

10/15/03-00399

**RESTORATION ADVISORY BOARD (RAB)  
AGENDA**

**For the  
Installation Restoration Program (IRP)  
St. Juliens Creek Annex  
Chesapeake, Virginia**

**Major Hillard Library  
824 Old George Washington Hwy N  
Chesapeake, Virginia 23323  
Wednesday, October 15, 2003 at 6:00 PM**

**TOPIC**

**SPEAKER**

**Welcome & Introduction**

John Ballinger  
Regional Environmental Group

**Site Investigation/Site Screening  
Assessment Results**

Bill Friedmann  
CH2M HILL

**Break**

**Public Enterprise System Website**

Kim Henderson/Bill Friedmann  
CH2M HILL

**Fiscal Year 2003 Accomplishments1  
Fiscal Year 2004 Goals**

Stephen Garth  
Naval Facilities Engineering Command

**Roundtable/Q & A**

Comments  
Future Agenda  
Future RAB Meeting Schedule

Stephen Garth  
Naval Facilities Engineering Command

**Closing Remarks & Adjourn**



**Preliminary Results from the  
Fiscal Year 2003 Investigations  
at St. Juliens Creek Annex:  
Site 8, Site 19, Site 21, AOC 1,  
AOC 13, AOC 14, and AOC K**

St. Juliens Creek Annex RAB  
October 15,2003



**Purpose**

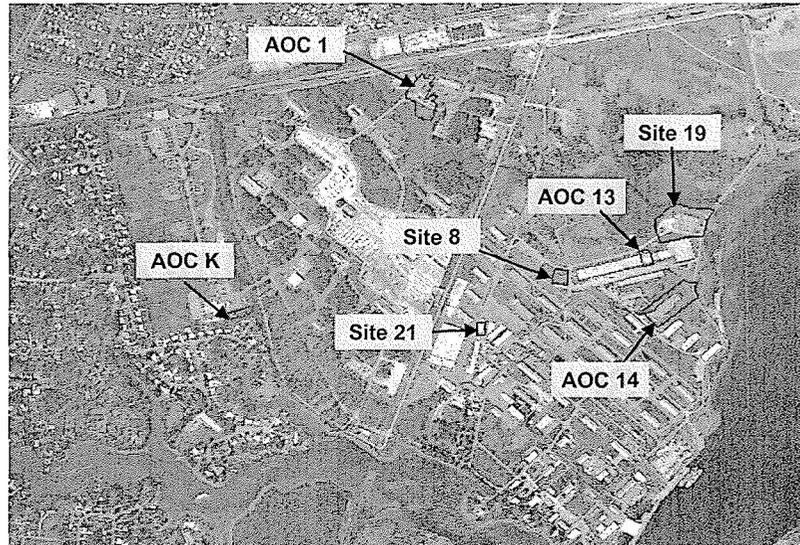
**Present the preliminary results  
(unvalidated data) from  
investigations conducted at Sites 8,  
19, & 21 and AOCs I , 13, 14, & K in  
August 2003**

**Discuss the next steps**

**Ask for questions/comments**



## Sites Investigated



## Site 8 (Cross and Mine) Investigation

- **History**
  - From the 1950s through the **mid-1960s**, approximately 675,000 gallons of pesticide rinse water was reportedly discharged directly to the ground surface
- **August 2003 Investigation**
  - Collected 15 groundwater samples from just below the water table, and used a field screen test kit to determine the presence or absence of pesticide contamination
  - Based on the results, 4 monitoring wells were installed and samples were collected and analyzed for Pesticides and Metals



## Site 8 (Cross and Mine) Investigation

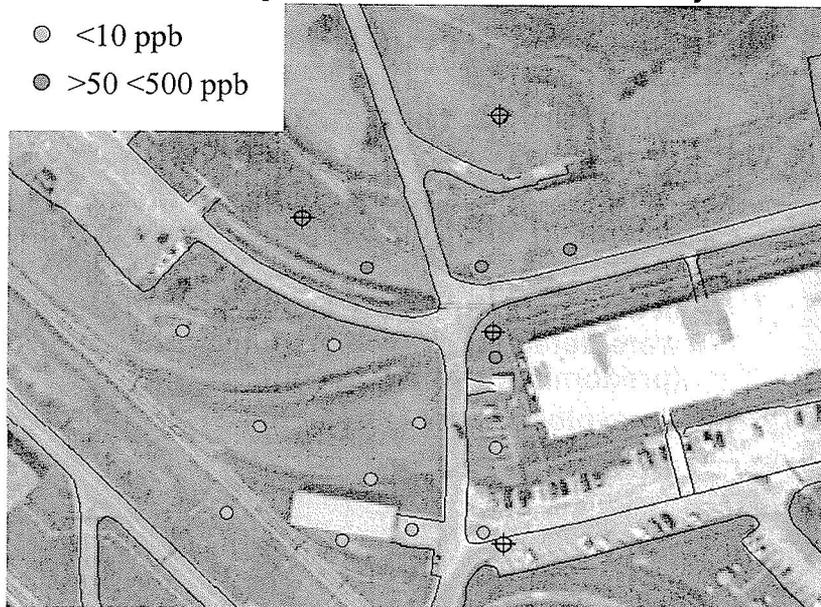
- **Preliminary Results**

- Test kit results indicated Pesticides present with concentrations of 50 to 500 parts per billion (ppb)
- Monitoring well data did not confirm test kit results as Pesticides were estimated at levels below the detection limit (0.02 to 0.8 ppb) at the downgradient well only
- Metals detected below regulatory screening criteria at all four monitoring wells



## Site 8 (Cross and Mine)

- <10 ppb
- >50 <500 ppb





## Site 19 (Building 190) Investigation

- **History**
  - Ordnance management activities occurred at this location from the early 1900s through the 1970s.
- **August 2003 Investigation**
  - Collected 10 surface soil (0-6") and 10 subsurface soil (1-3') samples
  - Collected 2 sediment (0-6") samples from the **outfalls** of concrete culverts in the Southern Branch of the Elizabeth River
  - Samples were analyzed for **VOCs**, **SVOCs**, **Pesticides/PCBs**, **Explosives**, and **Metals/Cyanide**

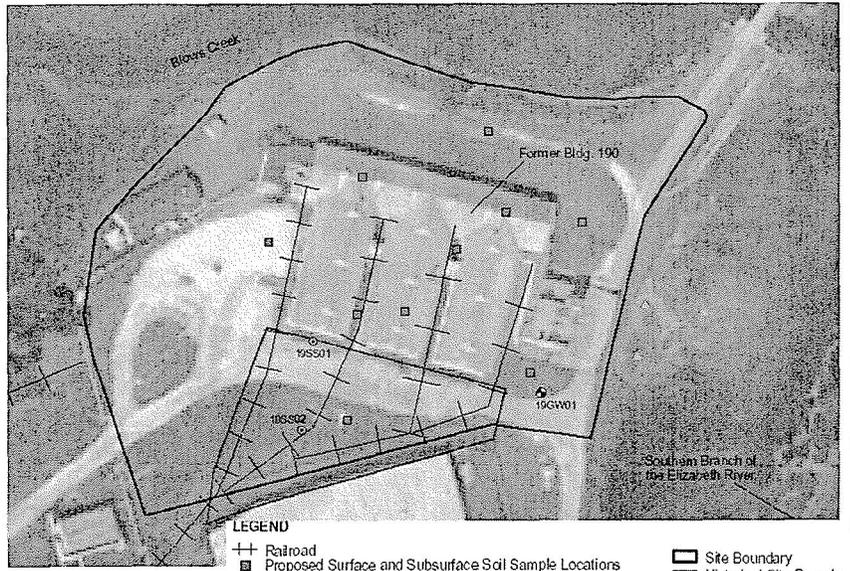


## Site 19 (Building 190) Investigation

- **Preliminary Results**
  - In soil, **PAHs** (a subset of SVOCs) and **Metals** were elevated above screening criteria at several locations around the former building footprint
  - In sediment, **SVOCs**, **Pesticides**, and **Metals** were detected above screening criteria (predominantly ecological)
  - No explosives were detected!



## Site 19 (Building 190)



## Site 21 (Building 187)

### History

- Locomotive shed used for maintenance
- In 1995, trichloroethene (TCE) was found in groundwater

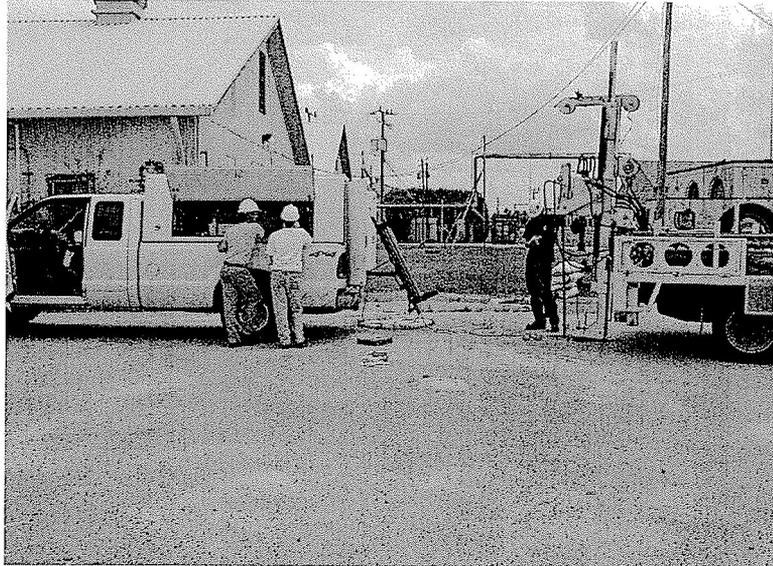
### Investigation

#### August 2003 Investigation

- Collected hydrogeologic and geochemical data at 10 to 20 locations using a Membrane Interface Probe (MIP) sampling by direct-push technology
- The MIP provided real-time lithologic profiles continuously with depth to just below the confining clay layer (~20') to delineate the TCE plume
- Based on the results, 6 shallow monitoring wells were installed and samples were collected and analyzed for **VOCs, SVOCs, Pesticides/PCBs, Explosives, and Metals/Cyanide**. One deep was also installed.



## MIP Operations at Site 21



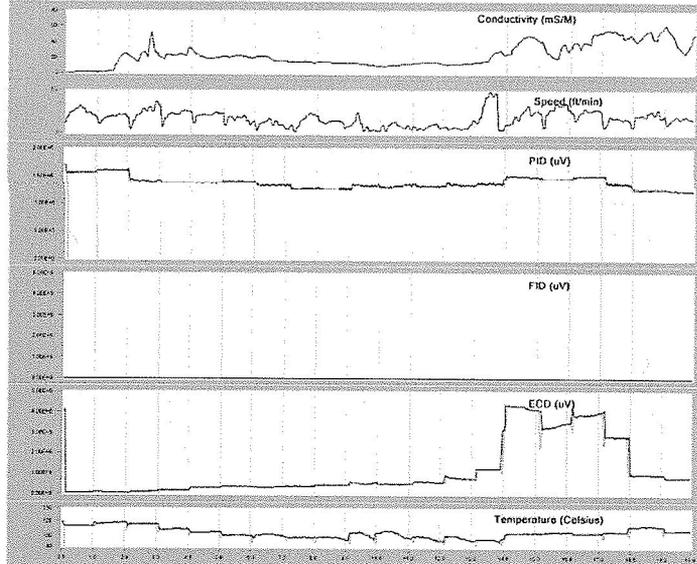
## MIP Operations at Site 21





## MIP Log at Site 21

Log: C:\dirim95\LOGFILES\MIP-08.DAT



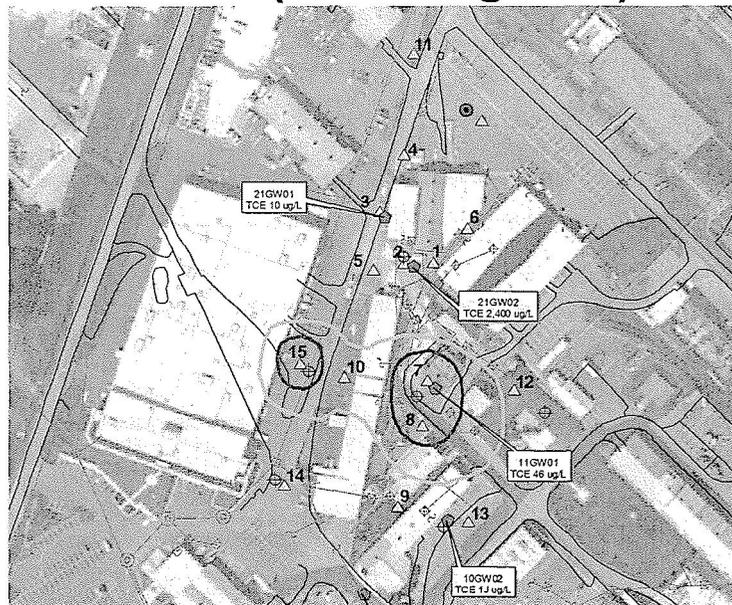
## Site 21 (Building 187) Investigation

### • Preliminary Results

- The MIP results indicated elevated areas of TCE in the shallow (Columbia) aquifer.
- The concentrations of **VOCs** (including TCE) detected in monitoring well groundwater correlate with the MIP results.
- RDX was detected at an estimated concentration below the detection limit at one monitoring well.
- Metals were detected above screening criteria (predominantly ecological). Arsenic detected at **72 ug/L** in the deep (Yorktown) well.



## Site 21 (Building 187)

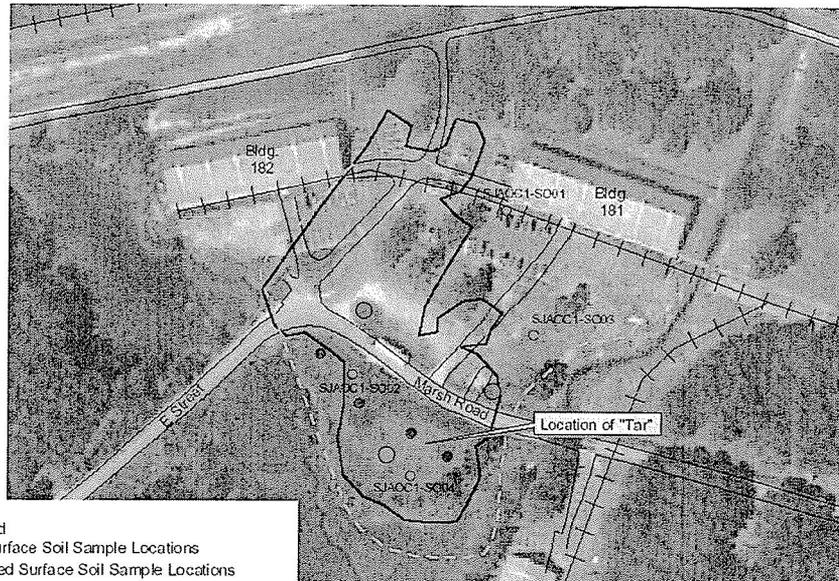


## AOC ■ (E St. and Marsh Rd.) Investigation

- **History**
  - Ground scarring was identified as a possible waste disposal area in a 1937 photograph.
  - Previous investigation indicated presence of PAHs
- **August 2003 Investigation**
  - Collected 10 surface soil (0-6") samples that were analyzed for SVOCs
- **Preliminary Results**
  - PAHs exceeded screening criteria (predominantly ecological) at three sample locations



## AOC 1 (E St. and Marsh Rd.)

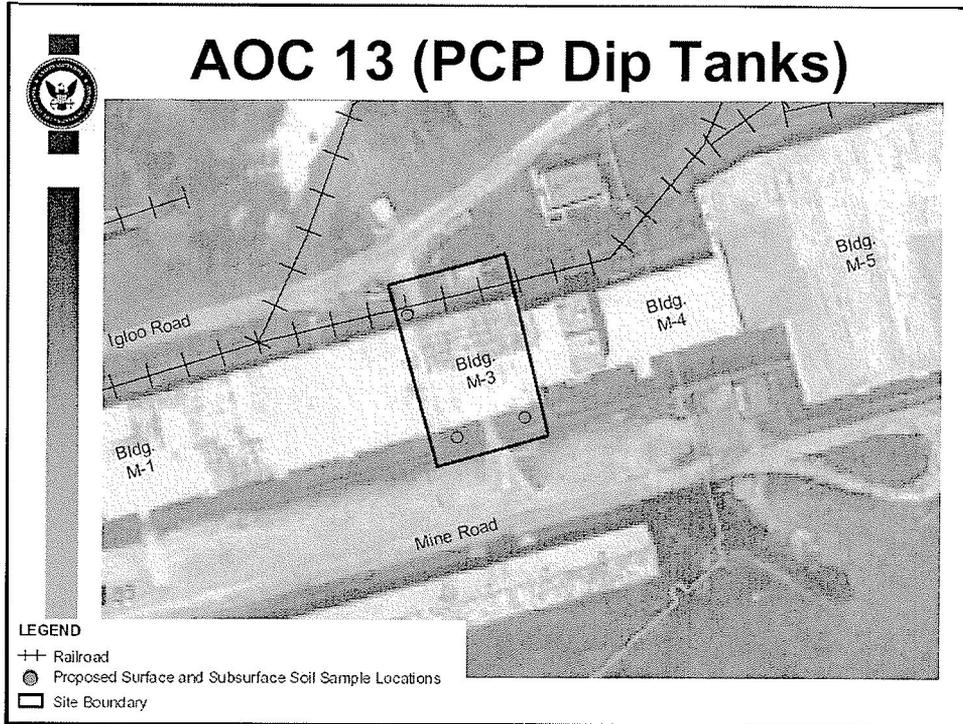


- LEGEND**
- ++ Railroad
  - SSA Surface Soil Sample Locations
  - Proposed Surface Soil Sample Locations
  - Site Boundary
  - Extent of 1937 Ground Scarring



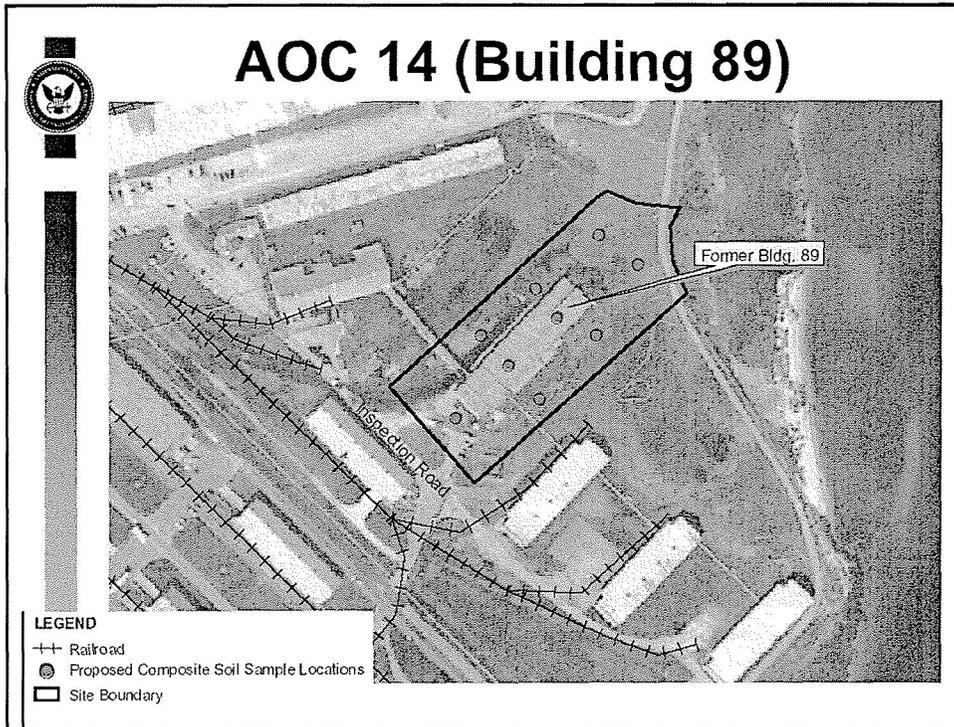
## AOC 13 (PCP Dip Tanks) Investigation

- **History**
  - Open bay of Bldg. M-3 where 2 pentachlorophenol (PCP) dip tanks were located along the western wall from 1951 to 1953.
- **August 2003 Investigation**
  - Collected 3 surface soil (0-6") and 3 subsurface soil (1-3') samples that were analyzed for SVOCs
- **Preliminary Results**
  - SVOCs exceeded ecological screening criteria at two sample locations. PCP was detected at one location below criteria.



## AOC 14 (Building 89) Investigation

- **History**
  - Used for loading projectiles, including 8” and 16” shells of Explosive D compounds from the 1920s through the 1970s.
- **August 2003 Investigation**
  - Collected 9 composite soil (0-3’) samples for VOCs, SVOCs, Pesticides/PCBs, Explosives, and Metals/Cyanide analysis
- **Preliminary Results**
  - PAHs exceeded screening criteria at the two easternmost sample locations. Metals exceeded screening criteria (primarily ecological).



**AOC K (Former STP)  
Investigation**

- **History**
  - Former sewage treatment plant (STP) operated from 1942 until 1947 and handled waste from onsite barracks.
- **August 2003 Investigation**
  - Collected 3 surface soil (0-6") and 3 subsurface soil (1-3') samples for Mercury analysis

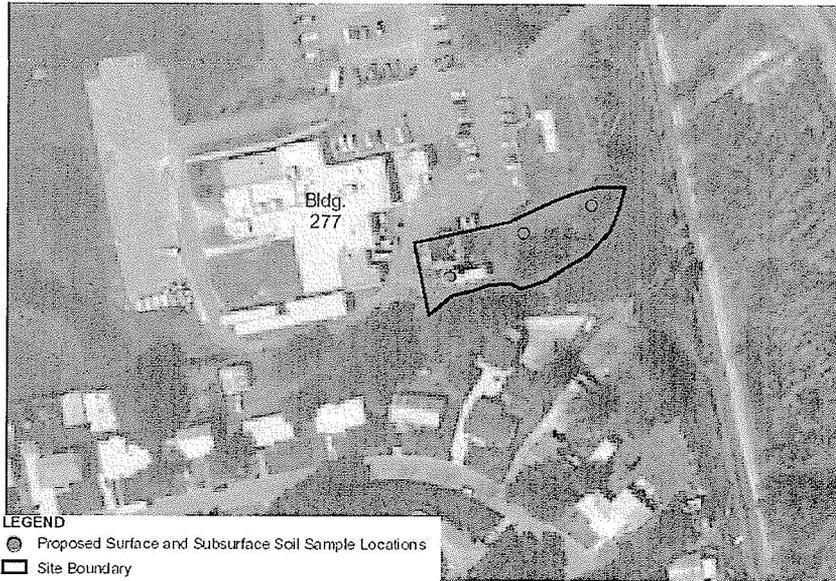
**Preliminary Results**

- Mercury was detected above ecological screening criteria at 2 surface soil sample locations.

The figure is a text-based report for 'AOC K (Former STP) Investigation'. It includes a small circular logo in the top left corner. The text is organized into sections: 'History', 'August 2003 Investigation', and 'Preliminary Results'. The 'History' section states that the former sewage treatment plant (STP) operated from 1942 until 1947 and handled waste from onsite barracks. The 'August 2003 Investigation' section reports that 3 surface soil (0-6") and 3 subsurface soil (1-3') samples were collected for Mercury analysis. The 'Preliminary Results' section states that Mercury was detected above ecological screening criteria at 2 surface soil sample locations.



## AOC K (Former STP)



## Next Steps

- Human health and ecological screening evaluations will be conducted for these areas.
- Findings will be submitted in a Draft Site Investigation report for Sites 19, 21, and AOC 1 and an a Site Screening Assessment evaluation report for Site 8 and AOCs 13, 14, and K in December 2003.
- Based on the final findings at each area
  - The area may be recommended for no further action (NFA)
  - Further investigation may be required



- **Are there any questions?**
- **Thank you for your time!**



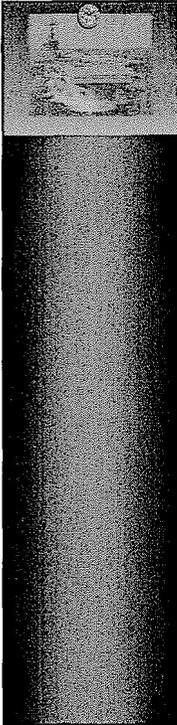
# **LANTDIV Installation Restoration Program**

## **Navy Enterprise Web Portal for St. Juliens Creek Annex**

**St. Juliens Creek Annex RAB  
October 15, 2003**

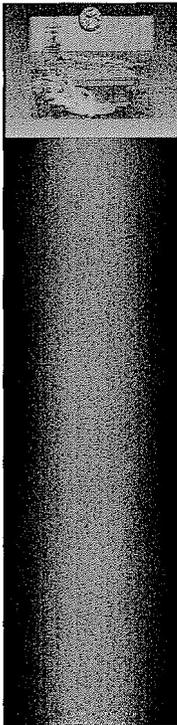
### **Purpose**

- Provide a brief overview of the St. Juliens Creek Annex Enterprise Web Portal - [www.lantops-ir.org/sjca](http://www.lantops-ir.org/sjca)
- Ask for questions/comments



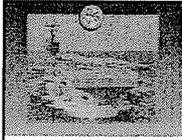
## Enterprise System Purpose

- The **website** is part of the Navy's active efforts to provide accurate, timely, and comprehensive information to the public on the environmental Installation Restoration (IR) program currently in action at St. Juliens Creek Annex (SJCA) in Chesapeake, Virginia.



## Enterprise System Features

- About
- Previous Studies and Investigations
- **IR** Program Information
- Public Outreach
- Links
- Glossary
- Acronyms
- Administrative Record
- Help



# About Page



- About
- Prev. Studies & Invest.
- IR Program Information
- Public Outreach
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## Welcome to the St. Juliens Creek Annex (SJCA) Installation Restoration (IR) Web Site!

This web site is part of the Navy's active efforts to provide accurate, timely and comprehensive information on the environmental IR program currently in action at St. Juliens Creek Annex in Chesapeake, VA.

### BACKGROUND

The SJCA facility is situated at the confluence of St. Juliens Creek and the Southern Branch of the Elizabeth River in the City of Chesapeake, located in southeastern Virginia. The facility covers approximately 490 acres and includes administrative buildings, wharf areas to the Southern Branch of the Elizabeth River, a central heating plant, numerous non-operational industrial facilities, a radar testing range, and miscellaneous structures.

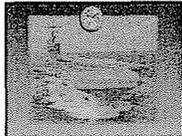
The facility is bordered to the north by the Norfolk and Western Railroad, the City of Portsmouth, and residential areas; to the west by residential areas; to the south by St. Juliens Creek; and to the east by the Southern Branch of the Elizabeth River. The Norfolk Naval Shipyard is located approximately 1.5 miles to the north.

St. Juliens Creek Annex began operations as a naval ammunition facility in 1949. In the past, operations at SJCA have included general ordnance operations involving wartime transfer of ammunitions to various other U.S. Naval facilities throughout the United States and abroad. In addition, the Annex has been involved in specific ordnance operations and processes including those involving black powder operations, smokeless powder operations, projectile loading operations, mine loading, tracer mixing, testing operations, and decontamination operations.



# About Page Contents

- **Background**
  - Learn about historical operations at SJCA
- **Environmental Investigation**
  - History of environmental activities conducted at SJCA



# Previous Studies and Investigations Page



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## Previous Studies and Investigations

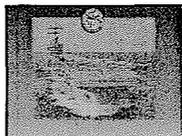
This page contains an overview of the St. Juliens Creek Annex (SJCA) environmental history together with a table listing the studies and reports that has been produced for each site. To go directly to the sections containing these reports click on the links below or select the report from the table.

- Site Summary Table
- AOC Summary Table
- SWMU Summary Table
- Preliminary Studies and Investigations
- Detailed Site Investigations
- Site Descriptions
- AOC Descriptions
- SWMU Descriptions

In 1981, the Department of the Navy initiated the Navy Assessment and Control of Installation Pollutants (NACIP) Program. The NACIP Program used a three-phased approach to study and clean up sites. St. Juliens Creek Annex initiated its environmental restoration, study and investigation efforts under the NACIP Program by conducting an Initial Assessment Study (IAS) in 1981. The NACIP program was changed in 1986 to reflect the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act (SARA). This revised program is referred to as the Installation Restoration (IR) Program.

The purpose of the Navy's NACIP and IR Program was to identify, assess, characterize, and clean up or control contamination from past waste management activities at Navy and Marine Corps facilities. Given the nature and extent of its operations, the Navy has been involved with toxic and hazardous materials for several decades. The Department of Defense, as well as general industry, have realized that previously acceptable methods of disposal are no longer sufficient and actions are being taken, through these programs, to clean up Navy sites that pose a threat to human health or the environment. Current Navy waste management operations are in compliance with all federal, state, and U.S. Navy regulations to ensure safe operation and disposal.

St. Juliens Creek Annex was listed on the U.S. Environmental Protection Agency (USEPA) National Priorities List (NPL) in August 2000. The Navy acts in partnership with the USEPA and Virginia Department of Environmental Quality (VDEQ) to address environmental investigations at the facility through the IR Program. The Navy is currently preparing a Federal Facilities



# Previous Studies and Investigations Page Contents

- Summary Tables of Sites, Solid Waste Management Units (SWMUs), and Area of Concerns (AOCs) including the Studies Conducted and CERCLA Status

SWMU Summary Table

Site Number	Site Name	Studies Conducted	FANFA Under CERCLA
SWMU 10	Hazardous Waste Container Storage Building 154Y	IAS, RFA	NFA
SWMU 11	Hazardous Waste Container Storage Building 163Y	IAS, RFA	NFA
SWMU 12	PCB Storage Building 198	IAS, RFA	NFA
SWMU 18	Old Storage Yard # 2	IAS, RFA	NFA
SWMU 19	Old Storage Yard # 3	IAS, RFA	NFA
SWMU 21	Hazardous Waste Accumulation Area (SMA # 2)	RFA	NFA
SWMU 22	Repair Shop Satellite Storage Area Northeast of Building 40	RFA	NFA
SWMU 26	Scrap Metal Storage in Railroad Cars near Building 176	IAS, RFA	NFA
SWMU 29	Dumpsters (throughout the Facility)	IAS, RFA	NFA
SWMU 32	Overland Drainage Ditches	IAS, RFA	NFA
SWMU 33	Sewer Drainage System	IAS, RFA	NFA
SWMU 34	Operational Waste Accumulation Area	IAS, RFA	NFA

FA = Future Action  
NFA = No Future Action

## Previous Studies and Investigations Page Contents...cont...

- The Tables contain links to detailed information:
  - Preliminary Studies and Investigations

### Preliminary Studies and Investigations

The following base-wide investigations were completed through the IR Program.

#### Initial Assessment Study (IAS), dated 1981

In 1981, the Navy conducted the IAS as part of the Naval Assessment and Control of Installation Pollutants (NACIP) Program (NEESA, 1981). The purpose of the IAS was to identify and assess buildings and sites that posed a potential threat to human health or the environment because of contamination from past handling of and operations involving hazardous materials. Results of this study revealed that low level concentrations of ordnance materials exist throughout the facility. However, the buildings and sites identified were determined not to pose a threat to human health and the environment, and no confirmation study was conducted.

[Back to Table](#)

#### Preliminary Assessment (PA), dated 1983

In 1983, NUS Corporation, Superfund Division (NUS), conducted a PA at seven sites at the facility: Cross and Mine (Solid Waste Management Unit [SWMU] 9 [renamed Site 8]), Building 249 (SWMU 13), Dump A (SWMU 1 [renamed Site 1]), Dump B (SWMU 2 [renamed Site 2]), Dump B Incinerator (SWMU #3 [included with Site 2]), Dump C (SWMU #5 [renamed Site 3]) and Dump D (SWMU #6 [renamed Site 4]).

Ambient air at each site, including Sites 3 and 4, was monitored for volatile organic compounds (VOCs) and radiation with an organic vapor meter and radiation meter, respectively. No readings above background were encountered and NUS did not

## Previous Studies and Investigations Page Contents...cont...

- Detailed Site Investigations

### Detailed Site Investigations

#### Draft Remedial Investigation (RI) for Sites 2 and 5, dated 1998

A Draft RI for Sites 2 and 5 was completed in February 1998 and included a human health risk assessment. Surface and subsurface soil, shallow (Columbia Aquifer) and deep (Yorktown Aquifer) groundwater, sediment, and surface water samples were collected and analyzed to characterize the nature and extent of contaminants and potential human health risks posed by contaminants at each site. Geophysical surveys were used to identify the boundaries and anomalies at several of the sites. The RI concluded that the sites may pose a risk to human health and it was recommended that additional data be collected.

[Back to Table](#)

#### Draft Remedial Investigation (RI) for Sites 3 and 4, dated 1998

- Site, SWMU, and AOC Descriptions

### SITE DESCRIPTIONS

#### Site 1—Waste Disposal Area A

Site 1 consists of a one-acre area east of the Dominion-Virginia Electric Power Company Right-of-Way, west of a set of railroad tracks, and north of Building 146. The extent of waste disposal is unknown and site boundaries are approximate. The waste disposal area was used from 1921 to 1924 primarily for the disposal of trash and garbage as reported in the RFA (A.T. Kearney, 1993). Pesticides, acids and bases were also reportedly disposed of at the site. It was reported that trash was burned at the site and the ashes used to fill the marsh area adjacent to Blows Creek. The estimated volume of disposed material prior to being burned was 30,000 cubic yards.

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#### Site 2—Waste Disposal Area B



# IR Program Information Page



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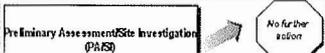
## Overview of the Installation Restoration Program

The Installation Restoration (IR) Program (IRP) is a Department of the Navy initiative to identify, investigate, and clean up former waste disposal sites. Previously, waste (solvents, waste oil, scrap metal and lumber) was disposed of using methods that were acceptable at the time. Solid waste was simply deposited in low-lying areas and covered with soil. Changing times brought new regulations and new approaches to waste disposal. In 1976 Congress passed the Resource Conservation and Recovery Act (RCRA) designed to manage disposal of wastes that were being generated. However, abandoned waste sites were a concern as well. In 1980 Congress passed the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), commonly called the "Superfund" Act, to investigate and clean up abandoned hazardous waste sites.

To address waste sites on military property, the Department of Defense (DoD) established the IR program in 1975. Depending upon the circumstances, military IR sites are identified, investigated, and cleaned up in accordance with RCRA or CERCLA or in accordance with an integrated approach based on both laws.

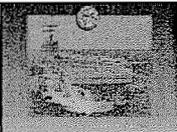
### The CERCLA Process

The IRP begins site studies with a Preliminary Assessment/Site Investigation (PA/SI) to distinguish between sites that pose little or no threat to human health or the environment and sites that may pose a threat and require further investigation. This stage involves a review of historical documents and a visual site inspection. If the PA results in a recommendation for further investigation, a Site Investigation (SI) is performed. During the SI media samples (such as water and soil) are collected to confirm or deny the presence of potentially hazardous substances.



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graph LR
    A[Preliminary Assessment/Site Investigation (PA/SI)] --> B[No further action]
  
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# IR Program Information Page Contents

- Overview of the IR Program
  - Associated Regulations (CERCLA)
  - Flowchart providing a summary of the CERCLA process from beginning to end



# Public Outreach Page



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## Public Outreach and Community Involvement

[Community Involvement History - RAB](#)

[Public Outreach Center Locations](#)

[Upcoming Public Events](#)

### COMMUNITY INVOLVEMENT HISTORY - RAB

St. Juliens Creek Annex has conducted a proactive community relations program throughout the IRP and CERCLA process. A Restoration Advisory Board (RAB) is an advisory board made up of community members, local environmental group members, and local state and federal officials. The RAB at St. Juliens Creek Annex was initially formed in 1994 and has been an integral part of the community relations program since its inception. Currently, there are about 20 members of the RAB and the board meets on a regular basis, usually every 6 months, to allow concerned citizens to communicate and interact with the Navy on IR activities. At each meeting members are given updates, briefings and/or technical presentations on the status of the IR sites with ongoing work.

Use this link if you want more information about RABs:  
[http://www.dtic.mil/envirodad/Stakeholder/WCCommunity/SI\\_WCRAB.htm](http://www.dtic.mil/envirodad/Stakeholder/WCCommunity/SI_WCRAB.htm)

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# Public Outreach Page Contents

- **Community Involvement History – RAB**
- **Public Outreach Center Location**
- **Upcoming Public Events**

### UPCOMING PUBLIC EVENTS

Next RAB Meeting will be on October 15, 2003 at 6:00 PM at:

Major Hillard Library  
 824 Old George Washington Hwy N.  
 Chesapeake, VA 23323

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# Links Page

**Links**

Use these Quick Links to navigate the page:

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Other Installation Restoration Program Websites
Navy and Department of Defense
Groundwater Remediation Technologies
Community Information and Environmental Links
Risk Assessment
Other Federal Agencies
Technology/Engineering and Hydrogeology

Click here to add or edit a link

**REGULATORY AGENCIES**

National Toxicology Program (NTP) Testing Information and Study Results  
 Search for status of individual test agents being studied by the NTP. Abstracts of studies on toxicity, carcinogenicity, immunotoxicity, reproductive and development effects.

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# Links Page Contents

- **Useful links to websites with related content:**
  - **Regulatory Agencies**
    - Ex: Virginia Department of Environmental Quality
  - **Consultants and Contractors**
  - **Other IR Program websites**
  - **Navy and DoD websites**
    - Ex: Naval Facilities Engineering Command Atlantic Division
  - **Groundwater Remediation Technologies**
  - **Community Information and Environmental**
    - Ex: Elizabeth River Project
  - **Risk Assessments**
  - **Technology/Engineering and Hydrogeology**



# Glossary Page

**Glossary**

You may access the list of commonly used Navy Environmental Restoration glossary items by selecting one of the Quick Links below. Once the correct letter appears on the screen, simply scroll to view the glossary item(s) in question.

You may easily return to select another letter of the alphabet by pressing the **Back to top** found at each letter in the list.

If you would like to add to the glossary, please contact Webmaster.

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A B C D E F G H I J K L M N  
O P Q R S T U V W X Y Z

---

A

<b>Abandoned Well</b>	A well whose use has been permanently discontinued or which is in a state of such disrepair that it cannot be used for its intended purpose.
<b>Abatement</b>	Reducing the degree or intensity of, or eliminating, pollution.
<b>Abiotic</b>	Not relating to living things, not alive.

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# Glossary Page Contents

- Alphabetical list of terms and definitions commonly used in environmental investigation
- The previous pages include quick links to the glossary when terms are used in the text



# Acronyms Page

**Acronyms**

You may access the list of common Navy Environmental Restoration acronyms by selecting one of the letters below. Once the correct letter appears on the screen, simply scroll to view the acronym in question.

You may easily return to select another letter of the alphabet by pressing the *Back to top* found at each letter in the list.

If you would like to add to the list of acronyms, please contact Webmaster

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A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

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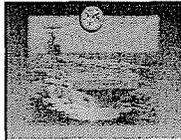
A

A	Flame Atomic Absorption. See Method Qualifier
A	Indicates that a TIC is a suspected aldiol condensation product. See Data Qualifiers
A-106	Office of Management and Budget Circular #A-106
A-E	Architect-Engineer
ARR	Annual Allowance for Requirements Review (Oil Spill)



# Acronyms Page Contents

- Alphabetical list of acronyms and their definitions that are commonly used in environmental investigation

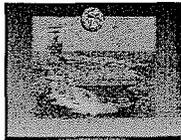


# Administrative Record Page



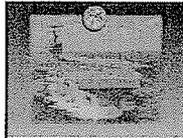
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- Help

Title or Subject	Author
LETTER DISCUSSING THE SITE VISIT BY THE BIOLOGICAL TECHNICAL ASSISTANCE GROUP (BTAG) ON 2 DECEMBER 1998 AND A COPY OF VDEQ AND U.S. EPA COMMENTS ON THE SUPPLEMENTAL FIELDWORK AND BACKGROUND STUDY	T REISCH
LETTER DISCUSSING THE SITE VISIT BY THE BIOLOGICAL TECHNICAL ASSISTANCE GROUP (BTAG) ON 2 DECEMBER 1998 AND A COPY OF VDEQ AND U.S. EPA COMMENTS ON THE SUPPLEMENTAL FIELDWORK AND BACKGROUND STUDY	T REISCH
TRANSMITTAL LETTER FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) FINAL WORK PLAN ADDENDUM FOR LANDFILL B (SITE 2) AND THE BURNING GROUNDS (SITE 5)	D SCHROEDER
TRANSMITTAL LETTER FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) FINAL WORK PLAN ADDENDUM FOR LANDFILL C (SITE 3) AND LANDFILL D (SITE 4)	D SCHROEDER
TRANSMITTAL LETTER FOR THE ANALYTICAL DATA SUMMARY TABLES AND SAMPLE LOCATION MAPS FOR GROUNDWATER, SOIL, SEDIMENT AND SURFACE WATER SAMPLES TAKEN FROM SITES 2, 3, 4, 5 FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)	L FRANCE
TRANSMITTAL LETTER FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) FINAL WORK PLAN FOR LANDFILL C (SITE 3) AND LANDFILL D (SITE 4)	D SCHROEDER
TRANSMITTAL LETTER FOR THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) FINAL WORK PLAN FOR LANDFILL B (SITE 2) AND THE BURNING GROUNDS (SITE 5)	D SCHROEDER
LETTER AND MEDICAL REVIEW OF THE DRAFT HEALTH AND SAFETY PLAN FOR LANDFILL C (SITE 3) AND LANDFILL D (SITE 4)	A LUNSFORD (B DIRECTION)
LETTER AND MEDICAL REVIEW OF THE DRAFT HEALTH AND SAFETY PLAN FOR LANDFILL B (SITE 2) AND THE BURNING GROUNDS (SITE 5)	A LUNSFORD (B DIRECTION)
LETTER AND MEDICAL REVIEW OF THE WORK PLAN AND SAMPLING AND ANALYSIS	D SCHROEDER



# Administrative Record Page Contents

- List of the documents/information published in the Administrative Record (AR) for SJCA
- The AR includes documents and information such as:
  - Site identification
  - Site investigation
  - Development of feasible methods for dealing with site contamination
  - Community relations
  - Relations with regulatory agencies
- The AR is available at the Public Outreach Center for SJCA (here!)



# Help Page



- About
- Prev. Studies & Invest.
- IR Program Information
- Public Outreach
- Links
- Glossary
- Acronyms
- RCRA Records
- Help

## WELCOME TO HELP

This page is created in order to help and guide you through the information and features of this web site. Below, you will find a brief description of each page together with recommendations of how to optimize your use of the content and features. We hope that you will find the information on this page useful.

## ABOUT

The About page provides a brief presentation of the background of the facility and the environmental investigation that has taken place. This page serves as a good starting point to learn about the facility and also provides a perspective on the environmental investigation that has taken place. The text contains several links to the Glossary and Acronyms if you need to learn more about some of the things referred to.

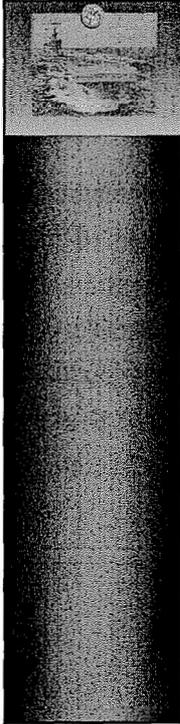
## PREVIOUS STUDIES AND INVESTIGATIONS

The Previous Studies and Investigations page gives a detailed overview of the environmental history at the facility. References are made to studies and reports as well as different stages and phases. This information will help you to



# Help Page Contents

- Provides a brief description of each page
- Contact information



## **Conclusions**

- **Questions|Comments**
- **Feedback is welcome at any time either through the website or directly to the Navy (Stephen Garth).**



# **St. Juliens Creek Annex FY 2003 Accomplishments / FY 2004 Goals**

**St. Juliens Creek Annex  
Restoration Advisory Board (RAB)  
October 15, 2003**



# Purpose

- **Provide fiscal year (FY) 2003 accomplishments**
- **Provide FY 2004 Goals**
- **Solicit questions or comments from Restoration Advisory Board (RAB) participants**



# St. Juliens Creek Annex

**490 acre site located in Chesapeake, VA**

## **History**

- Operated from 1849 to present
- Storing, loading, assembling, issuing, and receiving naval gun ammunition
  - Black powder operations, smokeless powder operations, projectile loading operations, mine loading, tracer mixing, testing operations, decontamination operations, and various support ops
- Present - annex to Norfolk Naval Base with admin for various commands and active DRMO
- **Placed on the National Priorities List (NPL) in 2000**



# St. Juliens Creek Annex





# Purpose of Establishing and Tracking Goals

- Serves as a budgeting tool for allocating future funding
- Prioritizes sites to be investigated and remediated based on their potential risk to human health and the environment
- Keeps remediation projects on schedule

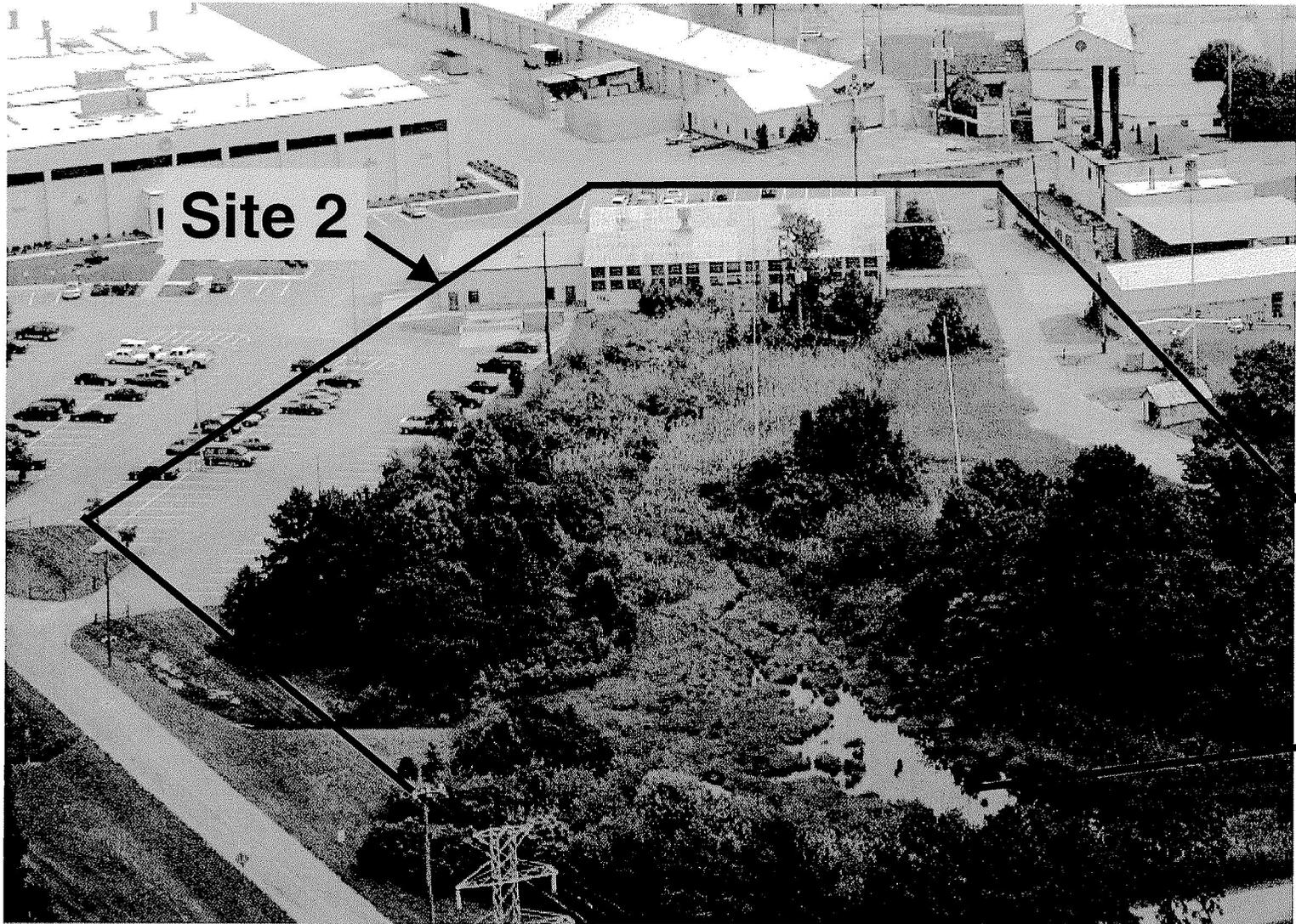


# **FY 2003 Accomplishments**

- **Remedial Investigation Sites**
  - **Site 2: Waste Disposal Area B**
    - **Completed a Draft Remedial Investigation / Human Health Risk Assessment / Ecological Risk Assessment (RI/HHRA/ERA)**
    - **Determined additional investigation necessary and drafted an Expanded RI Work Plan**



# RI Site 2





# **FY 2003 Accomplishments (Cont.)**

- **Remedial Investigation Sites (cont.)**
  - **Site 3: Waste Disposal Area C**
    - **Completed Interim Removal Action (IRA) Phase I**
    - **Completed a Supplemental Site Delineation for Phase II IRA**
  - **Site 4: Landfill D**
    - **Drafted a Feasibility Study (FS) to recommend remedial action alternatives**
  - **Site 5: Burning Grounds**
    - **Determined additional investigation necessary and drafted an Expanded RI Work Plan**

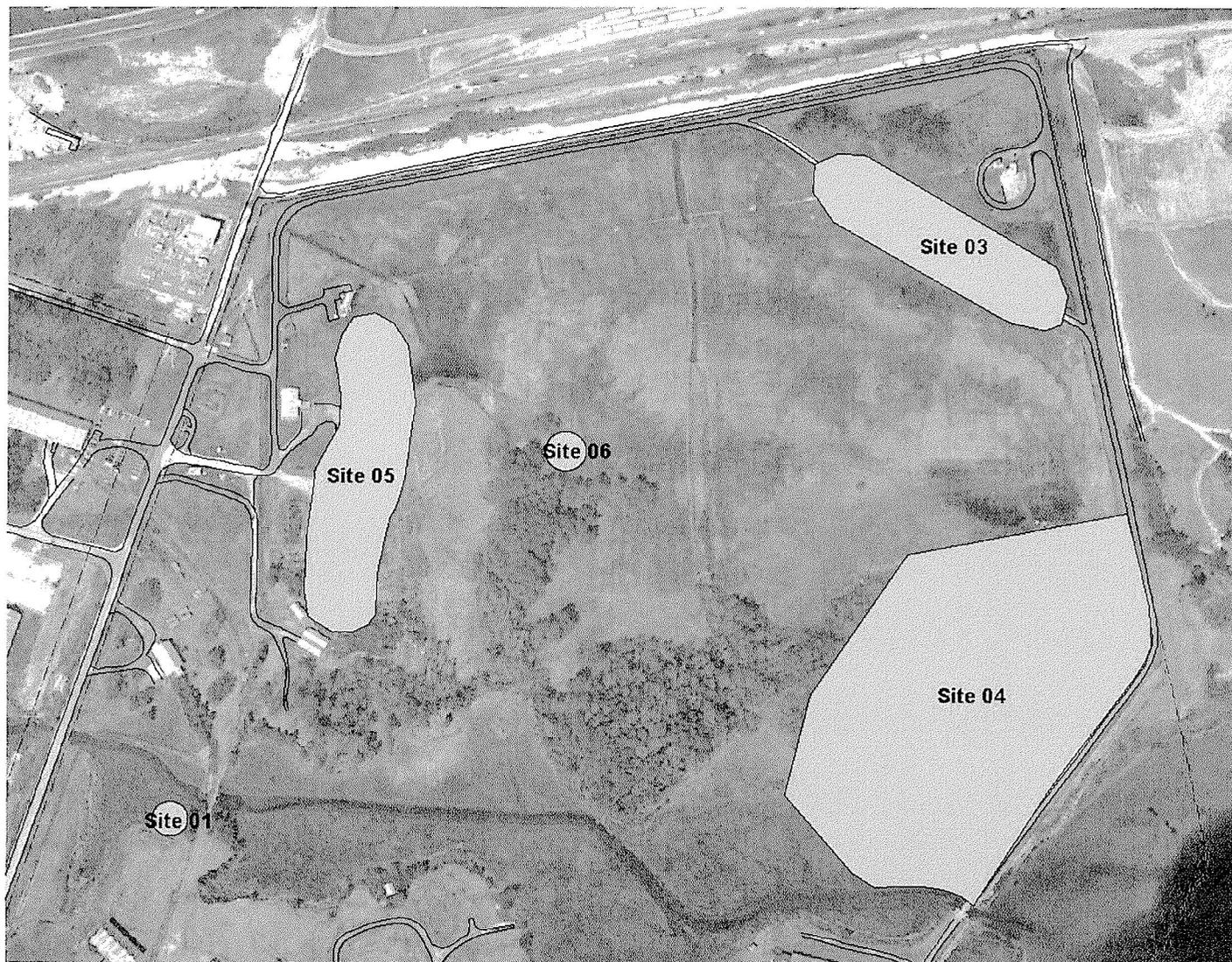


# **FY 2003 Accomplishments (Cont.)**

- **Remedial Investigation Sites  
(cont.)**
  - **Site 6: Small Arms Unit**
    - **Conducted complete removal**
    - **Closed the site with no Land Use Controls necessary (unlimited use)**



# RI Sites 3, 4, 5, and 6





# **FY 2003 Accomplishments (Cont.)**

- **Additional Accomplishments**
  - **Completed Site Investigations at Sites 8, 19, 21 and and Areas of Concern (AOCs) 1, 13, 14, and K**
  - **Conducted a Background Groundwater Investigation**
  - **Conducted a Baseline Ecological Risk Assessment (BERA) for Blows Creek**
  - **Updated an Administrative Record**
  - **Developed the SJCA Enterprise Web Portal**
  - **Developed Site Management Plan for FYs 2005 – Fiscal Year 2010**



# FY 2004 Goals

- **Remedial Investigation Sites**
  - **Site 2: Waste Disposal Area B**
    - Complete the Expanded RI report of findings and determine potential further actions
  - **Site 3: Waste Disposal Area C**
    - Complete the Phase II IRA
    - Close the site with no Land Use Controls necessary (unlimited use)
  - **Site 4: Landfill D**
    - Implement a Remedial Design
    - Complete a Proposed Remedial Action Plan (PRAP) and Record of Decision (ROD)



# FY 2004 Goals

- **Remedial Investigation Sites**
  - **Site 5: Burning Grounds**
    - **Complete the Expanded RI report of findings and determine potential further actions**
    - **Complete an Engineering Evaluation / Cost Analysis (EE/CA) to evaluate the cost of remedial alternatives**



# **FY 2004 Goals (Cont.)**

- **Additional Goals**
- **Complete the Blows Creek BERA Phase I Report of findings**
- **Report the findings of the SIs conducted at Sites 8, 19, 21 and and AOCs 1, 13, 14, and K**
- **Establish Background Groundwater for SJCA**
- **Develop Site Management Plan for FYs 2005 – 2010**
- **Federal Facilities Agreement (FFA)**
- **Complete a Watershed Contamination Source Document (WCSD)**



# Funding

- **FY 2003 Funding \$1,629,365**
- **FY 2004 Anticipated Funding \$1,633,451**



# Summary

- **With current funding, FY 2004 goals should be accomplished and remediation at SJCA kept on schedule**
- **Administrative Record available:**  
Major Hillard Library  
824 Old George Washington Hwy N  
Chesapeake, Virginia 23323  
Phone: 382-3600  
  
[www.lantops-ir.org/sjca](http://www.lantops-ir.org/sjca)
- **Questions and Comments??**