RESTORATION ADVISORY BOARD (RAB) MEETING NAVAL WEAPONS INDUSTRIAL RESERVE PLANT BETHPAGE BETHPAGE COMMUNITY CENTER BETHPAGE, NEW YORK WEDNESDAY, AUGUST 2, 2006

The sixteenth meeting of the RAB began at approximately 7:15 p.m. Meeting attendees included representatives from the Navy (Susan Clarke), Town of Oyster Bay, New York State Department of Transportation, Bethpage Water District, RAB community members (Rosemary Styne and Roy Tringali), and local residents.

WELCOME AND AGENDA REVIEW

The Navy representative, Susan Clarke, Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic, welcomed everyone to the RAB meeting. Ms. Clarke went over the meeting agenda. The agenda for the meeting is included as Attachment 1.

Since the June 2006 RAB meeting, the Navy has been working on arranging site access for construction for the GM-38 remedy. The meeting with the Town of Oyster Bay before the RAB meeting was related to the site access arrangements. For Area of Concern (AOC) 22, the pilot-scale evaluation of an innovative bioremedial technology to remove petroleum contamination from an underground storage tank area is being conducted. The system was operated through June 2006 and Tetra Tech NUS, Inc. (TtNUS) will begin soil and groundwater sampling and analysis to evaluate the effectiveness of the treatment technology.

REVIEW AND APPROVAL OF MEETING MINUTES

Because of the limited number of RAB community members present at the June 7, 2006 RAB meeting, the review and approval of the April 2005 minutes were tabled until the August 2006 meeting. The April 2005 minutes were included as an attachment to the June 2006 minutes. Ms. Clarke inquired whether the RAB members received the June minutes, which were distributed in July 2006, and whether there were any questions.

Ms. Styne asked whether Route 135 could be used as an access to the GM-38 treatment area. Mr. John Petroff of NYDOT indicated that federal highway regulations would not allow use of Route 135 to access a construction site. Ms. Clarke indicated that the Navy will need to use some of the local roads to access the area and the transportation route is part of the presentation for the GM-38 remedy. Although main roads will be used, the Navy will not be able to avoid residential areas.

A community member saw a well drill rig south of the railroad tracks and wondered whether it was being used as part of any of the Navy's remediation work at NWIRP Bethpage. The Navy said it was not part of any Navy work and that it might be part of a Long Island Power Authority (LIPA) project.

The approval of the minutes was tabled again because of the limited number of RAB community members present at the meeting.

GM-38 REMEDY UPDATE

Mr. Stravros Patselas from Tetra Tech EC, Inc. provided a progress update on the GM-38 Remedy Final Design, including the history of the project, treatment system design, well installations, construction and operation and maintenance. The slides of the presentation of the Groundwater Remediation Project are provided as Attachment 2.

The presentation was similar to the presentation from June 2006. The main updates related to the GM-38 remedy presented at the August 2006 meeting were:

Wells were installed in 2004 and 2005 and additional wells will be installed during construction. The number of monitoring wells that will be installed was increased and a recovery well will also be installed during construction

The treatment plant will be installed in the back of a utility easement, near Route 135. Originally, permanent and temporary access roads to the area were planned. However, now the main access will be from Broadway Avenue; Sophia Road will not be used as an access road.

Some of the esthetic considerations as part of the construction include constructing a berm and planting 100 new trees to minimize the visibility of the treatment plant from nearby homes. Also, a chain link fence with privacy screening will be installed. The Navy will try to maintain as many of the existing trees as possible. Based on community concerns, motion-activated lights will be used for exterior building lighting and no audible exterior alarms will be used. An auto-dial alarm system will be used to contact people when there is an unscheduled shut down of the system. If the system shuts down, it must be manually restarted; therefore, someone needs to go to the treatment plant when the alarm system is triggered.

Mr. Tringali asked whether any Town of Oyster Bay departments would be notified as part of the auto-dial alarm system. Mr. Patselas indicated that only Navy personnel and contractors would be contacted.

Mr. Patselas indicated that there was some delay in the anticipated schedule because the Navy is still working on obtaining real estate access agreements. Once the access agreements are in place, the Navy will competitively bid the project. The bidding process is expected to take up to 2 months and construction is expected to begin in fall 2006. Construction is expected to end summer 2007 and plant start up activities to be conducted from summer to fall 2007. Start of operation and maintenance is anticipated for fall 2007.

CLOSING REMARKS

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Ms. Clarke asked whether there were additional questions. There were no further questions. The next meeting will be Wednesday November 1, 2006, at the regularly scheduled time. The meeting was adjourned at approximately 7:50 pm.

ATTACHEMENT 1 AUGUST 2, 2006 MEETING AGENDA

Agenda

Restoration Advisory Board Naval Weapons Industrial Reserve Plant Bethpage

August 2, 2006 Bethpage Community Center, Bethpage, NY 7:00 p.m.

<u>Welcome and Agenda Review</u> Susan Clarke, NAVFAC Mid-Atlantic

> Meeting Minutes All Members

<u>GM-38 Remedy Update</u> Stavros Patselas, Tetra Tech FW

<u>Closing Remarks</u> Susan Clarke, NAVFAC Mid-Atlantic

Presenters will be available after the program for questions.

ATTACHEMENT 2 GROUNDWATER REMEDIATION PROJECT AT GM-38



























































| Milestones | Date |
|--------------------------------------|--------------------|
| Project Planning | On-going |
| Mobilization & Start of Construction | Fall 2006 |
| End of Construction | Summer 2007 |
| Plant Start-Up and Shakedown | Summer - Fall 2007 |
| Start of Operation & Maintenance | Fall 2007 |



11/166 RAB



NAVFAC MIDLANT, NORFOLK, VA

NAVAL WEAPONS INDUSTRIAL RESERVE PLANT (NWIRP) BETHPAGE, NEW YORK INSTALLATION RESTORATION PROGRAM

BUDGET UPDATE – FY-06 ACTUAL COSTS AND FY-07 EXECUTION PLAN

Restoration Advisory Board (RAB) Meeting

11/01/2006

NWIRP Bethpage FY-06 ACTUAL EXECUTION

PROJECT

COST



REMARKS

| GM-38 – Additional Well Drilling and Plant Construction | \$3,653,466 (awarded 12/15/05) | Currently in process of obtaining Site Access |
|--|--------------------------------------|---|
| Community Relations and Consultation Support | \$156,688 (awarded 01/23/06) | TtNUS providing continuous support |
| TOTAL for FY-06 = | \$3,810,154 | |

NWIRP Bethpage FY-07 PLANNED EXECUTION



COST



| Site 1 – PCB Remediation | \$2,552,494 (Estimated |
|------------------------------------|------------------------|
| | Cost, to be awarded in |
| | the spring) |
| GM-75 Investigation | \$1,298,894 (Estimated |
| | Cost, to be awarded |
| | soon) |
| Site 4 – AOC 22, Confirmation | \$220,100 (Estimated |
| Sampling and Additional Plume | Cost) |
| Investigation | |
| 5 Year Review Projects for the | \$30,000 (Estimated |
| Recharge Basins and Salvage | Cost for both reviews) |
| Storage Yard | |
| TOTAL for EY-07 = | \$4,101,488 |

NWIRP Bethpage, New York

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AOC 22/Site 4 Former Underground Storage Tank Area Update

NWIRP Bethpage November 1, 2006 Restoration Advisory Board (RAB) Meeting





Site History

- Three underground storage tanks active in 1940s to 1960s.
- Contained No. 6 Fuel Oil
- Tanks were removed at an unknown time, probably early 1980s.
- Underground tank slabs/saddles remain.

Environmental Concerns

- Petroleum contamination, measured as total petroleum hydrocarbons (TPH), is primary concern.
- Contamination is mostly adhered to soils not mobile.
- Polynuclear aromatic hydrocarbons (PAHs) primary chemicals of concern.
- Majority of contamination is near the water table (60 feet below ground surface).
- Limited impact to groundwater.

Closed Loop Bioremediation System

- Treatment Goal: Provide 90 percent reduction in TPH concentration.
- Treat soils and petroleum through the use of surfactants and biodegradation.
- System operated from fall 2004 to spring 2006.
- System demobilized from site in August 2006.
- Based on soil data, approximately 15 percent removal of TPH as of September 2005.

Next Steps

- Conduct final round of soil and groundwater testing scheduled for December 2006.
- Evaluate petroleum removal.
- Evaluate potential for formation of free product on groundwater and migration through groundwater.
- Report in spring 2007.