

N00207.AR.003786
NAS JACKSONVILLE
5090.3a

MINUTES AND AGENDA FOR RESTORATION ADVISORY BOARD MEETING DATED 19
NOVEMBER 1996 WITH TRANSMITTAL NAS JACKSONVILLE FL
1/2/1997
NAS JACKSONVILLE



DEPARTMENT OF THE NAVY

NAVAL AIR STATION
JACKSONVILLE, FLORIDA 32212-5000

IN REPLY REFER TO:

5090
184DL/15-5.13
2 Jan 97

From: Commanding Officer, Naval Air Station, Jacksonville
To: Commanding Officer, Southern Division, Naval Facilities Engineering
Command (Code 1857)

Subj: RESTORATION ADVISORY BOARD (RAB) MEETING

Encl: (1) November RAB Meeting Minutes

1. Enclosed are the minutes from the 19 November 1996 Restoration Advisory Board (RAB) meeting. The next meeting will be at 7:00 p.m. on 21 January 1997 at the Timucuan Elementary School Library.
2. The agenda will include a presentation regarding the remediation at buildings 106 and 780, NS Mayport and NAS Cecil Field RAB co-meetings, RAB training and site status updates.
3. I would like to congratulate Margo Latham and her husband on the newest member of their family: Rebecca Elizabeth was born on November 30, during the halftime of the Florida-Florida State football game. I would also like to wish each of you a happy and prosperous New Year.
4. If you cannot attend the meeting, or have comments or questions, please contact me at 772-2717 extension 119 or Bill Dougherty, Naval Air Station Public Affairs Officer at 772-4032.

A handwritten signature in cursive script that reads "Diane R. Lancaster".

DIANE R. LANCASTER
GS-12, Installation Restoration Manager
By direction

**NAS Jacksonville Restoration Advisory Board
Meeting
November 19, 1996**

The regularly scheduled meeting of NAS Jacksonville's Restoration Advisory Board (RAB) was held at 7 p.m. on Tuesday, November 19, 1996 at the Timucuan Elementary School Cafeteria.

Members present:

CAPT Bob Whitmire	CO, NAS Jax
Diane Lancaster	Navy Co-chair
Margo Latham	Community Co-chair
Bill Dougherty	NAS PAO
John H. Baty	RAB member
John Barnard	RAB member
Lois Lowe-Vickers	RAB member
Curtis McLemore	RAB member
Mark Reasoner	RAB member
Henry Anner	RAB member
Ron Hoenstine	RAB member
Anthony Robinson	SODIV
Dana Gaskins	SODIV
Fred Burns	PWC-Jax
Lissa Miller	ABB-ES
Bill Kollar	ABB-ES
Srin Kuchibotla	ABB-ES
Sam Patterson	Brown & Root

RAB Community Members Absent:

Birdie Burth
Jerry Young
Phyllis Hunter

I. Administrative Remarks

Ms. Chantay Bronson, NAS, will will provide administrative support to the RAB beginning January 1997.

II. Review of the October RAB Minutes

The following items were corrected in Section II:

- `1. The separation of the surficial aquifer from the the intermediate aquifer by a large clay layer;' and
- `3. . the geology of the Hawthorne layer or group;'

October minutes were approved as amended.

III. Training

A. Operable Unit 3 pumping test briefing - (Presented by Srin Kuchibotla of ABB)

An investigation was conducted at OU3 to further characterize eight areas previously identified during sampling events. The goal of the further field work was to determine the best remedial action to prevent spread of these areas of higher contamination or 'hot spots'.

The areas are identified in an attachment to the minutes. Areas D & F require further evaluation. Areas B, C, G and H appear to have less contamination than anticipated.

A pumping test to determine characteristics of groundwater was conducted in Area A. A pumping test involves the rapid extraction of groundwater and injected air to see how well the water moves. A Soil Vapor Extraction (SVE) well was installed 4 feet below land surface. A Groundwater Extraction (GE) well was installed 20 feet below land surface. Three Piezometers were installed 5, 10, and 20 feet below land surface. Data was collected to determine groundwater seepage velocity and movement toward the river. Air was drawn out of the soil to determine contaminants in the dry part of the soil.

SVE and air injection testing showed that water and contamination can be removed, but will not recover rapidly. Air is not easily injected. A clay layer is preventing chlorinated solvents from sinking into deeper aquifers. The clay layer is approximately 15 feet deep. Wells installed below the clay layer show no contamination.

The bioremediation study in area D is still in progress. The contamination is naturally biodegrading, and the study is identifying what conditions are making the contamination biodegrade.

In area E and F, points of contamination were pumped for 72 hours to possibly reduce contamination, pumping was successful and contamination was reduced.

Question: Could the contamination be disbursing instead of biodegrading?

Answer: The contamination does not appear to be disbursing (based upon sampling around the area).

Question: How fast is the contamination moving towards the river?

Answer: Not very fast.

Results

SITE	SEEPAGE VELOCITY	APPROXIMATE TIME FOR CONTAMINATION TO REACH RIVER
Area A	5.6 feet/year	550 years
Area D	36.5 feet/year	60 years
Area E	1 foot/year	1450 years
Area F	21 feet/year	60 years

Information gathered from this testing will be added to the Remedial Investigation for OU3.

B. Sediment Training - Presented by Diane Lancaster

1. Sediment and contaminant properties

a. Particle sizes

- (1) Larger particles fall faster
- (2) Stokes Law -- has a formula, things transport, they fall at a certain speed. Particles do not follow this law, particularly the small particles.

2. Definition of sediment and contamination

a. Sediment

- (1) Particulate matter in water column or settling to bottom of water column

b. Contamination

- (2) Substance or substances in a place where they are not wanted or where environmental damage has resulted.

c. Sediment Contamination

- (3) Substance having an impact on the aquatic or benthic environment.

3. Remediation strategies

a. No action

- (1) Passive remediation

- (2) Natural burial
 - (3) Delay
 - (4) No action
- b. In-situ capping or confinement
- (1) Thin layer cap
 - (2) Thick layer cap
 - (3) Confinement and cap
 - (4) Confinement and 'in-situ' treatment
- c. In-situ treatment
- (1) Biological
 - (2) Chemical/washing
 - (3) Fixation
- d. Removal
- (1) Mechanical
 - (2) Hydraulic
 - (3) Hybrid

Information was provided by various presenters at University of Wisconsin during the courses 'Understanding Sediment Analysis and Interpretation', September 16-18, 1996; and 'Cleaning Contaminated Sediment', September 18-20, 1996.

IV. Joint RAB Meeting

February's RAB meeting will be combined with Naval Station Mayport, and Naval Air Station Cecil Field. The meeting will include a 15 minute presentation by each team. Afterward, everyone is invited to socialize at Mulligans at NAS Jacksonville.

V. Site Status Update

Operable Unit (OU) One - The Record of Decision is being revised. No date for signature. Discussion is continuing concerning request for legal language for land use restrictions.

Bldg 106 - Construction of air sparging (blowing air into groundwater), and soil vapor extraction (vacuum of vapors from soil) is scheduled in March 1997.

Bldg 780 - Construction of soil vapor extraction (vacuum of vapors from soil) and groundwater extraction (removing contaminated water from underground) is scheduled in March 1997.

OU1 Light Non-Aqueous Phase Liquid (LNAPL) Removal - Pumping continues. Quantity decreased to less than 55 gallons per

quarter.

PSC 42 - Polishing Pond. Bechtel continuing in-situ stabilization. Work has resumed after the rain.

PSC 18 - Radioactive Waste Disposal Area. All radioactive material has been removed. Fence has been removed. Final walkover survey scheduled for last week of November.

OU2 - Monitoring wells have been installed to complete the additional verification sampling requested by Florida Department of Environmental Protection. Awaiting testing results.

OU3 - Presentation by ABB (see previous minutes).

Casa Linda Lake - Naval Facilities Engineering Service Command (NFESC) has received a ~~Promise to Pay~~ using FY 97 funds. Negotiations tentatively scheduled this month.

VI. Agenda items for January meeting

Site status update

Finalize presentation for Joint Rab Meeting in February

Air Sparging training (Frank Cater from Bechtel?)

Next meeting is scheduled January 21, 1997.