



DEPARTMENT OF THE NAVY

CRANE DIVISION
NAVAL SURFACE WARFARE CENTER
300 HIGHWAY 381
CRANE INDIANA 47522-5001

N00164.AR.000732
NSWC CRANE
5090.3a

IN REPLY REFER TO:

5090
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4-14-2002
08 MAY 2002

MEMORANDUM

From: Installation Co-Chair
To: Restoration Advisory Board Members
Subj: **RESTORATION ADVISORY BOARD (RAB) MEETING**

Encl: (1) April 16, 2002 RAB Meeting Minutes

Crane Division, Naval Surface Warfare Center (NSWC Crane) conducted, on Center, a RAB meeting on April 16, 2002. Enclosure (1) is a copy of the minutes from that meeting.

The next NSWC Crane Community RAB meeting is tentatively scheduled for Tuesday, October 22, 2002. The meeting will take place on Center at the Lakeview Training and Conference Center from 1200 to 1600 hours. A reminder and an agenda will be e-mailed or sent out approximately three weeks prior to the meeting. Your ideas and input for additional topics to, or presentations for, the agenda would be especially welcome. Currently, the proposed agenda for the next meeting includes:

- Presentations concerning completion of the Full Scale contaminated soil operations for the Bioremediation Facility
- Presentations concerning Interim Measures Cleanup Projects
- Updates on all ongoing Installation Restoration Projects, including the Natural Attenuation Demonstration
- Discussion Concerning Project Funding for Fiscal Years 03

For questions, comments, or information, please telephone 812/854-4423 or e-mail at RAB@crane.navy.mil. The NSWC Crane RAB web sites, <http://www.crane.navy.mil/General/RAB/default.htm>, can also be accessed for additional information.

James M. Hunsicker, Director,
Environmental Protection Department

Subj: RESTORATION ADVISORY BOARD (RAB) MEETING

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Administrative Record

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Myers

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NSWC Crane (80)

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NSWC Crane (PAO)

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SAIC (Hughes)

SIOCN-SF (Johnson)

SOUTHNAVFACENGCOM (CODE ES32)

TolTest (Chevalier)

TolTest (Parsons)

TtNUS (Basinski)

USEPA Region V (DW-8J)

USCEWES (GG)

Wittman Hydro (Wittman)

Wittman Hydro (Moore)

Restoration Advisory Board Meeting Minutes

Crane Division, Naval Surface Warfare Center (NSWC Crane) conducted a Restoration Advisory Board (RAB) Meeting, Tuesday, April 16, 2002. The meeting was held on Center at Building 3330 North Conference Rooms B and C. From 1200 to 1500 hours an informal meeting was called to order. Attachment (1) is a list of the RAB meeting attendees. Copies of the slide presentations are provided as Attachment (2). Mr. James Hunsicker, NSWC Crane Environmental Protection Department (EPD) Director and RAB Navy Co-chair, opened the meeting and introduced CDR John Dietrick Lamade, Deputy Director Microwave Systems Directorate. CDR Lamade provided the welcome and invited those attending to eat lunch.

After lunch, Mr. Hunsicker introduced Mr. John Wittman, President of Wittman Hyro Planning Associates. Mr. Wittman gave an overview of a proposed web-based access system for NSWC Crane ground water monitoring data. This system would allow those with access to manage and interpret the large volume of data generated during the ground water monitoring process.

Mr. Thomas Brent, NSWC Crane EPD, gave a presentation concerning ongoing projects at NSWC Crane conducted by TetraTech, NUS (TtNUS). Presentations included the following Solid Waste Management Units (SWMUs): Mustard Gas Burial Ground (SWMU 1), Dye Burial Ground (SWMU 2), ABG/Old Jeep Trail (SWMU 3), McComish Gorge (SWMU 4), Old Burn Pit (SWMU 5), Old Rifle Range (SWMU 7), Pesticide Control/R-150 Tank Area (SWMU 9), Rockeye (SWMU 10), Mine Fill A (SWMU 12), Mine Fill B (SWMU 13), Cast High Explosives Fill/Incinerator Complex (SWMU 16), PCB Capacitor Burial/Pole Yard (SWMU 17), and Pyrotechnic Test Area (SWMU 19). Fieldwork was completed at SWMU 1 with no material found. A technical memorandum was submitted to and approved by the Environmental Protection Agency Region V (EPA) for the installation of additional ground water wells. The fieldwork and data validation is also complete for SWMUs 2 and 3. A technical memorandum proposing no additional wells was approved by EPA 3/18/02 and the Internal draft RFI Report is due 4/22/02 for SWMU 2. For SWMU 3, a technical memorandum proposing no additional ground water wells was submitted to the EPA in mid-January and is under EPA review. The Draft Risk Assessment is expected to be submitted 4/26/02 for SWMUs 4, 5, 9, & 10. SWMU 7 required additional analytical work which has been completed and is to be submitted to TtNUS on 4/12/02. One QAPP is under EPA review for SWMUs 12, 13, 16, & 19. Finally, fieldwork was completed and the Internal Draft due to the Navy in early May for SWMU 17.

Mr. William Gates, Remedial Project Manager, Southern Division Naval Facilities Engineering Command, gave a presentation on the Environmental Restoration, Navy Funding Program. Mr. Gates discussed the funding process, currently funded projects, and projects funded for Fiscal Year 2003. Projects currently slated for FY02 are Corrective Measures Studies for SWMUs 3, 5, 7, 9, & 10, ABG ground water monitoring, and Rockeye Bioremediation administrative support (the PCB/pole yard soil remediation was cut from FY02 funding). Potential projects include the nomination of SWMUs 3 and 17 as demonstration sites for treatability studies for the permanent stabilization of contaminated soil. The objective is to refine emulsion designs, evaluate application methods, and conduct post-application monitoring. A small quantity of soil from each site will be used for bench scale testing. If successful, then full scale testing would be implemented. Currently the contractor is evaluating site contaminants and conditions and if approved, then the study will begin immediately. There would be no additional cost incurred by the Navy or other scheduled projects impacted because the funding comes from another source. In January, the Navy, IDEM, & EPA developed a list for FY03 projects. In early

March the FY03 list was submitted to Southern Division and the following projects made the first funding cut and will be submitted to headquarters:

- SWMU 1 MGBG – Corrective Measures Study,
- SWMU 3 ABG – Ground Water Monitoring (ERN portion),
- SWMU 3 ABG – Remedial Design (RD),
- SWMU 5 OBP – RD,
- SWMU 7 ORR – RD,
- SWMU 9 PCA - RD,
- SWMU 10 RKI - RD,
- SWMU 13 MFB - RFI Fieldwork and Report, and
- SWMU 17 PCB - Soil Remediation.

Ms. Christine Freeman, NSWC Crane EPD, gave an update for the Full Scale Explosives Contaminated Soil Composting Operations. All the excavation, treatment, and backfill of the explosives contaminated soils has been completed at Mine Fill A, Mine Fill B, and Rockeye. Approximately 44,451.28 tons of explosives contaminated soils have successfully been treated in 215 windrows at the facility. Eleven industrial standard windrows were resampled, with EPA approval, and were determined to meet residential standards. All together, there were 168 residential windrows and 47 industrial windrows. Mine Fill A Draft Interim Measures Report (IMR) was submitted to EPA 25 FEB 02. Mine Fill B Internal Draft IMR to be submitted to Navy by 10 JUN 02. Rockeye Draft IMR was submitted to EPA 3 APR 02. Decontamination of the facility is in progress.

Ms. Freeman also gave an overview on the IM at the Mine Fill A (MFA) Battery Site. A total of 236 tons of special waste were removed and disposed of at an off-site landfill along with 18 tons of explosives contaminated soils taken to the Bioremediation facility for treatment. Additional non-hazardous metals level material is to be removed from the site. EPA approved a 180-day extension on 04 APR 02. Fieldwork is expected to begin again in May.

Mr. Hunsicker then led an open discussion session. The newly identified Solid Waste Management Unit (SWMU) 34/00, Old Gun Tub Storage Lot, was discussed. This SWMU is a large open gravel lot where various ship components were stored. Aerial photos show activity as early as 1952. Possible contaminants include metals, PCBs, SVOCs. Additionally, Ms. Freeman declared that there was a new RAB member, Mr. Michael Toon of Bloomfield. Time was then taken to schedule the next RAB. The next official RAB meeting was tentatively scheduled for Tuesday, October 22, 2002 at 1200 (awaiting then newly arriving CAPT Wisc's schedule). No additional topics were discussed during the open session. A quick tour was taken of the newly identified SWMU 34/00. The RAB meeting was adjourned at 1500.

**RESTORATION ADVISORY BOARD
MEETING ATTENDEES LIST
FOR APRIL 16, 2002**

NAME	TELEPHONE & FAX	ORGANIZATION REPRESENTED & MAILING OR E-MAIL ADDRESS
Christine Freeman	812/854-4423 fax x3981	freeman_cd@crane.navy.mil
Thomas Brent	812/854-6160 fax x3981	brent_t@crane.navy.mil
William Gates	843/820-7360	SOUTHDIV - gateswh@efdsouth.navfac.navy.mil
Doug Griffin	317/233-2710	IDEM dgriffin@dem.state.in.us
Jim Hunsicker	812/854/3233	NSWC 095 - hunsicker_j@crane.navy.mil
Jeff Myers	812/659-3788 fax 9955	Greene Co. SWMD - greenesw@bluemarble.net
Sarah Morin	812/335-8972	Evening world - Eworldnews@bluemarble.net
Kim Hughes	812/384-3587	SAIC - kim.hughes@saic.com
Lorie Richardson	812/854-6409 fax x4165	NSWC 052 Public Affairs richardson_l@crane.navy.mil
CDR Deet Lamade	812/854-5100	Code 80A lamade_d@crane.navy.mil
Doug Johnson	812/854-1481	CAAA johnsond@crane.army.mil
Jack Wittman	812/333-9399	WHPA, Inc. jack@wittmanhydro.com
Rhett Moore	812/333-9399	WHPA, Inc. rhett@wittmanhydro.com
Sue Webster	812/854-1495 fax x4165	NSWC 052 webster_s@crane.navy.mil
Teresa Ellis	812/384-3087	Community - tellis@custom.net
Terry Mahoney	812/854-4151 fax x3800	OIC mahoney_t@crane.navy.mil
Hank Webster	812/854-2818	Code 407
Pedro J. DeJesus	812/854-1130	NSWC Crane OC dejesus_p@crane.navy.mil

Restoration Advisory Board Meeting Presentations

April 16, 2002

Groundwater Data Analysis at NSWC-Crane Division

Jack Wittman and Rhett Moore

WHPA, Inc.



April 16, 2002

Introduction



- WHPA, Inc. - Who are we?
- What do we do for our clients
- What have we done on site?
- What have we found out?

WHPA, Incorporated

www.wittmanhydro.com

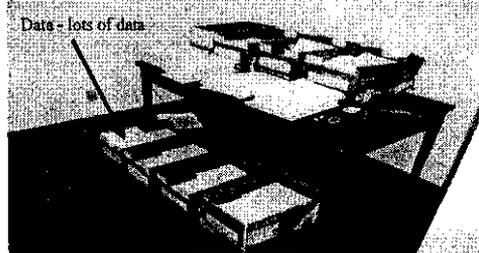
- Water resource planning consultants
 - specialize in engineering and environmental analysis
- Located in Bloomington, Indiana
- 8 full time scientists
- Clients include large drinking water utilities, state environmental agencies, USEPA, other consulting firms
- Groundwater analysis, surface water hydrology, tool development (software), data management

Data Management at Crane

- WHPA is a subcontractor to SAIC at Crane
- Two main projects:
 - Groundwater quality data validation
 - Groundwater interpretation and reporting
- Started work last year helping Crane come into compliance w/ EPA RCRA regulations for groundwater near ABG and ORR
- Responsible for compiling the annual groundwater report

Crane Highlights

- Data validation: just what it sounds like



Data Validation (continued)

- Review data to determine whether the lab used proper procedures
- Check USEPA procedures then compare to the documentation on the lab sheet

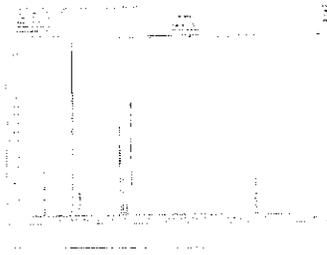
The image shows a laboratory data sheet with various fields for sample information, including 'LABORATORY INFORMATION', 'ANALYSIS INFORMATION', and 'RESULTS'. An arrow points from the text on the left to the 'RESULTS' section of the sheet.

General Validation Procedure

- Data Completeness
- Holding Times
- Initial Calibrations
- Initial and Continuing Calibration Verifications
- Blanks
- Recovery of System Monitoring Compounds
- Matrix Spike/Matrix Spike Duplicates
- Laboratory Control Samples
- Field Duplicates
- Compound Identification
- Compound Quantitation and Reporting Limits

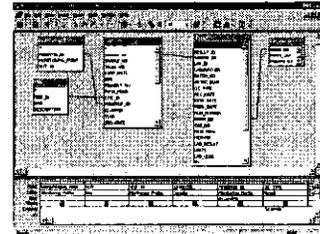
General Validation Procedure

- Matrix Spike/Matrix Spike Duplicates



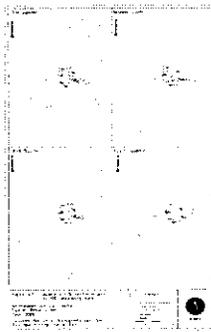
Validation Procedure

- Data Completeness
- Holding Times
- Initial Calibrations



Annual Groundwater Report

- Summary of the results of sampling
- Interpretation of the changes that have been observed



Conclusion

- WHPA helps SAIC manage the data and the interpretation of groundwater quality.
- Experience has led to a greater efficiency and integration of data sources and applications.
- In the future the data analysis will become more integrated with the data collection at the site.

Update on NSWC Crane
Corrective Action Projects
Performed by TetraTech, NUS

Presented by Mr. Thomas Brent,
NSWC Crane Environmental
Protection Department

April 2002

MUSTARD GAS BURIAL
GROUNDS (SWMU 1)

- QAPP approved July 2001
- Field work and analysis completed 9/01
- Analysis included mustard gas, VOCs, SVOCs, metals, herbicides, pesticides, PCBs, Radionuclides
- Tech memo approved by EPA with recommendation for 2 shallow wells in addition to 2 proposed deep wells

DYE BURIAL GROUNDS
(SWMU 2)

- QAPP Approved June 01
- Field work and analysis completed 7/01
- Primary target constituents: dyes and metals
- Tech Memo proposing no additional wells approved by EPA 3/18/02.
- Internal draft RFI Report is due 4/22.

JEEP TRAIL/LITTLE
SULPHUR CREEK (SWMU 3)

- Historical Burn Site South of ABG
 - Burned explosive-containing material
 - Flashed bomb casings
- Little Sulphur Creek
 - Receives Jeep Trail runoff and ABG surface water and ground water

JEEP TRAIL/LITTLE
SULPHUR CREEK (SWMU 3)
[continued]

- QAPP Approved: May '01
- Target constituents include Ap. IX VOCs, and SVOCs, explosives, and metals
- Area investigated expanded during fieldwork
- Fieldwork/analysis completed July '01
- Tech Memo proposing no additional wells submitted 1/18/02. Final responses are under EPA review.

McCOMISH GORGE (SWMU 4)

- Former garbage/trash dumpsite
- QAPP Approved October '00
- Target constituents: Ap. IX VOCs, SVOCs, pesticides/PCBs, and metals
- Navy reviewed ID RFI Report
- TiNUS to Submit RTC 4/16/02
- Est. Draft: 4/26/02

OLD BURN PIT (SWMU 5)

- Inactive burn area (wood, construction materials, and industrial waste)
- Residual material/metal buried in gully
- QAPP Approved October '00
- Target constituents: Ap. IX VOCs, SVOCs, pesticides/PCBs, dioxins/furans, and metals
- Navy reviewed ID RFI Report
- TtNUS to Submit RTC 4/16/02
- Est. Draft: 4/26/02

PESTICIDE CONTROL/R-150 TANK AREA (SWMU 9)

- Inactive site used for pesticide storage/management, plus UST
- QAPP Approved October '00
- Target constituents: Ap. IX VOCs, SVOCs, pesticides/PCBs, herbicides and metals
- Navy reviewed ID RFI Report
- TtNUS to Submit RTC 4/16/02
- Est. Draft: 4/26/02

ROCKEYE (SWMU 10)

- Active munitions production facility
- Explosives-containing wastewaters discharged to ditches via sumps
- QAPP Approved October '00
- Target constituents include Ap. IX VOCs, and SVOCs, explosives, and metals
- Navy reviewed ID RFI Report
- TtNUS to Submit RTC 4/16/02
- Est. Draft: 4/26/02

OLD RIFLE RANGE (SWMU 7)

- Delineate selected metals, energetics, and SVOCs
- QAPP Approved November '00
- RFI nature and extent section completed
- EPA/IDEM agreed more sampling required
- Additional soil sampling for energetics completed 3/8/02
- Lab will submit data to TtNUS 4/12.

SWMUs 12/13/16/19 QAPP

- SWMU 12 - Mine Fill A
- SWMU 13 - Mine Fill B
- SWMU 16 - Cast High Explosives Fill/Incinerator Complex
- SWMU 19 - Pyrotechnic Test Area
- One (1) QAPP for all four (4) SWMUs
- SWMUs 12/13/16/19 - Draft QAPP submitted to EPA 2/11/02. Under EPA review.

MINE FILL A (SWMU 12)

- Soils contaminated from explosives
- Bioremediation of explosive-contaminated soils completed
- QAPP for RFI of other media (ground water and sediments)

MINE FILL B (SWMU 13)

- Soils contaminated from explosives
- Bioremediation of explosive-contaminated soil completed
- Evaluate PCB contamination from boilers
- QAPP for RFI of other media (ground water and sediments)

PYROTECHNIC TEST AREA (SWMU 19)

- Testing of pyrotechnics
- No environmental monitoring to date
- RFI covers surface soils, surface water and sediments.
- Ground water sampling contingent on results of soils monitoring

CAST HIGH EXPLOSIVES FILL/INCINERATOR COMPLEX (SWMU 16)

- Three (3) former incinerators
- Incinerator Ash Pile (removed)
- TCE contamination in sumps (remediated)
- QAPP covers RFI for all media (soil, ground water, sediment and surface water)

PCB CAPACITOR BURIAL/POLE YARD (SWMU 17)

- Recent sampling found PCBs
- QAPP Developed for Investigation of extent of contamination (2/8/02)
- TSCA Verification sampling included
- Fieldwork completed 3/8/02 (including geophysics)
- ID Report (incl. Geophysics) due from TtNUS 5/6/02

LANDFARM (SWMU 30)

- Sewage sludge application site
- GW issue only
- Target Analytes: explosives, Ap. IX metals & VOCs
- QAPP approved October '01
- No further action for ground water approved 10/30/01
- Fieldwork for soil completed 3/8/02
- Lab will submit data to TtNUS 4/12/02

ENVIRONMENTAL RESTORATION, NAVY(ERN) FUNDING PROGRAM for NSWC CRANE

Presented by Mr. William Gates,
Southern Division Remedial Project Manager

April 2002

Funding Program

- Funding Process
- FY 02 Projects
- FY 03 Projects

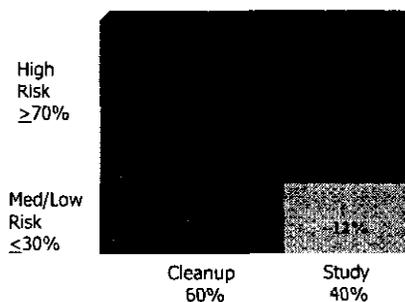
Funding Process

- NAVFACENGCOM manages ERN funds for the Navy
- SOUTHDIV manages ERN funds for naval activities within its 26 state area of responsibility.
- Crane project team (Crane, SOUTHDIV, EPA, IDEM) develops a prioritized list of ERN projects each fiscal year.

Funding Process *continued*

- SOUTHDIV ERN Project Validation Team scores each project using eleven criteria jointly prepared by Navy and stakeholders.
- All projects are ranked by score. Highest scoring projects receive funding first.
- HQ approves and forwards funds after Congress authorizes budget.

ERN BUDGET



FY 02 Projects

- SWMU 3 ABG – Corrective Measures Study (CMS)
- SWMU 5 OBP - CMS
- SWMU 7 ORR – CMS
- SWMU 9 PCA – CMS
- SWMU 10 RKI – CMS

Corrective Measures Study

- RFI determines contamination present at levels requiring corrective action
- CMS identifies and evaluates potential remedial alternatives
- Facility recommends a preferred remedy
- Lead regulator approves or not
- Public notice
- Final decision

FY 02 Projects *continued*

- SWMU 3 ABG – GW Monitoring (ERN portion)
- SWMU 10 RKI – Administrative Support
- SWMU 17 PCB – Soil Remediation

Potential Project SWMUs 3&17

- SWMUs 3 and 17 were nominated as demonstration sites for treatability studies for the permanent stabilization of contaminated soil
- Objective is to refine emulsion designs, evaluate application methods, conduct post- application monitoring
- Small quantity of soil from each site will be used for bench scale testing

Potential Project *continued*

- If successful full scale remediation would be implemented
- Currently the contractor is evaluating site contaminates and conditions
- If site is approved, study will begin immediately
- No additional cost

FY 03 Projects

- SWMU 1 MGBG – CMS
- SWMU 3 ABG – GW Monitoring (ERN portion)
- SWMU 3 ABG – Remedial Design (RD)
- SWMU 5 OBP – RD
- SWMU 7 ORR – RD

FY 03 Projects *continued*

- SWMU 9 PCA – RD
- SWMU 10 RKI – RD
- SWMU 13 MFB – RFI Fieldwork and Report
- SWMU 17 PCB – Soil Remediation

Crane Division, Naval Surface Warfare Center Explosive Contaminated Soils Composting

Presented by Ms. Christine Freeman,
NSWC Crane Environmental
Protection Department

April 2002

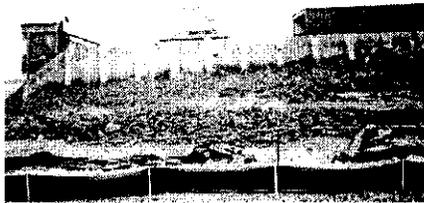
Background

- Explosive contaminants in the soil:
 - Ammunition Burning Grounds (11 acres)
 - Rockeye Munitions (1 acre)
 - Mine Fill A (2 acres)
 - Mine Fill B (2 acres)
- Several treatment methods for remediation of explosives contaminated soils were evaluated.

Background (Cont.)

- Composting is a process by which organic materials are biodegraded by micro-organism, resulting in the production of organic and/or inorganic byproducts and energy in the form of heat.
- Mix Used in FS
 - 15% Chicken Manure,
 - 60% Straw, &
 - 25% Soil } by volume

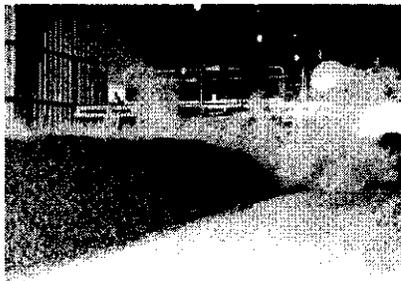
Excavated Explosives Contaminated Soils



Biofacility Operations



Biofacility Operations (Cont.)



Finished Compost

- Once acceptable reduction of explosives has been achieved finished compost will be:
 - Used as backfill at the original excavation site, or
 - Additional treated soil is applied in approved areas within the SWMU

Windrow Summary

- Total Windrows built = 215
 - Residential windrows = 168
 - Industrial windrows = 47
- Tons treated soil: 44,451 tons
- 11 Industrial windrows re-sampled after staging and determined to be Residential

Current Status

- MFA is complete. IMR submitted to EPA 25 FEB 02.
- MFB is complete. IMR to be submitted to Navy by 10 JUN 02.
- RK1 is complete.
 - IMR submitted to EPA 3 APR 02.
 - Toxicity Test Report to be submitted to EPA by 29 APR 02.
- Decontamination of facility in progress.

Mine Fill A Battery Dump Site Interim Measures

Presented by Ms. Christine Freeman,
NSWC Crane Environmental
Protection Department

April 2002

Background

- Area Outside MFA Fence
- AA Batteries Were Dumped
- Potentially Contaminated Soil Areas

Work Completed

- Characterized Soil by Sampling
- Removed Battery Fragments & Associated Contaminated Soil
- Removed Explosives Contaminated Soils for Bioremediation
- Conducted Post-excavation Confirmatory Sampling

Current Status

- Confirmation Sampling Results showed elevated Arsenic from the Excavation Area
- Explosives contaminated soils successfully bioremediated in windrow N-214
- TolTest Preparing IMR

Freeman Christine D CNIN

From: RAB (Restoration Advisory Board) CNIN
Sent: Wednesday, May 08, 2002 9:00 AM
To: 'Teresa A. Ellis (E-mail)'; 'Jeffery A. Myers (E-mail)'; Brent Thomas J CNIN; 'William H. Gates (E-mail)'; 'Doug Griffin (E-mail)'; Hughes Kim CONT CNIN; 'eworknews@bluemarble.net'; Webster Rhonda S (Sue) CNIN; Richardson Lorie J CNIN; Lamade John D (Dietrick) CDRCNIN; Johnson Douglas G CNIN; 'jack@wittmanhydro.com'; 'rhatt@wittmanhydro.com'; Mahoney Terry M CNIN; Webster Henry A III CNIN; Dejesus Pedro J CNIN; Hunsicker James M CNIN
Cc: George Cordilla S CNIN; 'Michael Toon (E-mail)'; 'Jeff Workman (E-mail)'; 'Anita Netherland (E-mail)'; Isom Wanda CNIN; Payne Jane E CNIN; Aucremanne Fernand (Frank) CAPT CNIN; Hill Gerald (Jerry) K CNIN; Robertson Brent L CNIN; 'James May (E-mail)'; 'Ralph Basinski (E-mail)'; Parsons Lance CONT CNIN; 'Peter Chevalier (E-mail)'; 'Peter Ramanauskas (E-mail)'
Subject: RAB 4/16/02 MINUTES & 10/22/02 ANNOUNCEMENT

This e-mail is being sent to distribute the last meeting minutes and announce the invitation to attend the next Naval Surface Warfare Center Crane Restoration Advisory Board (RAB) meeting. Attached are the minutes for the last RAB meeting and the announcement for the tentatively scheduled next RAB meeting (Please pencil in on your calendars; notify if a conflict arises). A hard copy of the letter and attachments will not be mailed.



21-16 APR 02
MEETING MIN & OC...

Please use RAB@crane.navy.mil for RAB messages.