



DEPARTMENT OF THE NAVY

INDIAN HEAD DIVISION
NAVAL SURFACE WARFARE CENTER
101 STRAUSS AVE
INDIAN HEAD MD 20640-5035

5090
Ser 0952/294
13 Jun 94

Mr. Kim Lemaster
Maryland Department of the Environment
CERCLA Response Division
2500 Broening Highway
Baltimore, MD 21224

Dear TRC Member:

We are forwarding the Meeting Minutes from the last Installation Restoration (IR) Technical Review Committee (TRC) meeting, which was held on Monday, May 23, 1994. Copies of the presentations given at the meeting are included as attachments in the minutes.

As discussed in the TRC meeting, a public meeting is being scheduled for 7:00 p.m., Thursday, July 21, 1994, at the old Indian Head Post Office Building. We plan to provide information to the community about our IR program, especially the new Restoration Advisory Board (RAB). In addition, we want to use the meeting as a vehicle to solicit new members for the RAB. Your attendance at this meeting will be greatly appreciated.

We are also forwarding the Draft Engineering Evaluation and Cost Analysis (EECA) for IR Site 56. We request that you review this document and provide your comments to us by Friday, July 1, 1994.

As a final note, the next TRC meeting is scheduled for Monday, August 29, 1994, at 1:00 p.m. in Building 20. We hope to see you there. If you have any questions or comments please contact Shawn Jorgensen on (301) 743-6745 or 6746.

Sincerely,

SUSAN P. ADAMS
Director, Environmental Division
By direction of the Commander

Encl:

- (1) TRC Meeting Minutes for meeting of May 23, 1994
- (2) Draft EECA for IR Site 56 of May 1994

Copy to:
TRC Members
EFACHES (Code 181SP) (w/o encl [2])
Brown & Root Environmental (K. Donnelly) (w/o encl [2])

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Blind copy to:
09/B/A
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PAO
095D
0952G

Writer: S. Jorgensen, Code 0952C, X6745
Typist: S. Jorgensen, 9 Jun 94

SUMMARY MEETING MINUTES
 INSTALLATION RESTORATION
 TECHNICAL REVIEW COMMITTEE MEETING

Date of Meeting: May 23, 1994

Project: Installation Restoration (IR) Program
 Indian Head Division,
 Naval Surface Warfare Center
 101 Strauss Avenue
 Indian Head, MD 20640-5035

Meeting Participants:

Capt. D.G. Maxwell*	Mr. Vincent Hungerford
Ms. Chris Adams	Mr. Shawn Jorgensen*
Ms. Susan Adams*	Mr. Kim Lemaster*
Mr. Jeff Bossart	Ms. Jennifer McGraw*
Ms. Sherry Deskins	Mr. Shawn Phillips*
Mr. Kevin Donnelly	Mr. Robert Simcik
Mr. Clarence Fox	

* Member

Technical Review Committee Members Not in Attendance:

Mr. Stephen Elder	Ms. Susan Luther
Mr. Bob Foley	Mr. Thomas Symalla*
Dr. Philip Giguere	Ms. Susan Weber
Ms. Patricia Haddon	

Major Issues Discussed/Accomplished:

1. Meeting Introduction

Ms. Susan Adams of the Indian Head Division, Naval Surface Warfare Center (IHDIVNAVSURFWARCEN) began the meeting by reviewing the agenda for the meeting, which changed slightly from the tentative agenda sent out prior to the meeting. In addition, Ms. Adams stated that Dr. Philip Giguere has accepted our invitation to be a member of the TRC. Unfortunately, due to short notice, Dr. Giguere was unable to attend this TRC meeting.

2. IR Site 5 Status

Mr. Kevin Donnelly of Brown and Root Environmental (B&RE) discussed the current status of work at IR Site 5, X-Ray Facility Building 731. Sampling of the site was performed in January and February 1994 by B&RE personnel. Based on the sampling results, approximately 1700 cubic yards of silver contaminated soil will

ENCLOSURE(1)

be removed to ensure that the action level of 10 parts per million (ppm) is reached in the soil remaining at the site. The silver contaminated soil was not found to be toxic, using the Toxicity Characteristic Leaching Procedure (TCLP) test for silver.

The soil that is removed from the site will be placed in the Rum Point Borrow Pit on our Stump Neck Annex. The borrow pit requires a large amount of soil to return it to its original grade and minimize erosion. The silver contaminated soil will be covered with a layer of low permeability soil, fill material, and then top soil.

A copy of Mr. Donnelly's presentation is included as Attachment A of these meeting minutes.

3. IR Site 8 Removal Action Status and Biomonitoring Results

Mr. Robert Simcik of B&RE provided a brief summary of IR Site 8, including the status of the Interim Removal Action, which he stated is officially scheduled to begin on June 13, 1994, and the latest results of the Biomonitoring effort at this site.

A copy of Mr. Simcik's presentation is included as Attachment B.

4. IR Site 56 Summary

Mr. Shawn Jorgensen of IHDIVNAVSURFWARCEN discussed a new site, IR Site 56, which includes an Industrial Wastewater Outfall (IW87) that is contaminated with lead. The soil at the outfall has been found to be TCLP toxic for lead.

Mr. Jorgensen and Mr. Shawn Phillips of the Engineering Field Activity - Chesapeake (EFACHES) have prepared an Engineering Evaluation and Cost Analysis (EECA) for this site. Copies of the EECA will be made and will be sent to TRC members for review.

Attachment C contains a copy of Mr. Jorgensen's presentation.

5. Restoration Advisory Board (RAB)

Ms. Susan Adams discussed the formation of the new RAB and prepared a detailed summary of what this will involve. Ms. Adams summary is included as Attachment D. In order to inform community members of the new RAB and to solicit members, Ms. Adams suggested that we have a public meeting to discuss the RAB. The old post office in Indian Head was suggested as a meeting place for the RAB. Therefore, a public meeting will be set up for Thursday, July 21, 1994 at the old post office building in Indian Head.

6. Additional Information

Dr. Clarence Fox, the Environmental Health Director of the Charles County Health Department stated that this would be his last TRC meeting, since he will be retiring. He did state, however, that someone from the Health Department would be taking his place. We thanked Dr. Fox for all of his assistance in the past with the IR program and his participation in the TRC.

In addition, Ms. Adams stated that Ms. Susan Weber, who has obtained a new job in Pollution Prevention, telephoned IHDI VNAV SURFWARCEN to say that she will no longer be able to participate on the TRC (or RAB). Ms. Weber's involvement on the TRC as a community member will be greatly missed.

7. Future Schedule

Ms. Adams ended the meeting by stating that the next TRC meeting is scheduled for Monday, August 29, 1994, at 1300 hours. In addition, Ms. Adams reminded TRC members that a public meeting will be held in the old Indian Head Post Office at 7:00 p.m. on Thursday, July 21, 1994, to solicit members for the new RAB.

**INSTALLATION RESTORATION (IR) SITE 5
STATUS UPDATE PRESENTATION**

PRESENTED TO:

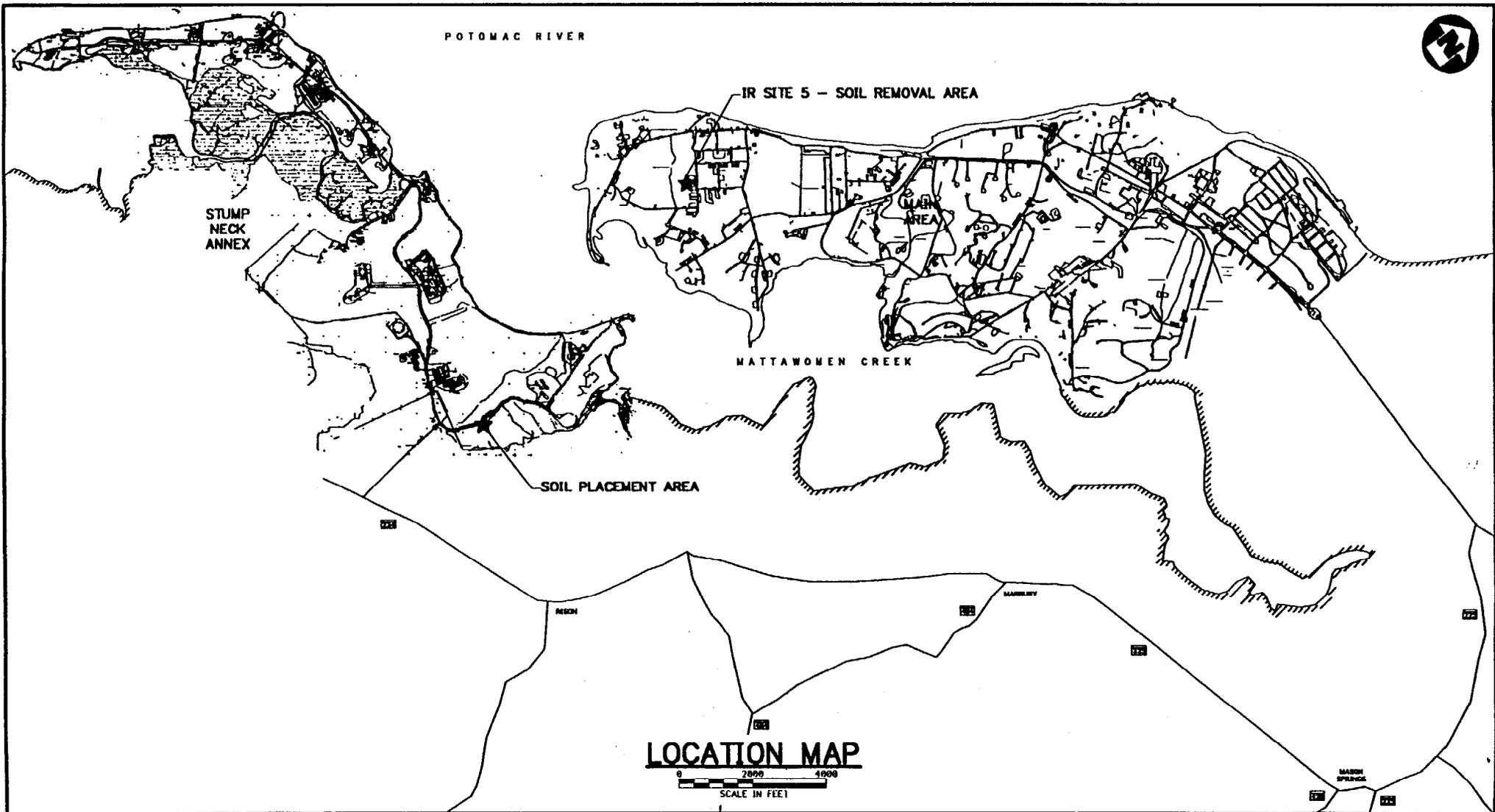
**TECHNICAL REVIEW COMMITTEE
INDIAN HEAD DIVISION NSWC
INDIAN HEAD, MARYLAND**

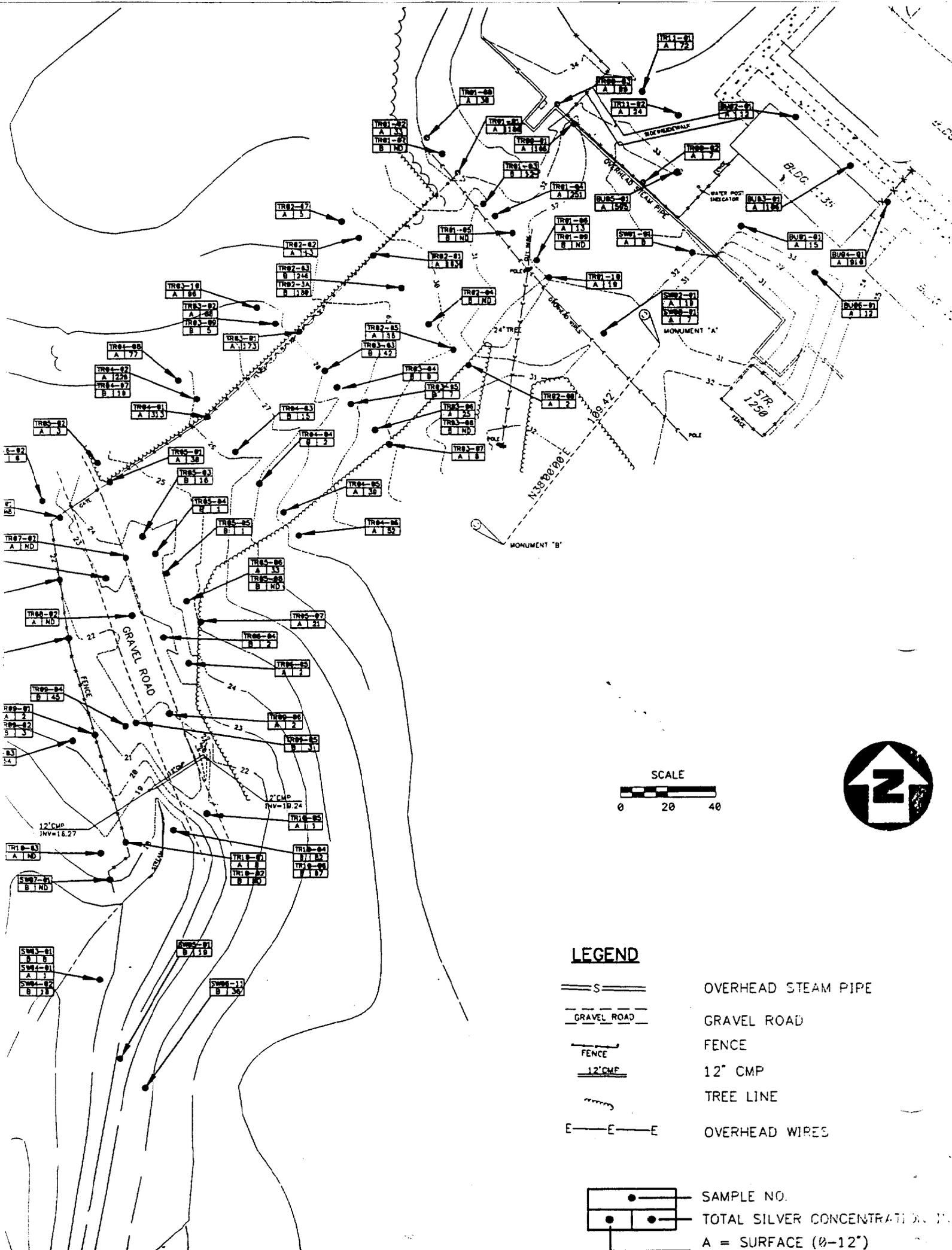
PRESENTED BY:

**KEVIN DONNELLY, P.E.
PROJECT MANAGER
BROWN & ROOT ENVIRONMENTAL**

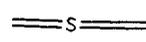
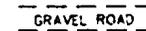
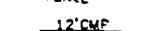
MAY 23, 1994







LEGEND

-  OVERHEAD STEAM PIPE
-  GRAVEL ROAD
-  FENCE
-  12" CMP
-  TREE LINE
-  OVERHEAD WIRES


 SAMPLE NO.
 TOTAL SILVER CONCENTRATION IN
 A = SURFACE (0-12")

TABLE 3-2

SOIL SAMPLE RESULTS - TCLP, SILVER
IR SITE 5 - SWALE 2
INDIAN HEAD, MARYLAND

Sample Number	Location	Tracking Number	Total Silver (mg/kg)	TCLP ¹ (mg/L)
TR01-01	Located 49 feet south of corner of Fence M and K forming Transect 01. This transect is perpendicular to Fence M. Sample was collected at fence.	TR01-01-01	1,180	0.04U ²
TR01-04	Located 25 feet east of Fence M on Transect 01.	TR01-04-01	251	0.102
TR02-01	Located 51 feet south of Transect 01, forming Transect 02. This sample was collected at Fence M on Transect 02.	TR02-01-01	1,030	0.04U ²
TR04-01	Located 200 feet south of the corner of Fence M and Fence K, forming Transect 04. This sample was collected at the fence.	TR04-01-01	313	0.0477

Notes:

1. Maximum concentration of silver for toxicity characteristic is 5.0 mg/L. (40 CFR 261.24 Table 1)
2. U = Non-detect concentration

MAY 23, 1994

TRC MEETING

Presentation by:

Robert Simcik

Halliburton NUS Corporation

Site 8 - Nitroglycerin Plant Office

- **Removal Action Status**
- **Biomonitoring**
- **Lead Contamination**

SITE 8 - BACKGROUND INFORMATION

REMOVAL ACTION DESIGN AND CONSTRUCTION

- Design Completed August 1993
- Construction to begin this summer

BIOMONITORING

- Began July 1992
- Quarterly biomonitoring through January 1995

LEAD CONTAMINATION

- Discovered at NPDES discharge point
- Preliminary sampling performed on May 18, 1994
- Analytical results will be incorporated in April 1994 Biomonitoring Report

Mercury contamination: Fish tissue high levels in central part of site.

Sampling event May 18, 1994.

DESIGN AND CONSTRUCTION STATUS

- Design Completed in August 1994³
- Construction will be performed through Navy RAC (Remedial Action Contract)
- Construction Scheduled for Summer 1994

BIOMONITORING PROGRAM

- **Program Objectives and Strategy**
- **Schedule**
- **Preliminary Results**
- **Outstanding Issues and Strategy**
- **Summary**

BIOMONITORING PROGRAM

PROGRAM OBJECTIVES: Assess the impact of the Site 8 mercury contamination on the biota of the Site 8 Pond/marsh and evaluate potential environmental impacts of the Interim Removal Action. Program has been revised to include lead.

PROGRAM STRATEGY: Determine conditions of Site 8 Pond/marsh biota and compare it to Control Sites and monitor conditions at Site 8 before and after removal action to assess changes.

BIOMONITORING PROGRAM SCHEDULE

Task	1992					1993					1994					1995					
	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M
PRELIMINARY BIOSURVEY	█																				
BIOMONITORING PLAN			▲																		
PHASE 1 BIOMONITORING			█	█	█																
<ul style="list-style-type: none"> ● October 1992 ● January 1993 			█	█	█																
REVISED BIOMONITORING PLAN									▲												
PHASE 2 BIOMONITORING									█	█	█	█	█	█	█	█	█	█			
<ul style="list-style-type: none"> ● April 1993 ● July 1993 ● October 1993 ● January 1994 									█	█	█	█	█	█	█	█	█				
REMEDIAL ACTION																					
<ul style="list-style-type: none"> ● April 1994 ● July 1994 ● October 1994 ● January 1995 																					

PRELIMINARY BIOMONITORING RESULTS

GENERAL: Site 8 Pond has a relatively simple community structure

WATER QUALITY: Site 8 Pond is a shallow, freshwater pond capable of supporting non-sensitive biota.

PERIPHYTON: Site 8 periphyton community varies with seasons. Periphyton in Site 8 Pond do not indicate adverse impacts from mercury contamination.

BENTHIC MACROINVERTEBRATES: Benthic community is composed of herbivores. Benthics in Site 8 Pond do not indicate adverse affects from mercury contamination.

FISH: Fish species and diversity are low at Site 8 Pond. Mercury concentration in fish tissue at Site 8 Pond are consistent with other Maryland waterways.

MERCURY CONCENTRATIONS IN FISH TISSUE (BIOASSAY RESULTS)

Location	Organism	Mercury Concentrations (mg/kg)				
		Oct. 1992	Jan. 1993	April 1993	July 1993	Oct. 1993
Site 8 Pond	<i>Notropis</i> (shiner)	--	--	--	--	0.05
	Creek chubsucker	--	0.03	--	--	--
	Brown bullhead	0.04	--	--	0.05	0.05
	<i>Gambusia</i> (mosquitofish)	0.06	0.15	--	--	0.12
	Warmouth	--	--	--	0.23	--
	Bluegill	0.02	0.02	0.06	0.09	--
	Crayfish	--	--	--	0.07	0.09
	Frog	--	--	0.03	--	--
Control Site 1: Beaver Pond	American eel	--	--	--	--	0.11
	Eastern mudminnow	--	--	0.07	--	--
	Redfin pickerel	--	--	--	0.21	--
	<i>Notropis</i> (shiner)	--	--	--	--	0.07
	Creek chub	--	0.03	--	0.09	0.11
	Pumpkinseed	--	--	--	--	0.11
Control Site 2: Mattawoman Creek	<i>Notropis</i> (shiner)	--	--	0.04	--	--
	Creek chubsucker	--	--	--	--	0.02
	White perch	--	--	0.02	--	--
	Pumpkinseed	--	--	--	--	0.01
	Warmouth	--	--	--	--	--
	Bluegill	--	--	--	--	0.03

OUTSTANDING ISSUES

- **Mercury concentrations in Fish Tissue at Control Site 1 - Beaver Pond.**
- **Lead contamination at Site 8 Pond.**
- **Quantities of fish.**

STRATEGY

- **Perform sediment sampling and subsequent analysis for mercury at Stump Neck Beaver Pond (in progress).**
- **Perform sediment sampling and subsequent analysis for lead at Site 8 (in progress).**
- **Evaluate stocking of fish (performed in future, if deemed appropriate).**

BIOMONITORING PROGRAM SUMMARY

PRELIMINARY SUMMARY: Mercury contamination at the levels observed in the Site 8 Pond appear to have had virtually no effect on the Site 8 biota.

RESTORATION ADVISORY BOARD (RAB)

-Expanded Technical Review Committee that increases opportunities for community participation in the environmental restoration process by:

-Increasing diversity and number of community representatives

-Providing forum for discussion and information exchange between the Navy, regulators, and the community.

-Providing opportunity for the community to review progress and participate in the decision making process by reviewing and commenting on actions and proposed actions

-It is not a decision making body

RAB MEMBERSHIP

-Navy

-Federal, State, and Local authorities

-Diverse group of individuals representing a broad cross section of the community

RAB RESPONSIBILITIES

-Conduct regular meetings, open to the public, at convenient times and locations

-Publish meeting minutes, distribute to interested parties and local newspapers

-Develop mailing lists of interested parties

-Provide forum for members to give advice and make recommendations on environmental restoration issues

-Establish a procedure for public participation and responding to the public's questions and comments

RAB MEMBER RESPONSIBILITIES

-Provide comments on actions and proposed actions

-Review documents

-Identify and review project requirements

- Recommend priorities among sites or projects
- Identify applicable standards and propose cleanup levels
- Review budget information as requested
- Attend RAB Meetings or send an alternate
- Serve as a conduit for information flow to and from the community
- Serve in a volunteer capacity

SELECTING COMMUNITY MEMBERS

- Establish the number of community members: significant community groups and diverse interests should be represented
- Distribute RAB Fact Sheet announcing responsibilities of RAB membership, selection procedure, and number of community members to be selected
- Hold a community meeting
- Interested persons submit membership application
- Technical Review Committee review and selection of RAB members
- Public notification of RAB membership and access information

RAB COMMUNITY CO-CHAIR

- Selected by RAB community members using a process the community members establish
- Responsibilities include:
 - Ensure community issues are brought to the table
 - Assist Navy in communicating technical information to the community in understandable terms
 - Assist in disseminating information to the public
 - Coordinate with the Navy Co-Chair to prepare an agenda prior to each RAB meeting
 - Review meeting minutes prior to distribution

NAVY CO-CHAIR RESPONSIBILITIES

-Ensure the Navy considers and responds to public comments through RAB determined procedures

-Ensure community members are given adequate time to present concerns and comments

-Coordinate with the Community Co-Chair to prepare and distribute an agenda prior to each RAB meeting.

-Advertise meetings

-Provide administrative support for the RAB

-Take RAB meeting minutes, provide to Community Co-Chair for review and approval, provide copies to members and interested parties, and publish in Information Repository/Administrative Record and send synopsis to local newspapers

-Refer non-environmental restoration issues to the appropriate Navy officials outside the RAB

-Work with the Community Co-Chair to establish procedures for public review of documents including comment submittal

-Publish the process established for public review and comment

-Provide draft documents, summaries, and presentations to the RAB for review. Include documents in Information Repository and inform public via newspaper that document is available for review

-Determine, with Technical Review Committee input, expectations and terms of membership for RAB community members. Publish requirements and terms.

THE TRANSITION PROCESS

- RAB shall be in place by 1 Oct 94
 - Determine RAB size
 - Determine RAB meeting day, time, and location
 - Establish community member term length
 - Publish RAB Fact Sheet
 - Navy holds public meeting to discuss RAB and solicit community interest
 - TRC establishes selection criteria, reviews applications and selects community members and alternates
 - Navy informs community members, members accept
- Closed RAB Meeting(s)
 - Community members establish Co-Chair selection procedures and term
 - Community members select Co-Chair
 - Establish meeting procedures, including public participation procedures
 - Review progress to date for new members
 - Navy publishes RAB membership and access information
- Public RAB meetings begin

IR SITE 56

I. BACKGROUND

- A. BUILDING 790
- B. NPDES OUTFALL IW87

II. DESCRIPTION OF REMOVAL ACTION

- A. PIT OUTSIDE OF BUILDING 790
- B. 700 FOOT PIPE
- C. AREA 30 FEET LONG

III. EECA

- A. PROVIDE CLEANUP ALTERNATIVES
- B. EVALUATE ALTERNATIVES FOR:
 - 1. PROTECTION OF HUMAN HEALTH AND THE ENVIRONMENT
 - 2. IMPLEMENTABILITY
 - 3. CONSISTENCY WITH FINAL REMEDIAL GOALS AND APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS)
 - 4. COST EFFICIENCY

IR SITE 56

(CONTINUED)

IV. POSSIBLE ALTERNATIVES

- A. PHASE I: REMOVAL OF SEDIMENT FROM PIT, PIPE, AND OUTFALL
- B. PHASE II:
 - 1. RELINE PIPE
 - 2. ABANDON PIPE AND CONSTRUCT A NEW OUTFALL

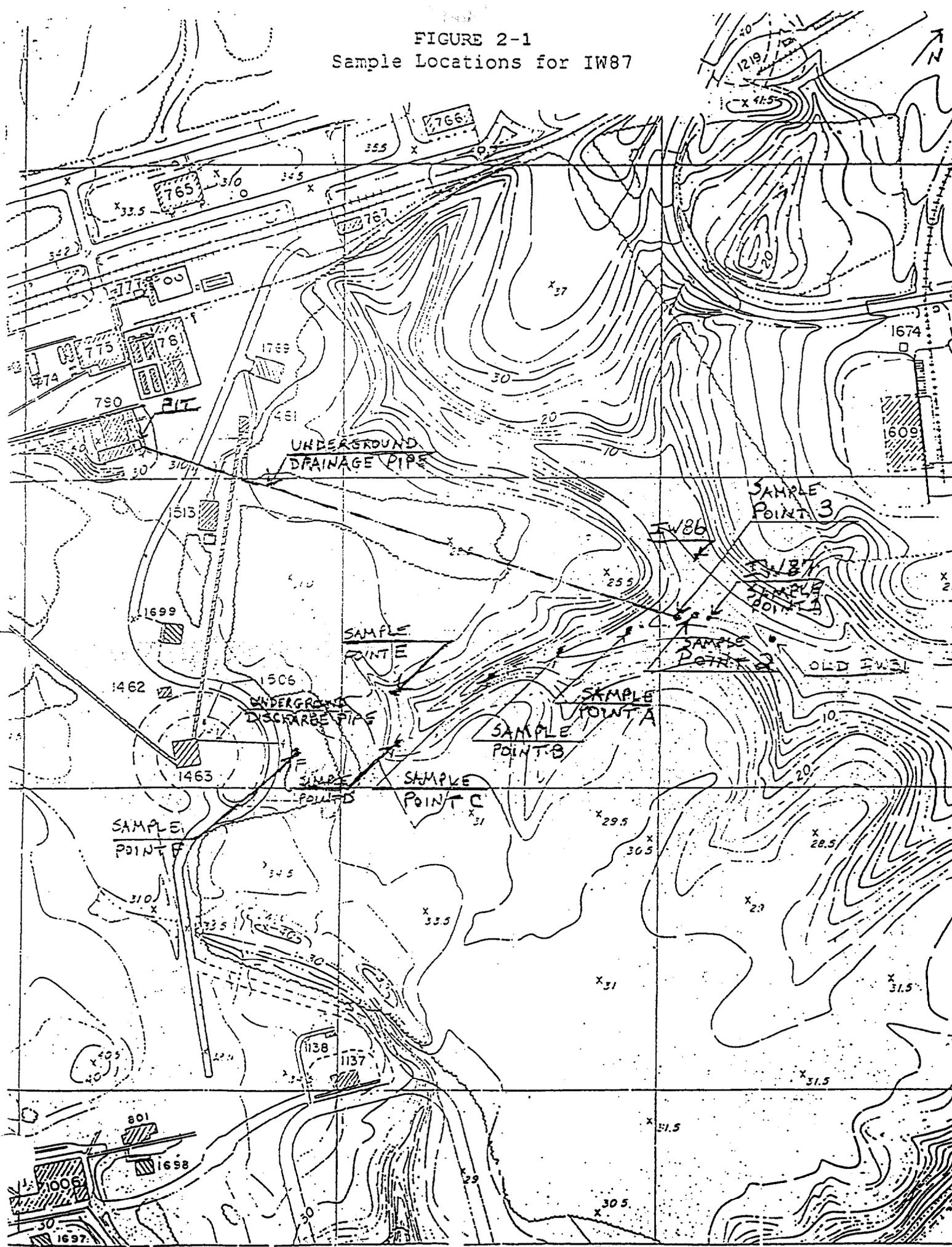
TABLE 1a
Analytical Results of Soil Samples Taken for Lead

DATE	SAMPLE	SAMPLER	SAMPLING POINT	TYPE	RESULT OF ANALYSIS
07/28/93		IHD-NSWC	Point 3	Soil	2060 mg/kg
07/28/93		IHD-NSWC	Point 1 (IW87)	Soil	291 mg/kg
07/29/93		IHD-NSWC	Point 3	Soil	568 mg/kg
07/29/93		IHD-NSWC	Point 1 (IW87)	Soil	1530 mg/kg
08/03/93		IHD-NSWC	Point 3	Soil	684 mg/kg
08/03/93		IHD-NSWC	Point 1 (IW87)	Soil	1110 mg/kg
08/04/93		IHD-NSWC	Point 3	Soil	2690 mg/kg
08/04/93		IHD-NSWC	Point 1 (IW87)	Soil	878 mg/kg
08/04/93		IHD-NSWC	IW86	Soil	<5.00 mg/kg
08/13/93		IHD-NSWC	Bldg. 790 Pit	Soil	18,200 mg/kg
08/16/93		IHD-NSWC	Bldg. 1463 Pit	Soil	14 mg/k
10/29/93	TCLP-A	IHD-NSWC	Points 1, 2, and 3 (4 to 6-inch depth)	Composite (Soil)	7.04 mg/L
10/29/93	TCLP-B	IHD-NSWC	Points 1, 2, and 3 (6 to 10 inch depth)	Composite (Soil)	13.2 mg/L
10/29/93	TCLP-C	IHD-NSWC	Points 1, 2, and 3 (10 to 15 inch depth)	Composite (Soil)	30.3 mg/L
10/29/93	A	IHD-NSWC	Point A	Soil	<17.8 mg/kg
10/29/93	B	IHD-NSWC	Point B	Soil	<17.8 mg/kg
10/29/93	C	IHD-NSWC	Point C	Soil	<17.3 mg/kg
10/29/93	D	IHD-NSWC	Point D	Soil	<15.1 mg/kg
10/29/93	E	IHD-NSWC	Point E	Soil	<17.0 mg/kg
10/29/93	F	IHD-NSWC	Point F	Soil	<15.2 mg/kg

TABLE 1b
Analytical Results of Water Samples Taken for Lead

DATE	SAMPLING POINT	TYPE	RESULT OF ANALYSIS
06/02/93	IW87	Composite (NPDES)	0.0851 mg/L
07/21/93	IW87	Composite (NPDES)	0.401 mg/L
07/27/93	Bldg. 790 Pit	Grab	4.430 mg/L
07/27/93	IW87	Grab	0.985 mg/L
07/28/93	IW87	Composite	0.142 mg/L
07/29/93	IW87	Composite	0.165 mg/L
08/03/93	IW87	Composite	0.0924 mg/L
08/04/93	Bldg. 790 Pit	Grab	0.822 mg/L
08/04/93	Pipe from Bldg. 775 in Pit at Bldg. 790	Grab	<0.100 mg/L
08/04/93	IW87	Composite	<0.100 mg/L
08/16/93	Bldg. 1463 Sump Discharge	Grab	<0.100 mg/L
10/06/93	IW87	Grab (Water)	<0.020 mg/L
10/19/93	IW87	Composite (Water)	<0.020 mg/L
10/20/93	IW87	Composite (Water)	0.0308 mg/L
10/27/93	IW87	Grab (Water, Acidified)	0.0797 mg/L
10/27/93	IW87	Grab (Water, 0.45 Filter/Acidified)	<0.020 mg/L
10/29/93	IW87	Grab (Water, Acidified)	0.878 mg/L
10/29/93	IW87	Grab (Water, 0.45 Filter/Acidified)	0.0316 mg/L
11/03/93	IW87	Composite (Water, Acidified)	0.360 mg/L
11/03/93	IW87	Composite (Water, 0.45 Filter/Acidified)	0.0259 mg/L
11/04/93	IW87	Composite (Water, Acidified)	0.180 mg/L
11/04/93	IW87	Composite (Water, 0.45 Filter/Acidified)	<0.020 mg/L
11/17/93	IW87	Composite (Water)	0.194 mg/L
11/18/93	IW87	Composite (Water, Acidified)	0.168 mg/L

FIGURE 2-1
Sample Locations for IW87



**INSTALLATION RESTORATION
TECHNICAL REVIEW COMMITTEE MEETING
AGENDA**

May 23, 1994

- 1300 - 1310 INTRODUCTION

 Ms. Susan P. Adams
 Director, Environmental Division
- 1310 - 1330 IR SITE 5 REMOVAL ACTION STATUS

 Mr. Kevin Donnelly
 Brown & Root Environmental
- 1330 - 1345 IR SITE 8 REMOVAL ACTION STATUS

 Mr. Rob Simcik
 Brown & Root Environmental
- 1345 - 1400 IR SITE 8 BIOMONITORING RESULTS

 Mr. Rob Simcik
 Brown & Root Environmental
- 1400 - 1410 IR SITE 56 SUMMARY

 Mr. Shawn Jorgensen
 Chemical Engineer
- 1410 - 1420 BREAK
- 1420 - 1430 RESTORATION ADVISORY BOARD (RAB) SUMMARY

 Ms. Susan P. Adams
 Director, Environmental Division
- 1430 - 1600 OPEN DISCUSSION
- 1600 ADJOURN