



DEPARTMENT OF THE NAVY

Commander
Naval Base Norfolk
1530 Gilbert ST. STE 2200
Norfolk, VA 23511-2797

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NB NORFOLK
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IN REPLY REFER TO:

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N452B/331
04 NOV 1996

Mr. Dave Forsythe
Commander, Atlantic Division
Naval Facilities Engineer Command
1510 Gilbert Street
Norfolk, VA 23511-2699

Re: Restoration Advisory Board (RAB) Meeting Minutes

Dear Mr. Forsythe:

Enclosed please find a copy of the minutes from the RAB meeting held on October 24, 1996. The next regular RAB meeting is tentatively scheduled for mid-January 1997. When the specific date is selected, you will receive a letter and agenda with pertinent meeting information. In addition, Ms. Ruth Reich will contact you several days before hand to remind you of the meeting. If you can not attend the RAB meeting, please send a substitute.

If you have any questions, please call Mr. Tim Reisch at 322-2896 or Ms. Reich at 322-2859.

Sincerely,

A handwritten signature in cursive script, reading "Sharon L. Waligora", is positioned above the typed name.

SHARON L. WALIGORA
Director, Hazardous Waste Division
By direction of the Commander

Encl:
(1) RAB Minutes

**RESTORATION ADVISORY BOARD MEETING MINUTES
OCTOBER 24, 1996**

Commander, Naval Base (COMNAVBASE) Norfolk, conducted a Restoration Advisory Board meeting on Thursday, October 24, 1996 in Building N-26 at the Naval Base. The meeting commenced at 7:00 p.m. with the following people in attendance.

RAB ATTENDEES:

Dianne Bailey, former Navy Co-chair	COMNAVBASE Norfolk Environmental Programs Department
Tim Reisch, incoming Navy Co-chair	COMNAVBASE Norfolk Environmental Programs Department
Jack Ruffin, Community Co-chair	Chesapeake Bay Foundation
Ruth Reich	COMNAVBASE Norfolk Public Affairs Office
Devlin Harris	Virginia Department of Environmental Quality
Nathaniel Riggins	Titustown Civic League
Deborah Hall	City of Norfolk, Health Department

PRESENTER:

James Harris	Naval Facilities Engineering Command, Atlantic Division (LANTDIV)
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OTHER ATTENDEES:

Aneil Kumer	Engineering and Environment, Virginia Beach
Lt. Bob Phillips	COMNAVBASE Police, NAS Precinct

NOT IN ATTENDANCE:

Dave Forsythe	Naval Facilities Engineering Command, Atlantic Division (LANTDIV)
Robert Vazquez	National Oceanic and Atmospheric Administration (NOAA)
Lee Rosenberg	City of Norfolk, Environmental Service
Dr. Raymond Alden	Old Dominion University
Dr. Carl Fisher	Elizabeth River Project
Harry Harbold	US Environmental Protection Agency

The meeting was called to order by Ms. Ruth Reich. Ms. Dianne Bailey announced her acceptance of new program responsibilities within the COMNAVBASE Environmental Programs Office and introduced Mr. Tim Reisch, the incoming Installation Restoration program manager and RAB Navy Co-chair. Ms. Bailey introduced the presenter for the evening, Mr. James Harris.

RESTORATION ADVISORY BOARD MEETING MINUTES (continued)

LP-20 Proposed Remedial Action Plan (PRAP) Summary

Mr. Harris began his brief on the LP-20 PRAP with an overview of the history of the site. Built in the 1940s, LP-20 is located in the center of the industrial area of NAS. Until recently, LP-20 was utilized by NADEP for the overhaul and repair of aircraft turbine engines. Operations performed in the building included chemical cleaning and metal plating. Investigation of LP-20 and surrounding area began in 1986. The results of the investigation found solvent contamination in the groundwater (underground water). It has been determined that over the years the chlorinated solvents from the cleaning processes has migrated into the groundwater forming a 5 to 10 acre plume under the LP-20 and surrounding area. The plume is moving towards Willoughby Bay. In addition, a smaller plume of petroleum contamination exists in the groundwater under the LP-20 site. Documented spills and discharges from the fuel pipeline and underground storage tanks (UST) associated with the engine test cells adjacent to LP-20 are the source of the petroleum products. The recovery of the petroleum products and related environmental issues are included in the LANTDIV and COMNAVBASE UST programs.

The vast majority of the area surrounding building LP-20 is paved and utilized for vehicle parking. These factors resulted in the risk assessment of the LP-20 site indicating a slight risk to human health in relation to the surface and sub-surface soil; however, the hypothetical scenario of the LP-20 area being used for future residential use is unlikely, and the risk to construction workers is low. Therefore, the PRAP does not address soils. There is a potential future risk to human health based upon the groundwater in the area.

For the contaminated groundwater, the PRAP provided the four remedial action alternatives proposed: no action, institutional control and monitoring, air sparge and soil vapor extraction (AS/SVE), in-well aeration (IWA), and groundwater extraction and treatment (pump and treat). The feasibility study identified that the AS/SVE, IWA and pump and treat systems would be effective in remediating the groundwater under the LP-20 area. The most economical alternative was determined to be AS/SVE. The AS/SVE alternative is the remediation technology chosen by the Navy; this type of system is proven cleanup technology. Air sparging is the action of pumping air into the underground water table. By doing this, the contaminants in the groundwater are bubbled up to the extraction wells. The extraction wells use negative pressure that acts as a vacuum to pull the contaminates from the soil. The contaminates are removed from the vapor using granular activated carbon (GAC) columns. The system design is 80% complete, and the estimated time of operation for this system is up to seven years.

Questions:

1. *Will there be any smell in the building during the process?*

No VOC readings were recorded inside the building during the system pilot test conducted in June of this year. The air will inside the building will be monitored during the remediation process.

RESTORATION ADVISORY BOARD MEETING MINUTES (continued)

2. How are the plating tanks and equipment pits in LP-20 effected by this system?

The plating shop area of LP-20 is in the process of a Resource Conservation and Recovery Act (RCRA) closure. The open pits created when the equipment was removed are in the process of being backfilled and capped with concrete.

Mr. Devlin Harris, VDEQ, gave information and a point of contact at DEQ to obtain current status of the LP-20 plating shop RCRA closure.

3. Will the LP-20 system address the petroleum products?

No, the petroleum products are being addressed under the UST programs. Two skimmers have been installed in the area behind LP-20 as part of the product recovery effort.

4. Was the well or pump installed behind LP-78 in late 1980s part of or related to this system?

No, the pump installed as part of the UST program.

5. What will the system look like when in full operation?

All the wells and pipeline are underground and capped with concrete. Only the system's mechanical building, or buildings depending upon the final design, will be present in the parking lot. The buildings will house the carbon treatment system, pumps, and other system devices.

Camp Allen Landfill Update

Tim Reisch gave an update report on the current construction status of the remediation project at the Camp Allen Landfill. The pipeline excavation is complete. The exterior of the groundwater treatment plant building and interior systems are > 95% complete. The dual-phase vapor extraction system foundation and modular building installation were scheduled for completion the week ending October 25, 1996. The completion date for the project is early spring 1997 with operations turn over to Navy Public Works Center personnel in March 1997.

Administrative Issues

Tim Reisch spoke to the RAB regarding taking on the responsibilities of COMNAVBASE's IR program and continue with initiatives set forth by Dianne Bailey. Visiting guests were invited to inquire into becoming RAB members. Dianne Bailey bid farewell to RAB members, and thanked the members present for their work and continued support and interest in efforts that the Navy has initiated to clean-up Naval Base, Norfolk. The next RAB meeting is tentatively scheduled for early January 1997.

RESTORATION ADVISORY BOARD MEETING MINUTES (continued)

Questions:

1. *Several former NADEP buildings have been left open at night, can you see that this buildings are secured?*

Although NADEP has ceased operations, there is a skeleton staff to close the remaining building. We will contact the appropriate personnel to take care of this problem.

2. *Will there be a problem sending K-9 [police dogs] into the building when the system is running? They [the dogs] can get into small areas and under grates that people can't get access.*

No, the extraction wells will capture any VOCs that are mobilized due to the air injection wells. In addition, both wells and pipelines will be covered with concrete.

3. What are the black drums doing in the back of LP-20?

The drums are waste from NADEP. They are in the process of being prepared for proper disposal. LP-20 is a designated 90-day hazardous waste storage area.

4. *Why are some of the drums labeled as "unknown"?*

The contents have been sampled to determine if the contained waste is hazardous. This testing is required to determine the proper disposal for the waste.

Mr. Harris, VDEQ, expressed concern regarding the building security. Ms. Bailey stated the security problem would be resolved immediately.

The meeting was closed at approximately 8:10 p.m.