

CHARLESTON NAVAL COMPLEX  
RESTORATION ADVISORY BOARD MEETING

October 11, 2005 - 5:30 p.m.

The Olde North Charleston Meeting Place  
1077 East Montague Avenue  
North Charleston, SC

Web site for meeting minutes, fact sheets and other  
Restoration Advisory Board documents and information:  
[http://www.navybracpmo.org/bracbases/sc/charleston/rab\\_information.aspx](http://www.navybracpmo.org/bracbases/sc/charleston/rab_information.aspx)

**RAB MEMBERS**

Jeff Meyers	Navy Co-Chair
Dann Spariosu	U.S. EPA
Jerry Stamps	S.C. DHEC
Bob Veronee	SPAWAR
Wannetta Mallette	City of North Charleston
Arthur Pinckney	Community Member

**VISITORS**

Gary Foster	CH2M-Jones
Don Hargrove	S.C. DHEC
Charlie Vernoy	Ensafe
Dean Williamson	CH2M-Jones
Kathy Stewart	U.S. Navy

**Introduction and Administrative Remarks**

Jeff Meyers opened the meeting by reviewing the agenda. The topics for discussion are the Zone J Ecological Risk Assessment/Area of Concern (AOC) 721 status, the property transfer, and an update of the environmental cleanup contract at the Charleston Naval Complex (CNC). He also introduced Kathy Stewart of the U.S. Navy who will be replacing Rob Harrell. The minutes from the July 2005 Restoration Advisory Board (RAB) meeting were approved by the Board members.

**Subcommittee Reports**

There were no subcommittee meetings held since the last meeting

**Property Transfer**

Jeff confirmed that the transfer of all remaining CNC property was completed, going to either the CNC Redevelopment Authority (RDA) or Federal Law Enforcement Training Center (FLETC). He stated that FLETC has numerous redevelopment activities either underway or in the planning stages. On the northern end of the base, the RDA transferred a portion of the property to the City of North Charleston who in turn sold it to CMMC, who previously leased it from the RDA. Arthur Pinckney asked if the Board's former request for a base tour had ever occurred. Jeff said it had not

but was willing to investigate this request in conjunction with the next RAB meeting.

### **Zone J Ecological Risk Assessment and AOC 721 Status**

Charlie Vernoy used a power point presentation (copy attached) to update the Board on the status of the Zone J Ecological Risk Assessment (ERA) and AOC 721. There will be additional sediment sampling performed within the Cooper River at locations approved by the South Carolina Department of Health and Environmental Control (SCDHEC). The Navy has contracted with a small business (8a) firm, Spectra Tech, to perform this work. Ensafé will recalculate the Effects Range Median (ERM) quotients using the laboratory results from these additional samples and make a decision as to whether the ERA is complete. AOC 721 requires excavation and removal of an estimated 50 cubic yards of material. This work will also be performed by Spectra Tech and is expected to be completed this year. Ensafé will issue the RFI Report following receipt of the documentation associated with this removal action. Charlie stated that Ensafé's contract with the Navy expires at the end of December 2005, and it cannot be extended. Accordingly it is important that the actions for Zone J and AOC 721 be completed expeditiously to allow Ensafé to complete their final reports.

### **Environmental Cleanup Progress Report**

Gary Foster and Dean Williamson distributed a power point presentation for their update of the firm fixed price contract. Over 130 Resource Conservation and Recovery Act (RCRA) sites were originally identified in the contract, and only 19 are still active. SCDHEC has approved Monitored Natural Attenuation (MNA) as the groundwater remedy for 12 of those 19 active sites. The monitoring occurs on a yearly basis and is scheduled to begin later this month. Dean gave a brief update on the status of the remaining 7 sites, AOC 607 (former dry cleaning facility), Solid Waste Management Unit (SWMU) 166/163 (former automotive repair located on the Annex), SWMU 196 (salvage area adjacent to the landfill), SWMU 39 (former salvage yard located at the north end of the base), SWMU 9 (former landfill), SWMU 25/70 (former plating shop), and SWMU 17 (former training facility). There were also 17 new sites identified (one of which is a part of the fuel distribution system), and of these only 3 remain active (AOC 722, AOC 723, and FDS 022).

AOC 607 contains a trichloroethylene (TCE) plume, which was initially treated using the electrical resistance heating (ERH) methodology. While this significantly reduced the source, another method was necessary to reduce the dissolved plume. CH2M-Jones completed a pilot study of enhanced in-situ bioremediation by injecting lactate as the substrate material. The pilot test was successful, and full scale implementation is planned for the site. SWMU 166 is a TCE plume located at the annex. The initial treatment was a forced injection of zero valent iron. The results were moderately successful. Additional treatment of some areas is required. CH2M-Jones is planning to pilot test enhanced in-situ bioremediation through injection of a substrate similar to that being used at SWMU 39 and AOC 607. SWMU 39 is undergoing enhanced in-situ bioremediation for its TCE plume. At SWMU 196, in-situ oxidation was initially implemented for the chlorobenzene plume, while a biosparging system has now been energized for the residual plume. The remedy for SWMU 9 (landfill) was approved recently, and CH2M-Jones is in the process of determining which areas will require additional fill to obtain a minimum one-foot of cover. SWMU 25/70 is located within the industrial zone and was injected with iron to remediate its hexachrome plume. Results have been very promising, and CH2M-Jones is continuing to monitor the groundwater. SWMU 17 is located within the FLETC property and contains light nonaqueous-phase liquid (LNAPL), a small amount of dense nonaqueous-phase liquid (DNAPL), and

chlorobenzene contamination. SCDHEC is currently reviewing a proposal for treating this site. At AOC 723, a pilot scale test of in-situ bioremediation similar to SWMU 166 is planned. Yearly monitoring is planned for AOC 722 and FDS 022 is currently having a Corrective Action Report generated.

Closing Comments

The next meeting will be held in January 2006.