

8/17/05-01737



**Naval Weapons Station  
Yorktown/Cheatham Annex**

**Restoration Advisory Board  
Meeting**

**17 August 2005**

**Charles E. Brown Park Community  
Building**

**Old Williamsburg Road**



## AGENDA

### ENVIRONMENTAL RESTORATION ADVISORY BOARD

NAVAL WEAPONS STATION YORKTOWN AND CHEATHAM ANNEX

CHARLES E. BROWN PARK COMMUNITY BUILDING

OLD WILLIAMSBURG ROAD (Route 238), LACKEY, VA

WEDNESDAY, 17 AUGUST 2005, 6:30 PM – 8:30 P.M.

WELCOME/INTRODUCTION	Mr. Jim Kemp Public Affairs Officer	6:30-6:35
NAVY REMARKS	CAPT Gerard O'Regan Commanding Officer	6:35-6:40
COMMUNITY REMARKS	Mr. Barry Moss Community Co-Chair	6:40-6:45
ATSDR	Ms. Melissa Forrest NEHC	6:45-7:15
NWSY SITES 4 & 18 ROD STATUS	Mr. Don Joiner Baker Environmental	7:15-7:30
<b>BREAK</b>		
7:30-7:55		
FY 2005 ACCOMPLISHMENTS	Ms. Linda Cole NAVFAC Mid-Atlantic	7:55-8:10
REMEDIAL ACTION STATUS (SITE 6, CAX SITE 1, CAX SITE 7)	Ms. Linda Cole NAVFAC Mid-Atlantic	8:10-8:25
FINAL COMMENTS/CLOSING REMARKS	Mr. Jim Kemp Public Affairs Officer	8:25-8:30

### FUTURE RAB MEETINGS:

Wednesday, 16 November 2005

Wednesday, 15 February 2006

Wednesday, 17 May 2006



# **ATSDR and the PUBLIC HEALTH ASSESSMENT PROCESS**

Naval Weapons Station Yorktown  
17 August 2005





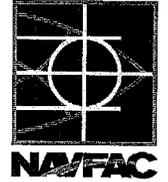
**ATSDR = Agency For Toxic Substances  
And Disease Registry**

***www.atsdr.cdc.gov***





# Purpose of this Presentation

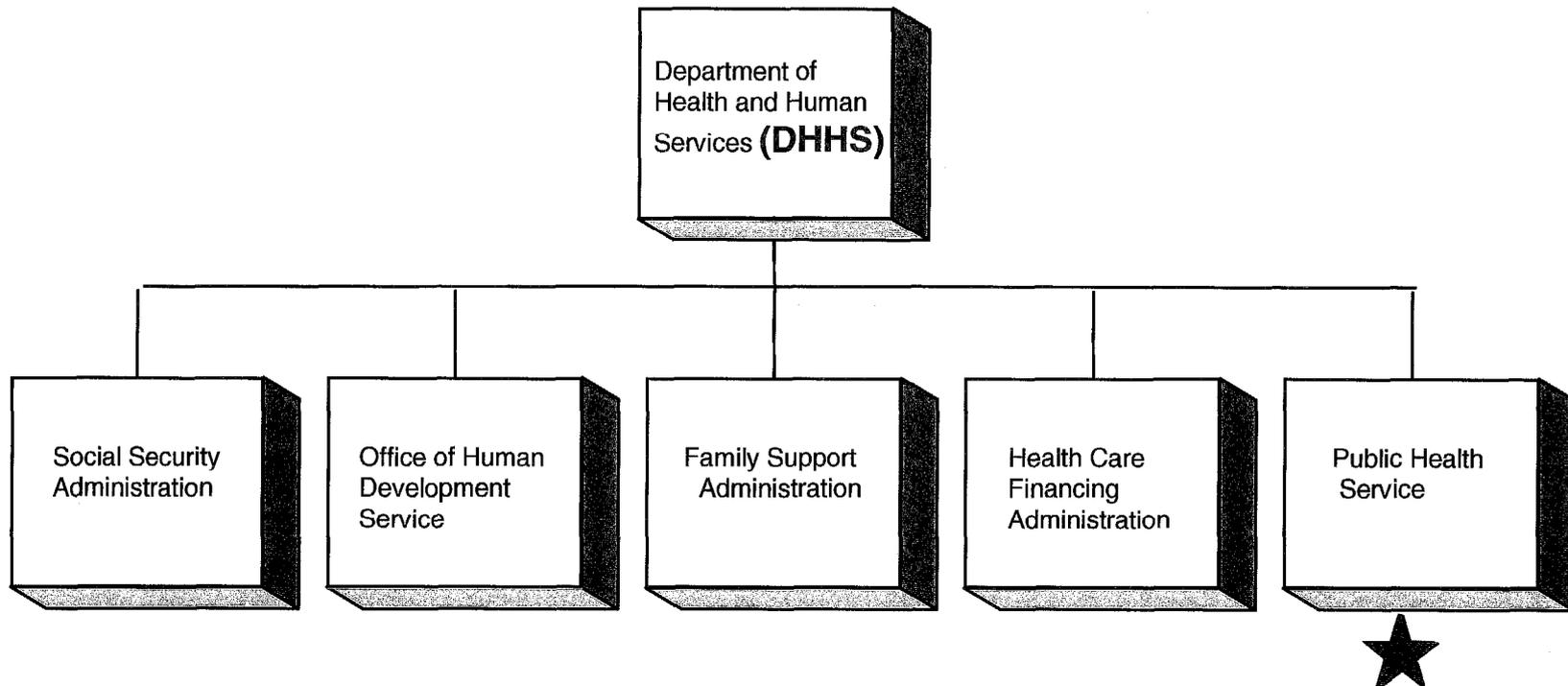


**To answer the following questions:**

- **What is ATSDR?**
- **What is a Public Health Assessment?**
- **How can you help the process?**



# DHHS ORGANIZATION





# U.S. PUBLIC HEALTH SERVICE ORGANIZATION



## U.S. PUBLIC HEALTH SERVICE



- Agency for Health Care Policy and Research
- Alcohol, Drug Abuse and Mental Health Administration
- Food and Drug Administration
- Indian Health Service
- Agency for Toxic Substances and Disease Registry
- Centers for Disease Control and Prevention
- Health Resources and Services Administration
- National Institutes of Health



# ATSDR'S MISSION



Organizational Perspective:

*“To **serve the public** by using the best science, taking responsive public health actions, and providing trusted health information to **prevent harmful exposure and disease** related to toxic substances.”*

Public Health Assessment Perspective:

*“To prevent exposure and adverse human health effects and diminished quality of life associated with exposure to hazardous substances.”*



# What is a Public Health Assessment



- **A review of available information** about hazardous substances at a site and an **evaluation** of whether exposure to these substances might cause any harm to people.
- Review and Evaluation includes information on:
  - Past releases of hazardous substances into the environment
  - Community Health Concerns
  - Health Outcome Data



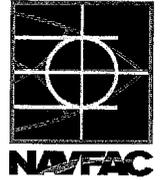
# Purpose of Public Health Assessments



- **Assess past/current/future impacts on public health**
- **Develop health advisories/recommendations**
- **Identify health studies/actions needed to evaluate or mitigate or prevent human health effects**



# Sites Receiving Public Health Assessments



- Sites on or proposed for the National Priorities List
- Sites petitioned by the surrounding community or regulators



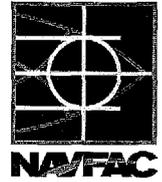
# Process of Health Assessment



- **Identify and Obtain Data**
- **Characterize Public Health Exposures**
- **Evaluate Public Health Impacts**
- **Recommend Public Health Actions**



# **PUBLIC HEALTH ASSESSMENT INFORMATION**



- **Environmental Data**

- Information available on the contaminants and how people could come in contact with them**

- **Community Concerns**

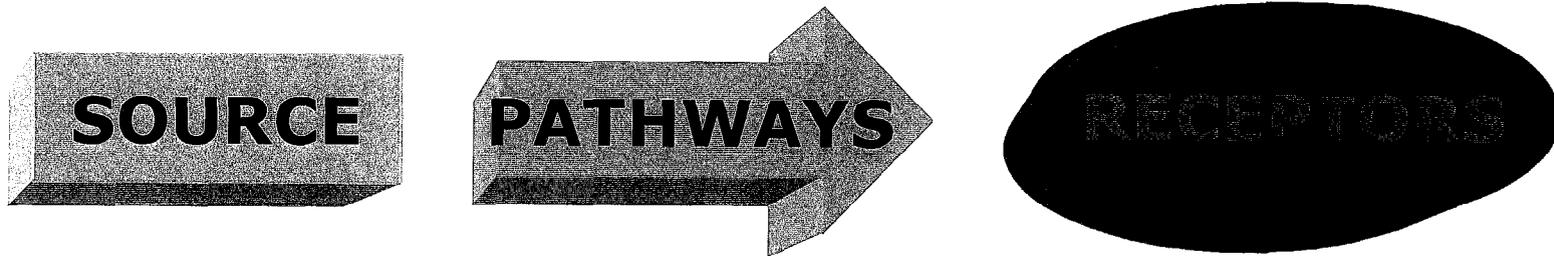
- Reports from the public about how the site affects their health or quality of life**

- **Health Data**

- Information available on community-wide rates of illness, disease, and death compared with national and state rates**



# EXPOSURE PATHWAY EVALUATION





# PATHWAY ELEMENTS



Contaminant Source



Environmental Media



Exposure Point



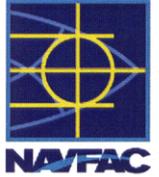
Exposure Route



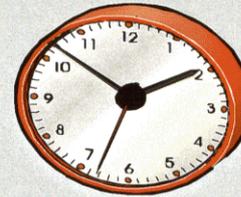
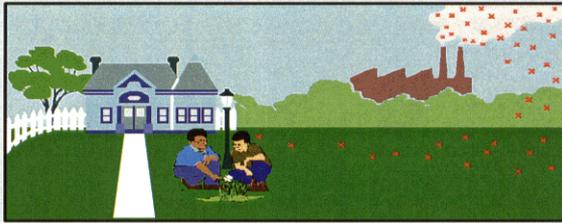
Receptor Population



# Conceptual Site Model



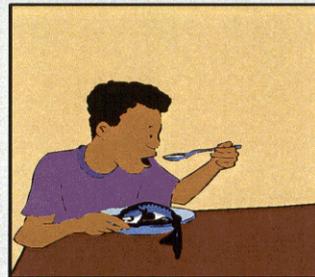
Who are the exposed people?



How often did the exposures occur?

How much of the chemical were people exposed to?

How were these people exposed?



How long did the exposures last?



# Community Health Concerns



- **Understanding community health concerns is an essential element of ATSDR's Community Involvement**
- **Community concerns provide ATSDR with Information about past and present activities at a site and potential adverse health effects**



# Health Data



- **Follow-on to community concerns or environmental exposures of concern**
- **Information available on community-wide rates of illness, disease, and death compared with national and state rates**



# Public Health Assessment Process



- 1. Initial Contact/Gather Review Data – Dec 2004**
- 2. Site Scoping Visit/public meeting – Feb 2005**
- 3. Site Visit Summary Memo – Feb 2005**
- 4. Gather/Review Additional Data**
- 5. Data Validation Draft (Agency/Primary Stakeholder Review and Comment Period) – Expected Sept/Oct 2005**
- 6. Public Comment Draft (Public Review and Comment Period) – Expected Early 2006**
- 7. Final Public Health Assessment**
- 8. Periodic Update of Public Health Action Plan**



# POINTS OF CONTACT



## **NEHC**

David McConaughy

Fax: (757) 953-0675

Phone: (757) 953-0942

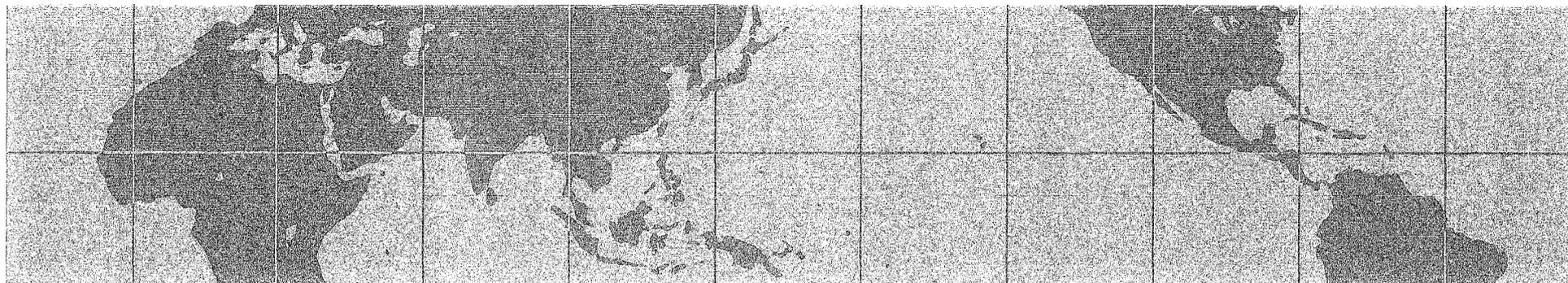
E-Mail: *mcconaughyd@nehc.med.navy.mil*

## **ATSDR**

Angel Sanchez

Phone: (404) 498-0377

E-Mail: *AVY2@CDC.GOV*



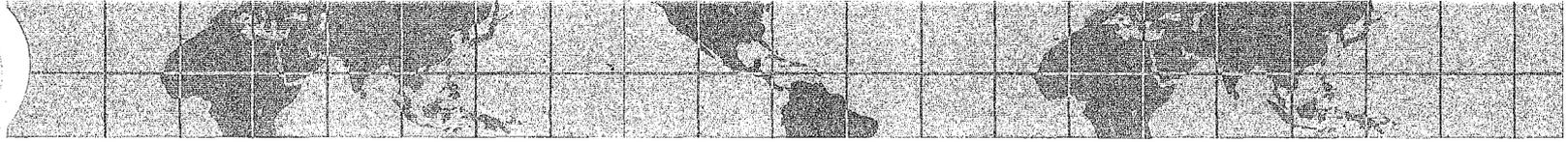
# Naval Weapons Station Yorktown



ROD Update  
Site 4 – Burning Pad Residue Landfill  
and  
Site 18 – Building 476 Discharge Area

WPNSTA YORKTOWN RAB MEETING

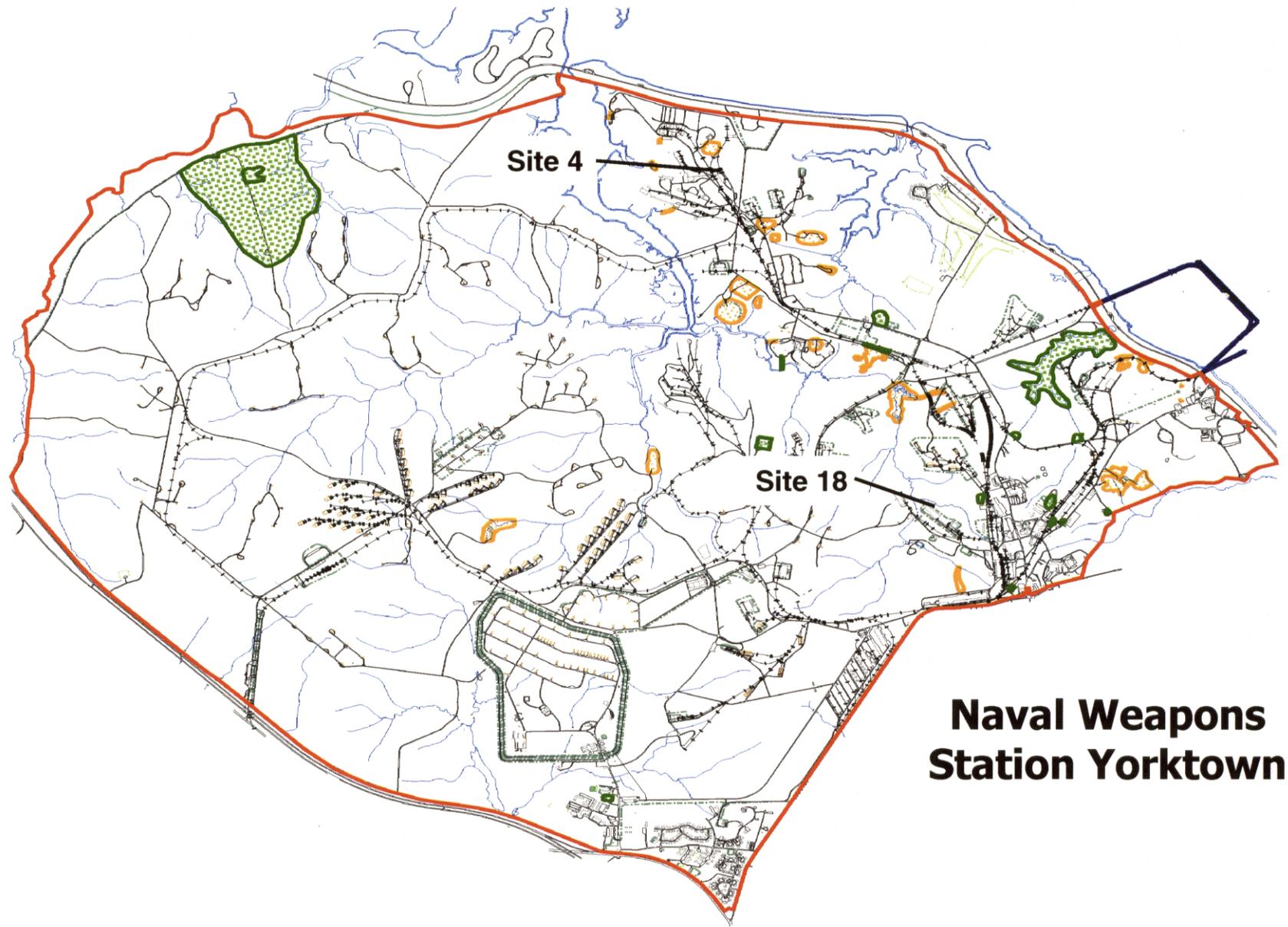
17 August 2005



# Presentation Goal

Update the RAB on Record of Decision Documents and schedules for Sites 4 and 18

1733 BB024



# Naval Weapons Station Yorktown



# Site 4-Burning Pad Residue Landfill





# Site 4-Burning Pad Residue Landfill

## Background Information

- Site 4 is approximately 10-acres in size
- Used as a land disposal area from 1940 until 1975
- Materials reportedly disposed at the site included:
  - carbon-zinc batteries, burning pad residues, tree stumps, fly ash from coal-fired boilers, mine casings, electrical equipment, and transformers.
- Removal Action Completed in 2003 (to residential levels)
- Stockpile area restoration completed in April 2005
- Total cost for Site 4 cleanup = \$2,249,000
- No unacceptable site risks following removal actions



# Site 4-During Site Restoration





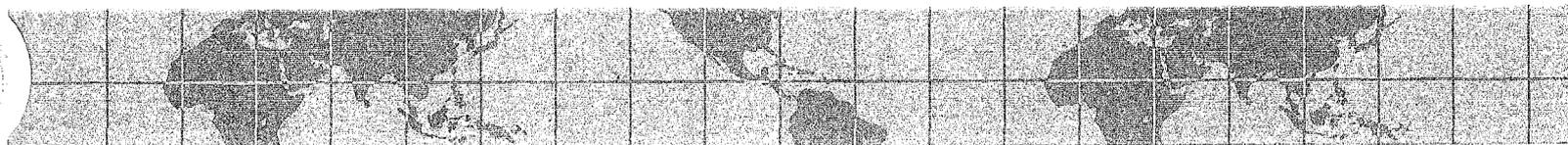
## Site 4-During Stockpiled Soil Removal





## Site 18 – Building 476 Discharge Area

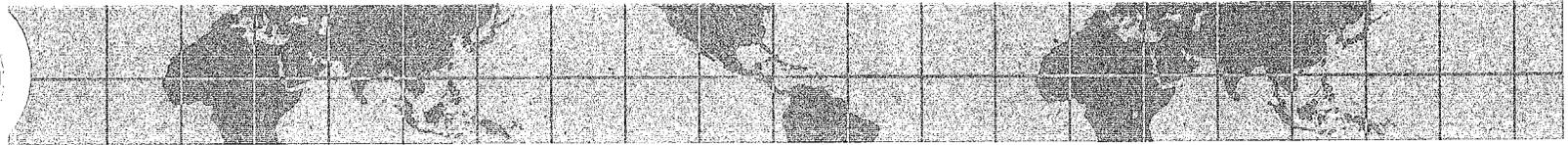




## Site 18-Building 476 Discharge Area

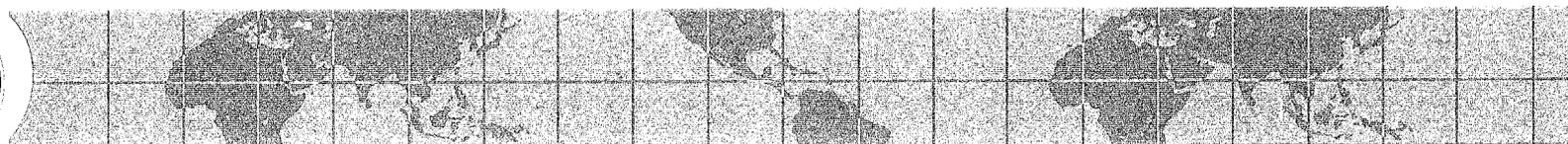
### Background Information

- 1,300-foot long drainage ditch along small tributary leading to Lee Pond
- Discharge of battery acid waste in 1940s to 1960s
- Round One RI completed in 1993
- Round Two RI completed in 2004
- RI demonstrated no unacceptable site risks
- Final Proposed Plan in 2005



## Finalizing Site 4 and Site 18 RODs

- Navy, USEPA and VDEQ finalizing comments on RODs
  - Site 4 – No Further Action ROD
  - Site 18 – No Action ROD
- Navy will submit signed RODs to USEPA for signature prior to 30 Sept 2005
- VDEQ will provide written concurrence on RODs



# Questions or Comments?

For additional information contact:

Don Joiner

Baker Environmental, Inc.

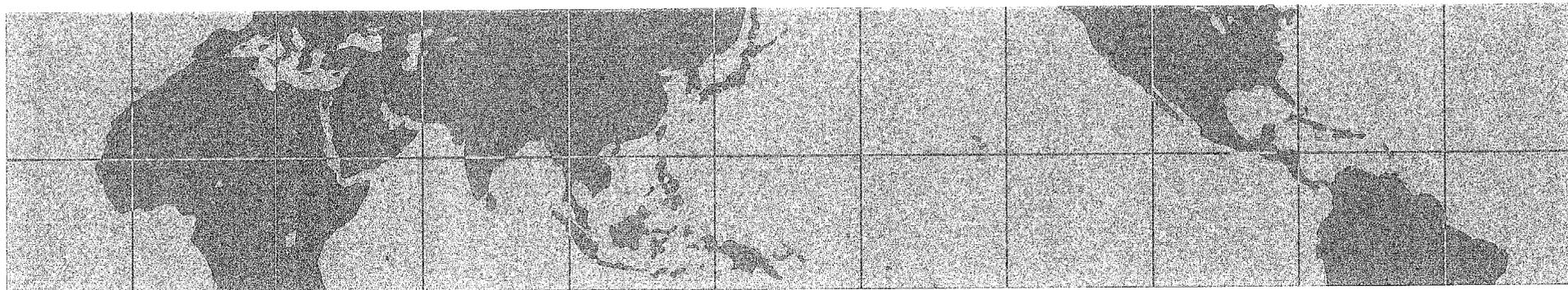
770 Lynnhaven Parkway

Suite 240

Virginia Beach, VA 23452

757-631-5416

[djoiner@mbakercorp.com](mailto:djoiner@mbakercorp.com)

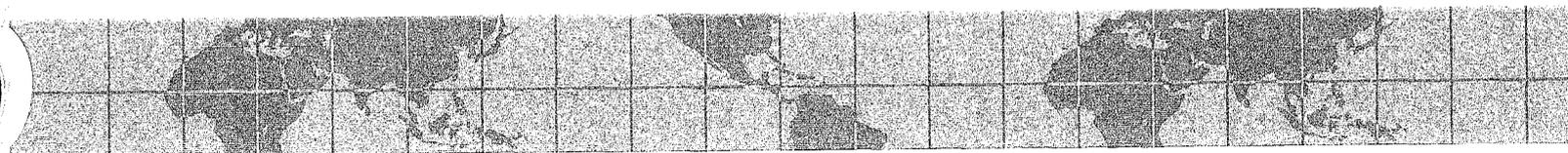


# Naval Weapons Station Yorktown

## FY05 Accomplishments

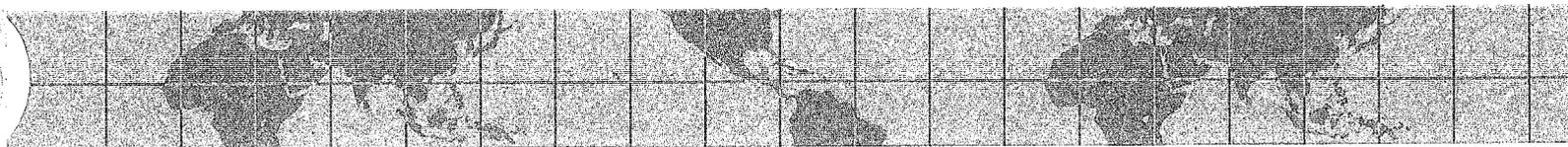
WPNSTA Yorktown RAB Meeting

17 August 2005



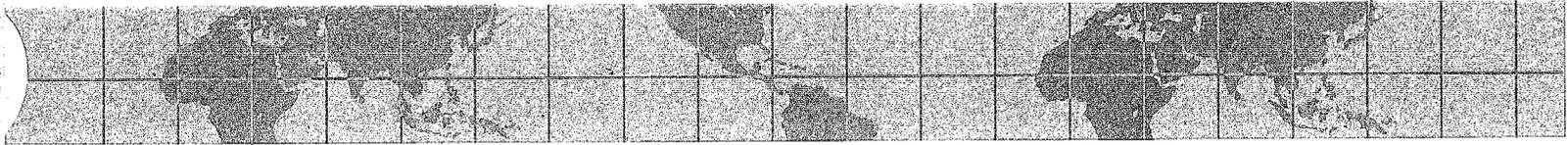
## *What Did We Want to Accomplish this Year at NWSY?*

- Complete bioremediation of pretreatment cell #1 at Site 6
- Issue RODs for Sites 4 and 18
- Delineate contamination at Sites 2 and 8 and at SSA 14 and issue EE/CA
  - MC found at Site 2; sampling completed in June 2005 for Site 8 and SSA 14
- Issue an EE/CA for Site 23
  - Completed project plans; need funding for sampling



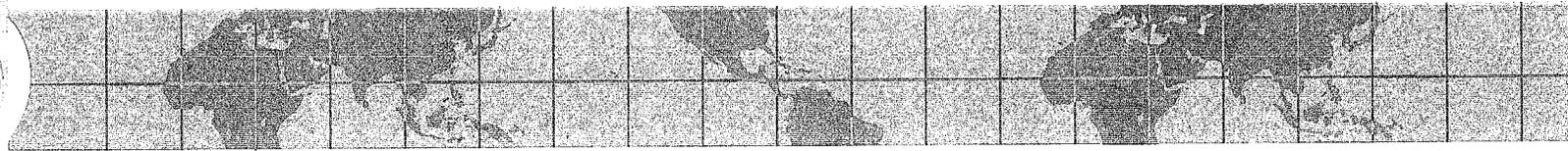
## *There's More?*

- ⊕ Delineate the wetlands down gradient of the beaver pond – SSA 25
  - ⊞ Completed draft project plans
- ⊕ Issue draft work plans for GWOU III and IV
  - ⊞ Working in conjunction with GWOU I
- ⊕ Issue the LTM report for Site 12 
- ⊕ Issue a draft EGIS 
  - ⊞ Completed final EGIS



## *And What About CAX?*

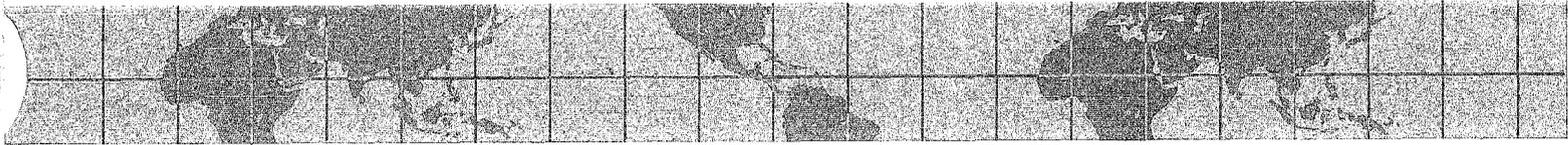
- Issue the RI for Sites 4 and 9
- Issue an Action Memo for Site 4 surface cleanup
  - Lacked funding
- Further delineate waste at Site 7 and issue a draft EE/CA
  - Need geotextile tube installation
- Finalize the FFA
- Issue work plan for wetlands at Site 1



## *So Where Does all the Money Go?*

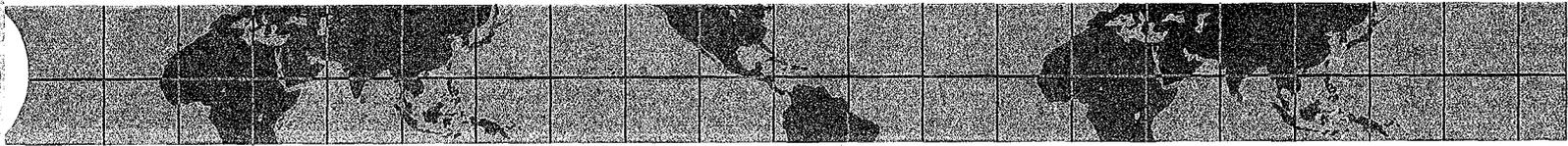
### ● Obligated \$2,284,119.00

- \$950,505.00 for a remedial action at Sites 8 and SSA 14
- \$438,456.00 for a remedial action and erosion control repairs at CAX Site 1
- \$893,394.00 was obligated for study work except for \$1764.00 that went to the Installation's Natural Resources personnel to assist with restoration at Site 4



## *So What Still Needs to be Done?*

- Complete bioremediation at Site 6 and restore the site
- Delineate contamination at Site 2, Site 23, SSA 25, CAX Site 1 (hot spots) and Site 7
- Issue EE/CA and Action Memo for Site 8 and SSA 14, Site 23, CAX Site 7
- Install geotextile tube at CAX Site 7
- Issue those draft project plans for GWOU III and IV
- Fund a CAX Site 4 housekeeping effort for surface debris



# *Questions or Comments?*

*For additional information contact:*

*Linda Cole*

*NAVFAC Mid-Atlantic*

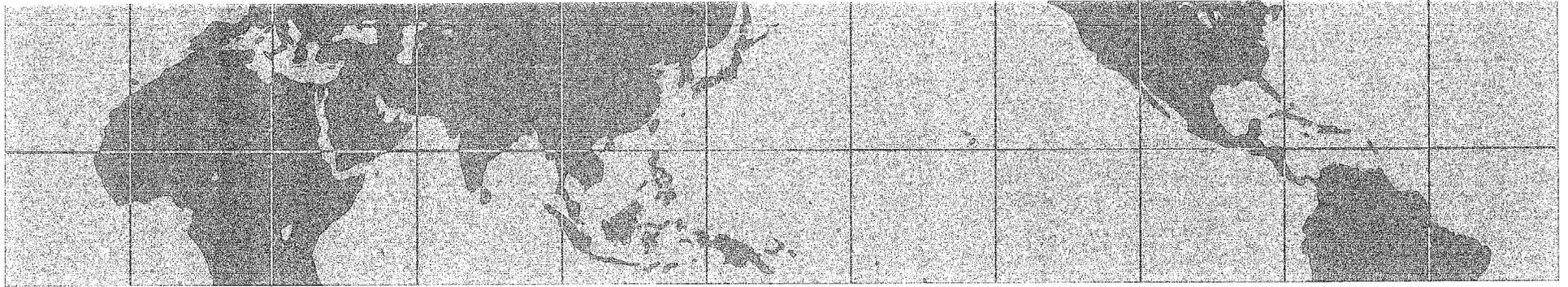
*9742 Maryland Avenue*

*Bldg N-26, Room 3208, Code EV3*

*Norfolk, VA 23511-3095*

*757-444-3826*

*[linda.cole@navy.mil](mailto:linda.cole@navy.mil)*



# Naval Weapons Station Yorktown

## Remedial Action Status

WPNSTA Yorktown RAB Meeting

17 August 2005

1733B034



# *NWSY Site 6 – This Was Then*





## *Just the Facts, Ma'am*

- ⊕ Treated soil – 8000 cy
- ⊕ Only 500 cy left but no \$\$\$\$\$\$\$\$\$\$
- ⊕ Remediated over 50.44 tons of explosives
- ⊕ 99.9992% contaminant mass reduction
- ⊕ Achieved residential clean-up goals
- ⊕ \$3,331,305 (need \$450K more)



# *And Now?*





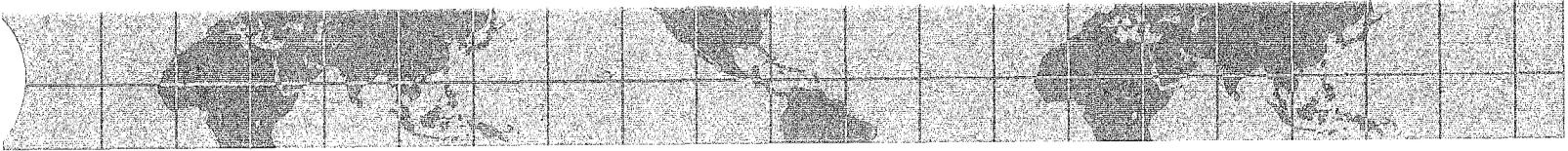
# *CAX Site 1 – This Was Then*





*But We Found More...*





## *Just the Facts, Ma'am*

- Started load out of debris/soil on August 9<sup>th</sup>
- Estimate 1000 cy debris/soil
- Previously removed 21,675 cy
  - 20,321 cy soil
  - 369 cy sediments
  - 985 cy debris
    - 480 cy metal debris recycled
- \$3,012,593 not including hot spot removal

1733B5054



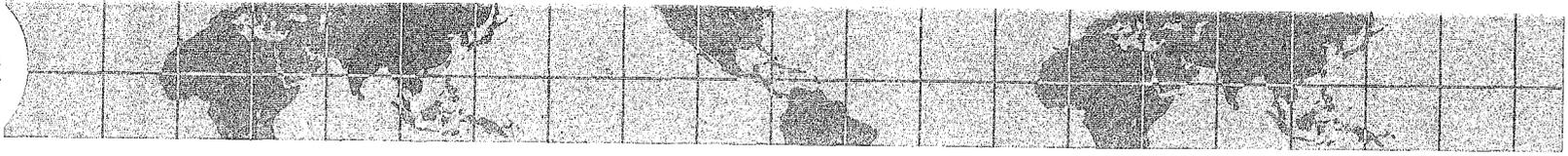
# *And Now?*





# *CAX Site 7 – This Was Then*





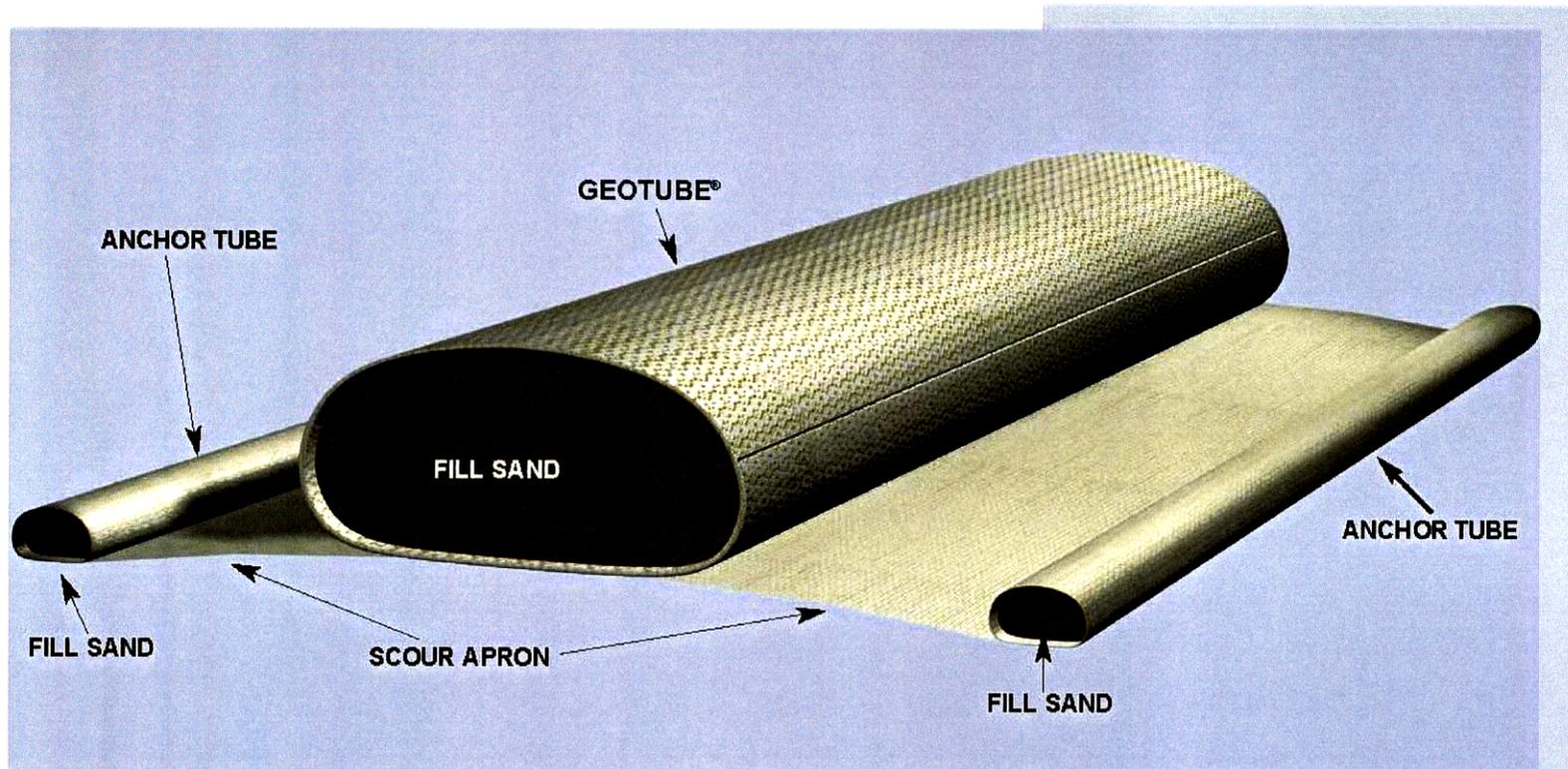
## *Just the Facts, Ma'am*

- Submitted preliminary draft of ESS to Naval Ordnance Safety & Security Activity
- Received 50 critical comments
- Incorporating comments and issuing draft ESS to NOSSA for approval this week
- Will revise work plan and begin geotube installation
- \$360,972 not including munitions response (just the tip of the iceberg)

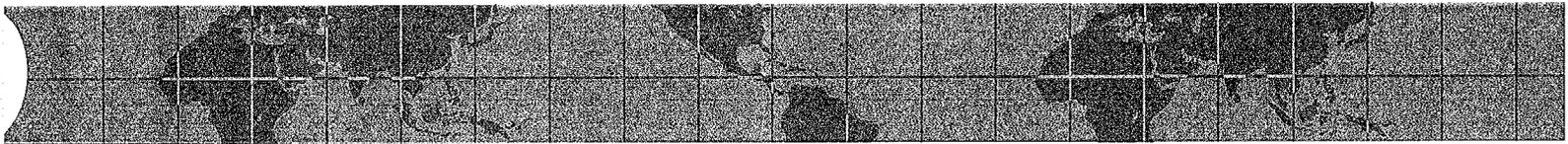


1733B06Y

## *And Now? – Well, Soon!*



Typical cross-section showing the relationship between the Mirafi® **Geotube**® and the Scour Apron. The intent of the apron is for the anchor tubes to bury themselves and protect the **Geotube**® from scour.



# *Questions or Comments?*

*For additional information contact:*

*Linda Cole*

*NAVFAC Mid-Atlantic*

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