

April 25, 1995

Commanding Officer
Southern Division
Naval Facilities Engineering Command
Attn: David Cabiness; Code 1869
P.O. Box 190010
North Charleston, SC 29419-9010

Re: Naval Industrial Reserve Ordnance Plant
Fridley, Minnesota

Dear David:

Enclosed, for your use, are two copies of the notes from Restoration Advisory Board meeting #1 held at the Naval Industrial Reserve Ordnance Plant on April 6, 1995. These final notes address review comments on draft notes provided to RMT by the Navy. Other copies of these notes have been distributed according to the attached Distribution List. It is my understanding that Pat Mosites will also be distributing additional copies of the final notes to persons who requested a copy at the meeting on April 6.

Sincerely,



Eric Gredell, P.E.
Project Manager



RMT, INC. — MADISON, WI
744 HEARTLAND TRAIL = 53717-1934
P.O. Box 8923 = 53708-8923
608/831-4444 = 608/831-3334 FAX

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RAB MEETING #1**

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Commanding Officer Southern Division Naval Facilities Engineering Command Attn: David Cabiness; Code 1869 P.O. Box 190010 North Charleston, SC 29419-9010	2

**Minutes of Meeting
Restoration Advisory Board Meeting #1
April 6, 1995**

**Naval Industrial Reserve Ordnance Plant
Fridley, Minnesota**

Restoration Advisory Board meeting #1 was held at the Naval Industrial Reserve Ordnance Plant (NIROP) in Fridley, Minnesota, on April 6, 1995. A copy of the agenda distributed at the meeting and an attendance list are attached.

A. Introductions

1. Pat Mosites opened the meeting. All attendees stated their name and affiliation.
2. This is the first meeting of the Restoration Advisory Board (RAB) for the site. The RAB replaces the Technical Review Committee (TRC), which previously met 23 times on approximately a quarterly basis. Operating procedures for conducting the RAB have been distributed in draft form for comments. Discussion of the draft procedures was tabled until RAB meeting #2, due to the absence of the Navy's administrative co-chairman. The procedures will be finalized after receiving and discussing review comments on the draft procedures at the next RAB meeting. The final procedures will then be distributed to all RAB members and any persons requesting a copy.
3. Navy representatives on the RAB include David Cabiness, Chairman; Pat Mosites, Technical Co-Chairman; and Kerry Morrow, Administrative Co-Chairman.
4. Pat Mosites gave a brief overview of the current and previous cleanup actions at the site.

B. Actions Since Last TRC Meeting

1. Joe Heitkamp of Morrison Knudsen Corporation (MK) gave a report on the status of construction for the upgrading of the groundwater extraction system. MK, the Navy's general contractor for the project, received authorization from the Navy to proceed with work on 17 March 1995. On 27 March 1995, MK awarded contracts to a drilling company (Bergerson Caswell) and a mechanical/electrical contractor (Horwitz, Inc.). The driller has begun on-site work. Trenching work is expected to begin during the week of 10 April 1995, and to be completed by 5 May 1995. Installation and development of the two new extraction wells is scheduled to be completed by 1 May 1995. Delivery of the new well pumps is expected during the last two weeks of May.
2. Michael Flaherty said that the Navy submitted a request to the Metropolitan Council Wastewater Services (MCWS) to discharge extracted groundwater to the sanitary sewer without pretreatment. This request was made because the volatile organic compound (VOC) concentrations in the extracted groundwater have continued to decrease, and the concentrations currently meet all discharge limitations without any pretreatment. The current limits are 3 mg/L for any single VOC and 10 mg/L for the total of all VOCs. The MCWS and the Navy recently performed some confirmatory

sampling of the extracted groundwater ahead of the pretreatment system, to verify that the current VOC concentrations are consistently below the discharge limits. On 23 March 1995, the MCWS sent a letter to the Navy authorizing shutdown of the pretreatment system. Special monitoring requirements were specified as part of the MCWS approval, whereby the Navy must meet certain monitoring requirements for the first two months after the pretreatment system is shut down. After two months, the MCWS would review the monitoring results to determine whether a modified sampling and monitoring plan would be appropriate. The parameters specified under USEPA Method 602 are to be analyzed during the first two months.

David Douglas said that although the pretreatment system can be shut down with approval of the MCWS, none of the extraction wells may be shut down for an extended period without the approval of the MPCA and USEPA. In addition, when the two new extraction wells are started up, the VOC concentrations in the extracted groundwater should be verified by additional sampling.

Michael Flaherty said that the MCWS intends to require this additional sampling. He also said that the MCWS is currently revising their local limits requirements, which will include a review of limits for specific toxic organics. They expect to submit the proposed revised limits to the USEPA for review by September 1996. Groundwater from the NIROP that may be discharged to the sanitary sewer would be subject to the new limits when they are finalized.

3. David Cabiness said that in response to the City of Fridley's request that the Navy provide treated groundwater from the NIROP to the city for use as a drinking water supply, the Navy recently evaluated estimated costs of various treatment system alternatives. Preparation and review of these cost estimates was coordinated by the Navy with the city's engineering consultant. An Assistant Secretary of the Navy is expected to make a decision on 6 April 1995 regarding whether the Navy would be able, in concept, to comply with the city's request. If the Assistant Secretary determines that the Navy would be allowed to provide the groundwater to the city, further discussions between the Navy and the city regarding the details of such an agreement could proceed. The decision by the Assistant Secretary today will also allow the negotiations between the Navy and the USEPA/MPCA regarding penalties recently issued to the Navy to be finalized. David Cabiness said the Navy will send a notice of the decision made by the Assistant Secretary to the USEPA and MPCA.
4. David Douglas said that under the Federal Facility Agreement, the MPCA cannot take direct enforcement action against the Navy related to the NIROP site. However, through the USEPA, the MPCA recently issued certain stipulated penalties to the Navy. He said that as part of the settlement for these penalties, the Navy could propose to complete supplemental environmental projects. Providing treated groundwater to the city as a drinking water source may be a type of supplemental project that would be acceptable to the MPCA. The MPCA Commissioner has agreed with the concept of the Navy providing the groundwater to the city. However, the Commissioner has also confirmed that the Record of Decision (ROD) does not require the Navy to do this.
5. A final draft of the Operation and Maintenance Plan - Revision 1 has been sent by RMT to the Navy for review. The plan is expected to be finalized for distribution during the week of 10 April 1995.

6. Investigation of soil and groundwater quality is currently being done inside the plant in the area of a large renovation project for the plating shop. Temporary removal of plating tanks and equipment has allowed the opportunity to use a drilling rig to place 6 soil borings with soil sampling in these areas. Temporary wells will be installed in some of the boreholes to allow collection and analysis of some groundwater samples. The in-plant investigation work is expected to be finished during the week of 10 April 1995, with laboratory results from analysis of all samples available approximately one week later. With the Navy's approval, these laboratory results could be provided to interested persons on request.

This investigation of soil and groundwater quality beneath the plant building is being performed by the Navy at its discretion, under a workplan that has been approved by the USEPA and MPCA. Tom Bloom said it is expected that the data from these investigations will be directly useable as part of the future remedial investigation for soil under the plant buildings, which is identified as Operable Unit (O.U.) #3 for the site.

7. Tim Ruda presented a summary of operation and maintenance activities for the groundwater remediation system since the last meeting (information sheet attached). The pretreatment system was shut down on 28 March 1995. The equipment will remain in standby status. As required by the MCWS, a sample of the discharge to the sanitary sewer will be collected weekly for two months following the shutdown. The MCWS will then consider whether the sampling frequency can return to a monthly schedule, based on the sampling results from the first two months. After shutdown of the pretreatment system, the flow rates from the extraction wells increased significantly, as expected. The flow rates from wells AT-1A, AT-2, and AT-4 at least doubled. The flow rate from well AT-3A is continuing to be controlled at approximately 200 gpm to assist in complying with the MCWS discharge limits. However, well AT-3A is capable of producing flow rates in excess of 300 gpm, if desired.
8. David Douglas said the MPCA has put the NPDES permit "on hold" pending resolution of the enforcement action which the USEPA and MPCA initiated. He said the MPCA has the authority to withhold an NPDES permit in cases where a pending enforcement action exists. However, the final permit has been prepared and is available to be issued upon resolution of the enforcement action. If an agreement is reached between the Navy and the City of Fridley for the Navy to provide treated groundwater to the city, the NPDES permit would have to be revised, which could require an additional public comment period. In addition, if the time required until the final permit can be issued becomes too long, it will be necessary to issue a separate NPDES permit for the non-groundwater sources of discharge from the NIROP to the river.
9. David Cabiness said that the Alternatives Report for soil remediation (O.U. #2) has been approved by the USEPA and MPCA. The Navy has requested, and the USEPA and MPCA have approved, an extension of the due date for the draft Feasibility Study (FS) Report. A schedule showing the due dates for submittals related to the FS and other projected milestone dates through signing of the ROD was distributed at the meeting (copy attached). The schedule also included projected milestone dates related to groundwater remediation (O.U. #1). A correction to the due dates shown on the schedule for O.U. #2 was noted during the meeting; the current due date for the draft FS Report is 30 April 1995.

10. Galen Kenoyer said that the draft FS Report for soil (O.U. #2) must now be completed to meet the due date that has been triggered pursuant to approval of the Alternatives Report by the USEPA and MPCA. However, it is the understanding of RMT and the Navy that the specific target cleanup goals for the soil are still unresolved with the USEPA and MPCA. He said that during a telephone conference call with representatives of the Navy, RMT, the USEPA, and the MPCA in October 1994, the general approach for applying the MPCA's soil leaching model to set soil cleanup goals had been discussed. During that conference call, agreement was reached regarding which specific research studies would be used to provide data for input to the MPCA's model. During the conference call, RMT also indicated that preparation of the FS Report would proceed using the research data that represent the mid-range of reported biodegradation rates, although the MPCA had proposed use of the lowest biodegradation rate data reported in the literature.

Mark Ferrey said it was his understanding from the conference call in October 1994 that RMT and the Navy had agreed to use of the lowest reported biodegradation rate data. He said it had been agreed that use of biodegradation rates derived from studies that were done using sewage treatment plant effluent were not appropriate to the NIROP soil. He said it was his understanding that agreement was reached to use the results of soil microcosm studies to calculate the allowable soil concentrations using the MPCA's soil leaching model. It was also agreed that the soil cleanup goals would be based on the residual concentrations that would be allowable to prevent groundwater impacts.

Galen Kenoyer said that although a difference of opinion still exists regarding the appropriate approach to be used for calculating the soil cleanup goals, preparation of the FS Report must proceed to meet the required submittal deadline. He said cleanup levels presented in the report will be based on cleanup of the soil under O.U. #2 in the context of the appropriate cleanup goals for the overall site, using calculated cleanup target levels based on the approach proposed by RMT.

It was agreed that the draft FS Report will be completed and submitted for review, and that the issue of the appropriate soil cleanup levels would be discussed further during resolution of review comments on the draft report.

11. The Annual Monitoring Report for 1994 was issued. Review comments on the report have been provided by the USEPA and MPCA.

C. Actions for Next Quarter

1. Construction of the new extraction wells will be completed and the wells will be started-up. The proposed method for managing the water that will be produced from development of the new wells was discussed. The water will be pumped into a tanker truck and a sample will be collected for quick turn-around time analysis. After the laboratory results are received and with approval from the MCWS, the water will be drained into a plant sanitary sewer.
2. The Navy will submit a request to the Minnesota Department of Natural Resources to modify the Groundwater Appropriation Permit after the new extraction wells are started-up.

3. Revision 3 of the Remedial Action Workplan is expected to be issued. This revision will address modifications to the approved groundwater monitoring well network and analytical procedures for groundwater samples that were recently proposed by the MPCA in their comments on the Annual Monitoring Report for 1994.
4. In response to requests from the MPCA, the Navy has made arrangements with a contractor to perform a geophysical investigation in the north 40 area, to check for the possible presence of buried drums that may not have been identified during previous removal actions. A workplan for this investigation has been provided to the MPCA for review. The MPCA will attempt to provide review comments on the workplan to the Navy during the week of 10 April 1995. The results of the geophysical investigation will not be included as part of the RI/FS for O.U. #2. Any potential drums that are identified during the investigation will be addressed as part of a separate removal action, as done previously. The investigation work and any removal actions that may be needed would be completed within the next 6 months.
5. An audit of environmental restoration costs at the NIROP is being conducted by the Government Accounting Office.
6. The Navy has commissioned the Agency for Toxic Substances and Disease Registry (ATSDR) to perform a study of the potential effects of the discharge of treated groundwater to the river, as specified in the ROD. The study will also address the potential effects if the treated groundwater is not discharged to the river, and is provided to the City of Fridley. Tom Bloom said that the ATSDR had previously prepared a study and report that addressed the discharge to the river. David Cabiness said the Navy has requested the additional study to update the evaluation based on current data for groundwater flow rates and quality, and updated projections of flow rates and quality after the two new extraction wells are operating.
7. Design of the long-term groundwater treatment facility is expected to begin, after a final decision is made regarding whether the groundwater will be provided to the city.
8. A report on the results of the soil and groundwater investigation in the plating shop area will be completed within a few weeks after all laboratory results are available. The laboratory reports are expected to be received within about two weeks.
9. The final FS Report for O.U. #2 soil is expected to be approved by 15 August 1995.
10. An addendum to the Annual Monitoring Report for 1993 is expected to be issued within the next two weeks, with responses to review comments from the USEPA and MPCA on the original report.

D. RCRA Status

No topics were discussed.

E. Community Relations

1. Discussion of issues, procedures, etc., related to the RAB was tabled until the next meeting.

2. Pat Mosites will prepare revisions to the draft RAB procedures to address review comments received by the Navy, and will send the procedures to RMT to be included in the upcoming revision of the Community Relations Plan.
3. A request was made to provide a calendar of future RAB meeting dates.

F. General Topics

1. Adam Kramer said the City of Minneapolis is on-record as being opposed to the discharge of treated groundwater to the river upstream of the Water Treatment Plant. He said the city supports re-use of the groundwater or discharging the treated groundwater to the river downstream of the Water Treatment Plant intake. He said the city's concern is based on the possibility of a treatment malfunction or failure that would allow contaminated groundwater to enter the river as a point discharge, which could result in a risk of contaminants from the groundwater being drawn into the Water Treatment Plant intake. He said that even though the contaminants that may enter the river from a groundwater treatment failure at the NIROP may alone not result in a risk to the Water Treatment Plant, the city recognizes that the river water quality is a result of cumulative discharges of contaminants to the river from a variety of sources. He said the city believes that the potential risk to the river quality from an accidental discharge of untreated groundwater at the NIROP should be eliminated as an incremental improvement in the river water quality at the Water Treatment Plant. He said another concern is that the regulatory limits for concentrations of organic compounds in drinking water supplies are continually becoming more stringent. The city supports any measures that would result in a potential reduction in the concentrations of toxic organics in the river water.

Tom Bloom said that at the public meeting held for the Proposed Plan, Mr. Kramer had advocated that the discharge of treated groundwater from the NIROP to the river upstream of the Water Treatment Plant would be supported by the City of Minneapolis, and in fact was beneficial to help maintain the river flow rate during droughts. He said it appears that the city's current position is in opposition to the previous comments in the record. He also said the city had the opportunity to formally present comments on the proposed discharge to the river during the recent public comment period for the draft NPDES permit.

Galen Kenoyer said that for many years before the groundwater extraction system was installed, trichloroethene (TCE) at a typical concentration in the range of 3 mg/L entered the river adjacent to the NIROP in the natural groundwater flow into the river. He said it should be noted that the planned discharge of treated groundwater to the river would have a TCE concentration of less than 5 parts per billion, which represents a very significant improvement in the quality of the groundwater entering the river, and an equally significant reduction in risk to the Water Treatment Plant.

2. Tom Bloom presented a summary of the past environmental remediation actions at the NIROP.
3. Richard Harris, a current resident of Fridley, said his family used to own property to the south of the Water Treatment Plant, on the river side of East River Road. He said that several years ago, he recalls seeing trucks dumping waste materials into open pits located in the current north 40 area of the NIROP. He also said he used to work

for a contractor that did some construction work at the NIROP. He said he was involved in a project at the NIROP in about 1965 which involved demolition of several large "sheds" which were used for storing gun mounts and other equipment. He said he recalls that waste oil from the gun mounts was dumped onto the ground during the project. He said that dumping of waste paint at the site was also a common practice. He asked if the USEPA had investigated potential contaminants at the site that might be associated with this type of waste disposal, such as lead and zinc. Tom Bloom said that an extensive list of potential contaminants in both soil and groundwater has been investigated. Galen Kenoyer said that, as expected, some metals were detected in soil samples; these metals and their concentrations were generally representative of natural soil conditions. The metals concentrations were also found to be below any health risk levels.

4. David Cabiness said that if treated groundwater is discharged to the river, two new air stripping columns operated in series will be used to treat the water. If the water is provided to the city, the final treatment unit process will involve liquid-phase granular activated carbon (GAC) units, consisting of parallel equipment trains with two GAC units operated in series in each train. This will provide a safeguard against VOCs entering the final treated water by monitoring the water quality between the two units to determine when VOC breakthrough of the lead unit occurs.

5. Richard Harris asked if the water quality will be continuously monitored, if the water is supplied to the city. He said that at the Twin Cities Army Ammunition Plant site, problems have occurred due to the chlorine residual in the treated water, but not due to TCE. He said the general water quality is also a concern, since industries in the city may have to provide additional treatment to obtain water of adequate quality for their uses.

John Flora said that the cities of St. Anthony and New Brighton both use GAC to remove VOCs from groundwater prior to use in the municipal water system. New Brighton uses GAC units in series, and there have not been problems related to VOC breakthrough in the 4 to 5 years the system has been operating. However, New Brighton has also had problems with high chlorine residual.

David Cabiness said the specific treatment process that will be used cannot be determined until after the Navy decides whether the water will be given to the city. Approval of the Minnesota Department of Health, the MPCA, and the USEPA would also be needed to allow the water to be given to the city.

6. Tom Bloom said if the groundwater is provided to the city, it may be possible to address this deviation from the original ROD in an Explanation of Significant Differences document, rather than a formal amendment of the ROD.
7. John Flora recommended that groundwater samples from the bedrock monitoring wells be collected at some time, to verify that the aquifer has not been contaminated. He said he does not believe that the investigations to date or the current remedial action for groundwater adequately address the bedrock aquifer. He suggested that any remaining production wells at the site that were used in the past to supply groundwater from the bedrock aquifer for manufacturing operations at the plant could be pumped temporarily to check for VOCs.

John Betcher said there are 5 monitoring wells at the site in the bedrock. A concentration of 17 ppb TCE was observed in one sample from one of these wells; the other 4 wells have all shown no detectable levels of VOCs. He said the RI results show that there is not any widespread contamination of the bedrock aquifer attributable to the NIROP. He also noted that all results of the site investigation have previously been made available for review and comment by the public. Regarding the suggestion to pump and sample abandoned production wells at the site, he said this would not be a good idea, because the pumping could draw contamination from the upper aquifer down into the bedrock aquifer, thus degrading the bedrock water quality.

Galen Kenoyer said the groundwater flow gradient at the site is strongly upward from the bedrock into the overlying sand. This indicates that any contamination of the bedrock aquifer that may have occurred will decrease over time.

8. The next meeting (RAB meeting #2) will be held on **Thursday, July 13, 1995, at 9:30 a.m.** in the Defense Plant Representative Office (DPRO) at the NIROP Fridley.

03/13/95

NIROP FRIDLEY
OU #1 DUE DATES AS REQUIRED BY FFA

<u>DOCUMENT</u>	<u>CONTRACT</u>	<u>DUE DATE</u>
Final upgrade design	RMT	24 Feb 95
Construction start	M&K	27 Mar 95
Construction end	M&K	8 May 95
Groundwater determination document to agencies	RMT	22 Aug 95
Groundwater determination document approved	Agencies	22 Sept 95
Permanant plant design	RMT/M&K	22 Sept 96
Permanent plant construction	M&K	No date specified
Groundwater sampling monitoring wells (level)	UD	Quarterly
monitoring wells (analysis)	UD	Quarterly
Extraction wells (analysis)	UD	Quarterly
Annual monitoring report	RMT	1/31/95
MCWS report	UD	April 30
		July 30
		Oct 30
		Jan 30
Air sampling	UD	Monthly
AER report	UD	Monthly

03/13/95

**NIROP FRIDLEY
OU #2 DUE DATES AS REQUIRED BY FFA**

<u>DOCUMENT</u>	<u>FFA SECTION</u>	<u>DAYS ALLOWED</u>	<u>DUE DATE</u>
Draft FS to agencies	32.1	90	30 Mar 95
Comments from agencies	14.7 (2)	30	30 April 95
Final FS to Agencies	14.7 (5)	45	15 June 95
Approve final FS	14.7(2)	30	15 July 95
Draft PP to agencies	32.1	60	15 Sept 95
Comments from agencies	14.7 (2)	30	15 Oct 95
Final PP to Agencies	14.7 (5)	45	30 Dec 95
Approve final PP	14.7 (2)	30	30 Jan 96
Publish PP for public review	?	15	15 Feb 96
End of comment period	?	30	15 Mar 96
Public meeting on PP	?	15	1 April 96
Responsiveness Summary (RS) and draft ROD to agencies	32.1	90	1 July 96
Comments from agencies	14.7 (2)	30	1 Aug 96
Final ROD and RS to agencies	14.7 (5)	45	15 Sept 96
Approve final ROD	14.7 (2)	30	15 Oct 96
Sign ROD	?	15	1 Nov 96

REVISED DATE
PER MEETING
ON 4-6-95

30 April 1995

↓
(Add. 30 days
to all previous
Due Dates)

NIROP Maintenance Activities 17 November 1994 to 6 April 1995.

- * Groundwater removed 1994 4th qtr. 43.3 million gallons.
- * Groundwater removed 1995 1st qtr. 37.4 million gallons.
- * Pump "wet ends" replaced in AT1a, AT4 drop pipe cleaned 1/12/95.
- * Monitoring Well/extraction well sampling was conducted February 14-16.
- * Water Level Readings taken 31 March.
- * Air sampling conducted 11/28/94, 1/19/95, **2/17/95**, 3/17/95.
- * Carbon Vessel replaced 7 March.
- * Scrubber shutdown 28 March flowrates in GPM as follows:

<u>AT1a</u>	<u>AT2</u>	<u>AT3a</u>	<u>AT4</u>
<u>39 gpm</u>	<u>45</u>	<u>198</u>	<u>32</u>
<u>90 gpm</u>	<u>95</u>	<u>204</u> kept at 70psi	<u>88</u>

Planned Activities

- * *Quarterly water Level readings June 1995*
- * *CLP sampling May 1995*
- * *Combined discharge sampling to occur weekly for 2 months.*
- * *Service of scrubber/stand-by status*

NIROP FRIDLEY RESTORATION ADVISORY BOARD MEETING #1
APRIL 6, 1995
AGENDA

1. INTRODUCTION

2. Corrections to Minutes of TRC #23

3. RAB Formation

- Goals/Role of RAB
- Procedures/Policy
 - a. Review/comment/discuss (MPCA/Fridley -received)
 - b. consolidate comments
 - c. draft "final" procedures
 - d. final review
 - e. issuance/RAB member approval
- Agenda Items
 - a. submittal of items
- Correspondence
 - a. All cover letters between FFA parties
(1) copy to RAB Co-Chairs

4. Actions since last meeting

NAVY/RMT

Site Management Plan (see attached)

Operable Unit #1 - Groundwater

- Annual Monitoring Report 93
- Annual Monitoring Report 94
- GWES Upgrade Workplan
- GWES Upgrade Field Work
- GWES Upgrade Design
- Groundwater Appropriation Permit for two additional wells
- Industrial Discharge Permit
- Water for City of Fridley
 - A. Navy/Fridley cost comparison
 - 1. System interconnection

- O&M Plan for GWES
- RAWP amendment
- Shutdown of Pretreatment System - Approval from MCWS

Operable Unit #2 - Soils in North 40

- Alternatives Array Report for Soils
- Feasibility Study
- Risk Based Cleanup Goals
- Soil Leaching Model Resolution
- Additional Geophysical Work for OU#2

Operation Unit #3 - Soils under Nirop Plant

- Soil Sampling in East Plating
- Approval of Workplan
- Fieldwork schedule

Miscellaneous

- Enforcement Action Status
- Community Relations Plan(CRP) update
- GAO Audit
- Agency for Toxic Substances and Disease Registry(ATSDR) Study

UNITED DEFENSE

- Maintenance and Monitoring Activities

MINNESOTA POLLUTION CONTROL AGENCY

- NPDES Permit Status

5. Actions Scheduled for Next Six Months

- Design of New Groundwater Treatment Facility(GWTF)
- GWES Upgrade

- Soil Sampling of East Plating
- Geophysical Study in North 40
- Completion of OU#2 Feasibility Study

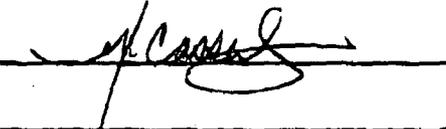
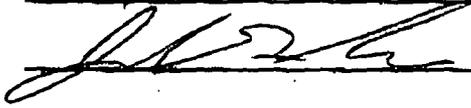
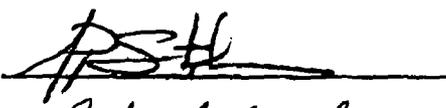
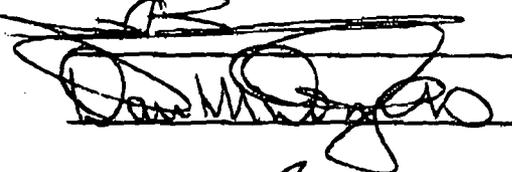
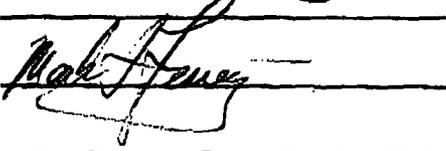
6. Other issues/Comments

7. Next Meeting

RESTORATION ADVISORY BOARD MEETING # 1
APRIL 6, 1995

NIROP FRIDLEY, MINNESOTA

LIST OF ATTENDEES

<u>NAME</u>	<u>ORGANIZATION</u>	
Margaret Casserly	Black and Veatch	
Scott Erickson	City of Fridley	
John Flora	City of Fridley	
Robert Hutchinson	County of Anoka	
Evan Drivas	DNR	
John Dresch	DPRO United Defense Minneapolis	
Keith Lura	DPRO United Defense Minneapolis	
Sue Oettser	DPRO United Defense Minneapolis	
CDR Stephenson	DPRO United Defense Minneapolis	
Richard Ninesteel	Halliberten Nus	
James de Lambert	Liesch Associates Inc.	
Bruce Rehwaldt	Liesch Associates Inc.	
Larry Cole	Minneapolis Water Works	
Paul Koski	Minneapolis Water Works	
John Betcher	MPCA	
Dave Douglas	MPCA	
Gary Eddy	MPCA	
Mark Ferrey	MPCA	
Fred Jenness	MPCA	
Carolyn Volker	MPCA	

NAME ORGANIZATION

Michael Flaherty	MWCC mcws	<u>Michael V. Flaherty</u>
Charles Smith	Naval Weapons Station	<u>[Signature]</u>
Jeff Addison MARK GOODMAN	NAVSEA	<u>[Signature]</u>
Steve Hoffman	NAVSEA	<u>[Signature]</u>
Kerry Morrow	NAVSEATECHREP Office	<u>[Signature]</u>
Pat Mosites	REICC, Minneapolis	<u>[Signature]</u>
Mark Briggs	RMT, Inc.	<u>[Signature]</u>
Eric Gredell	RMT, Inc.	<u>Eric Gredell</u>
Linda Hieken	RMT, Inc.	<u>[Signature]</u>
Galen Kenoyer	RMT, Inc.	<u>Galen Kenoyer</u>
Charles Black	SOUTHNAVFACENGCOM	<u>[Signature]</u>
Steve Beverly	SOUTHNAVFACENGCOM	<u>[Signature]</u>
David Cabiness	SOUTHNAVFACENGCOM	<u>David Cabiness</u>
Douglas Hildre	United Defense	<u>[Signature]</u>
Timothy Ruda	United Defense	<u>Timothy R. Ruda</u>
Thomas Bloom	USEPA	<u>Thomas Bloom</u>
<u>Richard Harris</u>	<u>[Signature]</u>	<u>Richard H. Harris</u>
<u>Jim Peterson</u>	<u>L W J O'RIDLEY</u>	<u>157 Glen Creek Rd</u>
<u>JOE HEITKAMP</u>	<u>MK Corp</u>	<u>FR 2124 55732</u>
<u>Courne Hoff</u>	<u>Congressman's Office</u>	<u>Hoff 730-4949</u>
<u>ADAM J KRAMER</u>	<u>MINNEAPOLIS WATER WORKS</u>	<u>[Signature]</u>