



# Brown & Root Environmental

A Division of Halliburton NUS Corporation

(412) 921-7090  
FAX: (412) 921-4040

**MINUTES OF RESTORATION ADVISORY BOARD (RAB)  
PUBLIC MEETING  
MAY 18, 1995  
(REVISED SEPTEMBER 18, 1995)**

To: NSB-NLON Public Meeting Attendees and RAB Members (See attached distribution list)

From: *M&C*  
Matt Cochran of Brown and Root Environmental (formerly Halliburton NUS Corporation)

Subject: RAB and Public Meeting Minutes - May 18, 1995  
Installation Restoration Program  
Naval Subase - New London (NSB-NLON)  
Groton, Connecticut

Attendees of the meeting

Andy Stackpole	NSB-NLON
Dick Conant	NSB-NLON
John Rie	CBRS
Kymberlee Keckler	USEPA
Mark Lewis	CTDEP
Sue Pezzullo	RAB Co-Chair Member
Deborah Motycka Downie	RAB Member
Harry Watson	RAB Member
Felix Prokop III	RAB Member designee
Norman Richards	RAB Member
Andrew Parrella	RAB Member
Keith Ingalsbe	US Coast Guard Academy
Deb Jones	Town of Groton
Bart Pearson	Groton Resident
Tim Evans	B&R/HNUS

Agenda

The agenda for the meeting was as follows.

1. Welcome and Introduction
2. Review of February 22, 1995, Meeting Minutes
3. Review of Current Activities



4. Phase II RI Report Comments/Questions
5. Review of Ecological Sampling Activities
6. Other Items
7. Administrative Issues
8. Future Meeting Date/Time

#### Welcome and Introduction

Andy Stackpole welcomed attendees and opened the meeting at 7:11 p.m.

#### Review of February 22, 1995, Meeting Minutes

Andy Stackpole reviewed and revised the meeting minutes of the last RAB meeting.

It was agreed that meeting minutes would be mailed to RAB members within three weeks of the meeting for review. The revised meeting minutes from the previous meeting would also be mailed with the most current minutes. RAB members will bring corrections and comments to the following meeting.

Norman Richards commented that the video of the tank farm closure activities presented at the previous meeting was an excellent presentation and aided in understanding the activities discussed. Andy Stackpole informed the members that a video of the reference area ecological sampling may be presented at the next meeting.

#### Review of Current Activities

- Andy Stackpole reviewed current activities:

Draft Phase II RI has been submitted and is being reviewed;

Secondary sampling of surface soil and air will be performed at the Nautilus Memorial Museum, and the risk assessment for Goss Cove will be re-evaluated to determine if the appropriate scenario was used.

Norman Richards suggested that the moon phases and tidal changes be noted during sampling activities during secondary sampling.

#### Phase II RI report Comments/Questions

Andy Stackpole asked for comments/questions for the Phase II RI Draft report.



Norman Richards commented that the ground water flow directions are important, and it is good that they are being re-addressed. Andy Stackpole added that a definitive report on the bedrock ground water flow is yet to be prepared.

#### Review of Ecological Sampling Activities

Dick Conant reviewed the ecological sampling:

- HNUS and Menzie-Cura completed Thames River sediment sampling about two weeks ago
- HNUS just completed the third round of ecological sampling on site and at the reference locations.

Question from Norman Richards: Will sediment results from the ecological sampling be compared to sediment quality criteria vs. water quality criteria?

Response from Kimberlee Keckler: The results will be run through a risk assessment instead.

Question from Norman Richards: What kind of risk assessment will be performed?

Response from Kimberlee Keckler: The sediment results will be compared to NOAA guidelines. Equilibrium partitioning for biological receptors and risk assessment of dermal contact for humans are possibilities.

Questions from Norman Richards: Bioassays were mentioned as part of further testing as a result of the risk assessment. Would this be similar to what Narragansett does?

Response from Kimberlee Keckler: If risk assessment numbers were high enough, it may be warranted to perform toxicity testing.

Andy Stackpole added that determining sources of contaminants in the river is still needed. The outfalls and watercourses around the Subase are being sampled.

Dick Conant commented that efforts are concentrated on Goss Cove, DRMO, and outfalls from OBDA for determining if the Subase is a major contributor to the Thames River contamination.

Andy Stackpole commented that the positive detections of TCE and other solvents found up the hill from the Nautilus Museum may be a result of the dry cleaning operations adjacent to the site and that it is being investigated. In addition, it has been learned that the Town of Groton has an outfall in that area and an outfall pipe from the dry cleaners also exists. The Subase will try to determine if contamination is coming from off-site.

Question: How would the federal and/or state agencies determine what (source) is contributing to the contamination?

Response from Andy Stackpole: Ground water flow and hydrogeological properties can be studied.



**Response from Kymberlee Keckler:** A review of chemicals known to have been used at each area can also be done. Dye or tracer studies can be performed.

**Question:** Given the water purification process in effect, does it remove these known contaminants?

**Response from Andy Stackpole:** The Thames River is not used as a source of drinking water nor are there any residential wells in the area. The focus is on human risk.

**Question:** Has any connection between the town water and pollutants been suggested?

**Response from several individuals:** The water source is too distant from the Subase. However, the elevated levels of various chemicals in the residential wells north of the Subase in Ledyard were attributable to natural background levels.

**Question from Norman Richards:** What is the disposition of the residents who own those wells to the Subase?

**Response from Andy Stackpole deferred to Bart Pearson, Groton resident:**

The water quality problems of iron and magnesium are from the natural background levels. Wells also have a sodium problem, possibly from runoff. Most residences are connecting to the city water supply, and the influence from the Subase probably will not be concern to the residents.

**Question from Norman Richards:** Where are the actual pipe outfalls, discussed earlier; at the Goss Cove? And are they being sampled?

**Response from Andy Stackpole:** They are the 36" pipes that extend from the pier next to the Nautilus. The Subase has a storm water permit, and the outfalls are monitored on a regular basis.

#### Other Items

The Proposed Plan for the Area A Landfill Cap will be finalized May 31, and a public hearing will be held June 28. One change to the plan is that an addendum to the plan will include a leachate collection system for the edge of the landfill. All RAB members should receive a copy of the plan.

**Question:** When will the final report for the investigations be complete?

**Response from several individuals:** Investigations may be ongoing for many years.

**Response from Kymberlee Keckler:** Some sites will have no further actions performed based on the conclusions from the Phase II RI. Other sites will be at different stages of investigations (with Goss Cove being a major site).

**Question:** How much has been spent on investigations and actions at NSB-NLON so far.



Response: Two million dollars have been spent on the 2 interim actions at the Spent Acid Storage Area and the DRMO. Total costs are estimated at around \$7 million.

Comment from resident: It is difficult to hear members of the RAB.

It was suggested a microphone be used.

#### Administrative Issues

The RAB agreed on the attendance policy: if a member misses more than two meetings and does not have an alternate, that member would be asked to resign from the Board.

It was also agreed that the selection for the co-chair will be reviewed annually.

Questions from Harry Watson: How are items from RAB members to be added to the agenda?

Response from Sue Pezzullo: Call one of the co-chairs.

Sue Pezzullo brought up the subject of handling inquiries to RAB members from the press. After discussion, it was decided that RAB members may comment to inquiries but should inform one of the co-chairs (at present Sue Pezzullo) of the statements made to the press.

#### Future Meeting Date/Time

The next meeting is scheduled for August 9 at 7:00 p.m. The agenda for the next meeting is:

- Area A Landfill Cap Plan (which should be close to ROD)
- Phase II RI

The meeting was adjourned at approximately 8:25 p.m.