



**TETRA TECH NUS, INC.**

661 Andersen Drive • Pittsburgh, PA 15220  
Tel 412.921.7090 • Fax 412.921.4040 • www.tetrattech.com

PITT-09-4-036

September 17, 2004

Project Number N0990

Commander, Southern Division  
Naval Facilities Engineering Command  
ATTN: Dan Owens, Code ES32  
2155 Eagle Drive  
North Charleston, South Carolina 29406

Reference: CLEAN Contract No. N62467-94-D-0888  
Contract Task Order 0330

Subject: Naval Industrial Ordnance Plant, Fridley, Minnesota  
Restoration Advisory Board Meeting

Dear Dan:

Your RAB co-chairs, Richard Harris and Dan Owens, invite you to the next RAB meeting, scheduled for Thursday, October 7, 2004, at Riedel Farm House in Anoka County Riverfront Regional Park (directly across E. River Road from NIROP). The meeting should last about one hour. Please see the attached agenda.

Please note that the meeting location has changed from previous meetings. Please see the attached directions.

Persons receiving copies of this notice are requested to note that the next Restoration Advisory Board meeting will be held at the **Riedel Farm House, Fridley, Minnesota, on Thursday, October 7, 2004 at 8:30 am.**

Sincerely,

A handwritten signature in black ink, appearing to read 'Mark Sladic'.

Mark Sladic, P.E.  
Task Order Manager

MS/kf

Enclosures



**TETRA TECH NUS, INC.**

Mr. Dan Owens  
Naval Facilities Engineering Command  
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c: John Haukaas, City of Fridley, Dept. of Public Works  
Mark Goodman, Naval Sea Systems Command  
Wayne Hanson, Naval Sea Systems Command  
Paul Walz, Bay West  
David Douglas, MPCA  
Tom Smith, USEPA - Region V  
Doug Hildre, United Defense LP  
Michael Flaherty, Metropolitan Council Environmental Services  
Robert Hutchinson, Environmental Services, Anoka County Courthouse  
Adam Kramer, Minneapolis Water Works  
Larry Cole, Minneapolis Water Works  
LTC Joel Zejdlik, Defense Contract Management Office - Minneapolis  
Gary L. Brisbin, RAB Member  
Laura Schmidt, RAB Member  
Richard Harris, RAB Member  
Craig S. Gordon, RAB Member  
Bob Boesell, RAB Member  
John Flora, RAB Member  
Gen Peterson, League of Women Voters  
Venky Venkatesh, CH2MHill  
D. Humbert (letter only)  
Mark Perry, TtNUS, File 0990

**Minutes of Meeting  
Restoration Advisory Board Meeting #25  
October 7, 2004**

**Naval Reserve Ordnance Plant  
Fridley, Minnesota**

Restoration Advisory Board (RAB) meeting #25 was held at the Riedel Farm House in Anoka County Riverfront Regional Park, Fridley, Minnesota, on Thursday, October 7, 2004, at 8:30 AM. A copy of the attendance sheet is attached (Attachment 1). A copy of the meeting agenda is also attached (Attachment 2). Each of the attendees' affiliation is identified on the attendance sheet.

**1. Introduction**

Dan Owens and Mr. Richard Harris opened the meeting at 8:30 AM.

There was no old business to address.

**2. Actions Since Last Meeting**

**Operable Unit (OU) 1 - Groundwater:** Paul Walz, with BayWest, provided an Operation and Maintenance summary for the GWTF. See Attachment 3.

Paul identified the April 04 PLC circuit board replacement as responsible for the low on-stream factor during that period. Currently, due to weakening performance, well AT-7 is scheduled to be redeveloped. Paul also said that he is still researching the issue but believes that the pumps in wells AT-5A and AT-5B are the originals and their weakening performance may be attributable to old age. Although losing capacity, they are not yet down to the 60% of design capacity action level.

John Betcher asked what could be leading to the reduction in pumping. Paul suggested that the acid cleaning could be affecting the impellers, or maybe the cleaning is incomplete. Paul said the Teflon coating of the impellers has worked well.

Paul also noted that the polymer dose should be increased and paperwork to support the change has been provided to MDH.

**Anoka County Park Remediation Pilot Test (vegetable oil).** Venky Venkatesh, a Navy contractor with CH2MHILL, updated the status of the Pilot Test Study.

Venky said that the draft report was distributed and regulatory comments were provided. Parsons and Navy provided responses to those comments. The primary comments were typically about continuing the monitoring or adding additional wells, since there is a possibility that the groundwater flow might be more southerly than originally anticipated.

Currently, Parsons is proposing at least two additional sampling rounds. This is anticipated to start sometime before Thanksgiving, with the follow up round to be six months after.

Venky said that a permit will need to be requested to install additional wells.

Mr. Richard Harris said that at his recent RAB workshop in Utah, it was apparent that there are not many fans of pump and treat. Most people there did view vegetable oil favorably. Mr. Harris asked if that aside, is vegetable oil working here. Venky said the oil

is working, but not as fast as hoped. The contamination dropped from six thousand parts per billion to one thousand parts per billion or less. However, the original starting point was expected to be about twenty thousand parts per billion based on historical analyses.

Mr. Harris asked if the long-term plan was to install vegetable oil on the plant side if it works. Dan Owens said the Navy would do a cost-benefit evaluation. Mr. Harris asked if any of this progress or plan was a problem for EPA or MPCA. EPA and MPCA said no. Dave Douglas said the pump and treat won't be turned off until something better is identified.

Mr. Harris asked if daughter products are being produced and if they are breaking down. Venky said they are being produced and are being broken down.

**Operable Unit (OU) 3 – Soils Under the Plant:** Mark Sladic, a navy contractor with TtNUS, said that the Land Use Controls Remedial Design to support the Record of Decision (ROD) addressing both OU2 and OU3 had been completed. A handout was provided (see Attachment 4) of the signed ROD pages with a summary of the land use control objectives.

Mark said that in addition, the CERCLA Five Year Review had been completed to evaluate the protectiveness of the pump and treat remedy. The document concluded that the remedy remains protective. A handout was provided (see Attachment 5).

Also, Navy has agreed to put in several additional monitoring wells in the median strip on East River Road, pending the permission of Anoka County. Anoka County is currently reviewing the proposed locations, following which, a formal license agreement will be provided by Anoka County. The new wells will provide additional information about how groundwater flows are impacted by the pumping system.

**Sale of the Property** Dan Owens said that the NIROP had been sold to UDLP. This was one reason why the RAB was meeting across the road.

Mr. Richard Harris asked if any Navy presence would remain at NIROP. Dan said that while Navy retains the environmental responsibility, there would be no day-to-day presence. For the foreseeable future, Baywest would continue to operate the pump and treat system for the Navy, although longer term it is possible that UDLP may assume operation pending a larger settlement of all environmental issues between Navy and UDLP.

#### **4. Other Issues/Comments**

- a. The team is currently working on these other activities:
  - Next phase of vegetable oil workplan/testing
  - Collecting data for the 2004 groundwater annual monitoring report.
- b. The next meeting date has tentatively been set for May 5, 2005 at 8:30 AM. The Navy anticipates pursuing the Fridley's generous offer to allow the meeting to be held at the Fridley City Hall. RAB members, and others on the mailing list, will be notified well in advance and provided with a meeting agenda.
- c. The meeting was adjourned.

**ATTACHMENT 1:**  
**ATTENDANCE SHEET**

**ATTACHMENT 2:**  
**MEETING AGENDA**

**ATTACHMENT 3:**  
**OU1 GWTF PRESENTATION**

**ATTACHMENT 4:**

**OU2 AND OU3 ROD DECLARATION AND  
SIGNATURE PAGES**

**ATTACHMENT 5:**

**CERCLA FIVE YEAR REVIEW PROTECTIVENESS  
STATEMENT**