

**Minutes of Meeting  
Restoration Advisory Board Meeting #22  
December 13, 2001**

**Naval Reserve Ordnance Plant  
Fridley, Minnesota**

Restoration Advisory Board (RAB) meeting #22 was held at the Naval Industrial Reserve Ordnance Plant (NIROP), Fridley, Minnesota, on Thursday, December 13, 2001, 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**

Joel Sanders and Mr. Richard Harris opened the meeting at 8:30 AM.  
Joel introduced Jeff Meyers, who is taking over as Navy Project Manager for NIROP.  
Tom Bloom, with EPA, introduced Craig Thomas, who is taking over as EPA Project Manager for NIROP.

**2. Minutes of RAB Meeting #21**

The minutes were accepted by vote.

**3. Actions Since Last Meeting**

Operable Unit #1 - Groundwater: Brandon Juran, with BayWest, provided an Operation and Maintenance summary for the GWTF, since the last RAB meeting. See Attachment 3.

Brandon identified that one of the recent maintenance functions was to address underground corrosion. Mr. Harris asked how do you get corrosion on a system that new. Tim Ruda, with UDLP, responded that it usually occurs because of activities like welding on sampling ports.

Following Brandon's summary, Mr. Harris asked if the system was now back up and running at full speed. Brandon said yes.

**4. New Groundwater Pumping Wells** Venky Venkatesh, a Navy contractor with CH2MHill, reported that four new groundwater pumping wells were installed and other work was done to upgrade the groundwater pumping system. See Attachment 4.

**5. Anoka County Park Remediation Pilot Test (vegetable oil)** Venky noted that the Vegetable oil pilot test is underway, as the injections should be complete today. See Attachment 5.

During the presentation, Venky said that magnetite would be injected along with the vegetable oil. Mr. Harris asked what was the purpose for the magnetite. Venky replied that when used with imaging technology, it serves as a tracer for where the vegetable oil is spreading. Venky added that colloidal iron is also being added as a second imaging technology. Lecithin is being injected to help improve the actual vegetable oil performance. The USGS is running the imaging studies.

Mr. Harris asked how much of these chemicals is being injected. Venky answered that 3600 gallons of oil are being injected, along with 50 liters of magnetite and 50 liters of colloidal iron. Lecithin is mixed into the 3600 gallons of oil.

Mr. Harris asked if iron and magnetite weren't the same thing. Venky replied they were very similar, but each is testing a separate imaging technology. Doug Hildre, with UDLP, asked if colloidal iron wasn't also a reducing agent, and Venky replied it is.

Mr. Harris asked what is the target date for the end of the study. Venky said that sampling is scheduled at two, five, eight, and twelve months. If the system performs slowly, then it is possible that additional sampling could be added for sixteen, twenty, and twenty-four months. However, Parsons Engineering, who has pioneered this technology, said that if some results are not observed within five months, this system just may not respond.

Tim Ruda asked what is the action level for vinyl chloride. Venky replied that the action level is 0.18 parts per billion, or about the analytical method detection limits.

Doug Hildre asked how many wells were installed as a part of the vegetable oil study. Venky said 18 wells. Mr. Harris asked if any of these were deeper than 70 feet below ground surface, and Venky said no. Mr. Harris asked if this study gets close to bedrock, and Venky said no.

Doug asked if once the property sale goes through, will the Navy still be the owner of these wells. Joel said yes.

6. **DQO Applications at NIROP** Mark Sladic, a Navy contractor with TtNUS, provided a brief presentation about a tool the team uses to help make decisions. The Data Quality Objective (DQO) process was developed by the EPA, and the EPA requires that all new work plans use the DQO process. See Attachment 6.

7. **Sale of the Property** John Aubert said that no final agreement on the property sale has been agreed yet, although it's looking increasingly like UDLP will buy the property.

Mr. Harris asked if the property is sold to UDLP, will it then be on the tax roles. Joel said it would.

Mr. Flora asked if the current plans for industrial/commercial future use restrictions are consistent with the City's plans. Tom Bloom said that the City was consulted when the Team was determining the reasonably expected future land use. Mr. Flora warned that the City master plans could be changed in the future, and its important to stay in touch with City planning. Mr. Flora suggested that the Navy look into a more formal ordinance with the City.

Dave Douglas, with MPCA, said that if the property would ever be specified for unrestricted use, the whole area would have to be reassessed.

Mr. Harris asked when the plant might actually be sold. Doug Hildre said that GSA and Congress have a 55-60 day process, although that's not carved in stone. Mr. Harris said it sounds unlikely that this would happen by the first of the year - noting that property only gets added to the tax roles at the start of each year. So, since this won't likely be complete before January, then the property won't generate any tax revenues in 2002 no matter when the deal is done.

## 8. **Other Issues/Comments**

- a. **Partnering:** The team continues regular partnering meetings to keep the project moving. The meetings have been in occurrence since Fall 1996.
- b. The next meeting date has not been set, but likely will be around late April - May, at 8:30 AM on the specified date. RAB members, and others on the mailing list, will be notified well in advance and provided with a meeting agenda.