUS, Inc. (TtNUS)

## **INTRODUCTION**

Ken Plaisted welcomed everyone to the RAB and indicated that the topic for the RAB meeting was an overview of the current status of the Installation Restoration Program (IRP) and an update on fieldwork at Operable Unit (OU) 2. Ken thanked the Town of Kittery and Fire Chief O'Brian for letting the RAB use the community room at the fire station.

Ken mentioned that the arrangements for the Technical Assistance Grant (TAG) were almost complete. He explained that the Seacoast Anti Pollution League (SAPL) applied to USEPA for the grant. The grant provides money to hire an independent consultant to provide technical assistance for the review and understanding of documents prepared as part of the cleanup work at PNS. The previous grant money ran out about 2 years ago. Carolyn Lepage will return as the TAG consultant. Ken expects that she will return by the next RAB meeting.

## **STATUS OF WORK AND REGULATOR UPDATES**

**NAVY** --- Kirk Stevens mentioned that the Navy is in the process of funding various 2008 work including Site Management Plan (SMP) support and work at OU2, OU3, OU4, and OU9. The

Navy has been busy with training associated with the change to a performance evaluation process. Kirk will provide additional site update information as part of the site overview presentation.

**USEPA** --- Matt Audet indicated that there has not been much technical work for PNS recently. The main focus has been on the OU2 sampling results and shoreline repairs.

**MEDEP** --- Iver McLeod indicated that MEDEP has also mostly been working on OU2-related activities. Iver has been updating the MEDEP's analytical database with OU2 historical data. The database requires that the data be in a specified format, and this requires some manipulation of the data to include it in the database.

Iver talked about MEDEP's involvement with the OU2 sampling. During the soil sampling in November 2007, high lead concentrations were found in the yards of the residences adjacent to the Defense Reutilization and Marketing Office (DRMO) Storage Yard (Quarters S and N). Iver talked to the State of Maine Center of Disease Control about the results to make sure that the children living in Quarters S and N have not been impacted. The children were tested and their blood-lead levels were at acceptable levels. The blood lead level is the most important test to determine whether the children may have been impacted. The State of Maine did not see the need to move the families out of the residences. However, PNS offered the residents the opportunity to move if they wanted to do so. The residents did not want to move.

Iver mentioned that MEDEP is waiting on funding from the Navy for State of Maine participation in the IRP.

#### **UPDATE ON OU2 SHORELINE REPAIR**

John Gildersleeve, PNS, provided an update on the OU2 shoreline repair activities. The 110-foot section of the shoreline stabilized in 2005 was found to have some areas in the high tide or higher portion of the shoreline where the riprap gave way exposing the underlying filter fabric. This section of the shoreline is located west of the seawall, south of Building 298, along the OU2 shoreline. The following activities were conducted:

- Frequent inspection of the area. John has been inspecting the area at least twice a week and after any storm events. Matt Audet also conducted a site visit to see the shoreline.
- Funding was secured, a contract and schedule were put in place, and mobilization for shoreline repair was started.
- A new design for this portion of the shoreline was developed, and the shoreline will be repaired. The main change in design is to provide 24-inch, concrete, A-Jacks along the bottom of the slope to provide more stabilization. The A-Jacks are self-locking pieces of concrete that are shaped like jacks.

The work is expected to take 1 to 2 weeks.

## OVERVIEW OF IRP SITE STATUS

Kirk Stevens, NAVFAC Mid-Atlantic, provided an overview of the status of the IRP sites at PNS, including brief background information, current status, and the next steps for the sites. The background information and schedules provided in the presentation were based on the draft FY08 Amended SMP. Discussion of the IRP sites was grouped based on OU.

Before reviewing each site, Kirk provided a general history of the IRP for PNS. He also explained that based on an annual report the Navy provides to Congress, \$53 million have been spent to date on environmental cleanup work at PNS. In FY07, the Navy spent \$2.5 million, which included \$0.9 million for the Site 34 Removal Action, \$0.5 million for the OU2 investigation, and the rest for program support and work at OU4, OU3, and OU1. The projected FY08 budget is \$2 million; and the projected forecast to complete environmental work at PNS is \$28 million. A program database is used to estimate this forecast-to-complete amount. In answer to a question as to what the majority of the \$53 million was used for, Kirk explained that the remedy for OU3 was \$16 million. Because many of the investigation at PNS in the 1990s were conducted for multiple sites, it is difficult to determine other site or OU costs. Kirk did not anticipate any concerns for funding availability; however, the expected trend is that more money will be spent on remediation and less money on studies and investigations.

In answer to questions regarding contracting of the FY08 and future IRP work, Kirk explained that there are two major contracts (with TtNUS and Shaw Environmental) that are used for most of the work. TtNUS and Shaw Environmental are responsible for selecting the appropriate subcontractors to support the scope of work. However, the contract governs the small business goals and some other contracting goals. The Navy contractor puts out a proposal and companies provide bid proposals. The Navy contractor then selects the subcontractor based on technical capabilities and cost. Smaller priced jobs may be sole-sourced.

Kirk then reviewed the status of IRP sites based on OU designations. The status is summarized as follows:

- OU1 (Sites 10 and 21): The Remedial Investigation (RI) Report was finalized in 2007. The draft Feasibility Study (FS) will be submitted in April 2008 and is expected to be finalized by October 2008. The draft Proposed Remedial Action Plan (PRAP) is expected to be submitted in December 2008. The public comment on the PRAP and finalization of the Record of Decision (ROD) are scheduled for February 2009 and August 2009. After signature of the ROD, the remedial design for the selected remedy will begin. The No Further Action Decision Document for Site 21 was put out for public comment in 2007; however, no comments were received. The document was finalized and is awaiting signature by the Shipyard Commander. Once signed, Site 21 will no longer be an IRP site. Therefore, the OU1 FS and subsequent documents will only include Site 10.
- OU2 (Sites 6 and 29): The additional investigation began in November 2007, and the Navy is expecting fieldwork to be completed in May 2008. A Supplemental RI Report will be prepared based on the results of the investigation, and a revised draft FS will be prepared. The Navy is planning to revise the draft FS concurrently with preparation of the RI Report in 2008 so that the documents can be finalized in 2009 and the PRAP, public comment period, and ROD can be completed in 2009 or early 2010.
- OU3 (Sites 8, 9, and 11): The post-remedial operation, maintenance, and monitoring (OM&M) program is being conducted. Rounds 1 through 4 are complete; and the Navy is preparing a report on the results. Round 5 will be conducted in April 2008, and Round 6 is planned for October 2008. The second five-year review for OU3 needs to be

completed by June 2012; therefore, evaluation, site inspection, and other activities for the review will begin in July or August 2011. The No Further Action Decision Document for the JILF Impact Area (a portion of Site 8) was put out for public comment in 2007; however, no comments were received. The document was finalized and is awaiting signature by the Shipyard Commander. Once signed, the Jamaica Island Landfill (JILF) Impact Area will no longer be an area of concern for Site 8 and will be removed from the IRP.

- OU4 (Site 5 and offshore area): The interim offshore monitoring program is being conducted and Round 9 was collected in 2007. Additional scrutiny sampling began in 2007 and will be completed in April 2008. The Navy will prepare a technical memorandum providing recommendations for changes to the interim offshore monitoring program and will conduct Round 10 in 2008. The FS for OU4 is scheduled to be prepared in 2012.
- OU7 (Site 32): The draft work plan for the second phase of RI sampling was submitted in 2007. The Navy needs to resolve comments with the regulators and is planning to be in the field this summer. A technical memorandum will be prepared to evaluate the data and determine whether a third phase of sampling is needed before preparing the RI Report.
- OU8 (Site 31): The work plan for the RI is scheduled to be prepared in 2012. This site was given a low priority because there is not a high potential for exposure or migration of contaminants compared to the other IRP sites at PNS.
- OU9 (Site 34): The removal action for ash material was completed in 2007; and the Navy is preparing a report to document the completion of the removal action. The Navy funded the RI, and preparation of the work plan for the investigation is scheduled to begin this spring. The Navy will prepare the data quality objectives for the work plan. Kirk mentioned that the Navy will be implementing a new work plan format; and the work plan for Site 34 RI will be the first in this format for PNS projects. The Navy is anticipating the field work will be conducted in 2009.
- Site 30: An action memorandum for a removal action was finalized in 2006, and the Navy is anticipating preparation of a removal action work plan in 2008. In 2006 and 2007, the Navy removed some crystals and installed a barrier to prevent exposure to the crystals growing on a wall along side the former acid pit within Building 184. Also, the area outside of Building 184 was repaved to facilitate flow of storm water away from the building. Storm water ponding along the wall of the building is thought to be one of the sources of the water in the pit that may be influencing the formation of crystals.

## **UPDATE ON FIELD INVESTIGATION AT OU2**

Debbie Cohen of TtNUS provided an update on the status of field investigation at OU2. As discussed at the November 2007 RAB, the fieldwork began in November 2007. The first shift included redevelopment of existing monitoring wells and direct-push technology (DPT) borings in the gridded area. Soil samples were collected from the DPT borings and analyzed for copper, lead, and nickel in the field using a field-portable X-Ray Fluorescence (XRF) spectrometer. Select samples were also analyzed in the field for total polychlorinated biphenyls (PCBs). The field data were evaluated and additional DPT locations were sampled to refine the boundary of contamination in the waste disposal area at Site 29. Additional DPT locations in the DRMO Storage Yard were identified and were sampled during the second shift. The field results were also used to refine the locations of test pits and new monitoring well clusters. Test

pitting and well installation were conducted during the second shift. Groundwater and surface water sampling were conducted during the third shift (in December 2007).

The field results were consistent with previous data, as follows:

- In the waste disposal area, contamination was found in the subsurface to DPT refusal. Refusal was shallow in the outer limits of the area.
- At the DRMO Storage Yard, contamination was generally greater in surface and shallow subsurface samples than the deeper samples.
- Throughout the area, there were a lot of rocks and soil recovery was fair in the top 4 to 6 feet below ground surface (bgs) zone and poor to none deeper than approximately 6 feet bgs.

The information will be used to determine site boundaries and to estimate the volume of contaminated materials at the site. Approximately 20 percent of the soil samples were sent to the laboratory for confirmation of field results.

Debbie showed a figure with soil sampling locations and a figure with preliminary lead results for soil. She explained that the intent was to show the preliminary results of the delineation of the extent of contamination and the area where additional sampling is needed to define the extent of contamination. A figure was prepared with sample location dots colored based on the maximum detection of lead at the location. The figure shows that the waste disposal area contamination is bounded by "clean" areas. The extent of contamination within the DRMO storage yard and in the areas east and west of the Storage Yard has been delineated. The extent of contamination in the area north of the DRMO Storage Yard has not been sufficiently delineated. During the soil sampling toward the end of the second shift, an area approximately 10 feet north of the DRMO Storage Yard fence was found to have high lead concentrations. Additional sampling was conducted to bound the extent of the high lead, but the results showed that additional sampling along the northern boundary is necessary to delineate the extent of contamination from DRMO operations.

Debbie explained that it is likely that the current DRMO Storage Yard fence was not present when past activities were conducted. Some storage operations apparently occurred north of the fence where lead contamination was found. The additional delineation north of the DRMO Storage Yard will use field XRF analysis to ensure that the extent of contamination from DRMO operations is sufficiently delineated.

Because of concern that children could be exposed to lead contamination in play areas by the Quarters, the Navy conducted soil sampling in the play areas in January 2008. Iver McLeod mentioned that the data for the play area sampling, especially the location on the northern side of Quarter N, may be the result of lead paint and may not be from the DRMO. Lead paint and housing issues would not be addressed as part of the IRP. Ken Plaisted mentioned that the Navy Environmental Health Center (NEHC) would be conducting a risk assessment to evaluate risks for residents in Quarters S and N.

Matt Audet said that he was pleased with the Navy's quick response to address the concerns for the high lead soil contamination found in the residential area north of the DRMO Storage Yard fence. The Navy kept Iver and Matt informed, and the Navy quickly provided temporary

measures to prevent exposure to the contaminated soil while the Navy is completing delineation of contamination.

A question was asked whether there were any concerns for erosion of highly contaminated soil along the shoreline, especially where the recent shoreline repairs are being conducted. The Navy explained that no soil along the shoreline is exposed. The repairs were needed where the filter fabric covering the soil is exposed. These repairs are needed before the filter fabric is compromised.

A question was asked whether the action levels would be similar to the concentration ranges shown on the figure. The Navy indicated that the action levels would depend on the land use and the type of remedy considered. The USEPA residential action level based on average concentration for an exposure unit is 400 mg/kg. Therefore, any sample location with a lead concentration less than 400 mg/kg would be considered acceptable or not contaminated.

#### **FUTURE MEETINGS**

The RAB discussed the date for the next meeting. The Fire Hall is typically not available on Tuesday nights; therefore, Thursday, May 8, 2008, was suggested for the next RAB meeting. The main topic for the RAB will be the draft OU1 FS. An update on the shoreline repairs at OU2 and field activities since the last RAB will be provided.

**Post-meeting note: The next RAB meeting will be held on May 8, 2008, in the Community Room at the new Fire Station at 3 Gorges Road, Kittery, Maine. The new Fire Station is located on Route 1 Bypass, between Dennett Road and Route 236 (Rogers Road/Harold L. Dow Highway). The presentation will be on the draft OU1 FS, submitted in April 2008, and an update on OU2 shoreline repairs and field activities for OU2, OU3, and OU4.**