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BASE REALIGNMENT AND CLOSURE CLEANUP PLAN NTC ORLANDO FL  
3/13/1995  
ABB ENVIRONMENTAL



08.04.00.0004

March 13, 1995

Commanding Officer  
Southern Division  
Naval Facilities Engineering Command  
2155 Eagle Drive  
North Charleston, South Carolina 29419-9010

Attn: Wayne J. Hansel, P.E., Code 0572

RE: **BRAC CLEANUP PLAN (BCP), NTC, ORLANDO**  
**CTO 107, CONTRACT # N62467-89-D-0317**

*Wayne*

Dear ~~Mr.~~ Hansel:

We are pleased to submit the enclosed subject document for NTC, Orlando. Please distribute within your office. Copies for the facility and other team members have been mailed directly to them.

If you have any questions, please give me a call at (904) 269-7012.

Sincerely,

**ABB ENVIRONMENTAL SERVICES, INC.**

*Jim Manning*

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REC'D JUL

**BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN**

**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**

**Unit Identification Code (UIC): N65928**

**Contract No. N62467-89-D-0317/107**

**Prepared by:**

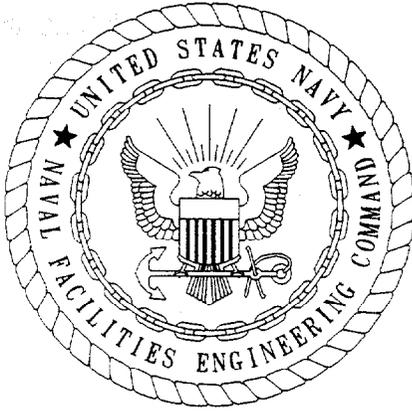
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**March 1995**



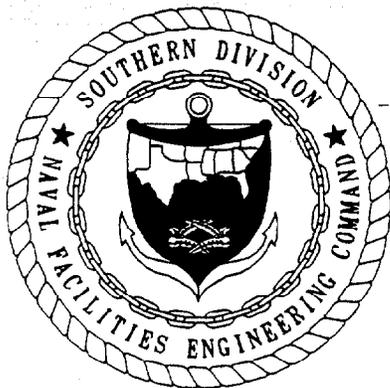
CERTIFICATION OF TECHNICAL  
DATA CONFORMITY (MAY 1987)

The Contractor, ABB Environmental Services, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-d-0317/107 are complete and accurate and comply with all requirements of this contract.

Date: February 23, 1995

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## FOREWORD

The Department of the Navy has instituted several programs to address the requirements of the Defense Base Closure and Realignment Act of 1990. Base Realignment and Closure (BRAC) Cleanup Teams (BCT) have been developed to address the multitude of issues surrounding base closure and to enhance environmental decision making at BRAC installations where property will be available for transfer to the community. This team approach is intended to foster partnering, accelerate the environmental cleanup process, and expedite timely, cost-effective, and environmentally responsible disposal and reuse decisions.

One of the tasks of the BCT is the preparation of the BRAC Cleanup Plan (BCP). A BCP is a macro-level management tool encompassing all environmental issues related to base closure. The emphasis is on accelerating cleanup efforts to expedite conveyance of Federal property to surrounding communities for redevelopment. This document was developed in accordance with the Department of Defense guidance on preparation of BCPs, which includes 33 program review items.

This BCP is for Naval Training Center, Orlando. It details (1) facility background information, (2) reuse and redevelopment status and strategy, and (3) compliance and restoration program status and strategy. In addition, information is presented on scheduling projected costs, and technical and administrative problems that the BCT is in the process of resolving.

## EXECUTIVE SUMMARY

This Base Realignment and Closure (BRAC) Cleanup Plan (BCP) contains the status, management and response strategy, and action items related to ongoing restoration and compliance programs at the Naval Training Center (NTC), Orlando. These programs support restoration of base property to meet the requirements for property disposal and reuse associated with base closure. The BCP is a dynamic document that is updated regularly to reflect the current status and strategies of remedial actions and compliance activities. This document represents conditions and strategies as of January 1995.

### Status of Disposal and Reuse

NTC, Orlando is currently scheduled to remain operational until 1998. To facilitate closure and reuse of base properties, three interrelated activities were necessary: the preparation of a reuse plan; the preparation of an Environmental Impact Statement (EIS), as required by the National Environmental Policy Act; and the development of zones according to transfer date and expected recipient. The Mayor's Reuse Commission submitted their Final Reuse Plan on December 30, 1994, which included the preferred alternative for reuse of NTC, Orlando. The plan specifies how each part of the Base will be reused (i.e., office space, open areas, housing, etc.). An EIS is being prepared by Water and Air Research, Inc., to evaluate the environmental effects of adopting the preferred alternative of the Reuse Plan. The final EIS should be available in summer 1995.

Thirteen zones were delineated based on geographical proximity. These zones have been ranked based on priority to transfer. As parts of the base close, these zones will be crucial to successful transfer and eventual reuse of the associated properties.

An initial Environmental Baseline Survey (EBS) was conducted December 1993 through January 1994. The final EBS report submitted to the Navy in January 1995 identified uncontaminated properties, as defined by the Community Environmental Response Facilitation Act (CERFA), as well as points of interest (POIs) that require further evaluation prior to transfer (including storage tanks). Final results of this survey are discussed in Chapters 1.0 through 4.0 of this report.

### Status of Restoration Program

NTC, Orlando is not a National Priority List facility; however, the Navy is following the objectives of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as they relate to Federal facilities.

The base environmental restoration program can be broken down into two parts: the underground and aboveground storage tank (UST/AST) program and the Installation Restoration (IR) program. Under the UST/AST program, a Tank Management Plan (TMP) is being finalized and three UST removals (at Herndon Annex) are being expedited (separate from the TMP). Historically, restoration-related compliance activities at NTC, Orlando have been UST related. To date, only one site (Building 2080, which had a leaking UST) has been designated as cleaned up by regulatory agencies. Within the IR program, two operable units (OUs) have been

identified. A remedial investigation and feasibility study (RI/FS) workplan has been developed for OU 1 and was reviewed by the BRAC Cleanup Team (BCT) at the January 1995 BCT meeting. The OU 2 RI/FS workplan was submitted to the Navy for review on January 12, 1995.

Since the last edition of this BCP, progress has been made in several program areas including the IR program, BRAC program, and tank program. Listed below are major 1994 milestones for each program.

IR program:

- RI/FS workplans for OUs 1 and 2 submitted to the BCT for review.
- Restoration Advisory Board (RAB) members were selected and oriented to the IR, BRAC, and tank programs.
- Held first RAB meeting open to the community.

BRAC Program

- Final EBS (Phase I evaluation and assessment) report completed.
- Site Screening (Phase II assessment) of Group I study areas completed.
- Site Screening Workplan for Groups II, III, IV, and V submitted for Navy review.
- First Finding of Suitability to Transfer (FOST) written and completed for Building 325.

Tank Program:

- Draft Tank Management Plan submitted to the Navy for review in January 1995.
- Tank Inventory Management System (TIMS) for NTC, Orlando updated.

Key Restoration and Transferability Strategies and Schedules

POIs are being evaluated using site screening. Screened areas are categorized as either suitable for transfer, or recommended for primary risk evaluation and RI/FS, as appropriate. A Project Operations Plan provides base-wide guidance for conducting these field investigations.

The 42 study areas identified by the EBS have been broken down into 5 groups for site screening purposes. The first group, consisting of 10 sites, has already been investigated and the results have been discussed at the January 1995 BCT meeting. Site screening for Group II is scheduled to begin in January/February 1995. Site Screening workplans for Groups III, IV, and V were submitted to the Navy in December 1994.

All ASTs and USTs are being considered for removal prior to property transfer. The TMP incorporates the priority and schedule for tank removal and testing of tank areas for contamination.

NTC, Orlando is currently shifting its focus from operations to closure. The facility graduated its last recruit class in December 1994. In addition the Navy, with the help of the BCT, will prioritize investigative areas based on transfer priority.

#### Summary of Current BCP Action Items

Table ES-1 is a listing of recommendations and issues associated with environmental restoration, compliance, and technical and management action items that require further evaluation and implementation by the BCT.

**Table ES-1  
Base Realignment and Closure (BRAC) Cleanup Team (BCT) Project Team Action Items**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Action Item	Program Review Item	Status		
		To Be Performed	In Progress	Completed
<b>COMPLIANCE ACTIVITIES</b>				
UST and AST removal and compliance				
Continue operation of regulated USTs according to Alternative Procedures Agreement.	16		X	
Determine status of tanks at Buildings 2018, 7175 A and B, and 2273 1 through 4.	16		X	
Remove unregulated USTs.	16	X		
Inspect ASTs for leaks.	16	X		
Install overfill protection around ASTs.	16	X		
Develop BRAC Tank Management Plan	16		X	
Hazardous Materials and Waste Management				
Implement activities			X	
Close satellite accumulation areas in accordance with 40 CFR 262 and State regulations.	16	X		
Asbestos				
Document condition of ACM and incorporate into report for new property owners.	16		X	
Remediate damaged ACM prior to property disposal.	16	X		
Radon				
Document radon assessment data and incorporate into report for new property owners.	16			X
Air Emission and Pollution Permits				
Conduct air emissions inventory	16			X
Identify permits to be transferred to new owners	16	X		
Identify permits to be surrendered	16	X		
Lead-Based Paint (LBP)				
Identify housing constructed before 1960, inspect for LBP and LBP hazards, and abate.	16		X	
Identify housing constructed between 1960 and 1978, inspect for LBP and LBP hazards, and inform new owners.	16		X	
Inform prospective purchasers of lead hazards; include lead warning statement in contract for sale or lease.	16	X		
Unexploded Ordnance (UXO)				
Coordinate with Air Force to identify areas of potential UXO at McCoy Annex	16 and 15		X	
See notes at end of table.				

**Table ES-1 (Continued)  
BCT/Project Team Action Items**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Action Item	Program Review Item	Status		
		To Be Performed	In Progress	Completed
<b>CERCLA 120 (b)(3) CONSIDERATIONS</b>				
Environmental condition of the property				
Perform initial EBS to categorize all properties by environmental condition.	9			X
Perform further evaluations of "grey" areas.	15		X	
Perform final EBS, just prior to transfer, to ensure suitability for transfer.		X		
Suitability for property transfer				
Determine required and acceptable deed restrictions or controls.	32		X	
Integrate disposal and reuse priorities into restoration and compliance scheduling.	17, 18, and 31		X	
Revise base reuse parcel map as necessary.	9 and 28		X	
Develop IR program RI/FS workplan.	16		X	
Implement IR program RI/FS workplans.	16	X		
<b>NATURAL AND CULTURAL RESOURCES STRATEGY</b>				
Conduct inventory and evaluation of all properties as specified in regulations (36 CFR part 800).	16		X	
<b>COMMUNITY INVOLVEMENT AND STRATEGY</b>				
Information transfer				
Publish points of contacts for base information on BRAC cleanup actions.	14		X	
Develop a list of speakers for community groups.	14		X	
Publish information on restoration and disposal progress frequently.	14		X	
Hold informal and formal meetings as appropriate.	14		X	
Establish and maintain a public repository to make documents available to public.	14		X	
Maintain community involvement				
Conduct 30-day public comment periods on proposed actions and respond to all comments.	14	X		
Update CRP as needed.	14		X	
Establish Restoration Advisory Board per Navy and DOD guidance.	14			X
Provide an opportunity for public comment on removal actions for the base.	14	X		
See notes at end of table.				

**Table ES-1 (Continued)**  
**BCT/Project Team Action Items**

Base Realignment and Closure Cleanup Plan  
 Naval Training Center  
 Orlando, Florida

Action Item	Program Review Item	Status		
		To Be Performed	In Progress	Completed
<b>MANAGEMENT AND ADMINISTRATIVE SUPPORT ACTIVITIES</b>				
Establish and maintain database for information management.	21		X	
Notes: UST = underground storage tank. AST = aboveground storage tank. CFR = Code of Federal Regulations. ACM = asbestos-containing material. CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act. EBS = Environmental Baseline Survey. IR = Installation Restoration. RI/FS = Remedial Investigation and Feasibility Study. CRP = Community Relations Plan. DOD = Department of Defense.				

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## GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
ACM	asbestos-containing material
adj.	adjacent
Ag	silver
AJT	AJT & Associates
AMP	Asbestos Management Plan
APA	Alternative Procedures Agreement
ARAR	applicable or relevant and appropriate requirement
AST	aboveground storage tank
BCP	BRAC Cleanup Plan
BCT	BRAC Cleanup Team
BEC	BRAC Environmental Coordinator
BEQ	bachelors enlisted quarters
bls	below land surface
BRAC	Base Realignment and Closure
BSP	Background Sampling Plan
BTC	Base Transition Coordinator
Btu	British thermal unit
CA	contamination assessment
CAD	computer-aided design
CAR	Contamination Assessment Report
CBU	Construction Battalion Unit
CEMI	Cape Environmental Management, Inc.
CERFA	Community Environmental Response Facilitation Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFC	chlorofluorocarbon
CFR	Code of Federal Regulations
CH	chapter
CLEAN	Comprehensive Long-term Environmental Action, Navy
CNET	Chief of Naval Education and Training
CNO	Chief of Naval Operations
CRP	Community Relations Plan
DeCA	Defense Commissary Agency
DERP	Defense Environmental Restoration Program
DFAS	Defense Finance Accounting Service
DOD	Department of Defense
DPDO	Defense Property Disposal Office
DQO	data quality objective
dr	drum
DRMO	Defense Reutilization and Marketing Office
EBS	Environmental Baseline Survey
ECE	Environmental Compliance Evaluation
EDC	Economic Development Conveyance
EIS	Environmental Impact Statement
ENSAFE	Environmental and Safety Designs, Inc.
EO	Executive Order

GLOSSARY (Continued)

EPCRA	Environmental Policy Community Right to Know Act
EPIC	Environmental Photographic Interpretation Center
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
FECP	facilities environmental compliance profile
FY95	fiscal year 1995
FOSL	finding of suitability to lease
FOST	finding of suitability to transfer
FSP	Field Sampling Plan
ft	feet, foot
FY	fiscal year
G	generator
gal	gallon
GOAA	Greater Orlando Aviation Authority
GP	grease pit
HASP	Health and Safety Plan
HCFC	hydrochlorofluorocarbon
HHS	Health and Human Services
HMC&M	Hazardous Materials Control and Management
HQ	headquarters
HUD	Housing and Urban Development
HWMP	Hazardous Waste Management Plan
IAS	Initial Assessment Study
IR	Installation Restoration
IWMP	Industrial Waste Management Plan
LAW	Law Engineering, Inc.
LBP	lead-based paint
lbs	pounds
LNDFL	landfill
LPMP	Lead-based Paint Management Plan
LTM	long-term monitoring
LT	Lieutenant
mg/cm <sup>2</sup>	milligrams per centimeter squared
µg/l	microgram per liter
mg/l	milligram per liter
MAC	Military Airlift Command
MAP	materials analytic probe
MATS	Military Air Transport Service
MCL	maximum contaminant level
MOP	monitoring only plan
MSDS	material safety data sheet
MTBE	methyl tert-butyl ether
MWR	Morale, Welfare and Recreation

## GLOSSARY (Continued)

NAC	Naval Administrative Command
NACIP	Naval Assessment and Control of Installation Pollutants
NAPSIS	Navy Air Pollution Source Information System
NAVFAC	Naval Facilities
NCP	National Oil and Hazardous Substance Contingency Plan
NEESA	Naval Energy and Environmental Support Activity
NEPA	National Environmental Policy Act
NEX	Naval Exchange
NFRAP	no further response action planned
No.	number
NPDES	National Pollutant Discharge Elimination System
NTC	Naval Training Center
NTSC	Naval Training Systems Command
OAFB	Orlando Air Force Base
OBOD	open burning/open detonation
OEA	Office of Economic Adjustment
OHS	oil and hazardous substance
OPNAVINST	Operating Procedure Naval Instruction
OU	operable unit
O-WS	oil-water separator
PBS&J	Post, Buckley, Schuh, & Jernigan, Inc.
PCA	preliminary contamination assessment
PCB	polychlorinated biphenyl
PCE	perchloroethylene (tetrachloroethylene)
pCi/l	picoCuries per liter
PL	Public Law
PMP	PCB Management Plan
POI	point of interest
POL	petroleum, oil, and lubricants
POP	Project Operations Plan
POTW	publicly owned treatment works
PST	pesticides
ppb	part per billion
ppm	part per million
PRE	preliminary risk evaluation
PWC	Public Works Center
QAPP	Quality Assurance Project Plan
QA	quality assurance
QC	quality control
RA	remedial action
RAB	Restoration Advisory Board
RAC	Remedial Action Contractor
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
RD/RA	remedial design and remedial action
RFA	RCRA Facility Assessment

## GLOSSARY (Continued)

RI	remedial investigation
RI/FS	remedial investigation and feasibility study
RMP	Radon Management Plan
ROD	Record of Decision
RTC	Recruit Training Command
SAA	satellite accumulation area
SACM	Superfund Accelerated Cleanup Model
SAO	Sampling and Analysis Outline
SARA	Superfund Amendments and Reauthorization Act
SLF	septic leach field
SLGE	wastewater treatment plant sludge
SOUTHNAV- FACENGCOM	Southern Division, Naval Facilities Engineering Command
SPCC	Spill Prevention, Control and Countermeasures
SQGs	small quantity generators
SRC	site rehabilitation completion
SSC	Service School Command
SSP	site screening plan
SWMP	Solid Waste Management Plan
SWMU	solid waste management unit
TIMS	Tank Inventory Management System
TMP	Tank Management Plan
TSCA	Toxic Substances Control Act
UNF	un-numbered facility
USAF	U.S. Air Force
USC	United States Code
USCG	U.S. Coast Guard
USEPA	U.S. Environmental Protection Agency
USMC	U.S. Marine Corps
UST	underground storage tank
UXO	unexploded ordnance
VOC	volatile organic compound
WWMP	wastewater management plan
WWTP	wastewater treatment plant
XRF	x-ray diffraction
yr	year

## 1.0 INTRODUCTION AND SUMMARY

The three-fold purpose of this Base Realignment and Closure (BRAC) Cleanup Plan (BCP) is: (1) to summarize the status of the environmental restoration and compliance programs at Naval Training Center (NTC), Orlando, (2) to present schedules and strategies for completing restoration and meeting requirements of compliance programs, and (3) to serve as a budgeting tool through the BRAC environmental review process. Compliance programs support full restoration of the base property while protecting human health and the environment. Each strategy is necessary to meet the Department of the Defense's requirements for property disposal and reuse activities associated with installation closure.

A BCP is designed to serve as a "living document" and "road map" for the base closure process. This BCP incorporates recommendations made by the BRAC Cleanup Team (BCT) to expedite ongoing environmental restoration programs at the base. The BCT is comprised of representatives from the Navy, U.S. Environmental Protection Agency (USEPA), the Florida Department of Environmental Protection (FDEP), the installation, and ABB Environmental Services, Inc. (ABB-ES). Recognizing that more information will be available as the restoration process continues, the BCP has provisions for regular updates to incorporate new information, changes in strategy, and/or schedule modifications. Revision 2 of the BCP (this document) was prepared based on information available as of January 1995.

The BCP is divided into six chapters. Chapter 1.0 presents objectives of each environmental restoration program, introduces the BCT, provides a brief history of the installation, and describes the regional setting.

Chapter 2.0 summarizes the status of the property disposal process at NTC, Orlando and describes the relationship between that process and the environmental restoration programs.

Chapter 3.0 summarizes the history and status of the Installation Restoration (IR) program, and the community relations activities to date. This section also includes an evaluation of the environmental condition of the property based on the initial Environmental Baseline Survey (EBS; ABB-ES, 1995).

Chapter 4.0 describes the base-wide strategy for environmental restoration. This chapter also summarizes the plans for managing response actions under various compliance programs including the underground storage tank (UST) program.

Chapter 5.0 provides the master schedules of planned environmental restoration and compliance activities.

Chapter 6.0 describes the specific technical and/or administrative issues that need to be resolved and presents a strategy for their resolution.

The supporting documentation is presented in the following appendices.

Appendix A: Fiscal Year Funding Requirements and Costs.

Appendix B: Installation Environmental Restoration Documents Summary.

Appendix C: Decision Document and Record of Decision (ROD) Summaries.

Appendix D: No Further Response Action Planned (NFRAP) Summaries.

Appendix E: Conceptual Site Models.

Appendix F: Environmental Condition of Property Summary Tables.

Appendix G: Environmental Condition of Property Maps.

Appendix H: Tank Inventory Management System Database

Appendix I: Reuse Parcel Data Summary

**1.1 ENVIRONMENTAL RESPONSE OBJECTIVES.** The objectives of the environmental restoration program at NTC, Orlando are to:

- protect human health and the environment,
- help meet reuse plans established by the community, and
- comply with existing environmental statutes, including the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act (SARA), and the implementing regulations.

**1.2 BASE REALIGNMENT AND CLOSURE (BRAC) CLEANUP PLAN (BCP) PURPOSE, UPDATES, AND DISTRIBUTION.** This BCP presents the status and strategies of the NTC, Orlando environmental restoration and compliance programs. It lays out the response action approach at the installation in support of base closure. In addition, it defines the status of efforts to resolve technical issues so that continued progress and implementation of scheduled activities can occur.

The strategies and schedules presented are designed to streamline and expedite the necessary response actions to facilitate the earliest possible disposal and reuse of NTC properties. While the strategies and schedules are current as of the date of this submittal, the BCT recognizes that the BCP requires periodic updates until final base closure and property transfer have been accomplished. The first submittal was in March 1994 (Revision 0), followed by Revision 1, which was current through September 1994. This document is Revision 2 and is current through January 1995. After the first year, the frequency of updates may be revised at the discretion of the BCT.

Revisions are distributed to Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), FDEP; USEPA Region IV; Naval Facilities Engineering Command (NAVFAC) headquarters; the major claimant, Chief of Naval Education and Training (CNET); the installation; and the Restoration Advisory Board (RAB).

**1.3 BRAC CLEANUP TEAM (BCT) AND PROJECT TEAM.** The BCT is comprised of representatives from the Navy (the BRAC Environmental Coordinator [BEC] at SOUTHNAVFACENGCOM and installation personnel), USEPA, FDEP, and ABB-ES. BCT

meetings are the means of conducting periodic program reviews and reaching consensus on decisions with Federal and State regulators. The BCT is assisted by the Project Team. The Project Team provides professional consulting services to the BCT on a wide range of technical matters. Table 1-1 lists the team members and their specific roles and responsibilities.

**1.4 BRIEF HISTORY OF INSTALLATION.** This section provides a description of the NTC, Orlando complex and its ownership history, its operational history, an overview of historical hazardous materials and hazardous waste management practices, and a description of the environmental setting.

**1.4.1 Site Description** Currently, the NTC complex at Orlando, Florida, covers approximately 2,019 acres in Orange County, Florida. The complex is comprised of four noncontiguous properties: the Main Base, Area "C", Herndon Annex, and McCoy Annex. Although the Main Base and McCoy Annex are sometimes referred to by other names, the naming conventions mentioned above will be used throughout this document. A site location map is provided as Figure 1-1. Table 1-2 summarizes the acquisition of property that collectively is known as NTC, Orlando.

The majority of the operational and training facilities within the NTC complex are located at the Main Base, a 1,093-acre parcel that includes the Naval Hospital and 254 acres of lakes (Lakes Baldwin and Susannah). The Main Base lies entirely within the Orlando city limits, approximately 4 miles northeast of downtown Orlando. Area "C" is approximately 2 miles west of the Main Base off Maguire Road. Area "C" covers 45.8 acres with 4.6 acres of unusable wetlands associated with Lake Druid. Area "C" is the primary supply center for the complex. Herndon Annex occupies 54 acres on a parcel located approximately 5 miles south of the Main Base and adjacent to the city-owned Herndon Executive Airport. Herndon Annex provides research, design, development, testing, evaluation, procurement, fabrication, maintenance, and logistic support for naval training devices and equipment. A supply warehouse is also located at Herndon Annex. The most distant of the remote areas is McCoy Annex. McCoy Annex occupies 826 acres in Pinecastle, Florida, 12 miles south of the Main Base and west of the Orlando International Airport. McCoy Annex serves mainly as a housing and community support activity for the NTC complex.

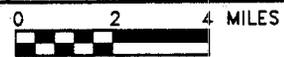
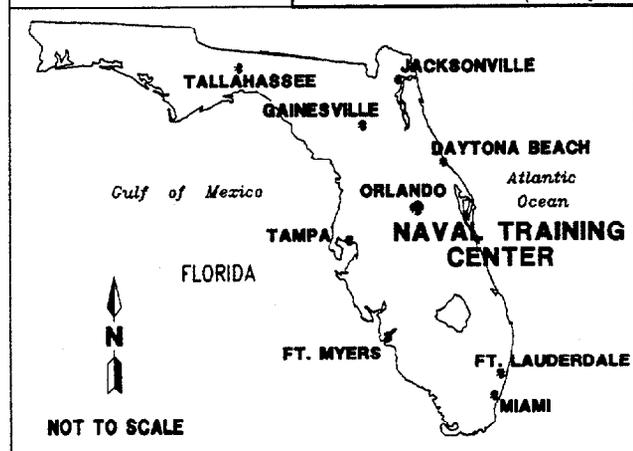
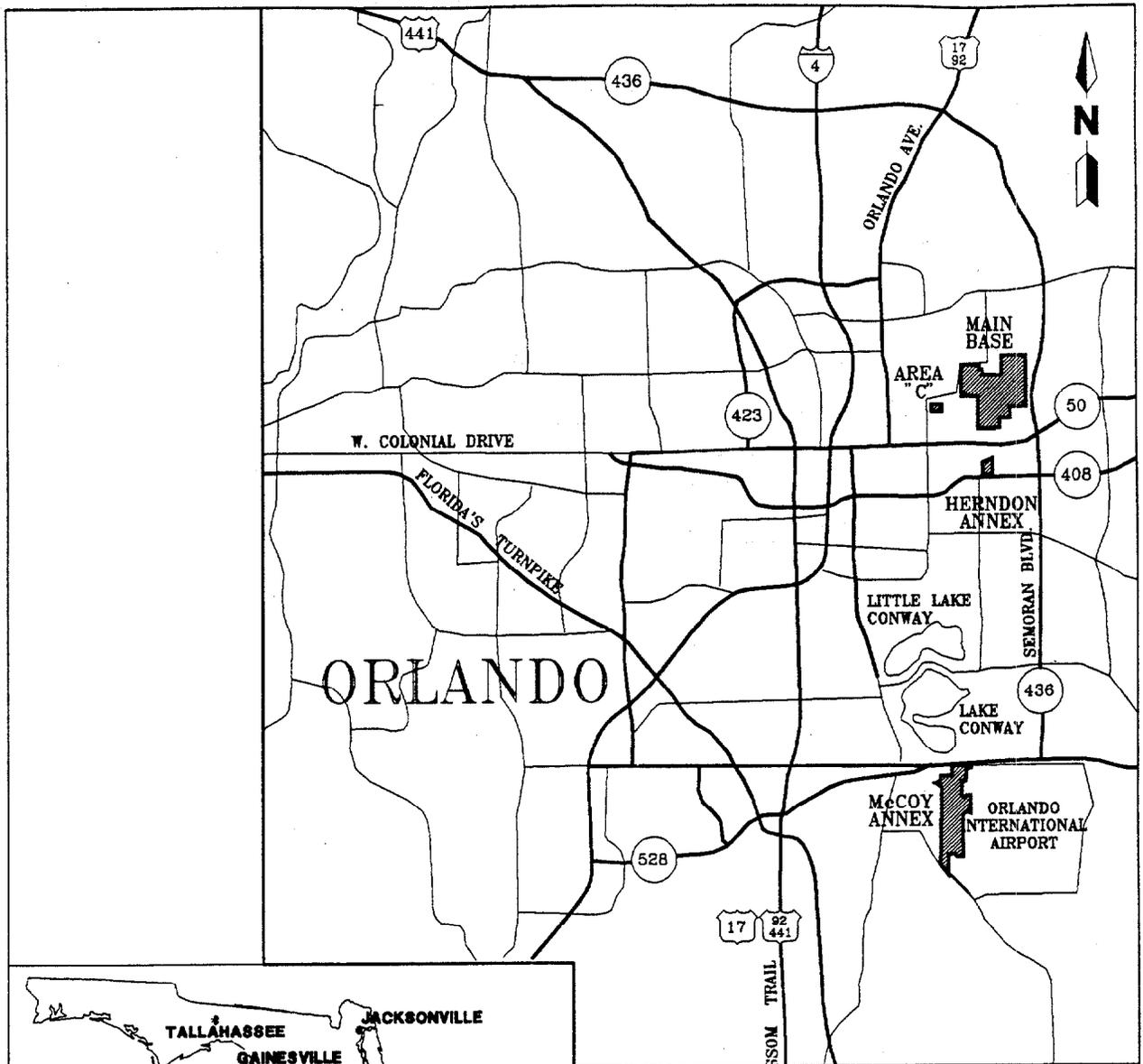
As seen on Figures 1-2 and 1-3, the primary existing land use surrounding the Main Base is residential. A small area of commercial land use borders the southern and southwestern property line. Area "C" is surrounded by residential land use to the north and southwest, an office park to the east, undeveloped land to the southeast, and Lake Druid to the northwest. The Herndon Annex is bordered by a single-family residential area on the east, and the Herndon Airport on the north, west, and south. McCoy Annex is directly west of Orlando International Airport. McCoy Annex is bounded on the north by the Beeline Expressway and commercial development farther north. Industrial, agricultural, and vacant land uses are to the west and south (SOUTHNAVFACENGCOCM, 1985).

**1.4.2 Operational History** The history of NTC, Orlando dates to the inception of the Orlando Municipal Airport prior to 1940. In August 1940, the municipal airport was taken over by the Army Air Corps. Shortly thereafter, the construction program for Orlando Air Base began, culminating in its official opening on December 1, 1940. During the following 2 years, the Army Air Corps acquired additional property and auxiliary landing fields were built in the surrounding

**Table 1-1  
Current BCT and Project Team Members**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Name	Organization	Phone	Role or Responsibility
<b>BCT Members</b>			
Wayne Hansel	SOUTHNAVFACENGCOM	(803) 743-0572 Fax: (803) 743-0465	BRAC Environmental Coordinator
Nancy Rodriguez	U.S. Environmental Protection Agency	(404) 347-3555 (ext. 2062) Fax: (404) 347-1735	Remedial Project Manager
David Clowes	FDEP	(904) 488-3935 Fax: (904) 922-4939	Remedial Project Manager
Capt. Harry Smith	NTC, Orlando	(407) 646-5301 Fax: (407) 646-4530	Base Transition Coordinator
LCDR Catherine Ballinger	NTC, Orlando	(407) 646-4735 Fax: (407) 646-4197	NTC Public Works Officer
Jim Manning	ABB Environmental Services, Inc.	(904) 269-7012 Fax: (904) 264-5632	Installation Restoration Program Manager
<b>Other Key Participants</b>			
Susan Goggin	FDEP	(904) 487-2231	Natural Resources Trustee
Eric Nuzie	FDEP	(904) 488-3935 Fax: (904) 922-4939	Federal Facilities Coordinator
James Crane	FDEP	(904) 488-3935 Fax: (904) 922-4939	Federal Facilities Coordinator Alternate
Barbara A. Nwokike	SOUTHNAVFACENGCOM	(803) 743-0566	Installation Restoration Specialist
Brenda W. Bowman	SOUTHNAVFACENGCOM	(803) 743-0396	Hazardous Waste Specialist
David R. McMinn	SOUTHNAVFACENGCOM	(803) 743-0555	Waste Water Specialist
Mary Stebelski	SOUTHNAVFACENGCOM	(803) 743-0540	Air and Solid Wastes Specialist
Archie Browder	SOUTHNAVFACENGCOM	(803) 743-0516	Lead, Asbestos, and Radon Specialist
Joel Sanders	SOUTHNAVFACENGCOM	(803) 743-0562	Solid Waste Specialist
Luis Vazquez	SOUTHNAVFACENGCOM	(803) 743-0613	Underground Storage Tank Specialist
Rob Harrell	SOUTHNAVFACENGCOM	(803) 743-0551	PCB Specialist
Lewis Murray	USGS, Orlando	(407) 865-7575	Geology and Hydrology Specialist
<b>Consultants</b>			
Mark Salvetti	ABB Environmental Services, Inc.	(617) 245-6606 Fax: (617) 246-5060	Installation Restoration Project Engineer
Mark Diblin	ABB Environmental Services, Inc.	(904) 656-1293 Fax: (904) 877-0742	Underground Storage Tank Program Manager
Philip Georgariou	ABB Environmental Services, Inc.	(904) 269-7012 Fax: (904) 264-5632	Program Manager
Oscar N. (Mac) McNeil	Bechtel Environmental, Inc.	(615) 220-2745 Fax: (615) 220-2748	RAC Program Manager
Ben Breedlove	Breedlove, Dennis, & Associates, Inc.	(407) 677-7882 Fax: (407) 677-7008	City Reuse Commission Environmental Subcommittee Chairman
William Zegel	Water & Air Research, Inc.	(904) 372-1500	EIS Project Manager
Notes: BCT = Base Realignment and Closure (BRAC) Cleanup Team. SOUTHNAVFACENGCOM = Southern Division, Naval Facilities Engineering Command. FDEP = Florida Department of Environmental Protection. Capt. = Captain.		BRAC = Base Realignment and Closure. NTC = Naval Training Center. LCDR = Lieutenant Commander. PCB = polychlorinated biphenyl. USGS = U.S. Geologic Survey. RAC = Remedial Action Contractor. EIS = Environmental Impact Statement.	



**FIGURE 1-1  
SITE LOCATION MAP**



**BASE REALIGNMENT AND CLOSURE  
CLEANUP PLAN**

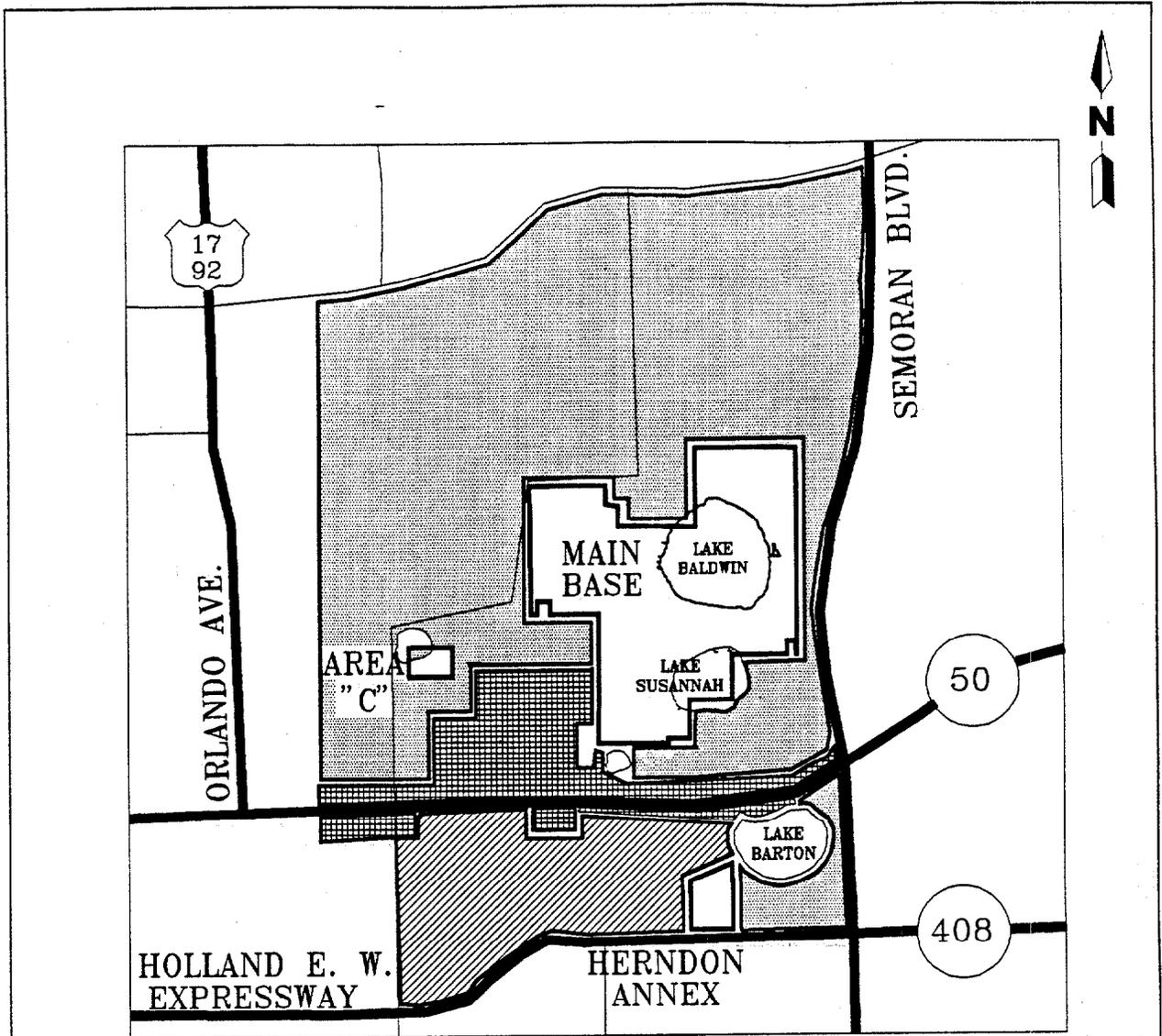
**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**

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**Table 1-2  
Property Acquisition Summary Table**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Tract or Parcel No.	Previous Land Owner or Description	Acreage	Acquisition Date
<b>Main Base, Herndon Annex, and Area "C"</b>			
I	Transfer from Air Force, Herndon Annex (parcels A-45, A-47, 347, and Signal Hill)	31.29	07/01/68
II	Transfer from Air Force, Naval Training Center	495.69	07/01/68
III	Transfer from Air Force, Herndon Annex (parcels A-46, A-48, and Signal Hill)	22.73	07/01/68
IV	Transfer from Air Force, Warehouse (parcel 414-2, Area "C")	45.80	07/01/68
V	Transfer from Air Force, Naval Training Center	634.13	07/01/68
	- sold to city of Orlando	(10.45)	
	- sold to Florida Department of Transportation	(13.86)	
	- sold to city of Winter Park	(10.02)	
	- sold to city of Orlando	(3.47)	
	- corrected by General Services Administration survey	(2.22)	
	- sold to Orlando Utility Commission	(2.52)	
	Tract V Total =	591.59	
VI	McCroy Holding Company	0.37	07/01/68
	Charles Azar <u>et ux</u>	0.14	07/01/68
	Henry H. Roth	0.11	07/01/68
	Tract VI Total =	0.62	07/01/68
VII	A.P. Michaels <u>et ux</u>	none	07/01/68
	Ward, Barnum, and Schutz, Inc.	0.23	07/01/68
	Ledford and Grinnell	0.29	07/01/68
	Cox W. Jamerson	0.79	07/01/68
	Charles Azar and Dele Azar	0.10	07/01/68
	City of Orlando	2.17	07/01/68
	Coy W. Jamerson	0.97	11/17/78
	Charles Azar <u>et ux</u>	0.11	11/17/78
	No document	0.47	11/17/78
	Tract VII Total =	5.13	11/17/78
VIII	Crossed out		
IX	Reserved in deed to city of Orlando		
X	A.P. and Clara B. Michaels; water line, public works has copy of easement	0.18	
<b>McCoy Annex</b>			
I	Transfer from Air Force	872.50	07/01/74
	- deeded to city of Orlando (water system)	(0.70)	02/04/80
	- deeded to city of Orlando (railroad)	(8.97)	03/30/79
	- deeded to city of Orlando	(37.97)	01/23/84
	Tract I Total =	824.86	
II	Transfer from Air Force	0.76	09/08/80
III	City of Orlando	12.34	01/25/84
Notes: <u>et ux</u> = and wife. ( ) = property transferred to other parties.			



SOURCE: NAVAL COMPLEX ORLANDO, FLORIDA 1985 MASTER PLAN  
 UPDATE: SOUTH DIV. NAV. FAC. ENG. COM.

**LEGEND**

	COMMERCIAL		NAVAL FACILITIES
	RESIDENTIAL		HERNDON AIRPORT

0 .5 1 MILE  
  
 SCALE: 1" = 1 MILE

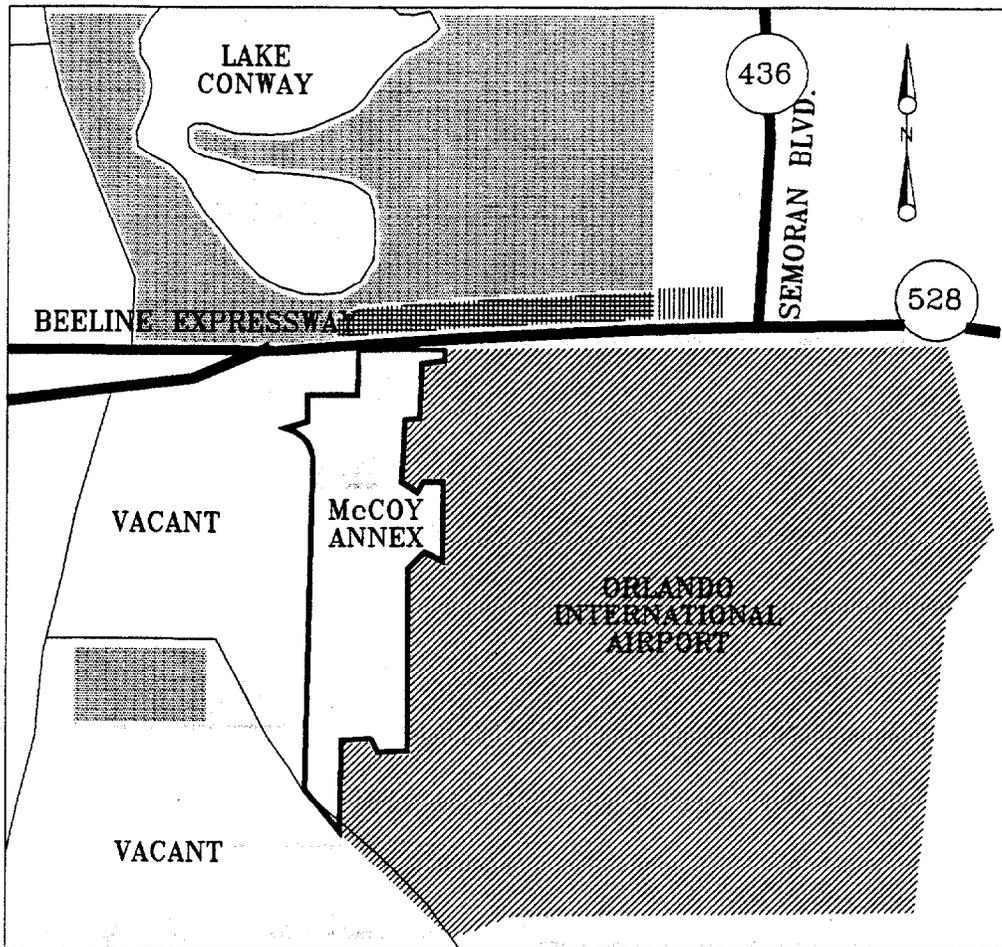
**FIGURE 1-2**  
**SURROUNDING LAND USE, MAIN BASE,**  
**HERNDON ANNEX, AND AREA 'C'**

**BRAC CLEANUP PLAN**

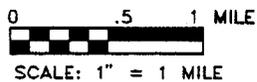


**NAVAL TRAINING CENTER**  
**ORLANDO, FLORIDA**

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SOURCE: NAVAL COMPLEX ORLANDO, FLORIDA 1985 MASTER PLAN  
 UPDATE. SOUTH DIV. NAV. FAC. ENG. COM.



**FIGURE 1-3**  
**SURROUNDING LAND USE, McCoy ANNEX**



**BASE REALIGNMENT AND  
 CLOSURE CLEANUP PLAN**

**NAVAL TRAINING CENTER  
 ORLANDO, FLORIDA**

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area. The Army Air Corps conducted operations at the Main Base and Area "C" from 1940 to 1947.

In 1947, the U.S. Air Force assumed command of Orlando Air Base and renamed it the Orlando Air Force Base (OAFB). The base was deactivated on October 28, 1949, and remained on standby status until January 1, 1951, when it was reactivated as an Aviation Engineers training site. Other Air Force units arrived and the Military Air Transport Services (MATS, later the Military Airlift Command [MAC]) assumed full jurisdiction of the base in 1953.

The Navy began moving its Training Device Center from Port Washington, New York, to OAFB on September 15, 1965, and finished the move in June 1967. In 1968 the Air Force ceased operations at OAFB, Area "C," and Herndon Annex. The property was commissioned as the Naval Training Center, Orlando on July 1, 1968.

The history of McCoy Annex dates to 1941 with the construction of Orlando Municipal Airport No. 2 in Pinecastle, Florida. The new airport was needed due to acquisition of the original municipal airport for construction of Orlando Air Base to the north. Prior to construction of the new airport, the property was undeveloped swampland. In 1942 the city leased the Pinecastle property to the Army Air Corps, which acquired additional lands and constructed Pinecastle Army Air Field. The field was ready for operation in April 1943.

At the end of World War II, the base was deactivated and the property was returned to the city. The terms of the property transfer included a "reverter for reactivation" clause in case of a national emergency. This clause was exercised in 1952 during the Korean Conflict and the base was reopened as Pinecastle Air Force Base. The base was renamed McCoy Air Force Base in honor of Colonel Michael N.W. McCoy on May 7, 1958. On August 5, 1959, the Capehart Housing project, a large construction program consisting of 668 family quarters for officers and airmen, was begun. The last unit was completed in March 1961. The Air Force retained command of the base until its closure in 1973. At that time, the Navy acquired title to part of the property and changed the name to McCoy Annex.

McCoy Annex was acquired to serve as a community support annex to the NTC. The majority of the property, including runways, aircraft hangars, and maintenance facilities previously used by the Air Force, was never acquired by the Navy. That property is currently owned and used by the Orlando International Airport.

#### 1.4.3 Historical Hazardous Materials and Hazardous Waste Management Practices

The stated mission of NTC, Orlando is to exercise command over, and coordinate recruit training for enlisted personnel; provide initial skill, advanced, and/or other specialized training for officer and enlisted personnel of the regular Navy and Naval Reserve; and to support other activities as directed by a higher authority. In support of this mission, hazardous materials have been used and waste products generated, first by the Army Air Corps, later by the Air Force, and currently by the Navy.

**1.4.3.1 Historical Activities** Through accidental spills, leaks, and conventional waste disposal practices prior to 1984, hazardous materials have come into contact with the environment in ways that are unacceptable by today's standards. Waste storage, handling, and disposal practices employed from the early 1940's through 1985 were investigated by way of a records search, onsite surveys, and interviews with persons having knowledge of past operations.

The investigations indicate that most of the hazardous materials and petroleum products usage at NTC, Orlando is, and has been, associated with industrial operations in support of ground vehicles, photographic processing, and base maintenance. Waste disposal was by means of onsite landfills and discharges to wastewater treatment plants (WWTP) and Lake Baldwin. A history of installation operations at the Main Base, Area "C," and Herndon Annex from the 1940's to the present day is summarized in Table 1-3. Accompanying Table 1-3 are Figures 1-4 and 1-5 that show the locations of the referenced activities at the Main Base and Area "C," respectively.

Various recent surveys have identified other areas with past hazardous substances usage. After publication of the draft EBS report, several concrete pads were found at Herndon Annex. These pads were used for aircraft turnarounds. Often, refueling and maintenance were performed on these pads. As a result, investigations were to be performed using Terraprobos<sup>SM</sup>. Before investigations began, it was discovered that large sections of Herndon Annex have suspect landfilling activities. As a result, Herndon Annex will be fully investigated through site screening. No areas at Herndon Annex have been designated as sites yet. As a result, a figure has not been included.

During the August BCT meeting, discussions were held regarding evidence of landfilling operations at Herndon Annex. Since that meeting, six monitoring wells and one background sampling well have been installed. In addition, geophysical work has been conducted to ascertain the nature and extent of the landfilling activities. Five more wells are planned to be installed during February 1995.

A history of installation operations at McCoy Annex is presented in Table 1-4 and depicted on Figure 1-6. Included in Tables 1-3 and 1-4 and shown on Figures 1-4, 1-5, and 1-6 are the disposal and spill sites at NTC, Orlando that were identified in the Initial Assessment Study (IAS; C.C. Johnson and Associates, Inc., 1985) and the follow-up Verification Study (Geraghty & Miller, 1986). A brief description of each site is provided in Subsection 3.1.1.

There is limited information available concerning the activities of the Air Force while at Orlando. As a result, ABB-ES has been contracted by the Navy to investigate the activities of the Air Force while at Orlando. The BCT will continue to study this issue.

**1.4.3.2 Ongoing Activities** In February 1994, hazardous materials usage was examined through Resource Conservation and Recovery Act (RCRA) reporting requirements. The waste generating activities at NTC, Orlando as of February 1994 are summarized in Table 1-5.

The principal units generating hazardous waste at the Main Base are the Service School Command (waste oils and gases), Public Works (waste paint and waste oil), and the Navy Exchange Service Station, Main Base (lead and acid batteries and waste oils).

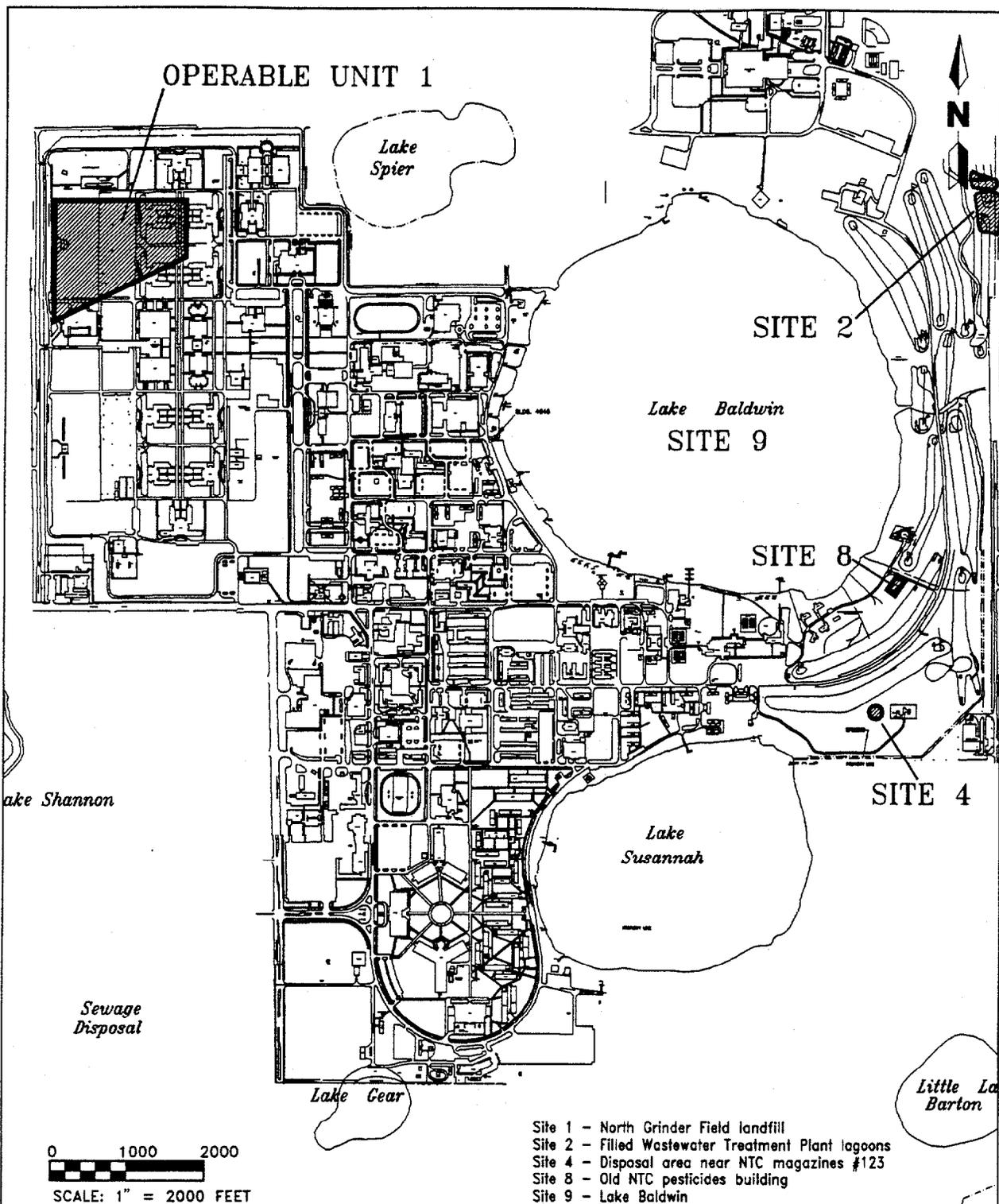
The largest waste generator in Area "C" is the dry cleaning facility where waste solvent cartridges and still bottoms from the redistillation of perchloroethylene (PCE; also known as tetrachloroethene) are generated. Area "C" is also the location of the Defense Reutilization and Marketing Office (DRMO). DRMO manages hazardous wastes generated throughout the base. Hazardous waste containers remain on the property of the generator until DRMO's commercial contractor takes custody

**Table 1-3  
History of Installation Operations at Main Base, Area "C," and Herndon Annex**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Period	Type of Operation	Weapon System	Hazardous Substance Activities	Map Reference (See Figures 1-4 and 1-5)
Pre-1940	Orlando Municipal Airport No. 1	None	Unknown	NA
1940-1949	Orlando Air Base and Orlando Air Force Base	Unknown	Landfilling of spent solvents, still bottoms, medical waste, and x-ray film processing waste. Discharge of hospital chemicals to WWTP. Storage of POL, coal, paint, and chemicals.	Sites 1, 2, and 5
1949-1951	Inactive	None	None.	NA
1951-1968	Orlando Air Force Base	Matador missiles	Discharge of photochemicals to Lake Baldwin. Discharge of film processing and printing wastes, and hospital chemicals to WWTP. Landfilling of photochemicals, spent solvents, PCE still bottoms, solvent contaminated filter media, medical waste, x-ray film processing waste, waste paint, batteries, caustic, and acids. Storage of chemicals, POL, transformers, coal, hazardous waste, and pesticides.	Sites 1, 2, 5, 8, 9
1968-present	NTC, Orlando	None	Discharge to WWTP of film processing and printing wastes, and hospital chemicals. Landfilling of pesticides, and fuel (fire-fighting training). Storage of waste oil, spent solvents, solvent contaminated filter media, auto batteries, POL, mineral spirits, transformers, pesticides, asbestos, lead and lead air filters, tricell batteries, dental wastes, hazardous waste, waste paint, caustic, acids, and ordnance.	Sites 2, 4, 5, 8, and 9

Notes: No. = number.  
NA = not applicable.  
WWTP = wastewater treatment plant.  
POL = petroleum, oils, and lubricants.  
PCE = perchloroethylene.  
NTC = Naval Training Center.



- Site 1 - North Grinder Field landfill
- Site 2 - Filled Wastewater Treatment Plant lagoons
- Site 4 - Disposal area near NTC magazines #123
- Site 8 - Old NTC pesticides building
- Site 9 - Lake Baldwin

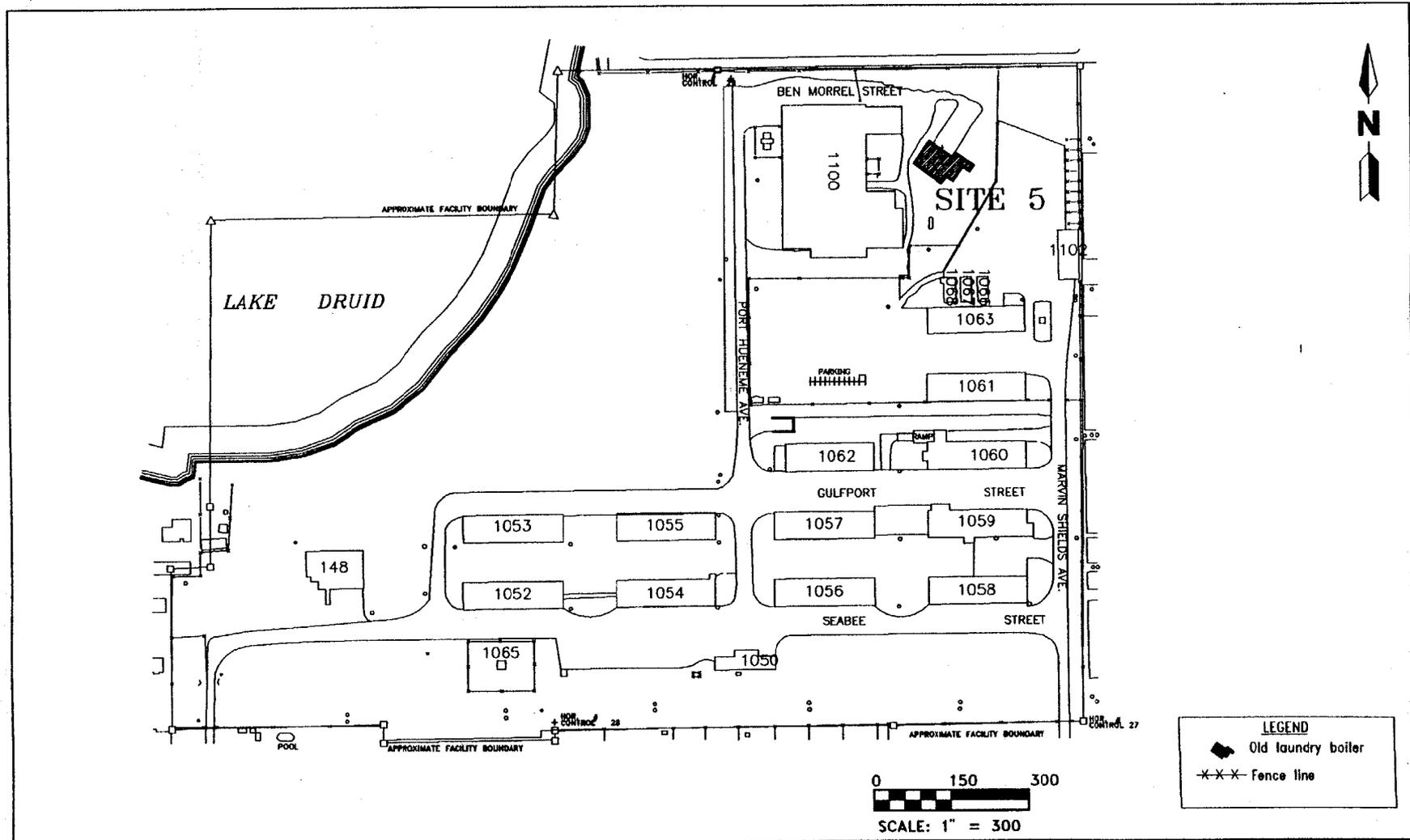
**FIGURE 1-4  
DISPOSAL AND SPILL SITES AT  
MAIN BASE**



**BASE REALIGNMENT AND CLOSURE  
CLEANUP PLAN**

**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**

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**FIGURE 1-5  
DISPOSAL AND FILL SITE AT  
AREA-C**



**BASE REALIGNMENT AND CLOSURE  
CLEANUP PLAN**

**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**

**Table 1-4  
History of Installation Operations, McCoy Annex**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Period	Type of Operation	Weapon System	Hazardous Substance Activities	Map Reference (See Figure 1-6)
Pre-1941	Undeveloped swampland	None	Unknown	NA
1941-1942	Orlando Municipal Airport No. 2	None	Unknown	NA
1942-1946	Orlando Army Air Field No. 2 and Pinecastle Army Air Field	B-17 Flying Fortresses (training).	Storage of POL and pesticides	NA
1946-1952	Orlando Municipal Airport No. 2	None	Unknown	NA
1952-1973	Pinecastle Air Force Base (1952-1958); McCoy Air Force Base (1958-1973)	B-52 Stratofor- tresses.	Landfilling of yard waste, paper, plastic, scrap metal, wood, pipe, paint and paint thinner, asbestos, bricks, airplane parts, cables, fire hoses, parachutes, auto batteries, transformers, medical waste, low-level radioactive waste <sup>1</sup> , and waste oil. Storage of waste oil, antifreeze, transmission and hydraulic fluid, auto batteries, pesticides, medical waste, and POL.	Sites 3 and 6
1973-present	McCoy Annex (NTC, Orlando)	None	Landfilling of yard waste, paper, plastic, scrap metal, wood, pipe, paint and paint thinner, asbestos, bricks, airplane parts, cables, fire hoses, parachutes, auto batteries, transformers, medical waste, low-level radioactive waste <sup>1</sup> , waste oil, and building debris. Storage of waste oil, antifreeze, transmission and hydraulic fluid, batteries, pesticides, medical waste, and POL.	Sites 3, 6, and 7

<sup>1</sup> Reported in the Verification Study, Geraghty & Miller, 1986.

Notes: NA = not applicable.  
No. = number.  
POL = petroleum, oil, and lubricants.  
NTC = Naval Training Center.

# McCOY ANNEX

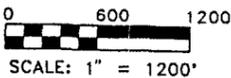
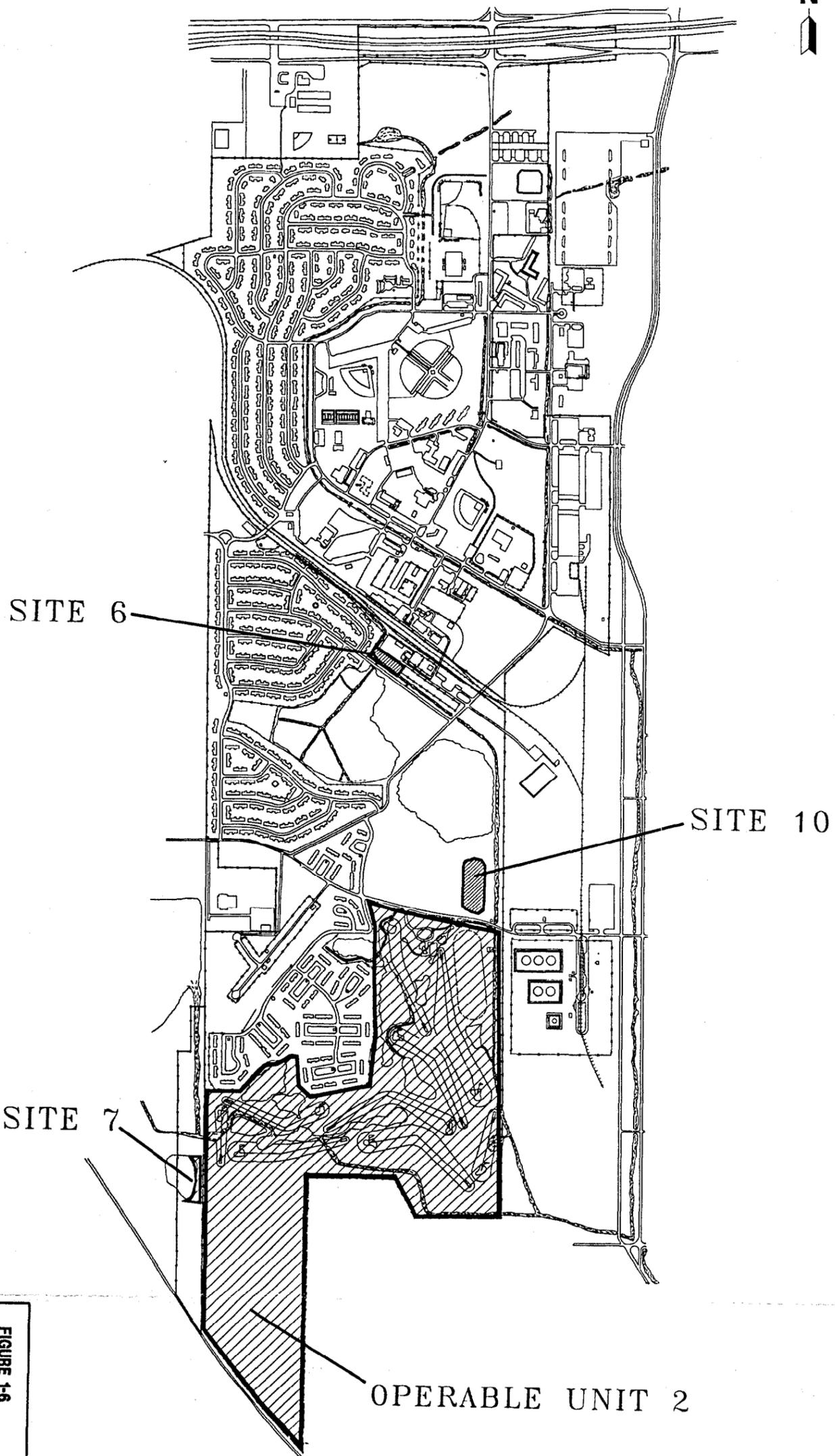


FIGURE 1-6  
DISPOSAL AND LANDFILL SITES AT  
McCOY ANNEX



BASE REALIGNMENT AND CLOSURE  
CLEANUP PLAN  
NAVAL TRAINING CENTER  
ORLANDO, FLORIDA

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**Table 1-5  
Hazardous Waste Generating Activities as of February 1994**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Hazardous Waste Generators	Waste Type	Quantity Stored (lbs. per year)	Quantity Recycled (lbs. per year)	Quantity Disposed (lbs. per year)
Naval Air Warfare Center Training Systems Division (NAWCTSD)	Waste paint thinner and lacquer	50	0	150
	Waste perchloroethylene	0	0	965
U.S. Army Reserve Motor Pool (Tank 7175A removal), McCoy Annex	Waste gasoline	0	0	1,761
	Waste diesel	450	0	0
Navy Exchange Service Station, Herndon Annex	Petroleum, naptha	0	0	329
	Lead and acid batteries	0	100	0
Navy Exchange Laundry "Area C"	Waste corrosive liquid	0	0	595
	Waste naptha and detergent liquid.	0	0	420
	Waste naptha	0	0	795
	Waste naptha filters	0	0	1,105
DRMO, Area "C"	Waste batteries, nickel cadmium	0	0	1,660
	Lead and acid batteries	0	1,000	0
Construction Battalion Unit 419 (SEABEES), Area "C"	Petroleum, naptha	0	1,280	511
RTC, Main Base	Waste grease	0	0	47
	Waste oxidizing substances	0	0	36
	Waste flammable liquids, polyurethane paints.	0	0	106
	Waste lead dust	624	0	0
Naval Dental Clinic, Main Base	Waste silver amalgam	0	0	52
Public Works Department, Main Base	Waste flammable liquid	0	0	880
	Waste paint	200	0	1,747
	Waste sodium potassium alloy.	0	0	6

See notes at end of table.

**Table 1-5 (Continued)**  
**Hazardous Waste Generating Activities as of February 1994**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Hazardous Waste Generators	Waste Type	Quantity Stored (lbs. per year)	Quantity Recycled (lbs. per year)	Quantity Disposed (lbs. per year)
SSC, Underwater weapons, Main Base	Waste driveway sealer	0	0	470
	Waste compressed gas	0	0	10
	Waste petroleum naptha	0	2,070	1,561
Defense Printing Services Detachment Branch Office, Main Base	Silver nitrate solution	0	107	0
	Silver nitrate film	0	87	0
D & D Services (Transporta- tion Contractor) Main Base (GOCO)	Lead and acid batteries	0	0	2,466
Navy Exchange Service Sta- tion, Main Base	Lead and acid batteries	0	0	2,466
	Waste petroleum, naptha	0	2,070	1,561
MWR Auto Hobby Shop, Main Base	Lead and acid batteries	0	0	2,466
	Waste petroleum, naptha	0	2,070	1,561
<p>Notes: lbs. = pounds.  DRMO = Defense Reutilization and Marketing Office.  RTC = Recruit Training Command.  SSC = Service School Command.  GOCO = government-owned, contractor-operated.  MWR = Morale, Welfare, and Recreation.</p>				

of them and transports the containers to an offsite hazardous waste management facility.

Herndon Annex produces small quantities of metal etchant waste, paint thinner waste, and metal filings in coolant oil as a function of the activities at the Naval Training Equipment Center in Building 606.

Generators at the McCoy Annex have included the Motor Pool, the Medical and Dental Clinic (scheduled to close in 1995), and Construction Battalion Unit 419 (now located in Area "C"). Hazardous wastes generated include waste oils and other wastes.

1.4.4 Geologic Setting NTC, Orlando is located in central and south-central Orange County on the Osceola Plain. This land form is part of the Atlantic Coastal lowlands, one of the major land forms that make up the Coastal Lowlands physiographic division of Florida. The topography varies from gently sloping to flat with the presence of numerous ponds and lakes (Geraghty & Miller, 1986).

The Main Base is located at the highest elevations of the NTC complex. Surface water is discharged into Lakes Susannah and Baldwin, which in turn discharge via a county-owned drainage canal into the Little Econlockhatchee River approximately 6 miles southeast of the Main Base. Regional drainage from the McCoy Annex is generally toward the south to the canals and tributaries that lead to the Kissimmee River. Locally, runoff flows south into Boggy Creek (Geraghty & Miller, 1986).

NTC, Orlando is underlain by several thousand feet of sediments ranging in age from Upper Eocene to Recent. The surficial sediments, which range from 0 to 200 feet in thickness, are characterized as undifferentiated sands, clays, silts, shells, and minor amounts of organic material. Underlying the surficial sediments is the Hawthorn Group, characterized by grey-green clays, clayey sand and silt, phosphatic sand, and phosphatic limestones. The Hawthorn Formation, which serves as a confining layer separating the surficial aquifer system from the underlying Floridan aquifer system, ranges from about 50 feet to 300 feet in thickness in Orange County. The Hawthorn Group unconformably overlies the Ocala Group, a highly eroded series of limestone units. The top of the Ocala Group occurs at a depth of about 200 feet below land surface (bls) in the area and ranges in thickness from 0 to about 100 feet in Orange County. The Ocala Group overlies the Avon Park and Lake City Limestones, which have a combined thickness in excess of 1,100 feet. These three limestone sequences contain the Floridan aquifer system, the principal source of water in the area (Geraghty & Miller, 1986).

Groundwater at NTC, Orlando is present in three aquifers: the surficial, the intermediate, and the Floridan aquifer system. The surficial aquifer system is mainly composed of quartz sand with varying amounts of clay and shell. The surficial aquifer system is generally found at depths ranging from near surface to approximately 40 feet bls. The intermediate aquifer underlies the surficial aquifer system and consists of permeable units within the Hawthorn Group. This aquifer generally is found at depths ranging from 60 to 150 feet bls. The Floridan aquifer system underlies the intermediate aquifer and consists of two water-producing zones: the upper zone, from 150 feet to 600 feet bls, and the lower zone, from 1,000 to 1,500 feet bls. Groundwater movement is primarily lateral through the surficial aquifer because vertical movement is impeded by the underlying clayey sediments (C.C. Johnson and Associates, Inc., 1985).

1.5 OFF-BASE PROPERTY AND TENANTS. NTC, Orlando does not have off-base properties currently listed on real property records.

**Tenant Units.** Main Base is the location of NTC Headquarters (the host command) and its major support departments including: administration; Fire Department; supply; Public Works; security; First Lieutenant; Morale, Welfare, and Recreational Services; safety; and the Navy Exchange. NTC, Orlando hosts several large tenants located on the Main Base including the Naval Nuclear Power Training Command, Service School Command, Personnel Support Activity, Naval Dental Clinic, and the Naval Hospital. Major tenants located on other parcels include Construction Battalion Unit 419 and DRMO at Area "C," Defense Commissary Agency (DeCA), Army Reserve and Florida National Guard at McCoy Annex, and Naval Air Warfare Center and Training Systems Division at Herndon Annex (Ballinger, 1994a). Table 1-6 is a list of the significant Department of the Navy tenant units and the buildings they occupy on the base. Table 1-7 is a list of non-Department of the Navy tenants (Kihune, 1992).

**Table 1-6  
Department of the Navy On-Base Tenant Units**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Organization	Building
Recruit Training Command	102, 106, 123, 125, 200, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 214, 216, 218, 220, 222, 224, 226, 228, 229, 230, 232, 234, 235, 236, 238, 240, 252, 253, 254, 255, 256, 306, 310, 2541, 2717, 2718, 2719, 2816, 2817, 4059, and 15110.
Service School Command	301, 303, 304, 305, 313, 4034, 4035, 4045, 4056, and 4057
Personnel Support Activity	235, 252, 2004, and 2006
Naval Air Warfare Central Training Systems	606, 608, 610, and 612
Naval Nuclear Power Training Center	316, 350, 354, 356, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 376, 377, 378, 379, 380, 381, 383, and 386.
Naval Hospital	246, 500, 501, 502, 503, 504, 517, 518, 519, 520, 521, 522, 523, 2266, 2709, 3126, 3128, 3129, 7201, and 7189.
Naval Dental Clinic	128 and 246
Naval Construction Battalion, Unit 419	7177, 7179, 7182, and 7183 previously; Area "C" currently

**Table 1-7  
Non-Department of the Navy On-Base Tenant Units**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Organization	Building
Defense Reutilization and Marketing Office	1061, 1063, 1066, 1067, 1068, and 1102
Florida National Guard Unit	7121 and 7190
Army Reserve Equipment Concentration Site	7168, 7169, 7170, 7171, and 7072
Defense Commissary Agency	7151 and 7153

## 2.0 PROPERTY DISPOSAL AND REUSE PLAN

This chapter of the BCP contains information regarding the status of the disposal planning process (Section 2.1) and the relationship of the disposal planning process to environmental programs (Section 2.2). The strategy for property transfer is presented in Section 2.3.

2.1 STATUS OF DISPOSAL PLANNING PROCESS. The disposal process requires two distinct yet interrelated plans: (1) an Environmental Impact Statement (EIS) and (2) the community's reuse plan. In addition to the two plans, NTC, Orlando personnel have designated priority zones for property transfer based on demonstrated interest by third parties. Priority designations are fully discussed in Section 4.1. Appendix I summarizes available information regarding transfer of base property.

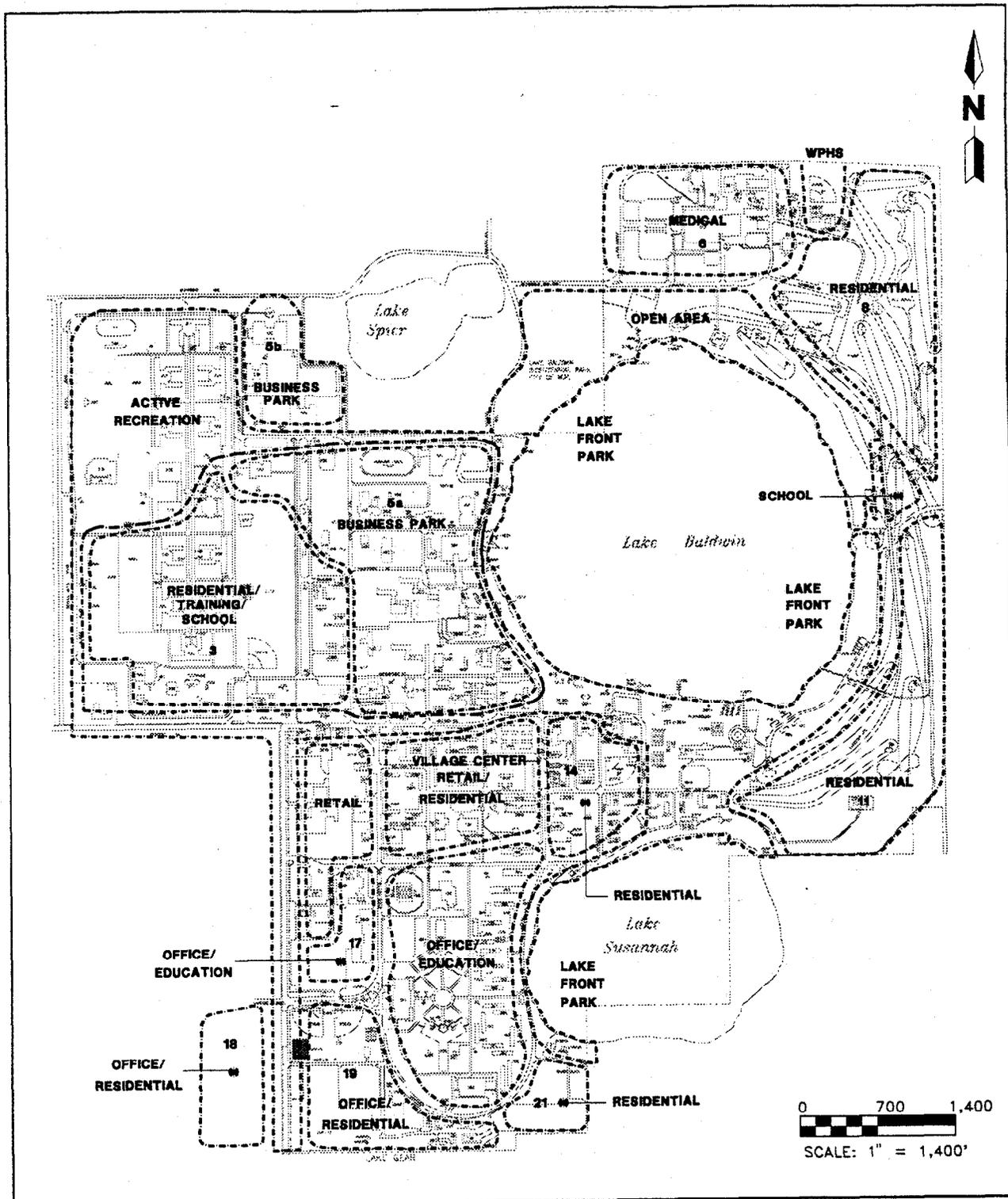
2.1.1 Environmental Impact Statement (EIS) The EIS is being developed under the guidance of the National Environmental Policy Act (NEPA). A main function of the EIS is to evaluate the environmental impact of the community's proposed reuse plans, which were originally published in October 1994. Complementary to this analysis is investigation and evaluation of NTC, Orlando's archeological, Native American, and paleontological resources and historic structures. Water & Air Research, Inc., has delivered the draft EIS to the Navy. USEPA expects to publish a notice of availability in the *Federal Register* in June 1995.

2.1.2 Community Reuse Plan After NTC, Orlando was placed on the BRAC 1993 closure list, city of Orlando Mayor, Glenda Hood, formed the Mayor's Reuse Commission for NTC, Orlando. The commission was formed to plan the future reuse of NTC property. Fostering economic and social development of the city of Orlando and central Florida was adopted by the commission as the main objective of the reuse program. The commission then began the process of developing a Community Reuse Plan, which outlines specific plans for the reuse and redevelopment of NTC properties (BRW, 1994).

In October 1994, the commission submitted to the community a draft reuse plan that included three alternatives for re-development of the base. Each alternative detailed specific reuse plans for the Main Base, McCoy Annex, Herndon Annex, and Area "C". All three alternatives discussed job creation, use of existing structures, and allowance for recreational space. Over the following months, each alternative was evaluated based on economic and environmental considerations and input from the community. The overwhelming criticism of the draft plan was that the three alternatives did not allow for enough open areas and recreational space. As a result, the commission developed a final "preferred" alternative that incorporated more open space into the development plan (BRW, 1994).

On December 30, 1994, the Mayor's Reuse Commission submitted their final Community Reuse Plan, which contains the preferred alternative for each section of the base: Main Base, McCoy Annex, Herndon Annex, and Area "C". The final plan for each of these properties is described in the following sections (BRW, 1994).

2.1.2.1 Main Base The land use plan for NTC Main Base is shown on Figure 2-1. Development of the reuse plan for Main Base is centered around the surrounding neighborhoods and transportation network. The focal point of the reuse plan is



**FIGURE 2-1**  
**PROPERTY REUSE FOR MAIN BASE**



**BRAC REALIGNMENT AND CLOSURE  
 CLEANUP PLAN**

**NAVAL TRAINING CENTER  
 ORLANDO, FLORIDA**

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the development of a Village Center. The Village Center will include ground level shops and restaurants and upper level housing. It is intended to attract area residents and people from the metropolitan area. The surrounding area will be highly pedestrian-oriented and also includes residential, retail, and office structures (BRW, 1994).

In addition to the Village Center, a business park consisting of the majority of the newer existing buildings is planned. The Navy Exchange and other areas on base will support retail opportunities. Residential, educational, medical, and office areas will also be present in the area once known as the Main Base (BRW, 1994).

To develop open areas, the reuse plan provides for an active recreational facility in the northwest corner of the base. Glenridge Middle School is located nearby and this proposed recreational facility will serve to better access the school and the community. Other open areas will connect Lake Susannah, Lake Baldwin, and the Village Center. The open space system is envisioned to include trails, picnic areas, and lawn areas (BRW, 1994).

**2.1.2.2 McCoy Annex** Figure 2-2 details the future reuse of McCoy Annex. The Annex will provide housing for the surrounding area and a multi-modal transportation network. The Reuse Plan capitalizes on the 968 existing residential units. These units would be transferred in blocks or groups of blocks and the transferee would perform all necessary repairs. These renovated units would sell for \$40,000 to \$60,000 and would allow for much needed housing for the surrounding area (BRW, 1994).

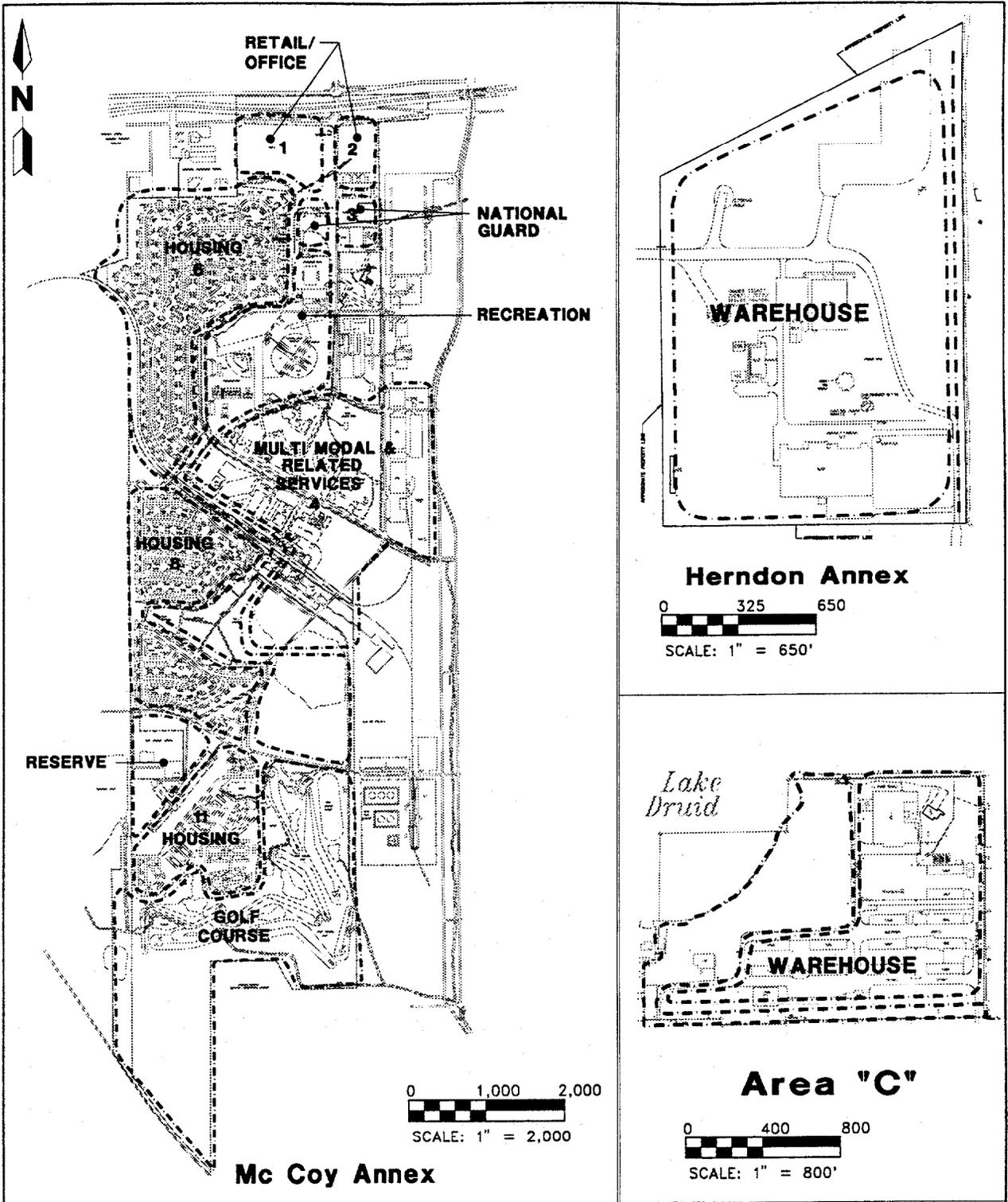
The multi-modal transportation facility capitalizes on the key location of McCoy Annex. The Annex is adjacent to major rail facilities, an international airport, and regional freeways and expressways. This area would become a major shipping and receiving area for various cargo from different modes of transportation (BRW, 1994).

Small areas of retail and office space will be available at the north end of the base. The National Guard and Army Reserve currently plan to obtain several buildings for training and educational purposes. The existing nine-hole golf course and other open areas will provide much needed recreational space (BRW, 1994).

**2.1.2.3 Herndon Annex** Figure 2-2 details the future reuse of Herndon Annex. Basically, Herndon Annex will be used to serve the expansion needs of Orlando Executive Airport. A small section of land will be used to further develop an existing regional bike trail (BRW, 1994).

**2.1.2.4 Area "C"** Figure 2-2 details the future reuse of Area "C". Area "C" will be used as a warehousing and industrial area. Existing warehouses will be used initially, and then slowly be demolished and replaced with newer structures (BRW, 1994).

**2.1.2.5 Job Creation and Economic Development** Because one of the main goals for the reuse of NTC, Orlando is economic and social development for the surrounding area, the above alternative was analyzed and evaluated based on jobs and revenues



**FIGURE 2-2**  
**PROPERTY REUSE FOR**  
**McCOY ANNEX, HERNDON ANNEX, AND**  
**AREA 'C'**



**BASE REALIGNMENT AND CLOSURE**  
**CLEANUP PLAN**

**NAVAL TRAINING CENTER**  
**ORLANDO, FLORIDA**

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that would be supplied to the city. Table 2-1 details the number of jobs estimated to be created based on the reuse plan. In the long term, the alternative described above will generate economic confidence in the surrounding community (BRW, 1994).

**Table 2-1  
Job Creation By Land Use**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Section	Square Feet	Square Feet per Employee	Employees
<b>Main Base</b>			
Business Park	1,387,600	250	5,556
Office	1,126,462	250	4,506
Retail	411,642	400	1,029
Institutional	616,799	609	1,013
<b>Total</b>	<b>3,542,503</b>		<b>12,099</b>
<b>Annex Properties</b>			
Retail and Office	313,632	400	460
GOAA	1,521,160	600	2,535
National Guard and Armory	14,251	356	40
Herndon	132,613	638	208
Area "C"	124,581	760	164
<b>Total</b>	<b>2,106,581</b>		<b>3,407</b>
<b>Total Naval Training Center</b>	<b>5,649,084</b>		<b>15,507</b>

Source: Adapted from *Naval Training Center Orlando Reuse Plan* written by BRW, Inc., 1994.

Note: GOAA = Greater Orlando Aviation Administration.

**2.2 RELATIONSHIP TO ENVIRONMENTAL PROGRAMS.** The environmental condition of base properties and the implementation of environmental restoration programs have a critical impact on the transfer of NTC, Orlando properties. CERCLA Section 120(h)(3)(B)(i) requires that the deeds of previously contaminated property being transferred must contain a covenant warranting that all necessary remedial actions have been taken before the date of transfer.

An amendment to CERCLA Section 120 (h), the 1992 Community Environmental Response Facilitation Act (CERFA), requires that remedial and/or removal actions for properties that had hazardous waste storage, release, or disposal be identified and appropriate actions taken prior to property transfer. According to CERFA, contaminated properties may be transferred if remedial actions are in progress or long-term operation and maintenance activities after a remedy has been implemented are in progress.

The availability of base properties for disposal and reuse is dependent on the environmental condition of the property and the status of remedial actions. NTC, Orlando has developed a cleanup strategy designed to expedite the necessary response actions to facilitate the disposal of the properties. This strategy is based upon a comprehensive and methodical site screening effort by group and study area. Details of this strategy are presented in Subsection 4.1.1.

The BCT and the Navy will strive to coordinate cleanup efforts with transfer priority. For example, because Herndon Annex has such a high transfer priority, investigative efforts will be speeded to determine when this property will be transferred. Whenever necessary, the BCT will interface with the Mayor's Reuse Commission.

**2.2.1 Federal Property Transfer Process** During 1994, several changes have occurred to the process of transferring federal property. This section discusses the process as the BCT and Base Transition Coordinator (BTC) understood it as of December 1994. It should be noted that all final decisions regarding Federal property transfer will be based on the final community reuse plan, once it is approved by the community and the Mayor's commission.

The Navy uses the following process for Federal transfer of property to Federal agencies, State and local governments, and other interested parties. The Navy prepares a "Report of Excess" that indicates all properties the Navy no longer needs and wishes to transfer. From the date the report is finalized, Federal agencies have 30 days to express interest in these properties. If these Federal agencies, excluding the Department of Housing and Urban Development (HUD), express interest, the reuse commission will review their proposal. After the Federal screening process, homeless advocacy groups, via the McKinney Act, can express interest in excess Federal property. If HUD finds that the property is suitable for homeless people, State, local, and other homeless advocacy groups have 60 days to express interest in the property. If interest is expressed, then the Department of Health and Human Services (HHS) processes their application. However, DOD and Federal agencies have precedence over homeless groups.

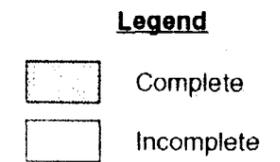
If properties remain after the offer to Federal agencies and the homeless, parcels are next offered to State and local governments through public benefit conveyance. These offices have 20 days to respond.

Local community groups may then express interest in any remaining properties. At this point a Local Redevelopment Plan will be drafted to ensure that property is transferred according to the needs of the community. Economic Development Conveyances (EDCs) are set up to effectively transfer excess properties to qualified parties that may not be able to afford buying the property at full price.

Native Americans have priority only if they already have land on the base or adjacent to the base.

**2.2.2 BRAC Environmental Review Process** To evaluate properties ready for transfer a comprehensive plan for investigating NTC, Orlando has been developed. Each area was analyzed and qualified through the EBS. Suspect areas will be further investigated through site screening. Figure 2-3 details how the BRAC environmental review process and the Federal property transfer process tie together.

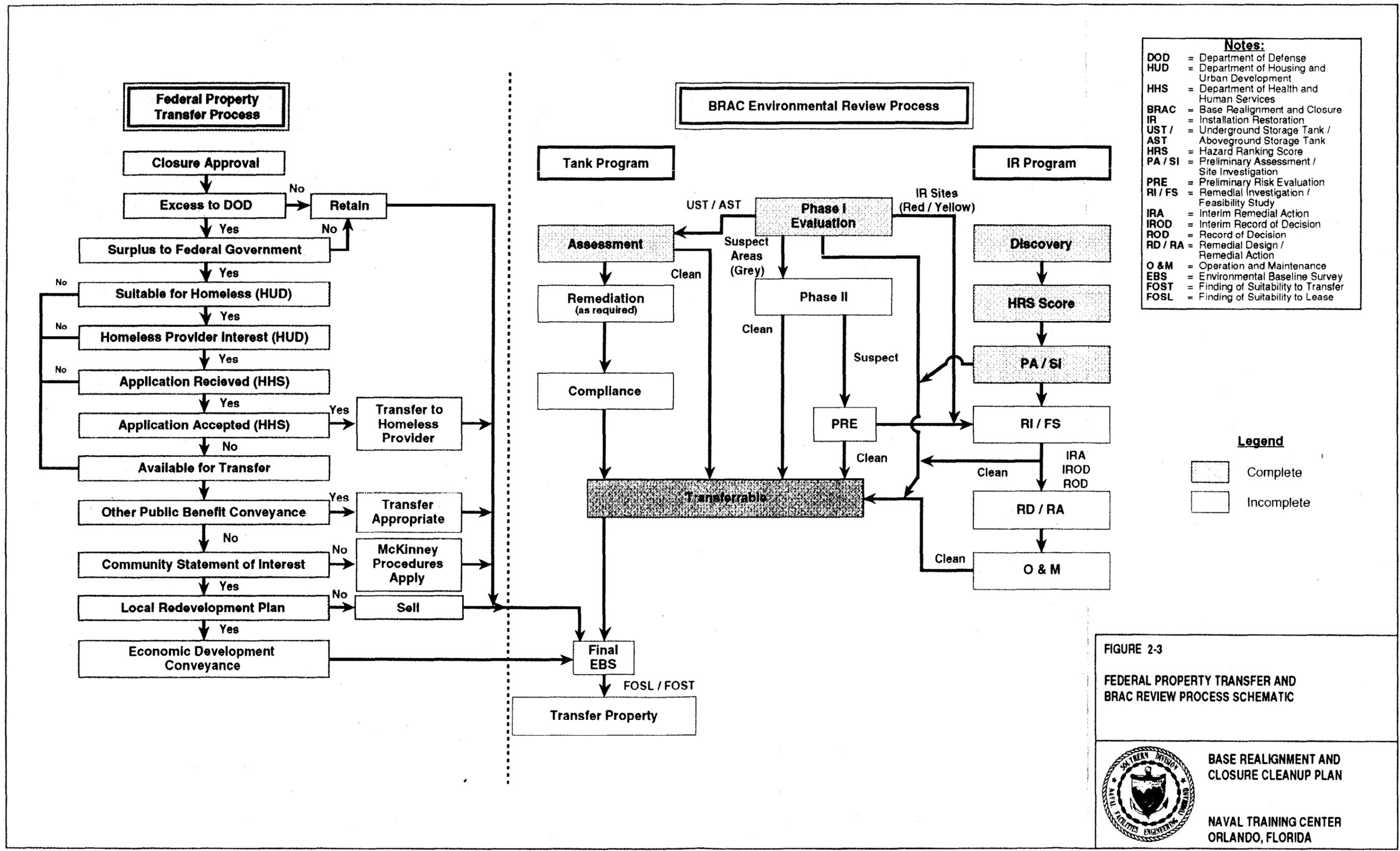
- Notes:**
- DOD = Department of Defense
  - HUD = Department of Housing and Urban Development
  - HHS = Department of Health and Human Services
  - BRAC = Base Realignment and Closure
  - IR = Installation Restoration
  - UST / AST = Underground Storage Tank / Aboveground Storage Tank
  - HRS = Hazard Ranking Score
  - PA / SI = Preliminary Assessment / Site Investigation
  - PRE = Preliminary Risk Evaluation
  - RI / FS = Remedial Investigation / Feasibility Study
  - IRA = Interim Remedial Action
  - IROD = Interim Record of Decision
  - ROD = Record of Decision
  - RD / RA = Remedial Design / Remedial Action
  - O & M = Operation and Maintenance
  - EBS = Environmental Baseline Survey
  - FOST = Finding of Suitability to Transfer
  - FOSL = Finding of Suitability to Lease



**FIGURE 2-3**  
**FEDERAL PROPERTY TRANSFER AND BRAC REVIEW PROCESS SCHEMATIC**

**BASE REALIGNMENT AND CLOSURE CLEANUP PLAN**

**NAVAL TRAINING CENTER ORLANDO, FLORIDA**

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**2.3 PROPERTY TRANSFER METHODS.** Disposal decisions for NTC, Orlando properties have been made. These disposal decisions may be impacted by the findings of the EIS. (The schedule for conducting the EIS and related studies is discussed in Section 4.3.) As of January 1995, no findings of suitability to lease (FOSL) have been developed. However, one finding of suitability to transfer (FOST) has been finalized for Building 325. The FOST for building 301 is being developed.

**2.3.1 Federal Transfer of Property** The Veterans Administration has requested transfer of 102.7 acres composed of the Naval Hospital and associated buildings and land (Priority Zone 1). The Defense Finance Accounting Service (DFAS) is negotiating the transfer of Building 301 for use as a communications center. The U.S. Customs Service has requested transfer of Building 325. A final EBS has been prepared for Buildings 301 and 325 in preparation for transfer. In addition, an FOST has been prepared for Building 325. The Army National Guard and the Florida Department of Law Enforcement have been looking at 2.245 acres that correspond to Building 235 and Building 236. Transfer of land associated with these two buildings is still under negotiation as it is unclear at this time who will receive the land.

As of January 1995, no other Federal agency has requested a transfer of property at NTC, Orlando.

**2.3.2 No-Cost Public Benefit Conveyance** As of January 1995, no property at NTC, Orlando has been identified for no-cost public benefit conveyance.

**2.3.3 Negotiated Sale** As of January 1995, no property at NTC, Orlando has been identified for negotiated sale to a third party.

**2.3.4 Competitive Public Sale** As of January 1995, no property at NTC, Orlando has been identified for competitive public sale.

**2.3.5 Widening of Public Highways** As of January 1995, no property at NTC, Orlando has been identified for widening of public highways.

**2.3.6 Donated Property** As of January 1995, no property at NTC, Orlando has been identified for donation.

**2.3.7 Interim Leases** NTC, Orlando is currently entered into 33 easements, 1 agreement, 4 licenses, 1 lease, and 1 deed with a variety of third parties. Table 2-2 identifies the grantee, the use or the purpose of the land, the acreage, the effective date, and the expiration date of the current legal agreements.

**2.3.8 Transfer Method Undetermined** The city of Orlando is expected to request 54.02 acres (Herndon Annex). Once Herndon Annex is transferred, the city of Orlando will probably lease it to the Greater Orlando Aviation Authority (GOAA). The method of transfer has not yet been determined.

**Table 2-2  
Existing Legal Agreements and Interim Leases**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Tract or Parcel No. <sup>1</sup>	Grantee	Use or Purpose	Legal Agreement	Acreage	Effective Dates
<b>Main Base</b>					
	City of Winter Park	Storm drain	Easement	0.21	3/29/73-3/28/23
	Department of the Army	Reserve training	Agreement	1.89	7/1/78-6/30/08
	City of Orlando	Power lines	Easement	2.80	8/2/49-8/1/2099
	Florida Department of Transportation	Road - drainage	Easement	4.73	9/10/73-12/31/99
	City of Orlando Utility Commission	Water line	Easement	0.93	6/18/74-6/19/99
	Orange County, Florida	Drainage ditch	Easement	6.79	12/01/75-11/30/25
	Florida Department of Transportation	Drainage easement	Easement	2.60	12/15/75-indefinite
	General Water Works Corporation	Water line	Easement	1.09	7/25/78-7/25/28
	Florida Gas Company	Gas line	Easement	1.22	3/29/79-3/29/29
	Orange County	Bike path	Easement	1.45	4/9/79-4/9/29
I	Orange County Sheriff	Driver training	License	0.64	3/1/90-2/28/95
I	Orange County School Board	Driver training	License	1.85	1/1/91-12/31/95
IV	City of Orlando	Bike path	Easement	7.4	10/5/93-10/4/43
	Orange County	Drainage ditch	Easement	0.09	6/25/71-6/24/21
	Orange County	Road - right of way	Easement	12.69	10/20/55-12/31/99
	Orange County	Road - right of way	Easement	2.73	6/11/63-12/31/99
	Florida State Road Department	Road - right of way	Easement	0.33	2/28/61-12/31/99
	City of Orlando	Sewer line	Easement	0.50	2/5/68-2/4/18
	City of Orlando	Sewer line	Easement	1.03	8/5/49-8/4/99
	City of Orlando	Power line	Easement	3.11	1/21/60-1/20/10
	City of Orlando	Sewer line	Easement	0.98	5/18/53-5/17/03
III	City of Orlando	Drainage ditch	Easement	2.15	5/7/74-5/6/24
I	City of Orlando	Drainage ditch	Easement	1.22	5/7/74-5/6/24
	City of Winter Park	Road - right of way	Easement	0.86	5/23/77-12/31/99
I	City of Winter Park	Water line	Easement	3.40	10/17/88-10/16/38
See notes at end of table.					

**Table 2-2 (Continued)**  
**Existing Legal Agreements and Interim Leases**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Tract or Parcel No. <sup>1</sup>	Grantee	Use or Purpose	Legal Agreement	Acreage	Effective Dates	
McCoy Annex	USAF	Utility line	Easement	4.29	?	
	Deeded to City of Orlando		Deed	-0.31 (total: 3.98)	2/4/80	
	I	Central Florida Pipeline Corporation	Fuel pipeline	Easement	0.75	4/30/75-4/29/00
	I	Orange County, Florida	Drainage ditch	Easement	4.26	10/8/75-10/7/25
	I	Orlando Utility Commission	Electric transmission	Easement	0.80	5/20/76-5/19/26
	I	City of Orlando	10-inch sewer line	Easement	0.72	7/7/80-12/31/99
	I	Greater Orlando Aviation Authority	Utility service and drainage maintenance.	Easement	1.15	1/30/86-1/29/36
	I	City of Orlando	Sewage maintenance lift station.	Easement	0.61	6/19/85-6/18/35
	I	Central Florida Pipeline Corporation	Petroleum pipeline	Easement	0.637	11/3/87-11/2/37
	I	Orlando-Orange County Expressway Authority	Beeline Expressway	Easement	22.16	11/17/82-12/31/99
	III	Department of the Army	Armory and parking	License	5.0	6/1/90-5/1/95
	I	Department of the Army	Armory and parking	License	1.5	6/1/90-5/1/95
	I	Federal Aviation Administration	Pole antenna	License	0.01	8/1/90-7/31/95
	I	City of Orlando	8-inch sanitary force main.	Easement	0.72	8/1/91-7/31/41
	I	City of Orlando and Orlando Utilities Commission	Electrical switch	Easement	1.54	6/25/93-6/24/43

<sup>1</sup> Tract or Parcel No. corresponds to the tract or parcel number in the property acquisition table (Table 1-2).

Notes: USAF = U.S. Air Force.  
? = effective date not recorded.

() = transfer of property.  
(-) = negative value.

### 3.0 INSTALLATION-WIDE ENVIRONMENTAL PROGRAM STATUS

This chapter of the BCP provides a summary of the status of installation restoration projects (Section 3.1) and ongoing compliance program activities at NTC, Orlando (Section 3.2). Section 3.3 is a description of the type and quality of natural resources at the base. The environmental condition of the base property and its suitability for transfer are discussed in Section 3.4. The status of community involvement in the transfer of base property is discussed in Section 3.5.

3.1 ENVIRONMENTAL PROGRAM STATUS. The Defense Environmental Restoration Program (DERP) requires the Department of Defense (DOD) to expeditiously remediate environmental contamination due to past management and disposal practices of hazardous substances. During the early to mid 1980's, the Navy's program was called Naval Assessment and Control of Installation Pollutants (NACIP), a program administered by the Naval Energy and Environmental Support Activity (NEESA) to identify potential environmental contamination resulting from past hazardous materials management. Reports prepared prior to 1987 reflect the NACIP process and terminology. In 1987 the Navy instituted the Naval Installation Restoration Program, a subcomponent of DERP. This program is designed to identify, prioritize, investigate, and clean up contaminated sites in a manner consistent with State and Federal regulations.

3.1.1 Installation Restoration Program Sites An IAS was conducted at NTC, Orlando in 1985 (C.C. Johnson, 1985). Nine sites were identified in the report as potential sources of contamination (Table 3-1, Sites 1 through 9). The sites are located on one of three parcels: Main Base, McCoy Annex, and Area "C." The IAS recommended Sites 1, 3, 6, 8, and 9 for a Verification Study. A Verification Study was conducted in 1986, at which time an additional site (Site 10, a WWTP at McCoy Annex, Table 3-1) was identified as a potential source of contamination (Geraghty & Miller, 1986). A brief description of the 10 sites is provided below.

**Site 1, North Grinder Field Landfill.** This site is located at the Main Base under an asphalt-paved area known as the "grinder" parade area (see Figure 1-4). The landfill reportedly covered 15 acres and extended eastward just beyond the area now occupied by Buildings 212 and 214. According to the IAS, the landfill was operated by the Air Force from 1958 to 1967 when construction began on Buildings 212 and 214. However, aerial photographs obtained during the EBS indicate that landfilling started much earlier, sometime after 1939 and before 1947 and may extend southward into the area known as South Grinder. Wastes reportedly disposed in the landfill include film, photochemicals, paint thinner, garbage from the mess halls, biological and medical wastes from the hospital, PCE still bottoms, solvent-contaminated filter media, and construction debris.

**Site 2, Filled WWTP Lagoons.** Site 2, located east of the Main Base golf course, is the location of four filled WWTP lagoons (see Figure 1-4). The lagoons, measuring approximately 3,000 square feet in area and 4 to 8 feet deep, were part of the WWTP that was closed in 1976. In 1977 and 1978 the lagoons were reportedly filled with WWTP sludge, yard waste, soil, sand, asphalt, empty unmarked 1-gallon containers, building demolition debris, and

**Table 3-1  
Site Summary Table**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Study Area	Site No.	Description	Materials Disposed	Dates of Operation
Main Base	1	Trench and fill landfill.	Photochemical waste, film, paint thinner, garbage, medical waste, tree limbs, construction waste, and perchloroethylene.	1940's to 1967
Main Base	2	Filled lagoon	WWTP sludge, tree limbs, yard waste, soil, sand, asphalt, demolition debris, and stainless steel mixing tank.	1977 to 1978
McCoy Annex	3	Trench and fill landfill	Photochemical wastes, paint, paint thinners, plastics, trees, construction debris, medical wastes, oil, transformers, cable, airplane parts, and low-level radioactive waste.	1960 to 1978
Main Base	4	Pit disposal area	Yard wastes	1968 to 1969
Area "C"	5	Laundry boiler building.	Asbestos-containing material	Closed in 1972. Demolished in 1979 and 1993.
McCoy Annex	6	DPDO yard	Oil, antifreeze, and transmission and hydraulic oil	Pre-1984
McCoy Annex	7	Quarry	Demolished barracks and demolition debris	1968
Main Base	8	Pesticide storage building.	Pesticides	Early 1950's to 1972
Main Base	9	Lake Baldwin	Film processing chemicals	Early 1950's to 1978
McCoy Annex	10	Wastewater treatment plant.	WWTP effluent and sludge	Mid-1960's to 1988

Notes: WWTP = wastewater treatment plant.  
DPDO = Defense Property Disposal Office.

a large stainless-steel mixing tank from the Air Force photographic squadron located in Building 2089.

**Site 3, McCoy Annex Landfill.** Site 3 occupies approximately 99 acres in the southern part of McCoy Annex (see Figure 1-6). A golf course comprises much of the site; the remaining area supports fields of grass, forest, and low brush. The western part of the landfill was reportedly used by the Air Force from 1960 to 1972 and the eastern part was used by the Air Force and the Navy from 1972 to 1978. Wastes reportedly disposed in the landfill include yard waste, paper, wood, plastic, scrap metal, pipe, paint thinner, asbestos, bricks, airplane parts, cables, fire hoses, parachutes, automobile batteries, transformers, medical waste, low-level radioactive waste, and waste oil.

**Site 4, Disposal Area Near the NTC Magazine No. 123.** Site 4 is located 200 feet southwest of Magazine No. 123 (see Figure 1-4). Site 4 was a pit measuring 30 feet in diameter and 8 to 9 feet deep into which yard waste was placed from 1968 to 1969. Reportedly, no hazardous materials were placed in Site 4.

**Site 5, Old Laundry Boiler (Building 1101).** Building 1101 was constructed in the 1940's and housed the boilers for the laundry (see Figure 1-5). It was closed in 1972, at which time the boilers were removed. During the IAS, approximately 700 cubic yards of friable asbestos were observed. Although the presence of friable asbestos was the reason for the inclusion of Building 1101 in the IAS report, previous waste management activities at the laundry have been linked to potential environmental damage. Specifically, PCE still bottoms and solvent-contaminated filter media were disposed in the North Grinder Landfill (Site 1) until 1967. Additionally, spills of PCE have been reported. All asbestos-containing material was removed during the building demolition process.

**Site 6, Defense Property Disposal Office (DPDO), McCoy Annex.** Site 6 is located in the southeastern section of the DPDO yard at McCoy Annex (see Figure 1-6). The DPDO was the predecessor of the DRMO, which is now located in Area "C." Site 6 is the location of a chemical waste storage area used for an unspecified period ending in 1984. The site is approximately 30 feet by 6 feet in area. Reportedly, the contents of 73 drums, containing used motor oil, anti-freeze, and hydraulic oil (possibly containing polychlorinated biphenyls [PCBs]), were spilled in this area during and prior to 1984, resulting in soil staining and contamination.

**Site 7, Barracks Burial Area.** Site 7 is the location of a burial area for building debris (see Figure 1-6). In 1978 the demolished wooden barracks from McCoy Annex were bulldozed into a quarry (now filled with water) at the southwestern edge of McCoy Annex.

**Site 8, Old NTC Pesticide Building.** From the 1950's through 1972, both the Air Force and the Navy used Site 8 as a storage and mixing facility for pesticides. The building, located adjacent to the golf course at the Main Base (see Figure 1-4), was demolished in 1981. Building debris, unused pesticides, and containers were buried at the site.

**Site 9, Lake Baldwin.** Site 9 was listed as a result of the reported disposal of film and photograph-developing chemicals from the U.S. Air Force (USAF)

photographic shop (Building 2089). From the early 1950's through 1978, the chemicals reportedly drained from Building 2089 through a storm sewer to a point on the southwest shore of Lake Baldwin (see Figure 1-4). Silver from the development process was recovered, starting in 1965. Before 1965 silver reportedly drained to the lake along with the other chemicals.

**Site 10, McCoy Annex WWTP.** The McCoy Annex WWTP was included as a site to assess its environmental impact and to comply with State law (see Figure 1-6). Under Chapter 62-4, Section 62-4.245 (6)(d), Florida Administrative Code (FAC), groundwater monitoring is required for surface water lagoons, such as those that were at the McCoy Annex WWTP. In 1977 the WWTP was demolished and the lagoons were reportedly filled with yard waste and demolition debris.

The Verification Study suggested that the contamination at Lake Baldwin (Site 9) did not represent a significant risk to human health or the environment (Geraghty & Miller, 1986). The study also concluded that the spillage noted in the IAS at the DPDO at McCoy Annex (Site 6) had not contaminated the soil. The former landfill at the Main Base (Site 1), the landfill at McCoy Annex (Site 3), the pesticide storage building (Site 8), and the WWTP at McCoy Annex (Site 10) were recommended for additional investigation.

No work was conducted under the IR program, due to lack of funding, until NTC, Orlando was placed on the closure list. Since then the former landfill at the Main Base (Site 1) and the landfill at McCoy Annex (Site 3) have been designated OU 1 and OU 2, respectively. Remedial Investigation and Feasibility Study (RI/FS) workplans have been written for both OUs (see Section 4.1.2 for cleanup strategy) and are currently being reviewed by the BCT. The other eight sites identified in the IAS and Verification Study have been included in the site screening activities discussed in Section 4.1. In general, "grey" areas identified by the EBS (a Phase I assessment) will not be formally introduced into the IR program until Phase II assessments are conducted and sufficient data have been collected to support an acknowledgement or confirmation of the presence of contamination.

**3.1.2 Non-Installation Restoration Program Sites** Other contaminated sites have undergone contamination assessment (CA) and/or remedial action at NTC, Orlando. Non-IR program sites involving remedial actions include the dry cleaning facility and DRMO, both located in Area "C"; Building 2080 and Rusk Memorial Chapel (Building 250), both located on the Main Base; and Buildings 7174 and 7175 located at McCoy Annex.

Both DRMO and the dry cleaning facility had PCE spills in 1989. In each case, soil containing greater than 1 part per million (ppm) PCE was excavated. Contaminated soil from the DRMO spill was disposed at a hazardous waste disposal facility by DRMO. Contaminated soil at the dry cleaning facility was disposed at a hazardous waste landfill by the contractor responsible for the spill (Raspet, 1994).

Prior to May 1989, a spill of PCB-contaminated oil from an electrical transformer occurred in the uncovered (outdoor) mechanical room of Rusk Memorial Chapel (Building 250). Contaminated soil was excavated, containerized, and removed by DRMO. Soil was cleaned up to a level of approximately 68 ppm PCBs (Raspet, 1987). No regulatory concurrence of cleanup could be determined.

Three of the non-IR program sites involve spillage or leakage from USTs. These sites are described briefly in this section and discussed in detail in Paragraph 3.2.1.1. Building 2080, a service station, had three double-walled fiberglass 10,000-gallon USTs installed in 1986. In 1988, during removal of the tanks, a petroleum release was noted by the contractor. The release was reported to the FDEP and a monitoring only plan (MOP) was approved for monitoring groundwater at the site (ABB-ES, 1991a). Groundwater samples were collected quarterly for 1 year. FDEP concurred on June 4, 1992, that no further action was necessary at the Building 2080 site (Roberts, 1994a).

Building 7174 is a service station located at McCoy Annex. Six gasoline and diesel fuel USTs were abandoned in place after showing fuel losses. In 1986 four new fiberglass USTs, along with four groundwater monitoring wells, were installed. Petroleum product was noted in the monitoring wells in 1988. Precision tank testing indicated that the tanks were not leaking. The suspected source of the petroleum product was fill ports that were insufficiently grouted during construction. It was believed that excess product entered the soil via the ungrouted fill ports, and migrated through the soil to the groundwater (ABB-ES, 1992a). Execution of the Remedial Action Plan (RAP) by the Remedial Action Contractor (RAC) is scheduled to begin fiscal year 1995 (FY95) (Anderson, 1994).

Building 7175 is the motor pool facility at McCoy Annex. A CA is scheduled to begin in FY95 (Anderson, 1994).

Early removal actions for IR program and non-IR program sites are summarized in Table 3-2.

**3.1.3 Installation-wide Source Discovery and Assessment Status** Two installation-wide environmental assessments have been conducted after the IAS and are described in this section. The rationale for zone, group, and study area designations are fully explained in Section 4.1. For the purposes of this section, Figure 3-1 graphically depicts the study areas, priority zones, and operable units (OUs) currently under investigation at the Main Base, Area "C", and Herndon Annex. Figure 3-2 graphically depicts the study areas, priority zones, and OUs currently under investigation at McCoy Annex.

The first base-wide post-IAS survey was conducted by Post, Buckley, Schuh, & Jernigan, Inc. (PBS&J), to identify potential illicit (i.e., non-stormwater) discharges from the stormwater discharge system at the facility (PBS&J, 1993). The survey was performed as part of the general permit application process for a National Pollution Discharge Elimination System (NPDES) stormwater discharge permit. Sources of illicit discharges are POIs that will require further investigation. These are: the Old Fire-fighting Training Facility, the Automotive Hobby Shop, the Pest Control Facility, and the Bulk Fuel Storage Area on the Main Base. At McCoy Annex, the Motor Pool and the fuel oil storage area of the Construction Battalion are suspected of discharging petroleum products to discharge ditches and swales.

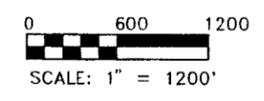
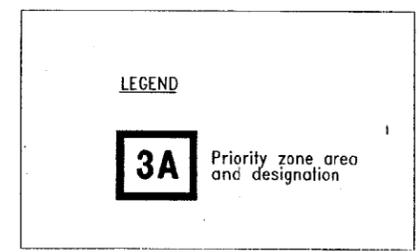
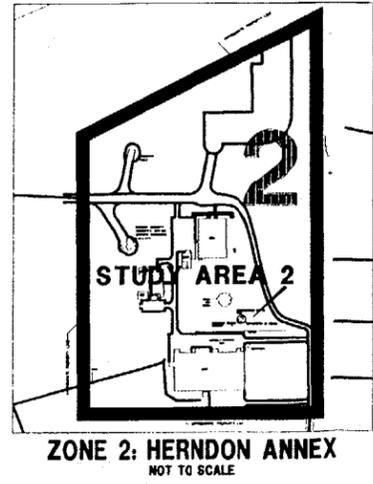
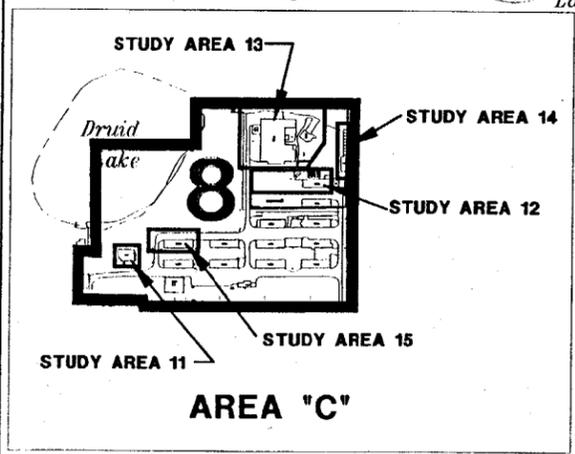
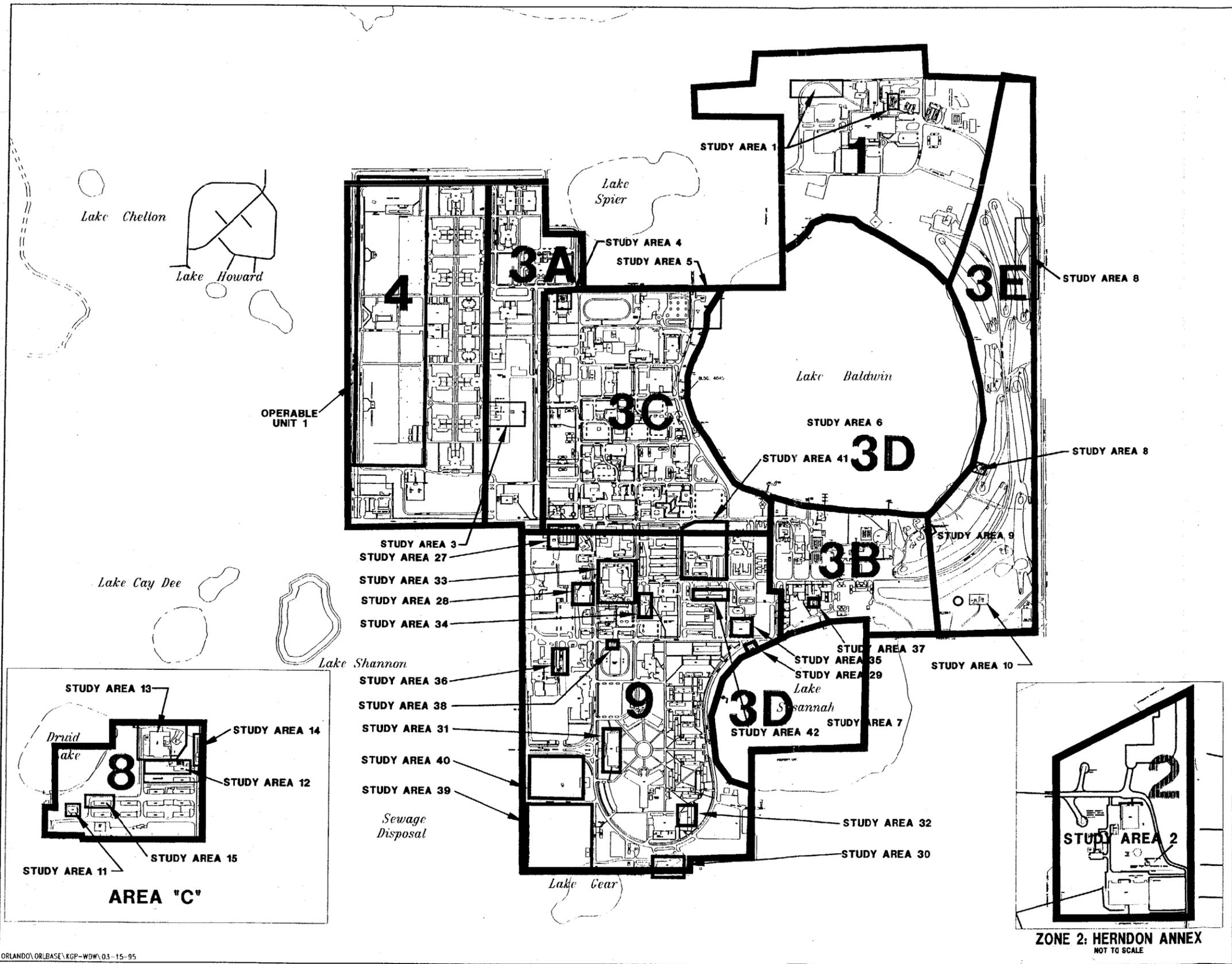
The second base-wide post-IAS survey is the EBS report (ABB-ES, 1995). The field component of the EBS involved the inspection of 598 buildings and parcels. POIs identified in the EBS are defined as base properties that are potentially contaminated and may require further investigation prior to transfer (categorized as 7/Grey, 6/Red, or 5/Yellow).

**Table 3-2  
Early Action Status**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

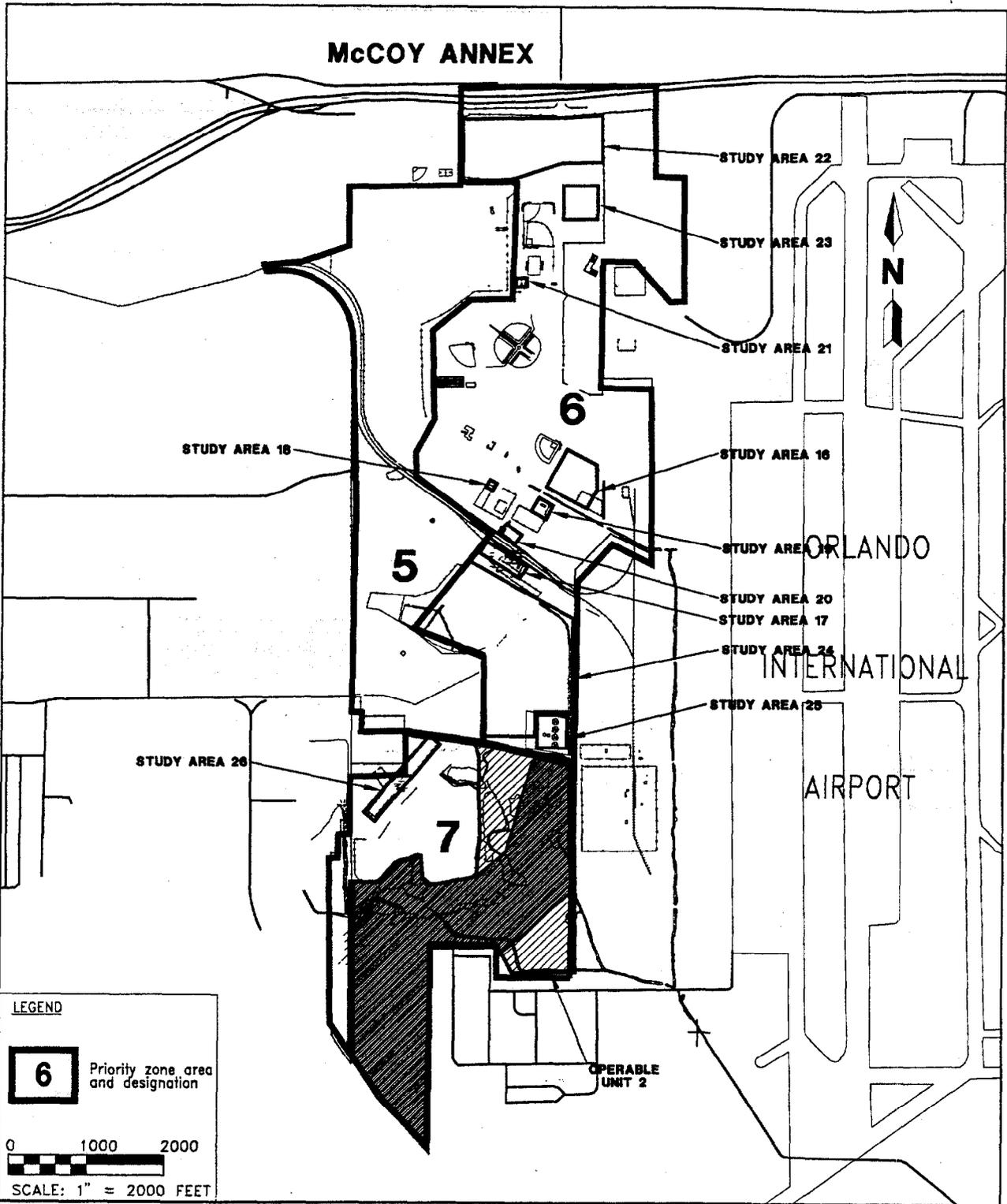
Area	Restoration Site	Action	Purpose	Status
Area "C"	DRMO (Building 1063)	Excavated 30 55-gallon drums of PCE-contaminated soil.	To remove potential contaminant source following spill.	Soil removed to less than 1 ppm PCE.
Area "C"	Dry Cleaning Facility (Building 1100)	Excavated PCE-contaminated asphalt and soil.	To remove potential contaminant source following spill.	Soil removed to less than 1 ppm PCE.
Main Base	Rusk Memorial Chapel (Building 250)	Cleaned up PCB-contaminated oil spill.	To remove potential contaminant source following spill.	Soil removed to 68 ppm PCB.
McCoy Annex	Naval Training Systems Center Warehouse (Buildings 7191 and 71-93)	Cleaned up PCB-contaminated fluid.	To remove potential contaminant source following spill.	Soil removed and site back-filled with clean soil.
McCoy Annex	Service Station (Building 7175)	Excavated contaminated soil from area of Tank 7175B.	To remove potential contaminant source following spill.	Approximately 134 tons of contaminated soil removed to Soil Treatment Services of Kissimmee, Florida, for disposal.
McCoy Annex	Annex Gymnasium (Building 7247)	Excavated contaminated soil from area of heating oil tank.	To remove potential contaminant source following spill.	Removed contaminated soil that filled four 85-gallon drums. These drums are in storage until the soil is tested. The site has not been filled. It is covered with boards and a tarpaulin.

Notes: DRMO = Defense Reutilization and Marketing Office.  
PCE = perchlorethylene.  
ppm = parts per million.  
PCB = polychlorinated biphenyls.



**FIGURE 3-1**  
**STUDY AREAS, ZONES, AND OPERABLE UNITS**  
**CURRENTLY UNDER INVESTIGATION AT**  
**MAIN BASE, HERNDON ANNEX, AND AREA 'C'**

**BRAC REALIGNMENT AND**  
**CLOSURE CLEANUP PLAN**  
**NAVAL TRAINING CENTER**  
**ORLANDO, FLORIDA**



**FIGURE 3-2  
STUDY AREAS, ZONES, AND OPERABLE  
UNITS AT McCOY ANNEX**



**BASE REALIGNMENT AND CLOSURE  
CLEANUP PLAN**

**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**

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Several properties have been identified by the EBS as areas where potential environmental concerns are present. Properties surveyed in the EBS that are POIs include the following classifications:

- Category 5 (Yellow), properties where storage, release, disposal, and/or migration has occurred, and action is underway, but not final;
- Category 6 (Red), properties where storage, release, disposal, and/or migration has occurred, but required response actions have not been taken; and
- Category 7 (Grey), properties requiring further investigation, excluding those sites that have been assigned this category only because of the presence of an UST, or which will be investigated within the UST program.

The final EBS report was submitted to the Navy in January 1995. This document contains final color classifications for base properties. Color classifications may change as the IR program progresses. In addition, a final EBS was prepared for Building 325 in preparation for property transfer. A final EBS for Building 301 is presently being prepared.

Table 3-3 lists all non UST and aboveground storage tank (AST) sites currently being investigated or to be investigated through site screening. All of these areas were originally classified as Grey, thus requiring further investigation. Color classification and site screening are further discussed in Chapter 4.0.

**3.2 COMPLIANCE PROGRAM STATUS.** The environmental programs at NTC, Orlando can be divided into those that regulate activities associated with the base mission and operations, and those that regulate base closure activities. Mission and operations-related compliance programs are discussed in Subsection 3.2.1 and closure-related compliance programs are discussed in Subsection 3.2.2.

**3.2.1 Mission and Operations-Related Compliance Programs** As required by Navy, State, and Federal environmental regulations, NTC, Orlando is participating in a number of mission and operations-related compliance programs. Compliance programs currently regulating base activities and the status of compliance with these programs are summarized in Table 3-4. Data in this table were initially compiled from an Environmental Compliance Evaluation (ECE) conducted at the site in November 1991 (SOUTHNAVFACENCOM, 1991b). Data in Table 3-4 were updated by conducting interviews with base personnel. The compliance status for each major environmental component is discussed below.

**3.2.1.1 Storage Tanks** The State of Florida regulates USTs and ASTs. FDEP enforces the regulations for USTs (Chapter 62-761, FAC) and ASTs (Chapter 62-762, FAC) (Moghaem, 1994). Appendix H contains the Tank Inventory Management System (TIMS) list of all USTs and ASTs at NTC, Orlando.

Except for tanks storing heating oil used only on the premises, USTs are regulated if the capacity is greater than 110 gallons.

**Table 3-3**

**Installation Restoration Program Non-Underground Storage Tank (UST) and Aboveground Storage Tank (AST) Investigation Synopsis**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Study Area	Priority Zone	Building Number	Name	Remarks	Current Status
Site Screening Group I					
1	1	3126	Hospital Civilian BEQ	Forty square-foot stain on ground outside the mechanical room.	No significant detections in soil or groundwater analytics. One GW sample had a lead level of 17.1 $\mu\text{g}/\text{l}$ versus a State MCL of 15 $\mu\text{g}/\text{l}$ . There was no evidence of landfilling operations. Property is now considered transferrable. Both areas were reclassified as 1/White.
	1	UNF-12	Alleged Hospital Landfill	Used as a landfill in the late 1970's, exact contents unknown.	
2	2	6001	Septic Tank and Leachfield (Herndon)	Exact contents of septic tank and drain field unknown.	No significant detections in soil or groundwater analytics. No further investigation required for Building 6001, which is considered transferrable. Landfill and past aircraft use investigation to continue. Reclassified as 1/White.
3	3A	73, 2817, and 2818	RTC 1st Lt. Storage	Hazardous materials are stored on the property and are regularly transferred to and from Building 2817.	Due to anomalies in the analytical data, additional investigation of the data will be conducted. Reclassified as 7/Grey.
4	3A	250 and 258	Rusk Memorial Chapel	PCB spill of unknown quantity in the mid-1980's.	No significant detections in soil analytics. No GW samples taken. Both buildings reclassified as 3/Light Green.
	3A	251	Rusk Memorial Chapel Annex	PCB spill at adjoining property (Building 250) of unknown quantity.	
5	3C	UNF-13	Septic Tank and Leachfield	Unknown environmental impacts from a previously existing motorboat maintenance facility and its septic tank.	No significant detections in soil or groundwater analytics. Geo-physical surveys showed some buried pipes and metal objects. Property is now considered transferrable. Area reclassified as 2/Blue.
6	3D		Lake Baldwin	Likelihood of contamination from stormwater runoff from golf course and photographic laboratory and lead from former skeet range.	Surface water analytes had no significant detections. Sediment samples had elevated levels of lead and 4,4'-DDE, though below the Florida probable effects level (PEL). One sample had elevated PAHs. Divers will investigate magnetic anomalies detected in the lake. Report will be updated to reflect all analytical results. Will remain classified as 7/Grey.

See notes at end of table.

**Table 3-3 (Continued)**  
**Installation Restoration Program Non-UST/AST Investigation Synopsis**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Study Area	Priority Zone	Building Number	Name	Remarks	Current Status
Site Screening Group I					
7	3D		Lake Susannah	Receives stormwater runoff from other suspect areas.	Surface water analytes had no significant detections. Sediment samples had elevated metals and PAHs, but below Florida PELs. Lake is now considered transferrable. Reclassified as 1/White.
8	3E	2134	Greens Keeper Storage	Likelihood of petroleum and pesticide spills.	Problem area. Soil samples had elevated levels of arsenic (45.2 and 577 mg/kg) against a risk-based allowable level of 23 mg/kg. Soil also had elevated levels of lead, PCBs, and PAHs. PCB was at 150 $\mu\text{g}/\text{kg}$ versus 88 $\mu\text{g}/\text{kg}$ (RBC) for residential area. Groundwater had elevated levels of arsenic (268-465 $\mu\text{g}/\text{l}$ versus 50 $\mu\text{g}/\text{l}$ allowable). Considerable evidence of landfilling in golf course. Former WWTP is now classified as Light Green and is transferrable. Greens keeper area requires a Preliminary Risk Evaluation (PRE). Building 2134 will remain classified as 7/Grey. UNF-15 was reclassified as 3/Light Green.
	3E	UNF-15	Former WWTP, Main Base	Unknown environmental impacts to the surrounding property and groundwater from the operation of the WWTP.	
9	3E	UNF-14	Former Pesticide, and Herbicide Storage	Large scale pesticide and herbicide spills occurred during operation of facility.	Problem area. Soil had PAHs at 780 to 940 $\mu\text{g}/\text{kg}$ versus 88 $\mu\text{g}/\text{kg}$ allowable. Also Chlordane at 2,300 to 2,900 $\mu\text{g}/\text{kg}$ versus 490 allowable. Will conduct a PRE to determine if additional study is required. UNF-14 will remain classified as 7/Grey.
10	3E		Former Yard Waste Disposal Area	Contents of disposal area unknown.	No significant detections in soil or groundwater analytics. Property is now ready for transfer and was reclassified as 1/White.

See notes at end of table.

**Table 3-3 (Continued)**  
**Installation Restoration Program Non-UST/AST Investigation Synopsis**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Study Area	Priority Zone	Building Number	Name	Remarks	Current Status
Site Screening Group II					
11	8	148	Cold Storage Warehouse (Area C)	Abandoned half buried drum. Soil staining around generator pad transferred to UST program.	Work to start on Group II sites on January 30, 1995.
12	8	1063	DRMO Warehouse (Area C)	Former hazardous waste handling and storage area, spills are suspected and a dry well is onsite.	
13	8	1069	DRMO Warehouse (Area C)	Same as above	
	8	1100 (1101)	Laundry Drycleaners (Area C)	20-gallon perchloroethylene spill reported, other chemicals of unknown origin stored here.	
14	8	1102	Disposal Salvage Scrap Building	3 gallon spill of perchloroethylene	Transferred to UST Program.
15	8	1053	CBU-419 Maintenance Shop	Diesel fuel spill reported	
Site Screening Group III					
16	6	7168	Maintenance Yard	Likelihood of releases of petroleum products from adjacent properties within the motor pool complex.	Proposal for Group III screening to Navy on December 21, 1994.
	6	7171	Army Motor Transportation	Same as above	
	6	7172	Army Battery Shop	Stained soil associated with used battery storage, and possible release of sulfuric acid from inside.	
17	6	7178	Training Material Storage	Evidence of paint dumped down the drains.	
	6	7190	Maintenance Office	Storage of hazardous material and other unlabelled drums.	
	6	7191	Inert Storage Warehouse	Ground staining and paint dumping evident.	
	6	7193	General Warehouse	Same as above	
	6	7195	Pest Control Shop	Storage of pesticides and herbicides.	

See notes at end of table.

**Table 3-3 (Continued)**  
**Installation Restoration Program Non-UST/AST Investigation Synopsis**

Base Realignment and Closure Cleanup Plan  
 Naval Training Center  
 Orlando, Florida

Study Area	Priority Zone	Building Number	Name	Remarks	Current Status
Site Screening Group III (Continued)					
18	6	7182	Housing Office	Hazardous materials including paint, solvents, compressed gasses, and petroleum products stored there.	
19	6	7184	Auto Hobby Shop	Soil staining from waste oil evident.	
20	6	7187	Storage	Probability of pesticide storage	
21	6	7203	Maintenance Shop	Diesel fuel spill in 1993 from a leaking AST.	
22	6	UNF-1	Old Golf Course	Disposal of engines, bomb shells, and spent ordnance.	
23	6	UNF-2	Old Football Field	Area used as a disposal pit for construction debris, and possibility of an unidentified UST.	
24	6	UNF-4	Northwest Swamp	Former disposal area for construction debris.	
	6	UNF-5	Southeast Swamp	Former WWTP at the southeastern area, and demolition debris.	
25	6		Former WWTP, McCoy Annex	Suspect due to the nature of the facility.	
26	7	7351	Camp Bath House (RV Park)	Past use as a fieldstrip and drum storage area.	
	7	7352	Camp Laundry	Past use as a field strip and drum storage area.	
	7	7357	Family Camp Office	In close proximity to the old airstrip, drums once stored here.	
	7	7358	Family Camp	Past use as an airstrip and drum storage area.	
Site Screening Group IV					
27	9	111	Visitor's Pass Office	Evidence of cleaning solvent and paint product disposal in the retention pond.	Proposal for Groups IV and V screening to Navy on December 21, 1994.
	9	2010	Security Building	Presence of raw sewage	
	9	2073	Armory and Hurricane Storage Locker	Cleaning solution draining into retention pond.	
See notes at end of table.					

**Table 3-3 (Continued)**  
**Installation Restoration Program Non-UST/AST Investigation Synopsis**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Study Area	Priority Zone	Building Number	Name	Remarks	Current Status
Site Screening Group IV (Continued)					
28	9	114	Bowling and Arts and Crafts Center	Drip drying of silk screen operation may have impacted the soil and/or GW.	
29	9	127	Grounds Maintenance	Stained soil and stressed vegetation near a storage locker.	
30	9	129	Automotive Hobby Shop	Waste oil storage and antifreeze-water separator.	
	9	131	Paint Shop Materials Storage	Diesel fuel staining and stressed vegetation under an AST.	
	9	2262	Custodial Contractor	Past use as a pest control facility, unknown nature of exposed disposal pipe.	
31	9	354	Nuclear Power Field "A" School	Impacts from UST and the oil-water separator.	
32	9	358	BEQ Heating Plant	Alleged dumping of paints, thinners, and petroleum products when this area was a motor pool.	
33	9	2001	Administration Building	Dry well located on property	
	9	2002	NTC Headquarters	Dry well located on property	
	9	2003	DFAS Office	Hazardous substance disposal	
	9	2004	Administration Building	Stains on floor and walls of boiler shed and mechanical room, and a dry well located on the property.	
34	9	2024	NTC Supply	Abandoned well onsite	
Site Screening Group V					
35	9	2078	Auto Maintenance Facility	Soil staining associated with drum storage area.	Proposal for Groups IV and V Screening to Navy on December 21, 1994.
	9	2079	Auto Maintenance Facility Storage	Unlabeled drum and unknown storage practices concerning the hazardous materials at the facility.	
See notes at end of table.					

**Table 3-3 (Continued)**  
**Installation Restoration Program Non-UST/AST Investigation Synopsis**

Base Realignment and Closure Cleanup Plan  
 Naval Training Center  
 Orlando, Florida

Study Area	Priority Zone	Building Number	Name	Remarks	Current Status
Site Screening Group V (Continued)					
36	9	2121	PW Lumber Storage	Soil staining from an oil spill and drum storage area.	
	9	2122	PW Shops	Suspect past and present storage and disposal of paints and solvents, solvents, and questionable oil collection practices.	
37	9	2414	Flammable Hazardous Waste Storage	Likelihood of thinner and solvent spills, and unknown hazardous material handling practices.	
38	9	4001	Rec. Services Football Field	Extensive oil and fuel staining on the ground.	
39	9	4060	Loading Platform (Building 137)	Dumping of building materials, asbestos, and chemicals onsite.	
	9	4067	Loading Platform (Building 137)	Disposal of building materials and other hazardous substances onsite.	
	9	15109	Irrigation Well	In close proximity to the old coal storage area, and out-of-service well onsite.	
	9	UNF-10	Open Area (west of Nuclear Power School)	Unknown nature of coal staging area. West side of property used as a landfill.	
40	9	21022	Softball Field	In close proximity to the landfill to the south.	
	9	21023	Softball Field	In close proximity to the landfill to the southwest.	
	9	UNF-6	Bottle Landfill	Landfill with unknown contents	
41	9	UNF-8	Open Area	Previous existence of buildings and storage tanks warrant further investigation.	
42	9	2055	Maintenance Shop	Storage of hazardous materials and two filled-in sumps onsite of unknown past use.	
ACM	3A	2713	Picnic Shelter		
ACM	3C	2651	Recycling Center		

See notes at end of table.

**Table 3-3 (Continued)**  
**Installation Restoration Program Non-UST/AST Investigation Synopsis**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Study Area	Priority Zone	Building Number	Name	Remarks	Current Status
Other Areas					
ACM	9	2045	Vacant, scheduled for demolition		
ACM and LBP	5		McCoy Housing		Currently designated as 7/Grey
IR	2		Herndon Annex Landfill <sup>1</sup>		Additional site screening to start January 1995
IR	4	229	Indoor Firing Range		These firing ranges will remain categorized as 7/Grey until future use is determined; the need for additional investigation and remediation will be ascertained at that time.
IR	2	601	Herndon Indoor Firing Range		
OU 1	4	21	RTC Fitness Trail		OU 1 RI/FS workplan being sent for review by BCT. Proposal for execution to Navy on December 21, 1994. Field work negotiated early February 1995.
	4	4004	North Grinder (paved)		
	4	4005	North Grinder (grass)		
	4	4021	South Grinder (paved)		
	4	4022	South Grinder (grass)		
OU 2	7	7355	McCoy Annex Golf Course		OU 2 RI/FS workplan being reviewed by BCT. Proposal for execution to Navy on December 21, 1994. Not scheduled for negotiations during FY 95.
	7	7354	Greens Keeper Storage		
	7	7353	Golf Course Club House		
	7	7356	Lawn Equipment Storage		

<sup>1</sup> Upon installation of additional monitoring wells and analysis of groundwater, a decision will be made regarding additional investigatory requirements at this landfill.

Notes: BEQ = Bachelor's Enlisted Quarters.  
 GW = groundwater.  
 $\mu\text{g}/\text{l}$  = micrograms per liter.  
 MCL = maximum contaminant level.  
 RTC = Recruit Training Command.  
 PCB = polychlorinated biphenyl.  
 DDE = dichlorodiphenyldichloroethene.  
 PAH = polynuclear aromatic hydrocarbon.  
 UNF = unnumbered facility.  
 mg/kg = milligrams per kilogram.  
 $\mu\text{g}/\text{kg}$  = micrograms per kilogram.  
 RBC = risk-based concentration.  
 WWTP = wastewater treatment plant.

DRMO = Defense Reutilization and Marketing Office.  
 CBU = Construction Battalion Unit.  
 RV = recreational vehicle.  
 NTC = Naval Training Center.  
 DFAS = Defense Finance Accounting Service.  
 PW = Public Works.  
 Rec. = Recreational.  
 ACM = asbestos-containing material.  
 LBP = lead-based paint.  
 IR = Installation Restoration.  
 OU = Operable Unit.  
 RI/FS = Remedial Investigation and Feasibility Study.  
 BCT = Base Realignment and Closure (BRAC) Cleanup Team.

**Table 3-4  
Mission and Operations-Related Compliance Projects**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Project	Status	Regulatory Program
Asbestos Identification and Management	An asbestos survey of all housing began in September 1994. A BRAC Asbestos Management Plan will be submitted to the Navy in FY95.	CNO letter 5090.454/6U395735 of November 4, 1986; OPNAVINST 5100.23B CH 4, CH 5; 40 CFR 61.145 (a) and (b); 40 CFR 61.150 (a), (b), and (d); and 40 CFR 61.152.
Hazardous Materials Control and Management Program (HMC&M)	Naval Training Center (NTC), Orlando has a written HMC&M Plan.	OPNAVINST 4110.2 6 and 8.i and OPNAVINST 5090.1a 9-6.6(a) and (c).
Authorized Use List for Hazardous Materials	NTC, Orlando has an authorized use list for hazardous materials used on base.	OPNAVINST 4110.2 Enclosure (2) 2.b
Hazard Communication Program	NTC, Orlando has a written Hazard Communication Plan and has completed a hazardous materials determination and evaluation. Training and information on hazardous chemicals is provided to base personnel.	OPNAVINST 4110.2 6.b, 7.b and 7.c and 29 CFR 1910.1200.
Hazardous Substances Inventory	NTC, Orlando has prepared an inventory of hazardous substances and has notified the appropriate public agencies.	40 CFR 335.30 (c)
Materials Purchasing	NTC, Orlando limits the open purchase of materials.	OPNAVINST 4110.2 8.i(7)
Material Safety Data Sheets (MSDSs)	NTC, Orlando maintains MSDSs for each hazardous material used. The MSDSs, emergency response plan, and hazardous substance inventory form have been made available to the public.	OPNAVINST 4110.2 6.d, 8.c, 8.i(3). Enclosure (2) 2.C; 29 CFR 1910.1200 (G)(1); and 40 CFR 300.215(g).
Hazardous Materials Labeling	NTC, Orlando properly labels containers of hazardous substances. Placards are used when transporting materials offsite.	OPNAVINST 4110.26; 8.i, 29 CFR 1910.1200; and 40 CFR 172.4, 172.5.
Hazardous Waste Minimization Plan	A Hazardous Waste Minimization Plan was started in November 1994 and will be completed third quarter 1995. A Hazardous Waste Management Plan is being written.	OPNAVINST 5090.1a 9-5.9.1, 9-6.5(f), and 9-5.3 and 40 CFR 262.41.
Hazardous Waste Satellite Accumulation Areas and Container Management	A BRAC Industrial Waste Management Plan is being written.	40 CFR 262.34
Personnel Training	As of January 1995, waste management personnel were trained according to the requirements of 40 CFR 265.16. NTC, Orlando is maintaining training for waste management personnel.	29 CFR 1910.120 (g)(iii)(A)
Hazardous Waste Manifesting and Transporting	As of January 1995, the facility was in compliance with applicable manifesting and transportation regulations.	40 CFR 262.12, 262.20, 262.21 and 262.42(b).
See notes at end of table.		

**Table 3-4 (Continued)  
Mission and Operations-Related Compliance Projects**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Project	Status	Regulatory Program
Waste Analysis Plan	NTC, Orlando has a Waste Analysis Plan.	40 CFR 268.7(a)(4)
Air Emission Permits	An Air Emissions inventory has been conducted and a Title V permit application will be prepared, if required. The report on the 1994 Air Emissions Inventory will be produced in January 1995.	Clean Air Act and OPNAVINST 5090.1A 6.6.4(b), (e), (f), (h).
Recapture of Chlorofluorocarbons (CFCs) and Hydrochlorofluorocarbons (HCFCs)	The Automotive Hobby Shop and service stations recycle CFCs and HCFCs. An outside contractor is used for refrigerant recovery.	Clean Air Act
Oil and Hazardous Substance (OHS) Facility Response Plan (FRP)	NTC, Orlando is in the process of producing an OHSFRP. The plan will be submitted in February 1995.	40 CFR 9 and 12
Pesticide Use	As of January 1995, neither the Main Base nor the McCoy Annex golf courses had adequate facilities for the mixing of pesticides. Pesticides are used at NTC, Orlando in accordance with label directions, and in accordance with the applicable sections of 40 CFR 171.	40 CFR 171, 156.10, 12.171, 171, and 165.
Polychlorinated Biphenyls (PCBs)	As of January 1995, all electrical transformers and other electrical equipment had been tested for the presence of PCBs. A BRAC PCB Management Plan will be finalized in FY 95.	OPNAVINST 5090.1A, Chapters 9-5.8, 9-4.3 and 9-5.5.1. 40 CFR 761. Navy policy (Drennon, 1991).
Spill Prevention, Control, and Countermeasures (SPCC) Plan	NTC, Orlando has an SPCC Plan; however, it has not been approved or implemented. Spill prevention meetings are not held at regular intervals. Underground storage tank (UST) piping is not pressure tested periodically and cathodic protection on some tanks is uncertain. The new and updated SPCC plan is expected in February 1995.	40 CFR 112 and 110
Solid Waste Management	The Solid Waste Management Plan will be finalized FY95.	40 CFR 243, 241, 248, 249, 250, 252, and 253, and OPNAVINST 5090.1a 10-6.1.4.
Installation Restoration	Site screening has been performed for Group I study areas. Site screening for Group II study areas is slated to begin in late January 1995. Remedial Investigation and Feasibility Study activities have begun at Operable Unit (OU) 1 and OU 2. The base complies with other applicable sections of CERCLA and 40 CFR 300.	40 CFR 300.410 (a), 300.61 and 300.400, and CERCLA 116(a)(2), 120(d) and (f), and 103.
Underground Storage Tanks (USTs)	A draft Tank Management Plan has been written.	40 CFR 280. FDEP regulations. Alternative Procedures Agreement between NTC, Orlando and FDEP
See notes at end of table.		

**Table 3-4 (Continued)  
Mission and Operations-Related Compliance Projects**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Project	Status	Regulatory Program
Potable Water	As of December 1994, NTC, Orlando did not have an organized cross connection control program per FDEP requirements. A backflow preventer survey is scheduled to begin as is an illicit discharge investigation.	FDEP, 40 CFR 141 and 143 and OPNAVINST 5090.1A 8-5.4
Wastewater Management	NTC, Orlando's NPDES Permit has expired. As of January 1995, the permit had not been renewed (the application has been submitted). NTC, Orlando complies with pre-treatment requirements; however, the base did not have certification that all outfalls have been evaluated for non-stormwater discharges. Both a stormwater pollution prevention plan and a BRAC water and wastewater management plan are scheduled for submittal in FY95.	OPNAVINST 5090.1a and 40 CFR 122
Natural Resources Management	Work has begun on Environmental Impact Statement (EIS) and the contractor will also conduct archival research, an intensive archeological survey, and an archeological study.	16 USC 670, 703-711 and 1536; 32 CFR 265; 42 USC 4321-4361, 1531 et seq.
Pollution Prevention Plan and EPCRA Reporting	If NTC, Orlando does not have to report under Form R of EPCRA (due July 1, 1995), the base is exempt from having to generate a Pollution Prevention Plan (due December 31, 1995) (Owens, 1994). At this time, SOUTHNAVFAC-ENGCOM is planning to have a Pollution Prevention Plan prepared by a contractor. Tier II form and supporting documentation and Form R and supporting documentation are being compiled by a contractor.	Executive Order 12856

Notes: CNO = Chief of Naval Operations.  
 CH = chapter.  
 OPNAVINST = operating procedure, naval instructions.  
 CFR = Code of Federal Regulations.  
 BRAC = Base Realignment and Closure.  
 CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act.  
 FDEP = Florida Department of Environmental Protection.  
 NPDES = National Pollution Discharge Elimination System.  
 USC = U.S. code.  
 EPCRA = Emergency Planning and Community Right-To-Know Act.  
 SOUTHNAVFACENGCOM = Southern Division, Naval Facilities Engineering Command.

Aboveground tanks with a capacity of over 550 gallons are regulated; however, there is an exemption for ASTs storing less than 30,000 gallons of heating oil for use on the premises. There are no regulated ASTs at NTC, Orlando.

Compliance Status. As of the end of 1994, the compliance status of the 42 regulated tanks in the NTC, Orlando UST program was as follows:

- 6 tanks were in full compliance with current and upcoming State regulations,
- 23 tanks were taken out of service and closed,
- 12 tanks were in compliance but will need to be upgraded to new State regulations or removed, and
- 1 tank is out of compliance.

ABB-ES is developing a management plan for underground and aboveground storage tanks. The Tank Management Plan (TMP) will include schedules for remedial actions, tank assessment procedures, RAC procedures, Tank Inventory Management System (TIMS) update, tank location maps, and a generic Health and Safety Plan (HASP). The draft TMP was submitted to the Navy in January 1995 and is currently being reviewed.

Spill History. In 1942 six gasoline and diesel USTs (Facilities 7174-1 through 7174-6 with a total storage capacity 28,000 gallons) were installed at the McCoy Annex base exchange service station. In 1986 in response to reports of losses in inventory, the tanks were abandoned-in-place by filling them with sand. Four 10,000-gallon fiberglass USTs (Facilities 7174-7 through 7174-10) were installed in their place. As part of the tank installation, four compliance monitoring wells were constructed around the new tanks. A contamination assessment was conducted and drew the following conclusions (ABB-ES, 1991b).

- The replacement tanks and piping were intact and not leaking following precision tank testing.
- No free product was detected in the monitoring wells; however, dissolved constituents were detected.
- Potential sources of contamination included fuel overfill and spillage and/or residual contamination from the abandoned tanks.

A subsequent CA was conducted that revealed the following additional findings (ABB-ES, 1992a).

- Contaminants identified in the groundwater include the following.

Contaminant	Concentration in Groundwater ( $\mu\text{g}/\ell$ )	MCL <sup>1</sup> ( $\mu\text{g}/\ell$ )
1,2-Dichloroethane	3.2	3
Benzene	4,300	1
Ethylbenzene	1,100	700
Toluene	9,800	1,000
Xylene	6,400	10,000
Methyl tert-butyl ether (MTBE)	36,000	None
Ethylene dibromide	1.4	None
Total recoverable petroleum hydrocarbons	13,000	5,000
Naphthalene	280	<sup>2</sup> 100
1-Methylnaphthalene	41	None
2-Methylnaphthalene	75	<sup>2</sup> 100

<sup>1</sup> These values are the drinking water standards for the State of Florida. They are presented here for comparison value only. Final cleanup levels will be based on a site-specific risk assessment.

<sup>2</sup> The maximum contaminant limit (MCL) is the total of naphthalene and 2-methylnaphthalene.

Note:  $\mu\text{g}/\ell$  = micrograms per liter.

In addition:

- The vertical extent of contamination, as defined by the deep well (30 feet), did not exceed 30 feet bls.
- There were no identifiable potable wells within a 1-mile radius.
- Hydraulic conductivity was calculated to be 2.57 feet per day.
- Hydraulic gradient was calculated to be 0.02 foot per foot.
- The direction of groundwater flow in the surficial aquifer was generally to the south.
- Groundwater beneath the site was encountered at a depth of 4 to 7 feet bls.

A soil vapor survey, using an organic vapor analyzer, concluded that soil contamination was generally within the boundaries of the McCoy Annex base exchange service station. The greatest concentrations were found downgradient of the newer tanks, between the tanks and pump islands. It was also determined that the fill ports of the northern USTs were not properly grouted from 1986 to 1989. During this time, excess product from the tanker truck hose drained into the fill port vault and percolated down to the surficial aquifer. Contaminant isoconcentration maps indicated that the source (fill ports at the northern tank pad) was no longer active and that the contaminant plume was migrating downgradient (south) of the source. An RAP, written to address cleanup of contamination at Building 7174,

has been approved. SOUTHNAVFACENCOM has met with ABB-ES and the RAC. Execution of the RAP by the RAC should begin FY95 (Vazquez, 1994).

A monitoring program was conducted immediately north of Building 2080 where Tanks 2080A through 2080D were removed during the 1980's. During removal, a sheen was observed on the surface of the groundwater in the excavation pit and a small hole was observed in one of the tanks. Five monitoring wells were installed in August 1988. The wells were sampled and analyzed for volatile organics and lead. No free petroleum product was detected. The greatest concentration of lead was 7 micrograms per liter ( $\mu\text{g}/\text{l}$ ) in well OLD-2080-3. Several volatile organics were detected: benzene ( $6 \mu\text{g}/\text{l}$ ), toluene ( $3 \mu\text{g}/\text{l}$ ), total xylenes ( $51 \mu\text{g}/\text{l}$ ), and MTBE ( $52 \mu\text{g}/\text{l}$ ).

An MOP was prepared for the site under Chapter 62-770, FAC, as the source had been removed and groundwater analyses indicated contaminant concentrations were near or below maximum contaminant levels (MCLs) (ABB-ES, 1991a). Upon completion of the fourth quarter sampling event (submitted to FDEP in March 1992), a site rehabilitation completion letter was submitted. FDEP concurred that no further action was necessary at the Building 2080 site on June 4, 1992 (Roberts, 1994a).

Compliance monitoring wells were also installed around Tank 129 (Building 129) and Tank 7184-B (Building 7184 at the McCoy Annex). Both of these tanks are located at automotive hobby centers. No petroleum contamination was encountered in soil or groundwater at either site (E.C. Jordan Co., 1990).

A fuel oil spill of approximately 100 gallons occurred in 1986 at Tanks 7175-A and 7175-B. As of January 1995, Tanks 7175-A, 7175-B, 2273-1, and 2273-2 have been removed. Tanks 2273-3 and 2273-4 are currently in service. The base has no information indicating a history of spill problems at these remaining tanks (Smith, 1994).

Finally, it is noted that there were two 300-gallon USTs at the Main Base dry cleaning facility (Building 2018). The tanks were used to store PCE or petroleum products. One tank was removed and one tank remains in service. The base has no information that indicates a history of spills at this facility (Smith, 1994).

**3.2.1.2 Hazardous Material and Waste Management** NTC, Orlando does not treat, store or dispose of hazardous wastes. The Main Base and Area "C" are Class II small quantity generators (SQGs) (storage limited to 180 days). The McCoy Annex and Herndon Annex are conditionally-exempt SQGs (unrestricted accumulation time). The USEPA hazardous waste generator identification numbers for the base are as follows.

<u>Location</u>	<u>Identification Number</u>
Main Base	FL5170024736
Area "C"	FL1170024767
McCoy Annex	FL8170024733
Herndon Annex	FL2170024408

Hazardous waste is collected at satellite accumulation areas (SAAs). Mixing or combining of like or compatible wastes is conducted either at the SAA or at the hazardous materials facility (Building 2817). DRMO Patrick Air Force Base in Cocoa Beach, Florida, manages the hazardous property disposal contract for NTC,

Orlando, coordinates the pick-ups of hazardous waste with the licensed hauler, and co-signs the manifests as generator.

A facilities environmental compliance profile (FECF) compiled in January 1993 indicated that the base is in compliance with all RCRA regulations (SOUTHNAVFAC-ENGCOM, 1993). Further, NTC, Orlando has an active hazardous waste minimization program that has investigated methods of reducing silver wastes from photoprocessing and solvent wastes from dry cleaning.

ABB-ES is developing a management plan for hazardous waste and industrial waste. The BRAC Hazardous Waste Management Plan (HWMP) and the BRAC Industrial Waste Management Plan (IWMP) will include facility location maps, a summary of findings, current facility status regarding the deficiencies, options, and recommendations, schedules for remedial actions, cost estimates, and identification of any operations and maintenance required to manage the facility until title transfer. Draft submittal of the HWMP and IWMP to the Navy is expected in FY95.

**3.2.1.3 Solid Waste Management** Solid waste generated by NTC, Orlando is collected on a regularly scheduled basis by a commercial waste collection service and disposed offsite (Roberts, 1994a). At one time, the naval hospital used a small incinerator (currently inoperable) for medical waste. Since 1990, medical waste has been collected by a commercial contractor for offsite disposal. The ECE conducted in November 1991 stated that a solid waste management plan (SWMP), as required by Operating Procedure Naval Instruction (OPNAVINST) 5090.1A, had not yet been developed. The SWMP will be finalized in FY95.

**3.2.1.4 Polychlorinated Biphenyls (PCBs)** NTC, Orlando has one hazardous waste identification number for storing or generating PCB wastes. A base-wide remedial program was initiated in 1984 for compliance with USEPA and OPNAVINST requirements for handling PCBs in electrical equipment. At the time of the survey, 18 PCB-contaminated transformers (50 to 499 ppm PCB) remained on base; 17 transformers, with a volume of 905 gallons, were in use; and 1 transformer, with a volume of 50 gallons, was in storage for disposal. Leaking PCB-contaminated transformers have been replaced or repaired. Since then two more PCB-contaminated transformers have been found. As of January 1995, the transformer in storage has been disposed, 5 transformers are in storage awaiting disposal, and 14 transformers remain in use. The concentration of PCBs in operating equipment ranges from 45 to 56.2 ppm; therefore, it is classified as PCB-contaminated (50 ppm to 500 ppm).

ABB-ES developed a management plan for PCBs. The BRAC PCB Management Plan (PMP) includes facility location maps, a summary of findings, current facility status regarding the deficiencies, options and recommendations, schedules for remedial actions, cost estimates, and identification of any operations and maintenance required to manage the facility until title transfer. As of January 1995, a draft PMP has been submitted to the Navy.

**3.2.1.5 Asbestos** An asbestos-containing material (ACM) survey and ACM building inventory were conducted at NTC, Orlando by Cape Environmental Management, Inc. (CEMI), in 1991 as contracted through SOUTHNAVFACENGCOM. The base-wide survey identified friable and suspect non-friable ACM at selected facilities and included a summary of the facility ranking by building in priority of corrective action. The results were compiled into a report that provided a record of ACM type, location, and status (CEMI, 1992). In conjunction with the lead-based paint (LBP) survey of residential structures at the base, begun in September 1994, CEMI is

re-surveying for the presence and condition of ACM in every building. This report is expected to be finalized in 9 to 10 months.

ABB-ES is developing a management plan for ACM. The BRAC Asbestos Management Plan (AMP) will include facility location maps, a summary of findings, current facility status regarding the deficiencies, options and recommendations, schedules for remedial actions, cost estimates, and identification of any operations and maintenance required to manage the facility until title transfer. Draft submittal of the AMP is expected in third quarter FY95.

3.2.1.6 Radon Assessments were performed for radon contamination at NTC, Orlando in 1991 and 1993 (Wilson, 1993). Over 1,000 monitors were placed in base buildings (military family housing units, child-care facilities, recruiting barracks, visiting officer's and enlisted quarters, and hospital rooms). In preliminary reports, the analytical results showed radon concentrations at or above 4 picocuries per liter (pCi/l) but less than 10 pCi/l in a small percentage of the detectors. DOD policy is to provide full disclosure of radon assessment data in property transfer documents (Munsell, 1994). There are no State or Federal requirements to perform follow-up radon assessment or mitigation in Federal buildings, including Federal buildings to be transferred to the public or private sector.

ABB-ES developed a management plan for radon. The BRAC Radon Management Plan (RMP) will include facility location maps, a summary of findings, current facility status regarding the deficiencies, options and recommendations, schedules for remedial actions, cost estimates, and identification of any operations and maintenance required to manage the facility until title transfer. The RMP will be finalized FY95.

3.2.1.7 Resource Conservation and Recovery Act (RCRA) Facility Solid Waste Management Units (SWMUs) Because NTC, Orlando is not a permitted RCRA facility, a Part B permit application has not been submitted; therefore, a RCRA Facility Assessment (RFA) has not been conducted at the site, and no RCRA SWMUs have been identified.

3.2.1.8 National Pollutant Discharge Elimination System (NPDES) Permits Wastewater from the Main Base flows to the city of Orlando's Iron Bridge Regional Water Pollution Control Facility via the Bennett Road pumping facility. In May 1988 the U.S. Navy requested that the USEPA deactivate NPDES permit No. FLO026069 for the McCoy WWTP. On September 30, 1989, USEPA acknowledged that the NPDES permit for this facility was deactivated (Barrett, 1989). Wastewater from McCoy Annex now flows to the city of Orlando's Water Conserve I WWTP. No pretreatment of either waste stream is conducted (SOUTHNAVFACENCOM, 1993).

On September 7, 1988, an application was submitted for renewal of NPDES permit No. FLO031941 for the discharge of nonprocess wastewater. As of September 1994, the permit had not been renewed (Roberts, 1994). The application was for 14 noncontact cooling water discharge outfalls. These discharges have since been connected to the sanitary sewer (Roberts, 1994b).

A Group Permit Application for Stormwater Discharges was submitted by SOUTHNAVFAC-ENCOM on July 2, 1992, for NTC, Orlando and other Navy facilities. As of September 9, 1994, the approval of the application was still pending. In support of this application, an Industrial Outfall Summary number was prepared for the

Main Base, Area "C," Herndon Annex, and McCoy Annex (PBS&J, 1993). The results can be summarized as follows.

- Main Base has nine outfalls, four of which are monitoring and sampling stations. In addition, three of the outfalls, MB-01, MB-33 and MB-34, may have potentially illicit discharge points.
- Area "C" has four outfalls, only one of which is identified as a sampling and monitoring station.
- Herndon Annex has two outfalls, neither of which is designated as a sampling or monitoring station.
- McCoy Annex has 13 outfalls, 3 of which are sampling and monitoring stations. In addition, two outfalls, NA-03 and NA-07, may have potentially illicit connections to the stormwater system.

Having filed a Group Permit Application, NTC, Orlando will be required to file a Multi-Sector General Permit Application once the regulatory agency finalizes the application form. This was expected to occur in the fall of 1994; however, as of February 1995, the application has not yet been finalized. Based on the draft version of the application form, the provisions of the Multi-Sector General Permit Application will trigger several actions according to a prescribed schedule. These would include outfall monitoring starting immediately, preparation of a stormwater pollution prevention plan within 270 days, and completion of construction projects necessary to implement the pollution prevention plan within 3 years of the plan's submittal. Annual updating of the plan would also be required (Works, 1994).

ABB-ES developed a management plan for water and wastewater. The BRAC Water and Wastewater Management Plan (WWMP) includes facility location maps, a summary of findings, current facility status regarding the deficiencies, options and recommendations, schedules for remedial actions, cost estimates, and identification of any operations and maintenance required to manage the facility until title transfer. The WWMP will be finalized in FY95.

Public Works Center (PWC) Pensacola personnel will identify, assess, and inventory back flow preventers at NTC, Orlando during fall 1994. The report will include a list of deficiencies discovered during testing, inspection, and certification of each preventer. This study will not establish where additional back flow preventers are needed. In addition, an illicit discharge investigation began in October 1994.

A draft Stormwater Pollution Prevention Plan was submitted to the Navy in October 1994. This plan focuses on industrial runoff. Lift stations and potable water sources were not included.

**3.2.1.9 Oil-Water Separators** Pertinent information concerning oil-water separators at NTC, Orlando is summarized in Table 3-5.

**Table 3-5  
Oil-Water Separators**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Area	Building	Activity	Influent	Effluent and Receptor	Size (gal)	No.
Main Base	129	Automotive Hobby Shop (no longer in use).	Antifreeze and oil	Effluent oil reclaimed; effluent water discharged to POTW.	225	1
Main Base	133	Car Wash	Wash water	Effluent oil reclaimed; effluent water discharged to POTW.	225	1
Main Base	132	Car Wash	Wash water	Effluent oil reclaimed; effluent water discharged to POTW.	225	1
Main Base	200	Old Fire-fighting Facility <sup>1</sup> .	Diesel fuel	No longer in use	500	2
Main Base	2079	Transportation Wash Rack.	Wash water	Effluent oil reclaimed; effluent water discharged to POTW.	120	1
Area "C"	1053	CBU 419 Wash Rack	Wash water	Effluent oil reclaimed; effluent water discharged to POTW.	NA	1
McCoy Annex	7171	U.S. Army Reserve Motor Pool <sup>2</sup> .	Wash water	Effluent oil reclaimed; effluent water discharged to POTW.	650 42	1 1
McCoy Annex	7174	Automotive Hobby Shop.	Drainage from bays	Abandoned (probably for 10 years).	350	1

<sup>1</sup> This facility now uses only propane; hence, the oil-water separators are no longer in use. Historically, periodic malfunctions resulted in the need to install an oil boom at the outfall. Building 200 was scheduled for demolition in 1995. The oil-water separators will be removed during demolition.

<sup>2</sup> The large oil-water separator is preceded by one small (42-gallon) oil-water separator.

Notes: gal = gallon.  
No. = number.  
POTW = Publicly Owned Treatment Works.  
CBU = Construction Battalion Unit.  
NA = size of oil-water separator not available.

3.2.1.10 Air Emissions and Pollution Permits NTC, Orlando has 84 permitted air emission sources, which are listed below.

Permit No.	Expiration Date	Location	Type
A048-202035	12/30/96	Main Base	70 boilers
A048-201690	09/25/96	Main Base	5 water heaters
A048-161813	07/30/94	Main Base	1 incinerator (no longer in use)
A048-202032	12/30/96	Herndon	1 boiler
A048-180281	06/25/95	Area "C"	2 boilers
A048-214999	08/30/97	Area "C"	1 dry cleaner
A048-202036	12/30/96	McCoy Annex	4 boilers

These permits were issued under the provisions of Chapter 403, Florida Statutes, and Chapter 62-2, FAC. All units have annual testing and inspection dates. Testing and inspection was performed in September 1994. All fuel burning operations at NTC, Orlando were in full compliance with Federal, State, and local laws and regulations. The medical waste incinerator requires extensive repair, but there are no plans to put it back in service. Medical wastes will continue to be collected by a commercial contractor and the air permit for this facility was allowed to expire (July 30, 1994) (Ballinger, 1994b). The air permit will not be reactivated because the medical waste incinerator is no longer in use.

Approximately 80 percent of the boilers currently burn natural gas as their primary fuel and No. 2 fuel oil as their secondary fuel. Approximately 8 percent are natural gas-fired units only and 12 percent are No. 2 fuel oil-fired units only. Total annual air emissions from these stationary fuel burning operations amount to 14 tons, 74 percent of which are nitrogen oxides, 15 percent are sulfur oxides, and 6 percent are particulates. Emissions have been reduced by converting the boilers to natural gas instead of No. 2 fuel oil (Environmental Fact Sheet 4, 1993). NTC, Orlando holds a permit to discharge a total of 33 tons of volatile organic compounds (VOCs) from the dry cleaning operation annually (Navy Air Pollution Source Information System [NAPSIS], 1989a; 1989b). However, actual emissions are much lower due to the use of a recovery system that provides excellent control for PCE emissions (Roberts, 1994b). All of the air permits expire prior to the scheduled closure of NTC, Orlando in 1998 (ABB-ES, 1992b).

Subsection 4.2.10 discusses the long-term strategy of air permitting, specifically whether or not the permits will need to be renewed.

In addition to the 84 permitted air emission sources, 31 boilers at Main Base, McCoy Annex, Area "C," and Herndon Annex are not subject to permitting requirements. The 31 boilers were inspected in 1993 and the results indicated that 27 were operating properly, 2 (located at Buildings 303 and 2026) had been removed from service and are in dry lay-up, and 2 (located at Building 211) were operating but required maintenance (Roberts, 1994c). Boiler No. 2 at Building 211 has been cleaned; however, boiler No. 1 has not. These boilers are fueled by either natural gas, No. 2 fuel oil, or propane.

An Air Emissions Inventory was conducted by CNET during August 1994. The final report from CNET is expected by January 1995. Based on the results of the inventory, NTC, Orlando may be required to submit a Title V permit application.

**3.2.1.11 Lead-Based Paint** Paint used on housing facilities at McCoy Annex was investigated by Law Engineering, Inc. (Law), in February 1993 using the materials analytic probe (MAP) "Spectrum Analyzer" that operates on the principle of x-ray fluorescence. The scope of the survey was limited to testing the lead content of porch ceilings, carport ceilings, and exterior walls of 23 on-base housing units. Twenty-nine of 42 tests for lead were positive, with concentrations ranging from 1.48 to 7.18 milligrams per square centimeter (mg/cm<sup>2</sup>). Law observed that the condition of the paint on these surfaces was poor and recommended that the Navy "renovate carports and porches by complete demolition," and that soil adjacent to graded slabs of the structures be sampled and analyzed for lead (Law, 1993). Since this survey was completed, several other non-housing structures slated for demolition have tested positive for LBP. Management of lead in these buildings will be decided on a case-by-case basis.

ABB-ES is developing a management plan for lead-based paint. The BRAC Lead-Based Paint Management Plan (LPMP) will include facility location maps, a summary of findings, current facility status regarding the deficiencies, options and recommendations, schedules for remedial actions, cost estimates, and identification of any operations and maintenance required to manage the facility until title transfer. Draft submittal of the LPMP is expected in summer 1995.

In conjunction with the ACM survey of residential structures at NTC, Orlando begun in September 1994, CEMI is also surveying for the presence of LBP.

A further discussion of LBP is included in Paragraph 3.2.2.11.

**3.2.1.12 Lead in Drinking Water** Testing was performed for lead in drinking water in spring 1994 because NTC, Orlando is a supplier of potable water. In this testing, lead in samples of potable water from several buildings exceeded the drinking water standard for lead. The number of exceedances was within the allowable failure rate set by FDEP. In November 1994, NTC, Orlando passed all responsibilities as a potable water distributor to the city of Orlando. As a result, NTC, Orlando is no longer responsible for the quality of the base's drinking water. A further discussion of this issue is included in Paragraph 3.2.2.12.

**3.2.2 Closure-Related Compliance Projects** Closure-related compliance projects are those involving regulations or policies directly related to base closure, or that have deadlines occurring after the installation closure date. Closure-related compliance projects for NTC, Orlando are summarized in Table 3-6. Some closure activities are required regardless of the planned future use of the installation; others may become apparent as the future use is more clearly defined. As this BCP is updated, Table 3-6 will be revised. The status of closure-related compliance projects currently implemented or scheduled to be implemented at NTC, Orlando, is outlined below.

**Table 3-6  
Closure-Related Compliance Projects**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Project	Status	Regulatory Program
Storage Tanks	There are 297 storage systems.  29 will remain in place 97 removed or to be removed shortly 56 will be removed in 1995 9 will be removed in 1996 2 will be removed in 1997 86 will be removed in 1998 18 have indefinite removal schedules	FDEP regulations; FDEP Alternative Procedures Agreement with NTC, Orlando; and 40 CFR 280.
Hazardous Materials and Waste Management	Decontamination and/or closure of selected process units.	Process decontamination and closure procedures for NTC, Orlando.
Asbestos	Several buildings have been identified with damaged friable asbestos. Remediation and abatement will be scheduled in accordance with the disposal plan.	40 CFR 61.145 and Navy policy (Munsell, 1994).

Notes: FDEP = Florida Department of Environmental Protection.  
NTC = Naval Training Center.  
CFR = Code of Federal Regulations.

**3.2.2.1 Storage Tanks** NTC, Orlando expects to close Herndon Annex and lease the property by March 1995. Before such activity can occur, a 10,000-gallon UST associated with Building 607 and a 360-gallon UST associated with Building 610 must be investigated. The condition (integrity) of the two tanks is unknown. The Navy has contracted with the RAC to remove the Building 610 tank and conduct an Interim Remedial Action, if required. ABB-ES will conduct soil sampling, and possibly groundwater sampling. If required, a CA will also be conducted. No actions have been specified for the Building 607 tank.

**3.2.2.2 Hazardous Material and Waste Management** As stated in Subsection 3.2.2.1, NTC, Orlando has two conditionally exempt SQGs and two SQGs. These SQGs are in compliance with all regulatory requirements. Deficiencies are corrected as they are discovered.

**3.2.2.3 Solid Waste Management** There are no compliance issues related to solid waste management that are unique to base closure. The status of solid waste management is discussed in Paragraph 3.2.1.3.

**3.2.2.4 Polychlorinated Biphenyls** There are no compliance issues related to PCBs that are unique to base closure. The status of PCBs is discussed in Paragraph 3.2.1.4.

**3.2.2.5 Asbestos** Several buildings listed as POIs in Table H-1 (Appendix H) contain damaged friable asbestos. The majority of these buildings are scheduled to be demolished. Demolition will be accomplished in accordance with 40 Code of Federal Regulations (CFR) 61.145. In accordance with Navy closure policy,

remaining buildings will be checked for the presence of asbestos. The Navy will follow DOD closure policy as discussed in Section 4.2.5.

**3.2.2.6 Radon** There are no compliance issues related to radon that are unique to base closure. The status of radon is discussed in Paragraph 3.2.1.6.

**3.2.2.7 RCRA Facility SWMUs** There are no compliance issues related to RCRA Facility SWMUs that are unique to base closure. The status of RCRA facility SWMUs is discussed in Paragraph 3.2.1.7.

**3.2.2.8 NPDES Permits** There are no compliance issues related to NPDES permits that are unique to base closure. At the time of closure, the State will be notified as to which permits are no longer needed.

**3.2.2.9 Oil-Water Separators** There are no compliance issues related to oil-water separators that are unique to base closure. The future use of the property will dictate whether the units will remain in place or be removed. The status of oil-water separators is presented in Table 3-5.

**3.2.2.10 Air Emissions and Pollution Permits** There are no compliance issues related to air emissions and pollution permits that are unique to base closure. At the time of closure, the State will be notified as to which permits are no longer needed or have been transferred to new owners.

**3.2.2.11 Lead-Based Paint** There is disagreement between the Navy and FDEP concerning the transfer of properties potentially containing LBP. The FDEP believes all buildings slated for transfer (residential or non-residential), built before 1978, should be classified as 7/Grey and tested for LBP. Furthermore, if a building tests positive for LBP but is not peeling, then the building should be classified as 2/Blue even though the FDEP does not consider this to be storage of hazardous materials.

The Navy's position was reiterated by a policy memorandum from the Under Secretary of Defense for Environmental Security dated October 31, 1994. This policy states that BRAC properties will be transferred according to all Federal, State, and local requirements relevant to LBP and its associated hazards. Action is limited to housing constructed prior to 1978 and excluded housing scheduled for demolition or scheduled for non-residential use.

The Navy intends to notify all future owners of properties to be transferred of the extent and condition of the property through the final EBS report and the FOST and FOSL. The Navy agrees that all housing should be classified as 7/Grey and is testing each property to determine the extent of LBP. The Navy does not plan to extend the requirements for LBP to non-residential buildings. For further discussion of LBP see Paragraph 3.2.1.11.

**3.2.2.12 Lead in Drinking Water** As discussed in Section 3.2.1.12, lead in potable water samples from several buildings exceeded lead in drinking water standards during testing conducted in spring 1994. The number of exceedances was within the allowable failure rate set by FDEP. Every building that failed was unoccupied and will remain unoccupied until the time of transfer.

FDEP, in disagreement with the Navy and USEPA, argue that lead concentrations in drinking water in excess of the MCL of 15 parts per billion constitutes a release

of a hazardous substance. FDEP states that each of these buildings should be reclassified as 7/Grey until they are retested. If they pass, the building should be reclassified as 1/White; however, if they fail, they should be reclassified as 6/Red until the problem is resolved.

NTC, Orlando does not plan to retest any buildings that failed because those buildings are unoccupied. The Navy will notify all future owners of the environmental condition and extent of property, including failure of the lead-in-drinking-water tests, through the final EBS report and the FOSL or FOST accompanying any property transfer.

A further discussion of lead in drinking water is included in Paragraph 3.2.1.12.

**3.3 STATUS OF NATURAL AND CULTURAL RESOURCES.** NTC, Orlando has an approved Natural Resources Management Plan, which was last updated in 1992, that includes a Land Management Section, a Fish and Wildlife Section, and a Forestry Section. Natural and cultural resources of the facility are overseen by SOUTHNAVFACENGCOM. Each program is discussed below.

**3.3.1 Surface Water** There are two lakes on the Main base, Lake Baldwin (formerly Lake Corrine) and Lake Susannah. Both lakes contained nuisance plants that interfered with recreational activities including: sport fishing, waterskiing, sailing, and canoeing. As a result, the base has been the site of an intensive study by the State of Florida in the use of grass carp (*ctenophoryngodon idella*) for the control of aquatic vegetation. Lake Baldwin was the primary site of the study and was originally stocked by the State in 1975. Lake Susannah was stocked with sterile carp in 1984. The study showed that grass carp could be used as an effective biocontrol for aquatic vegetation provided the lake is kept stocked with these fish (Shireman and others, 1984).

Lake Baldwin and Lake Susannah are both included in Group I and were investigated through site screening. Lake Susannah showed no significant detections of contaminants in surface water and sediment samples. Lake Baldwin had no significant contaminant detections in surface water or sediment samples; however, magnetic anomalies may be present. Divers will further investigate for the presence of magnetic anomalies.

**3.3.2 Threatened and Endangered Species (State and Federal)** The gopher tortoise (*Gopherus polyphemus*) is listed as a "species of special concern" by the State of Florida (ABB-ES, 1995) and has been identified as a "candidate species for special listing" by the U.S. Fish and Wildlife Service. Studies and visual observations of new burrows by base personnel support the supposition that the gopher tortoise is a confirmed resident. This species typically resides on the southern end of McCoy Annex and Herndon Annex (ABB-ES, 1995). Gopher tortoise burrows have been seen at the golf course on Main Base. The indigo snake (*Drymarchon corais*), listed as "threatened" by the U.S. Fish and Wildlife Service and by the State of Florida, typically co-winters with the gopher tortoise. In a 1992 study, no indigo snakes were found at NTC, Orlando (SOUTHNAVFACENGCOM, 1992b).

The American alligator (*Alligator mississippiensis*), listed as a "species of special concern" in the State of Florida and "threatened due to similar appearances" by the U.S. Fish and Wildlife services, is a confirmed resident.

The species typically resides in wetlands, lakes, and swamps found on the base (ABB-ES, 1994). Alligators currently inhabit several of the wetland areas on the base (SOUTHNAVFACENGCOM, 1987c).

The Main Base is in the habitat range of the threatened Florida scrub jay (*Aphelocoma coerulescens*), but none have been sighted on the base. McCoy Annex has the greatest potential for habitat for the jay, but none were sighted in a 1984 survey. It was concluded that the chances were small that the bird would take up residence because of dwindling habitat.

The Main Base is also in the habitat range of the southeastern American kestrel (*Falco sparverius*), which is listed as "threatened" by the State of Florida. In a 1987 study, the kestrel was not located at NTC, Orlando and, as a result, is not considered a likely or confirmed resident. The Main Base is also in the habitat range of the Florida mouse (*Peromyscus floridanus*), which is listed as "threatened" by the State of Florida. In a study conducted in 1987, efforts to locate the mouse through trapping failed. As a result, it was determined that the Florida mouse is probably not a resident (SOUTHNAVFACENGCOM, 1987b).

The bald eagle (*Haliaeetus leucocephalus*) is a confirmed visitor to Lake Baldwin (Main Base). This species is listed as "endangered" by the U.S. Fish and Wildlife Service and "threatened" by Florida Game and Freshwater Fish Commission.

**3.3.3 Wetlands** Based upon National Wetlands Inventory Maps provided by the U.S. Department of the Interior, Fish and Wildlife Service, approximately 600 acres of wetlands have been identified at NTC, Orlando. Wetlands are classified as being either lacustrine or palustrine and, as shown on Figures 3-3 and 3-4, NTC, Orlando contains wetlands of both types. NTC, Orlando has 34 defined wetland areas that provide natural drainage for stormwater runoff (SOUTHNAVFACENGCOM, 1986).

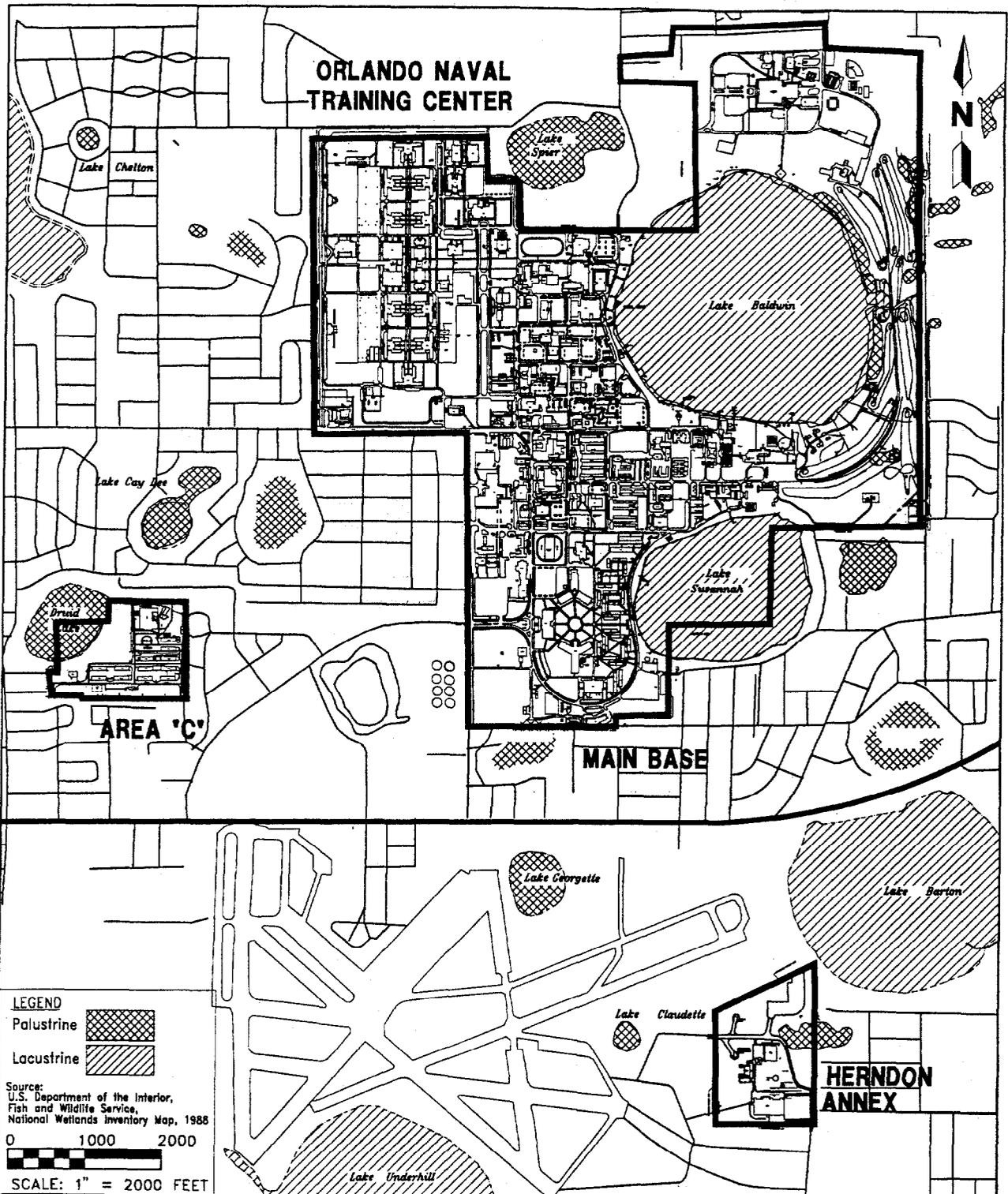
**3.3.4 Historic Structures and Resources** NTC, Orlando has no structures or resources of cultural or historical significance.

**3.3.5 Archeological Resources** In 1993 a State Historic Preservation Officer performed an archeological survey at NTC, Orlando. There were no historic structures discovered.

**3.3.6 Native American Resources** Native American resource studies have never been conducted on NTC, Orlando.

**3.3.7 Sensitive Habitats** The gopher tortoise currently resides in a stressed habitat at NTC, Orlando. Burrows have been sighted at the southern end of McCoy Annex, Herndon Annex, and on the Main Base golf course. As a result, special care must be taken when developing in this area. Gopher tortoises prefer open areas to the congestion of man-made structures and landscaping. As land is further developed, sensitive habitats dwindle.

**3.3.8 Floodplains** The Main Base has a topographical elevation ranging from 100 to 125 feet above sea level. The base is flood prone only near Lake Baldwin and Lake Susannah. Herndon Annex has no floodplain constraints and McCoy Annex has no floodplain constraints except for a small band around Lake Druid. Figure 3-5 details the floodplains associated with the Main Base (SOUTHNAVFACENGCOM, 1986).

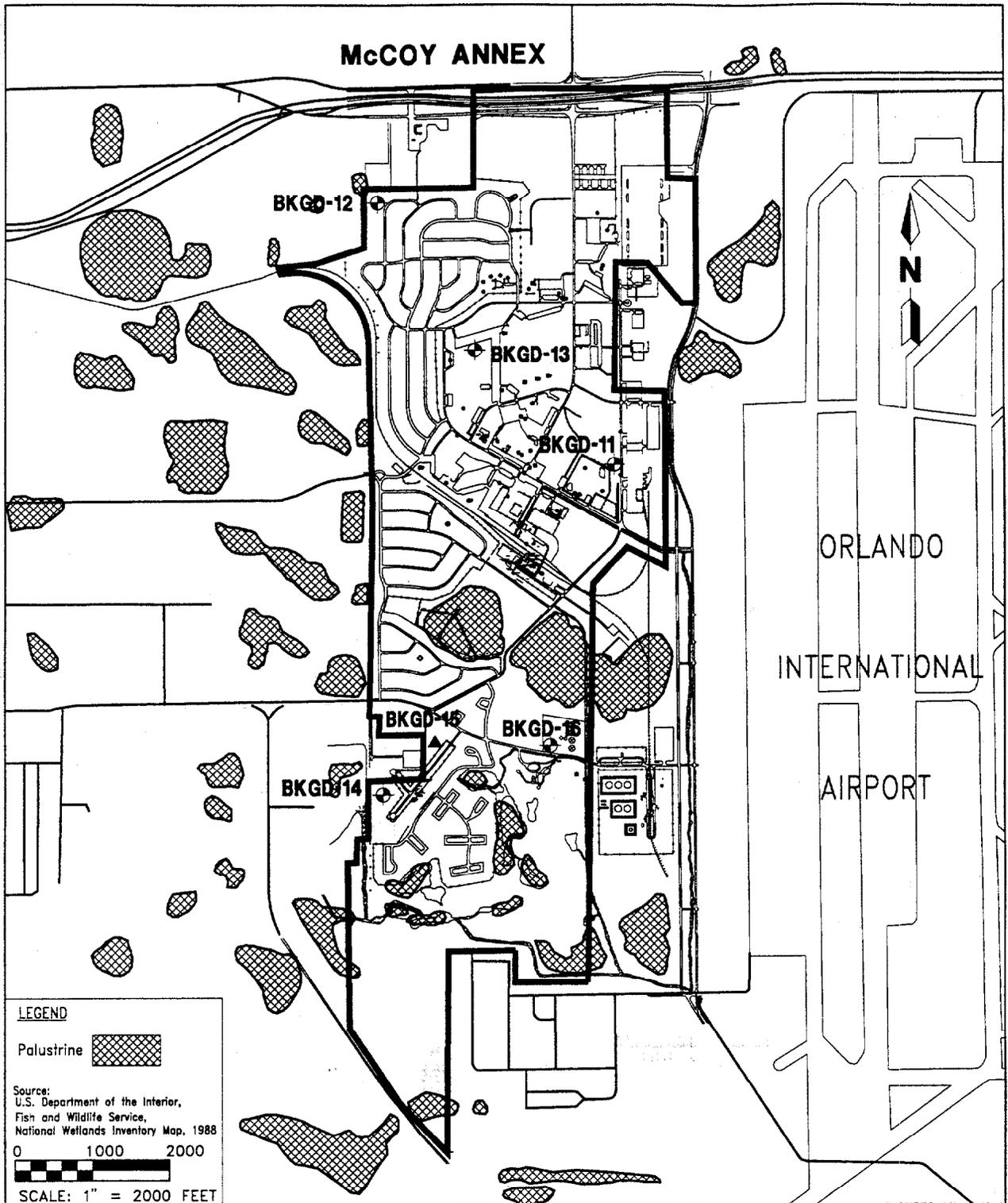


**FIGURE 3-3**  
**WETLANDS, MAIN BASE, AREA 'C' AND**  
**HERNDON ANNEX**



**BRAC REALIGNMENT AND**  
**CLOSURE CLEANUP PLAN**

**NAVAL TRAINING CENTER**  
**ORLANDO, FLORIDA**

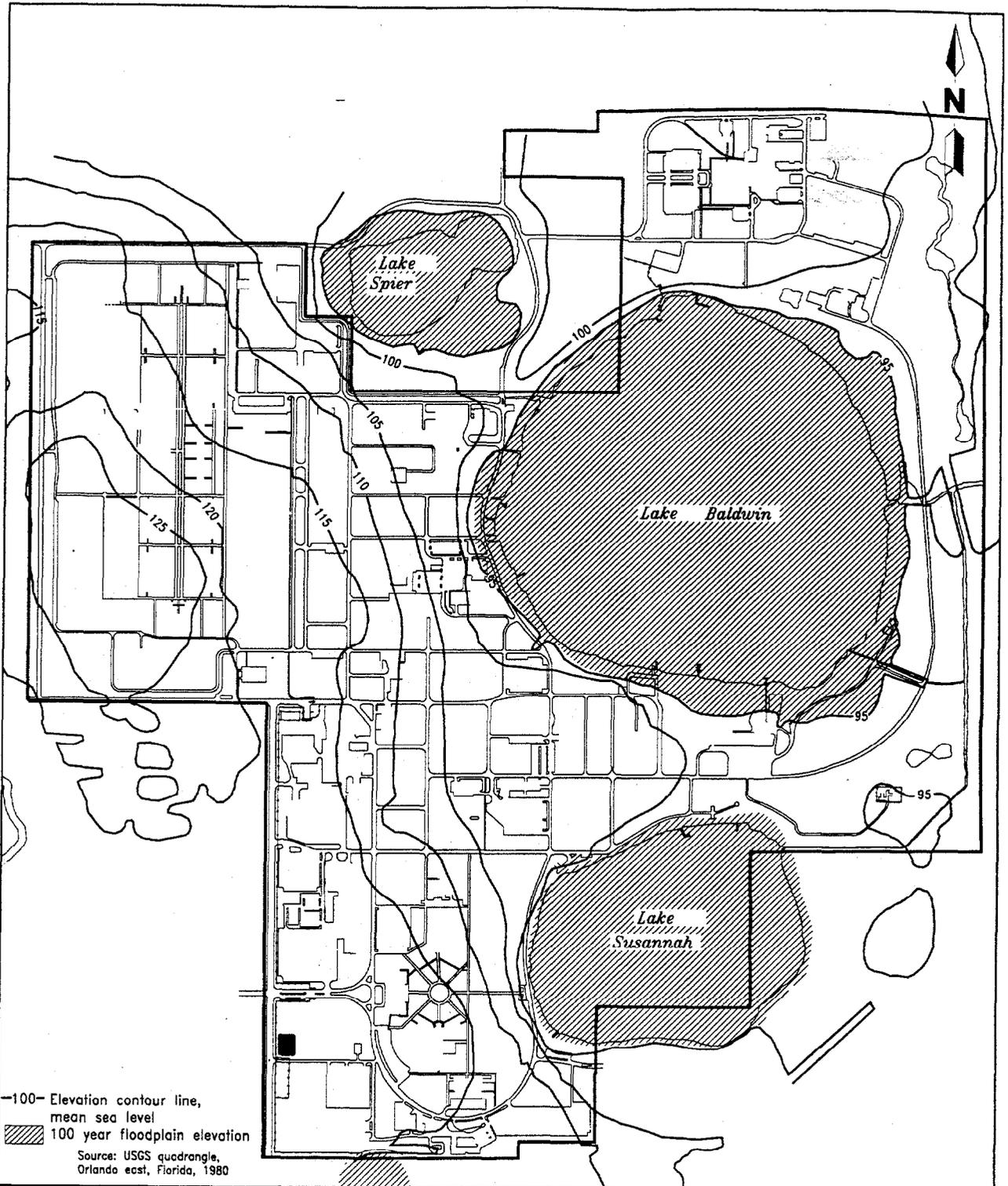


**FIGURE 3-4**  
**WETLANDS, McCoy ANNEX**



**BASE REALIGNMENT AND CLOSURE  
TANK MANAGEMENT PLAN**

**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**



**FIGURE 3-5  
TOPOGRAPHIC MAP  
MAIN BASE**



**BASE REALIGNMENT AND CLOSURE  
CLEANUP PLAN**

**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**

**3.3.9 Paleontological Resources** Paleontological resource studies have never been conducted on NTC, Orlando.

**3.4 Environmental Condition of Property.** This subsection summarizes the environmental condition of NTC, Orlando as determined by the draft EBS (ABB-ES, 1994). The EBS identified properties that are currently suitable for transfer (e.g., there is no evidence of past hazardous materials management or such activities have been cleaned up) and properties that require additional investigation or cleanup before such a determination can be made. Past and current hazardous materials and petroleum products management practices were evaluated by all available means including historical documents, aerial photographs, compliance records, hazardous waste management records, radon analytical results, asbestos survey results, lead in drinking water analytical results, interviews with knowledgeable parties, and a building-by-building inspection. Based on this assessment, each building or identifiable area was placed into one of seven categories defined in the BRAC Cleanup Guidance Manual (DOD, 1993).

The field work for the EBS was completed in January 1994 and the report was finalized in January 1995. Category designations of NTC buildings and areas are presented in Appendix F and discussed in this section. The rationale for the category designations of individual buildings and parcels are provided in the EBS report. Appendix G contains full-size, color-coded maps depicting the current environmental condition of the property.

**3.4.1 Areas Where No Storage, Release, or Disposal Has Occurred (Category 1, White)** Much of NTC, Orlando is classified as Category 1, areas where no storage, release, or disposal of hazardous materials or petroleum products has occurred, including no migration of these substances from adjacent areas. Included in this category are classrooms, monuments, living quarters, and recreational areas, totaling 239 surveyed locations. White areas compose 759.9 acres of Main Base, 545 acres of McCoy Annex, 37.0 acres of Area "C," and 0 acres of Herndon Annex.

**3.4.2 Areas Where Only Storage Has Occurred (Category 2, Blue)** Seventy buildings were classified Category 2, locations where hazardous materials or petroleum products were used or stored but no release, disposal, or migration from adjacent areas are known or suspected. Included within this group are electrical power substations, warehouses, living quarters, and administrative buildings. Blue areas compose 16.1 acres of Main Base, 5.1 acres of McCoy Annex, 2.7 acres of Area "C," and 0 acres of Herndon Annex.

**3.4.3 Areas Where Storage, Release, Disposal, and/or Migration Has Occurred but Require No Remedial Action (Category 3, Light Green)** Three sites have been designated Category 3, areas where storage, release, disposal, and/or migration of hazardous substances or petroleum products has occurred but at concentrations that do not require removal or remedial action. Light Green areas compose 4.3 acres of Main Base, 0 acres of McCoy Annex, 0 acres of Area "C," and 0 acres of Herndon Annex.

**3.4.4 Areas Where Storage, Release, Disposal, and/or Migration Has Occurred and All Remedial Actions Have Been Taken (Category 4, Dark Green)** One location was designated Category 4, an area where storage, release, disposal, and/or migration of hazardous substances or petroleum products has occurred and all remedial

actions necessary to protect human health and the environment have been taken. Dark Green areas compose 0.5 acres of Main Base, 0 acres of McCoy Annex, 0 acres of Area "C," and 0 acres of Herndon Annex.

**3.4.5 Areas Where Storage, Release, Disposal, and/or Migration Has Occurred and Action Is Underway, but Not Final (Category 5, Yellow)** Two properties were placed into Category 5, areas where storage, release, disposal, and/or migration of hazardous substances or petroleum products has occurred and removal and/or remedial actions are under way, but all required remedial actions have not yet been taken. Yellow areas compose 0 acres of Main Base, 1 acre of McCoy Annex, 0 acres of Area "C," and 0 acres of Herndon Annex.

**3.4.6 Areas Where Storage, Release, Disposal, and/or Migration Has Occurred but Required Response Actions Have Not Been Taken (Category 6, Red)** Twenty-five locations were classified Category 6, areas where storage, release, disposal, and/or migration of hazardous substances or petroleum products has occurred but required response actions have not yet been implemented. Red areas compose 13.4 acres of Main Base, 121.8 Acres of McCoy Annex, 2.1 acres of Area "C," and 0 acres of Herndon Annex.

**3.4.7 Unevaluated Areas or Areas Requiring Additional Evaluation (Category 7, Grey)** Two hundred forty-eight sites were placed into Category 7. Included in this group were most UST locations and any area where, based on past usage, environmental contamination was considered possible and insufficient information was available to more definitively classify the area. All Capehart Housing on McCoy Annex is classified as grey due to suspected ACM or LBP. Grey areas compose 387.5 acres of Main Base, 244.2 acres of McCoy Annex, 3.9 acres of Area "C," and 43.4 acres of Herndon Annex.

**3.4.8 Suitability of Installation Property for Transfer by Deed** According to the BCP guidance (DOD, 1993), Categories 1 through 4 are suitable for transfer by deed and Categories 5 through 7 are presently unsuitable for transfer by deed. In terms of numbers of properties examined, the majority of the base falls into Categories 1 through 4 and requires no further investigation prior to transfer. A total of 275 areas fall into Categories 5 through 7 and, therefore, require additional evaluation and/or cleanup prior to disposal. This totals 817.4 acres.

All acreage calculations in this section were based on computer-aided design (CAD) estimations.

**3.5 STATUS OF COMMUNITY INVOLVEMENT.** A Community Relations Plan (CRP) is being updated to encourage open communication among the NTC; Federal, State, and local regulatory agencies; interested community groups; and individual community residents concerned with the environmental activities associated with the closure of the base. The CRP will ensure that all involved or interested individuals and groups are provided with accurate, consistent information throughout the IR program and base closure process.

Community interviews will be performed to determine the concerns and information needs of the community and to learn the best methods for involving community members in environmental issues at the facility.

Information related to cleanup activities, contamination identified, possible effects of contamination identified, and remedial actions proposed to remediate any contamination found on the base will be made available to interested members of the community. The CRP provides several ways for all parties to provide input into the decision-making process of the IR program (Lawley, 1994).

Since submittal of the initial BCP, progress has been made in establishing and implementing an RAB. Selection criteria were established in August and the selection committee presented its recommendations to the Commanding Officer for his approval on August 19, 1994. RAB membership was announced September 2, 1994. The first meeting (orientation) of the RAB was held September 12, 1994. A RAB community co-chair was selected to work closely with the Navy RAB co-chair. The first working meeting of the RAB was held on January 12, 1995. This meeting was held at the Glenridge Middle School and community members were invited to attend. Future RAB meetings will be held monthly.

## 4.0 INSTALLATION-WIDE STRATEGY FOR ENVIRONMENTAL RESTORATION

This chapter discusses the installation-wide environmental restoration and compliance strategy for NTC, Orlando. Section 4.1 describes the zone and OU designations and strategy and Section 4.2 discusses the compliance strategy, by program, for the base. Natural and cultural resource strategies are discussed in Section 4.3 and the strategy for involving the community is discussed in Section 4.4.

4.1 ZONE AND OPERABLE UNIT (OU) DESIGNATION AND STRATEGY. The Navy defines operable units (OUs) according to the definition provided in Section 300.5 of the National Oil and Hazardous Substance Contingency Plan (NCP). At NTC, Orlando, OUs are generally designated based on specific, sometimes media-specific, site problems. Zones, which are not subject to regulatory definition, were delineated based on projected likelihood of an area on the base being transferred. Therefore, zone designations were driven by projected reuse scenarios, whereas OU designations are driven by contamination.

4.1.1 Zone Designations Table 4-1 outlines priority zone boundaries. Zones were delineated based upon likelihood of transfer and demonstrated interest by outside parties. Graphical representation of zone boundaries in Main Base, Herndon Annex, and Area "C" is on Figure 4-1; representation of zone boundaries in McCoy Annex is on Figure 4-2. Property and buildings within priority zones 1 and 2 (the Naval Hospital and Herndon Annex, respectively) are expected to be transferred first. The Veterans Administration would like to acquire the Naval Hospital in early 1995 and the city of Orlando would like to acquire Herndon Annex within the same time period. Group and study area information is addressed in Subsection 4.1.3.

Priority zones 3A through 6 are intermediate properties for transfer. Priority zone 7, McCoy Annex South, contains townhouses where Nuclear Power School students and other base personnel will be housed as the base gradually closes. McCoy Annex South also includes a former landfill, which is currently designated as OU 2. Investigation and remediation, if required, are expected to last several years. Hence, property zone 7 is scheduled for transfer next to last.

Priority zone 8, Area "C," and priority zone 9, Nuclear Power School Area, will be transferred last. Area "C" includes a supply warehouse that will be used until everything at the base is closed. The Nuclear Power School will close in 1998.

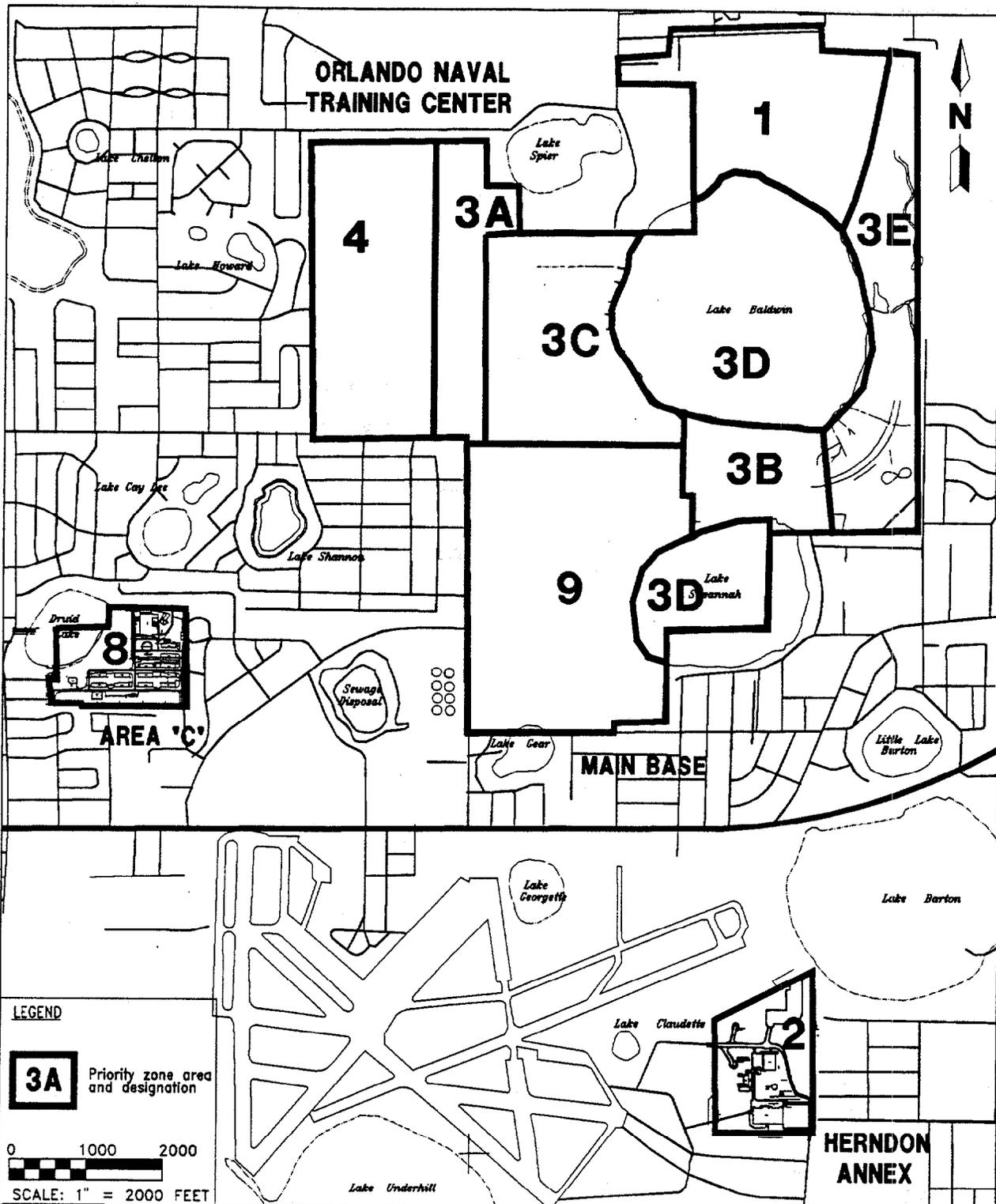
4.1.2 OU Designation Sufficient data have been collected to designate two sites as OUs. The former landfill at Main Base (originally designated Site 1 by the IAS) and the landfill at McCoy Annex (originally designated Site 3 by the IAS) are OU 1 and OU 2, respectively. Contamination at these two sites is being addressed during RI/FS activities and Remedial Design and Remedial Action (RD/RA) as necessary.

The strategy for expediting cleanup at OU 1 follows the guidelines of the Superfund Accelerated Cleanup Model (SACM). In the RI/FS workplan for OU 1 (ABB-ES, 1994), the presumptive remedy of source containment is proposed. The RI/FS workplan for OU 2 uses SACM principles to expedite cleanup and proposes to use

**Table 4-1  
Priority Zones for Base Transfer**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Priority Zone	Boundaries
1	Naval Hospital Area, bounded by the base boundary on the west and north, Grove Avenue and the golf course on the east, and Lake Baldwin on the south.
2	Herndon Annex
3A	Training Administration Area, bounded by the base boundary on the north, Grace Hopper Avenue on the east, Holland Street on the south, and Decatur Avenue on the west.
3B	Brass Anchor Area, bounded by Lake Baldwin on the north, the golf course on the east, Iwo Jima Street on the south, and Leahy Avenue on the west.
3C	Service School Command, bounded by the base boundary on the north, Lake Baldwin on the east, Holland Street on the south, and Grace Hopper Avenue on the west.
3D	Lake Baldwin and Lake Susannah
3E	Main Base Golf Course
4	Recruit Training Command West, bounded by the base boundary on the north, south, and west, and Decatur Avenue on the east.
5	McCoy Annex Housing, bounded on the north and west by the base boundary, on the south by Eighth Street, and on the east by an irregular boundary defined by 3rd Street, Binnacle Way, Barber Drive, the railroad, the central swamp areas, and Seven Seas Drive.
6	McCoy Annex, all property north of Eighth Street not designated as housing.
7	McCoy Annex, all property south of Eighth Street.
8	Area "C"
9	Nuclear Power School Complex, bounded by the Main Base boundary on the west and south, by Holland Street on the north, and by Leahy Avenue, Iwo Jima Street, and the Golf Course on the east.

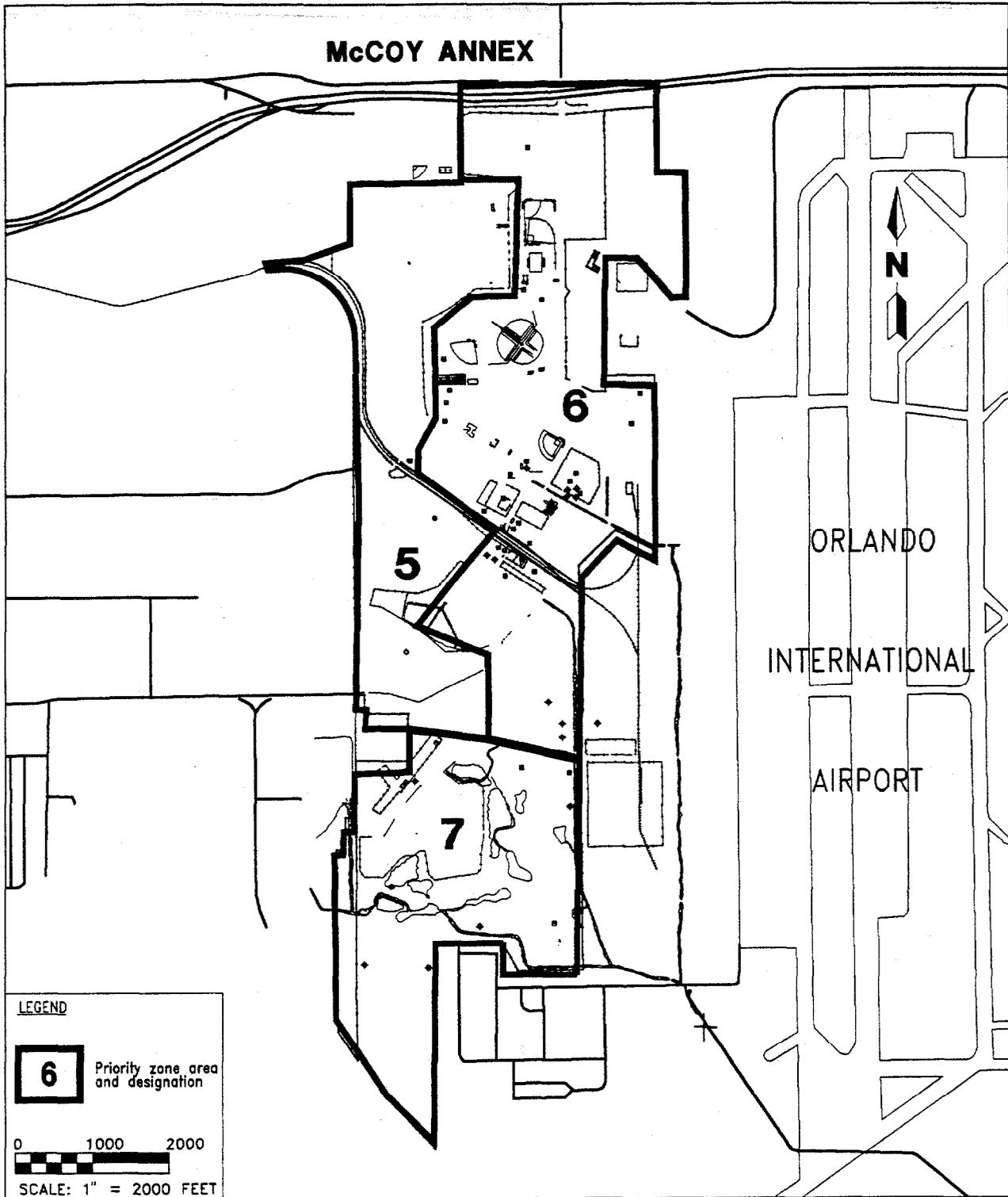


**FIGURE 4-1**  
**PRIORITY ZONE DESIGNATIONS AT MAIN BASE,**  
**HERNDON ANNEX, AND AREA 'C'**



**BASE REALIGNMENT AND CLOSURE**  
**TANK MANAGEMENT PLAN**

**NAVAL TRAINING CENTER**  
**ORLANDO, FLORIDA**



**LEGEND**

**6** Priority zone area and designation

0 1000 2000

SCALE: 1" = 2000 FEET

**FIGURE 4-2**  
**PRIORITY ZONE DESIGNATIONS AT**  
**McCoy Annex**



**BASE REALIGNMENT AND CLOSURE**  
**CLEANUP PLAN**

**NAVAL TRAINING CENTER**  
**ORLANDO, FLORIDA**

the presumptive remedy of source containment and a statistical sampling methodology. Source containment includes:

- landfill cap,
- source area groundwater control,
- leachate collection and treatment, and
- institutional controls.

Ultimately, the remedy chosen, based on the results of the RI, will adequately prevent human receptors from coming into contact with landfill materials.

Recently, Herndon Annex was discovered to be a former landfill. The Annex has been designated Priority Zone 2 and will be evaluated with the Group I study areas. BCT members have agreed that the technical memo summarizing the site screening findings should be expedited and submitted for review as soon as possible.

**4.1.3 Study Areas and Site Screening Groups** Based upon priority zones, all non-UST Grey, Red, and Yellow areas have been segregated into 42 study areas. These study areas are being systematically evaluated in five groups. Table 3-3 gives a detailed description of each study area. Group I consists of study areas 1 through 10, Group II consists of study areas 11 through 15, Group III consists of study areas 16 through 26, Group IV consists of study areas 27 through 34, and Group V consists of study areas 35 through 42. Table 4-2 shows the relationship between zones, groups, non-UST and AST study areas, and operable units.

**Table 4-2  
Relationship Between Zones, Groups, Non-UST and AST Study Areas, and Operable Units**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Priority Zone	Group	Study Area	Operable Unit
1	I	1	
2	I	2	
3A	I	3 and 4	
3B	--	--	--
3C	--	--	--
	I	5	--
3D	I	6 and 7	
3E	I	8, 9, and 10	
4	--	--	OU 1
5	--	--	--
6	III	16, 17, 18, 19, 20, 21, 22, 23, 24, and 25	
7	III	26	OU 2
8	II	11, 12, 13, 14, and 15	
9	IV	27, 28, 29, 30, 31, 32, 33, and 34	
	V	35, 36, 37, 38, 39, 40, 41, and 42	--

Notes: OU = operable unit.  
-- = no designation (not applicable).

4.1.4 Installation-wide Strategy for Environmental Restoration The installation-wide strategy for environmental restoration centers around disposal of federally owned property quickly and efficiently. This often includes developing and implementing fast-track environmental cleanup strategies. By using these strategies, property will be transferred more quickly. New strategies will be added and existing strategies will be modified to reflect problems or opportunities that may develop.

The strategies described below were developed by the BCT and are currently being pursued.

- Conduct face-to-face reviews of documents (RI/FS and site screening workplans), cutting the review process in half.
- Approve proposed sampling workplans without written draft. Finalize workplans before mobilization.
- Maintain open lines of communication between the Comprehensive Long-term Environmental Action, Navy (CLEAN) contractor and representatives of USEPA, FDEP, and the Navy.
- Conduct site visits with the RAB, BCT, and the CLEAN contractor.
- Meet with representatives from the Navy, FDEP, and USEPA to discuss risk assessment issues.
- Maintain onsite offices for the BEC and CLEAN contractor.
- Use presumptive remedies.

4.1.5 Remedy Selection Approach Remedies for all IR sites will be selected in accordance with all relevant laws and regulations.

Federal, State, and local regulations and guidelines will be identified and incorporated into all remedy selection processes. Remedial alternatives will be selected according to the nine criteria as specified in CERCLA:

- overall protection of human health;
- compliance with applicable or relevant and appropriate requirements (ARARs);
- long-term effectiveness and permanence;
- reduction of mobility, toxicity, and volume through treatment;
- short-term effectiveness;
- implementability;
- cost;
- State acceptance; and
- community acceptance.

SACM principles will be used whenever possible, as is the case for OU 1 and OU 2. The BCT will attempt to involve all parties having input concerning remedies identified in the selection process. The components for the remedy selected for OU 1 and OU 2 will be determined by results of the RI.

**4.1.6 Resolution of Other Non-transferable Properties** During the Phase I investigation (the EBS), every building, parcel, and area of the installation was classified as either transferable or non-transferable. Transferable areas are in a number of subcategories as defined in Section 3.4. Non-transferable buildings and parcels are also categorized into three distinct groups:

- 5/Yellow, areas where contamination has been confirmed but remedial efforts have not been completed;
- 6/Red, areas where contamination has been confirmed and remedial efforts have not yet begun; and
- 7/Grey, areas where the absence or presence of contamination cannot be proven and further evaluation is required.

These other non-transferable areas include a number of subcategories of buildings and parcels:

- buildings that contain USTs or ASTs requiring confirmatory sampling before approval for transfer,
- buildings and parcels that may contain specific media of concern (normally controlled under compliance programs, such as asbestos, lead-based paint, etc.), and
- buildings and parcels having evidence (either visual, recorded, or anecdotal) of potential contaminants of concern posing a hazard.

Several sites within the AST and UST group have only petroleum-related problems. These sites are being investigated under the Navy and State of Florida Underground Petroleum Environmental Response Program (Chapter 62-770, FAC). If the investigations find non-petroleum-related contaminants, the sites will be included in the IR program for further investigation. A TMP has been developed that delineates the actions necessary to verify that petroleum-related sites are transferrable.

Those with specific media concerns will be handled according to the media-specific management plans. For the remaining Grey areas, a systematic, Phase II investigatory approach has been developed to verify the presence of contaminants of concern.

**4.1.6.1 Phase II Investigations** Figure 4-3 depicts a graphical view of this approach. All Phase II investigations will be done to USEPA Region IV data quality objectives (DQOs) to ensure that the highest quality data exists.

Initially, these non-transferable buildings and sites were grouped into study areas to facilitate their investigations (a study area could contain more than one Grey building or parcel due to similarity of potential contamination or geographical proximity). A Phase II investigation plan will be developed enabling

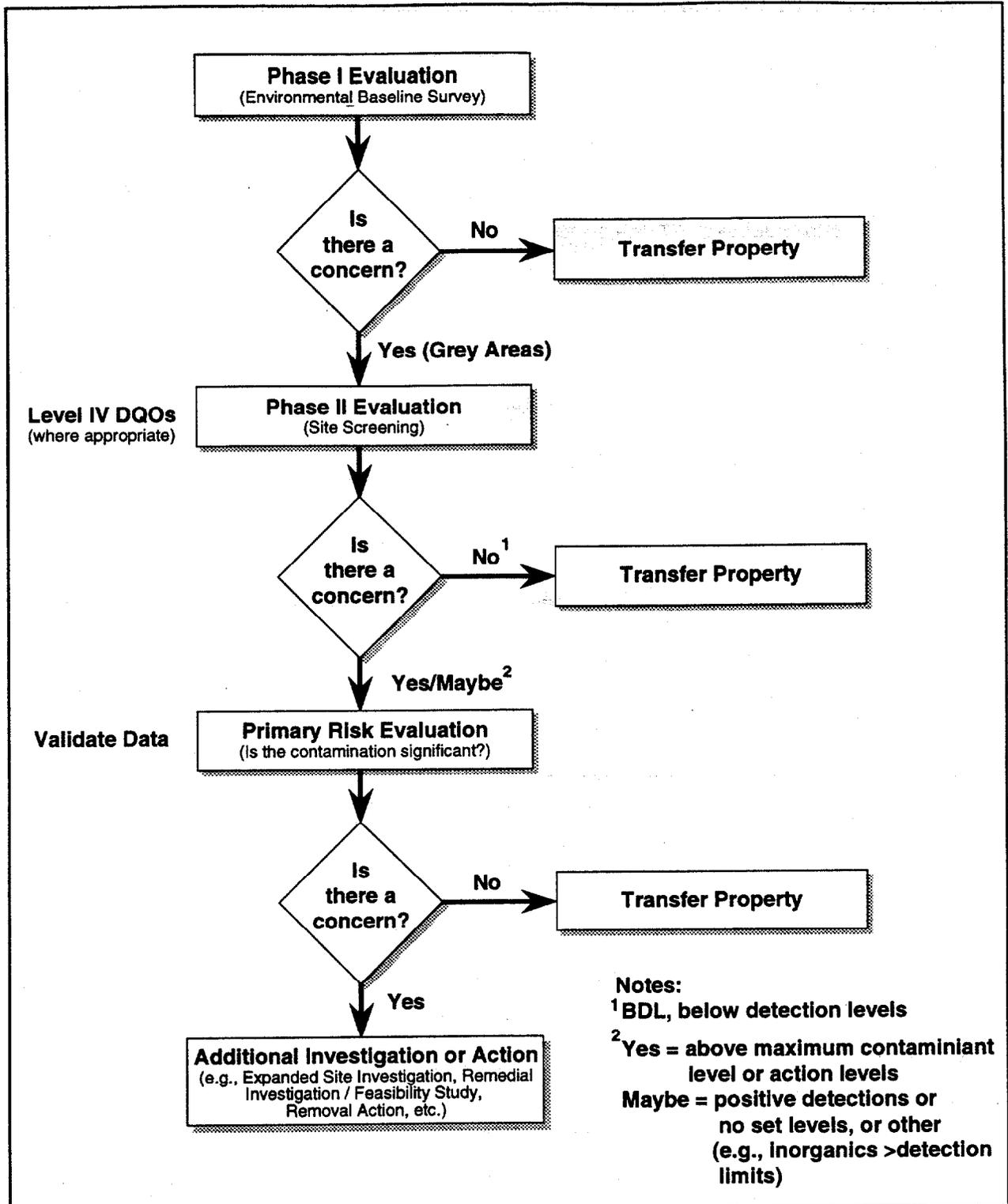


FIGURE 4-3

INSTALLATION-WIDE STRATEGY FOR ENVIRONMENTAL RESTORATION



BASE REALIGNMENT AND CLOSURE CLEANUP PLAN

NAVAL TRAINING CENTER ORLANDO, FLORIDA

the BCT to determine transferability of the site. This investigation plan, also called a Sampling and Analysis Outline (SAO), will refer to the Project Operations Plan (POP; ABB-ES, 1994a) for any information that is constant across all sites.

To facilitate the investigation of these sites, a POP has been developed. The purpose of the POP is to detail the basic, background information required in all investigations to prevent redundant publication and review of data. The POP provides: (1) installation history and mission, (2) geological profile, (3) field sampling plans, (4) a HASP, and (5) a Quality Assurance Project Plan.

If no contaminants are detected or if all detected analytes are at concentrations below action levels, the properties will be recommended for transfer. If analyte concentrations are above action levels or if analytes are detected that lack action levels, a preliminary risk evaluation (PRE) will be performed.

**4.1.6.2 Preliminary Risk Evaluations (PRE)** PREs will use investigative results to determine the nature, pathway, and extent of contamination and identify potential risks to human and ecological receptors. The human health and environmental components of PREs provide critical information for property transfer decisions—whether a site will require remedial action before transfer—and these decisions can be achieved at cost savings over traditional methods.

The human health PRE considers risks associated with potential human exposure to environmental media. Exposure assessment identifies the current land use and the worst-case future land use as they relate to exposure. Typically a residential scenario is used as the worst-case future land use model.

The environmental PRE considers risks associated with ecological exposure due to site contamination. Environmental assessment identifies the ecological characterization at the site and estimates the toxicity and risk. The ecological characterization of NAS Cecil Field will qualify terrestrial, wetland, and aquatic habitats and identify ecological receptors. Major site-specific exposure pathways will be evaluated, and possible signs of stress on biological receptors at the site will be observed.

The potential land use assumes the worst case scenario and forms the basis for potential human exposures. Likewise, the most sensitive ecological reception is used in the model for the environmental assessment. Maximum detected analyte concentrations are assumed as exposure concentrations; however, average analyte concentrations are most likely associated with long-term exposures. Similarly, impacts on individual ecological receptors, rather than population-level effects, are often evaluated as a result of insufficient toxicological information for population-level effects. It is generally accepted that impacts to individual receptors are not indicative of potential impacts to a population of receptors.

**4.1.6.3 Additional Studies** Based on the results of the Phase II evaluation and the PRE, one of the following recommendations will be made for each site:

- recommend the study area for transfer or lease,
- initiate an immediate removal or interim action, or
- include the area in an expanded Phase II investigation or RI/FS, as appropriate.

It is possible that circumstances may require collection of additional data to support selection of an interim action or RI/FS. Those sites recommended for follow-on investigations will be prioritized based upon their threat to human health and/or the environment.

4.1.7 Strategy for Unexploded Ordnance (UXO) McCoy Annex was an active Army Air Corps and Air Force base with armed aircraft; therefore, UXO may be present. Liaison has been made with the Air Force to determine where any weapons storage areas might have been and to establish the location of any open-burning, open-detonation areas that might have been used by explosive ordnance disposal personnel.

ABB-ES is conducting a survey of UXO to establish the presence or absence of those materials. The investigative strategy includes review of all applicable records, interviews of former base personnel as available, and review of Environmental Photographic Interpretation Center (EPIC) data as available. Potential UXO and open-burning or open-detonation areas will be physically surveyed using non-destructive and non-intrusive methods including ground penetrating radar, magnetometry, and metal detectors. The report will provide comprehensive documentation of the investigation, findings, and recommendations. Draft submittal of the UXO survey is expected in early 1995.

4.2 COMPLIANCE STRATEGY. This section of the BCP outlines the strategy that will be employed to assure that NTC, Orlando is in compliance with applicable State, Federal, and local environmental regulations. Currently, eight management plans are being developed. These management plans will fully describe the compliance strategy for each compliance program. The management plans address the following compliance programs: asbestos, lead-based paint, hazardous waste, industrial waste, PCBs, radon, water and wastewater, and storage tanks (ASTs and USTs).

4.2.1 Storage Tanks There are approximately 201 regulated and non-regulated ASTs and USTs containing petroleum products. Several tanks are an integral part of the transferable parcel (i.e., gas station, hospital, etc.) and, as such, will be left in place after determination that no contamination is present. The remaining tanks will be removed prior to property transfer. The TMP presents the priority and schedule for removing and testing the tanks.

Existing storage tanks will be handled as follows.

1. Regulated USTs (Appendix I, Table I-1) will continue to operate and be upgraded according to performance standards for existing petroleum storage tanks per Chapter 62-761, FAC, for USTs. Regulated USTs will be brought into compliance in accordance with the Alternative Procedures Agreement (APA) signed in June 1993 between the Navy and FDEP (Chapter 62-761.850, FAC).
2. Unregulated (exempt) USTs (Appendix I, Table I-2) will be removed because of the potential for groundwater contamination. The majority of older tanks (and the majority of volume) reside in sandy soil that has little capacity to retain contaminants; therefore, there is significant potential for environmental damage. All of these older units are constructed of steel, which is particularly susceptible to corrosion in environments where a fluctuating water table exists. In addition, the Navy and the State of

Florida agreed that all USTs, even if they are exempt, must conform to UST regulations prior to property transfer. Figure 4-4 details the procedure for assessing USTs.

3. Aboveground tanks (Appendix I, Table I-3) will be examined for seeps and evidence of past leakage. As needed, tanks will be repaired and soil in the vicinity will be sampled for evidence of contamination. Tanks showing no evidence of problems will remain in service and be inspected on a regular basis in accordance with Chapter 62-762, FAC. Overfill protection in accordance with Chapters 62-762.500 and 62-762.510, FAC, is needed around all ASTs. Figure 4-5 details the procedure for assessing ASTs.
4. The Navy will confirm that USTs 7175-A, 7175-B, 2273-1, and 2273-2 were removed or remediation was implemented due to reports of historical spill problems. Additional sampling and/or removal action may be needed pending verification of activities conducted at these locations.

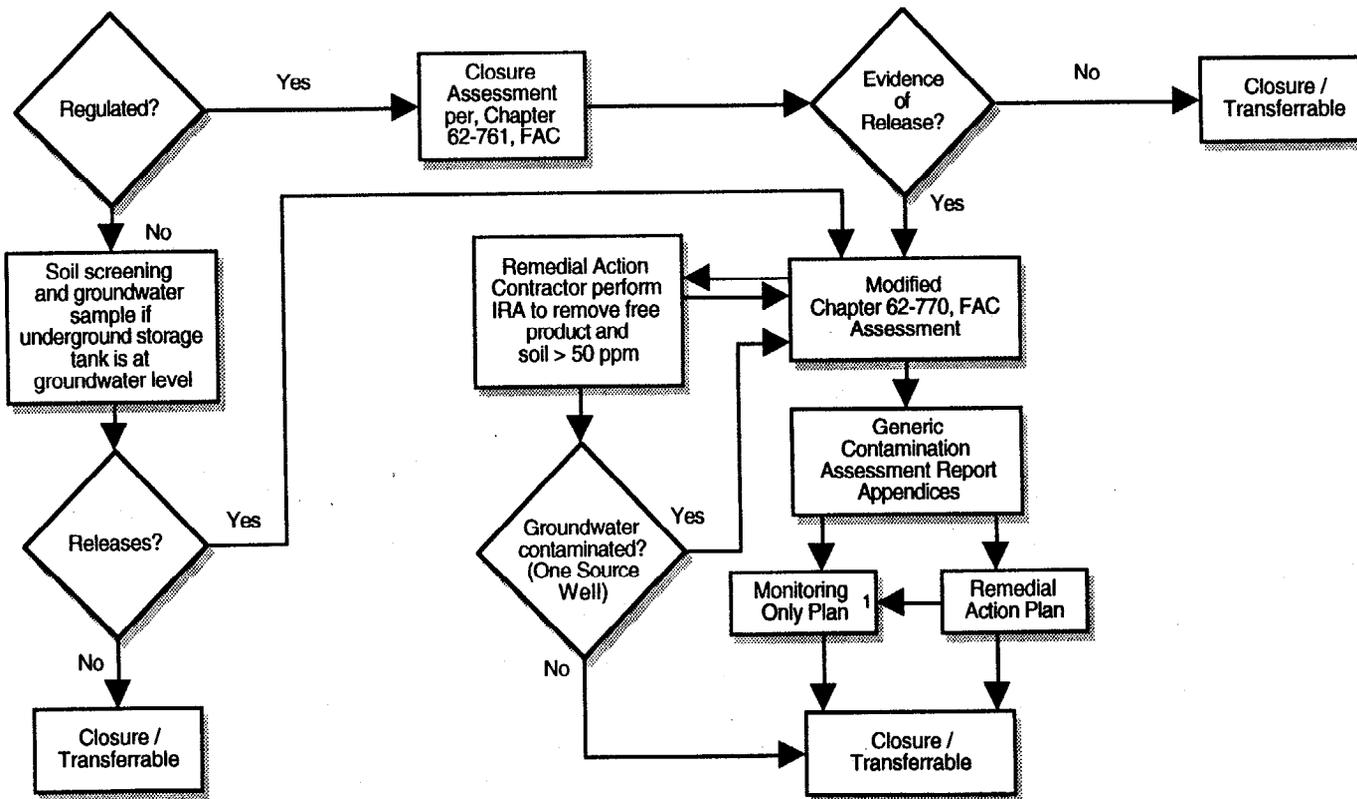
**4.2.2 Hazardous Materials and Waste Management** All process units at NTC, Orlando must be properly decontaminated and/or closed within 90 days of process shutdown to prevent the unpermitted storage of hazardous waste. NTC, Orlando has developed guidelines for decontaminating and closing all process units. These guidelines are included in the *Process Decontamination and Closure Procedures Manual* for NTC, Orlando (SOUTHNAVFACENGCOM and others, 1994). The SQGs will be closed in accordance with 40 CFR 265. Until closure occurs, all hazardous waste will continue to be properly disposed. Process units, described in Table 4-3, will be decontaminated and/or closed in accordance with the guidance given in the *Process Decontamination and Closure Procedures Manual* for NTC, Orlando.

**4.2.3 Solid Waste Management** The base sends all municipal waste off base via an outside contractor. Once these services are no longer needed, the contract will be terminated.

**4.2.4 Polychlorinated Biphenyls** According to Navy policy, PCB-containing electrical transformers in a working electrical system need not be replaced or removed before base closure or transfer (Drennon, 1991). The 19 existing PCB transformers (14 are in use and 5 are in storage) are properly marked and will either be removed prior to property transfer or the property recipient will be notified of their existence. The Navy is aware that the Toxic Substance Control Act (TSCA) establishes a 1-year limit on storage of PCB articles.

**4.2.5 Asbestos** Prior to property disposal, the existence, extent, and condition of ACM will be documented and incorporated into a report for the new property owner. The report will include:

- evaluation of the health risks associated with ACM known to exist in or on the property being transferred;
- results of ACM testing;
- description of ACM control measures taken, if any;
- available information on costs and time necessary to remove ACM; and
- results of an ACM inventory to reevaluate the condition of ACM.

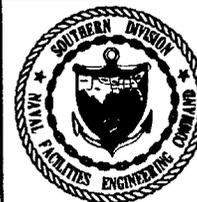


<sup>1</sup> Based on Florida Department of Environmental Protection Monitoring Only Plan guidelines

FAC = Florida Administration Code  
 ppm = parts per million  
 IRA = Initial Remedial Action

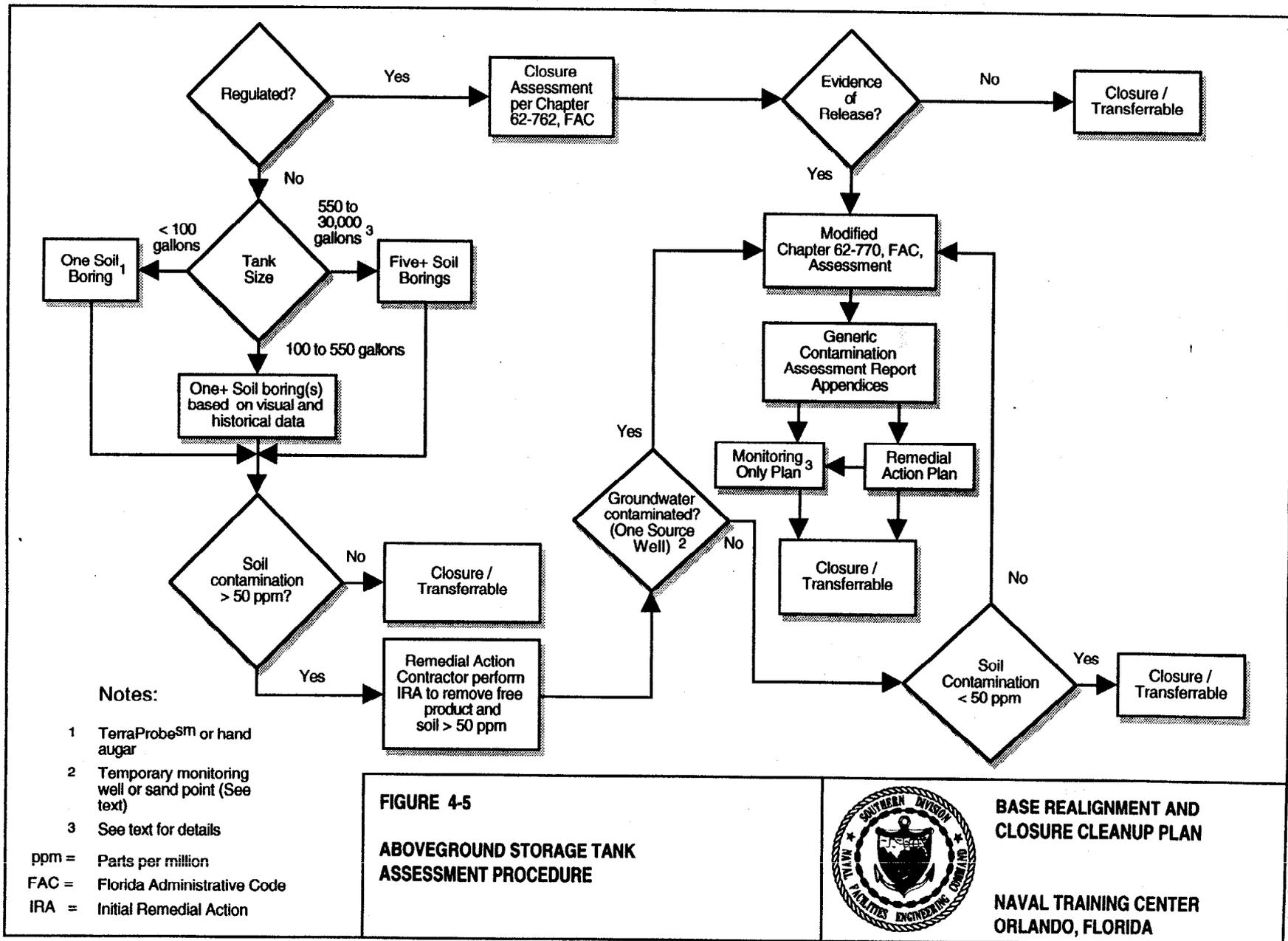
FIGURE 4-4

**UNDERGROUND STORAGE TANK ASSESSMENT PROCEDURE**



**BASE REALIGNMENT AND CLOSURE CLEANUP PLAN**

**NAVAL TRAINING CENTER ORLANDO, FLORIDA**



**Notes:**

- 1 TerraProbe<sup>SM</sup> or hand auger
- 2 Temporary monitoring well or sand point (See text)
- 3 See text for details

ppm = Parts per million  
 FAC = Florida Administrative Code  
 IRA = Initial Remedial Action

**FIGURE 4-5**  
**ABOVEGROUND STORAGE TANK**  
**ASSESSMENT PROCEDURE**



**BASE REALIGNMENT AND**  
**CLOSURE CLEANUP PLAN**

**NAVAL TRAINING CENTER**  
**ORLANDO, FLORIDA**

**Table 4-3  
Process Unit Categories**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

<b>Hazardous Materials Units</b>	
Water and Wastewater Treatment	Oil-water separator Cooling towers Wastewater treatment units Laundries Lift stations Sewer systems Bilgewater systems Sumps Grease traps
Industrial Units	Paint spray booths Sandblasting units Vent hood and ventilation Parts washers and degreasers Compressed gas system
Piping Systems--Petroleum	Pipelines Pumphouses Apron hydrant fueling systems
Hazardous material management areas	Hazardous material storage Pesticide shops Incinerators (non-RCRA permitted) Flammable materials lockers Ordnance storage Dumpsters
Chemical Processes	Battery maintenance Dry cleaners Fuels blending systems Solvent recovery units Plating operations Corrosion control Units Wash racks and solvents Pool filtration and chlorine injection Iridite dripping process Halon recycling and reclamation Photographic laboratories Vacuum pressure impregnation
Equipment	Photographic processing equipment Abrasive blast hood Hazardous waste evacuation equipment Cranes Heavy equipment with petroleum Blueprint equipment Hydraulic equipment X-Ray equipment
See notes at end of table.	

**Table 4-3 (Continued)  
Process Unit Categories**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

**Hazardous Waste Management Units**

Satellite Accumulation Areas  
< 90-day hazardous waste storage units and tanks  
Neutralization

**USTs and ASTs (Chapter 62-770, FAC)**

Petroleum USTs and ASTs  
Fuel (heating) oil tanks  
Improperly abandoned tanks  
Field constructed tanks  
Hazardous substance tanks

Source: Adapted from the Process Decontamination and Closure Procedures Manual for NTC Orlando (Southern Division, Naval Facilities Engineering Command [SOUTHNAVFACENGCOM and others]).

Notes: USTs = underground storage tanks.  
ASTs = aboveground storage tanks.  
RCRA = Resource Conservation and Recovery Act.  
FAC = Florida Administrative Code.

Damaged and accessible ACM will be abated prior to property disposal unless:

- the building is scheduled for demolition by the transferee,
- the transfer document prohibits occupation of the buildings prior to the demolition, and
- the new property owner assumes responsibility for the management of any ACM in accordance with applicable laws.

The final determination of BRAC actions to be taken regarding other ACM will be dependent on the overall disposal plan and anticipated reuse of the building. All of the strategies outlined above are in accordance with DOD policy.

**4.2.6 Radon** Radon assessment and mitigation records pertaining to BRAC properties will be included in property transfer documents. This adheres to current DOD policy. There is currently no Federal requirement to perform follow-up radon assessments or mitigation in Federal buildings, including Federal buildings to be transferred to the public or private sector (Munsell, 1994).

**4.2.7 RCRA Facility SWMUs** Because NTC, Orlando is not a permitted RCRA facility, an RCRA Part B application has not been submitted; therefore, an RFA has not been conducted at the site and no SWMUs have been identified. NTC, Orlando will continue to comply with all applicable hazardous waste management requirements as they relate to temporary storage areas and, eventually, to closure of these storage areas.

**4.2.8 NPDES Permits** NTC, Orlando will remain in compliance with applicable Federal regulations for NPDES permits. The base has no point-source NPDES permits; however, NTC, Orlando is included in a Group Permit Application for Stormwater Discharges submitted by SOUTHNAVFACENGCOM for several bases under their jurisdiction. In accordance with the stormwater discharge regulations, NTC, Orlando will continue to maintain surveillance of the base for possible illicit discharges. If any illicit discharges are identified, they will be eliminated either through a change in the process responsible for the discharge or by other equally suitable means (Works, 1994).

**4.2.9 Oil-Water Separators** All oil-water separators on base are at POI sites. As such, they will be evaluated during the group site screening. During site screening, each oil-water separator will be evaluated for structural integrity and potential for release. If no environmental damage is found, then, based on anticipated future use of the building, the oil-water separator will be left intact, removed, or abandoned or closed in place. Once an oil-water separator is selected for closure, the Navy will follow the procedures outlined in the *Process Decontamination and Closure Procedures Manual* (SOUTHNAVFACENGCOM and others, 1994).

**4.2.10 Air Emissions and Pollution Permits** None of the 84 permitted air emissions and pollution point sources at NTC, Orlando are classified as major air emissions sources (emissions in excess of 100 tons per year). As the 1998 closure date approaches, several options are available: (1) as units are transferred to new owners, their associated air permits will be transferred by notifying the permitting agency; (2) some units will be closed (either temporarily or permanently) and their associated air permits will be allowed to expire; and (3)

units that must be operated past the expiration date of their air permits will be re-permitted. Closure of units will be accomplished by a prescribed set of shut-down procedures in accordance with all rules and regulations.

**4.2.11 Lead-Based Paint** DOD policy with regard to LBP is to comply with all applicable Federal, State, and local laws and regulations governing LBP hazards and to protect human health and the environment. These laws and regulations apply to residential structures; there are no Federal requirements for commercial structures.

The Navy will adhere to the provisions contained in the residential lead-based paint Hazard Reduction Act of 1992, which took effect January 1, 1995. These provisions are applicable to target housing, which is housing constructed prior to 1978, with limited exceptions for housing for the elderly, persons with disabilities, or any zero-bedroom dwelling.

Target housing constructed before 1960 will be inspected for LBP and LBP hazards and such hazards will be abated. Results of the LBP inspection will be provided to prospective owners identifying the presence of LBP and LBP hazards on a surface-by-surface basis and a description of abatement measures taken. Prospective owners will be given a lead hazard information pamphlet and the FOST or FOSL will include a lead warning statement.

Target housing constructed after 1960 and before 1978 will be inspected for LBP and LBP hazards. There is no Federal LBP abatement requirement for such property. The results of the inspection will be provided to prospective purchasers, identifying the presence of LBP and LBP hazards on a surface-by-surface basis. In addition, prospective purchasers will be provided a lead hazard information pamphlet and the contract for sale or lease will include a lead warning statement (Munsell, 1994). Approximately 970 housing units at NTC, Orlando are in this category.

The inspection and abatement discussed above will not be required if:

- the building is scheduled for demolition by the transferee and the transfer document prohibits occupation of the building prior to demolition, or
- the building is scheduled for residential use and the transferee conducts renovation consistent with the regulatory requirements for the abatement of LBP hazards.

**4.3 NATURAL AND CULTURAL RESOURCES STRATEGIES.** Natural resources will be managed on a continual basis until disposal is completed. Oversight of historical resources presently is a collateral duty of Mr. Mike Schener of NTC, Orlando with technical guidance provided by SOUTHNAVFACENGCOCOM personnel and other conservation agencies in the area. Natural resources are managed by the Public Works Department Environmental Division.

Water & Air Research, Inc., has been contracted to develop an EIS that will address some of these concerns.

**4.3.1 Surface Water** The State of Florida is conducting a monitoring program involving grass carp and aquatic weed control in Lake Baldwin and Lake Susannah. The Navy holds a majority of the land underlying Lake Baldwin in fee. If this land is not given to the State during disposal, their input will be solicited about inserting provisions into any disposal actions to allow them to continue their monitoring program.

**4.3.2 Threatened and Endangered Species (State and Federal)** The gopher tortoise is a concern on the base because it is a confirmed resident. Any development surrounding its habitat could threaten it. As a result, the State of Florida agreed to relocate tortoises impacted by buildings (SOUTHNAVFACENGCOM, 1992b). The EIS will also include insight into how to effectively manage the tortoises in their natural habitat.

**4.3.3 Wetlands** The Navy will act to preserve and/or restore wetlands until their associated parcel is transferred. The Navy currently adheres to the "no net loss policy." That is, for every acre of wetlands impacted another acre of wetlands must be created.

**4.3.4 Historic Structures and Resources** Water & Air Research, Inc., will conduct archival research, an intensive archeological survey, and an archeological study. This work will be conducted in accordance with Department of the Interior guidelines and will be completed by personnel who meet the "Secretary of the Interior's Standards and Guidelines." This effort will attempt to discover cultural resources and evaluate the eligibility of sites for placement on the National Register of Historic Places. Water & Air Research, Inc., will assist the Navy in consulting with the State Historic Preservation Officer and the Advisory Council on Historic Preservation.

The EIS will serve as technical support for the National Historic Preservation Act, Section 106 (SOUTHNAVFACENGCOM, 1994). These actions are being conducted in concert with, and to support the actions being taken in compliance with, the National Environmental Policy Act (Johnson, 1994).

**4.3.5 Archeological Resources** These resources will be addressed in the same manner as described in Subsection 4.3.4.

**4.3.6 Native American Resources** Native American resource studies have never been conducted on NTC, Orlando. Strategies will be developed only if resources are reported in the EIS.

**4.3.7 Sensitive Habitats** The gopher tortoise currently resides in a stressed habitat at NTC, Orlando. It prefers wide, open spaces. BRAC-related activities and post-BRAC re-development could threaten these habitats. The tortoise's habitat could be enhanced by occasional burning of the surrounding areas to allow for more open space.

**4.3.8 Floodplains** The Navy will not promote permanent construction or other alteration in a defined floodplain.

**4.3.9 Paleontological Resources** Paleontological resource studies have never been conducted at NTC, Orlando. Strategies will be developed only if resources are reported in the EIS.

**4.4 COMMUNITY INVOLVEMENT AND STRATEGY.** The community reuse plan is a major factor in determining how the Navy will dispose of the NTC, Orlando property. With regard to NEPA, the EIS will incorporate the community reuse plan as the preferred alternative. This preferred alternative will be stated in the Record of Decision. Navy officials and the community reuse consultants will work closely throughout the NEPA process. The community's plans for closing will also determine the level of cleanup required and the degree of facility layaway necessary for closure. This will be reflected in the base disposal plan. In summary, the interface with the community reuse plan is an ongoing process that is critical to a smooth transition of the property from a naval installation to its future purpose (Lawley, 1994).

The NTC, Orlando BCT has adopted the following strategy to encourage a proactive community relations program that will meet the requirements of current environmental legislation:

- publish installation points-of-contact for information regarding BRAC cleanup actions,
- make speakers available to community groups regarding BRAC cleanup initiatives,
- update CRP as needed (e.g., add activities that will ensure that continuous and timely information is made available and add individuals, groups, and offices to the mailing list),
- educate RAB members on environmental laws so that they can take an active role in the BRAC process and can more effectively share their knowledge with members of their community,
- encourage the RAB to interview community members,
- publish information (e.g., fact sheets, media releases, and paid advertisements) frequently to keep the community up to date on the progress of environmental cleanup programs,
- hold informal and formal public meetings (e.g., to explain the Navy's approach to cleanup or to respond to community concerns about proposed actions at specific sites) when needed during the BRAC cleanup process,
- hold 30-day public comment periods on proposed remedial actions and consider all significant comments in a responsiveness summary,
- provide an opportunity for public comment on removal actions for the base, and
- maintain the information repository to make documents available for public review (Lawley, 1994).

## 5.0 ENVIRONMENTAL MASTER SCHEDULES

This chapter presents the NTC, Orlando master schedule of activities in the base's environmental programs. These schedules are simplified from detailed operational schedules developed to support site and zone-specific workplans.

5.1 ENVIRONMENTAL RESTORATION PROGRAM. A current schedule of environmental restoration activities is provided on Figure 5-1. Site screening of the four groups of potential sites is scheduled to be completed by the end of 1996. At that time only sites with confirmed contamination which require additional investigation or remediation will remain active in the IR program. It is anticipated that the 19 sites will need additional investigations and/or remediation.

5.2 COMPLIANCE PROGRAMS. NTC, Orlando has many on-going compliance-related programs. Figure 5-2 summarizes those activities. The tank program is the largest compliance program with more than 200 tanks to assess, remove, and/or remediate.

5.3 NATURAL AND CULTURAL RESOURCES. The natural resources schedule for NTC, Orlando is provided on Figure 5-3. The EIS is the critical element in the natural resource requirements that needs to be completed. It is scheduled to be completed in 1995.

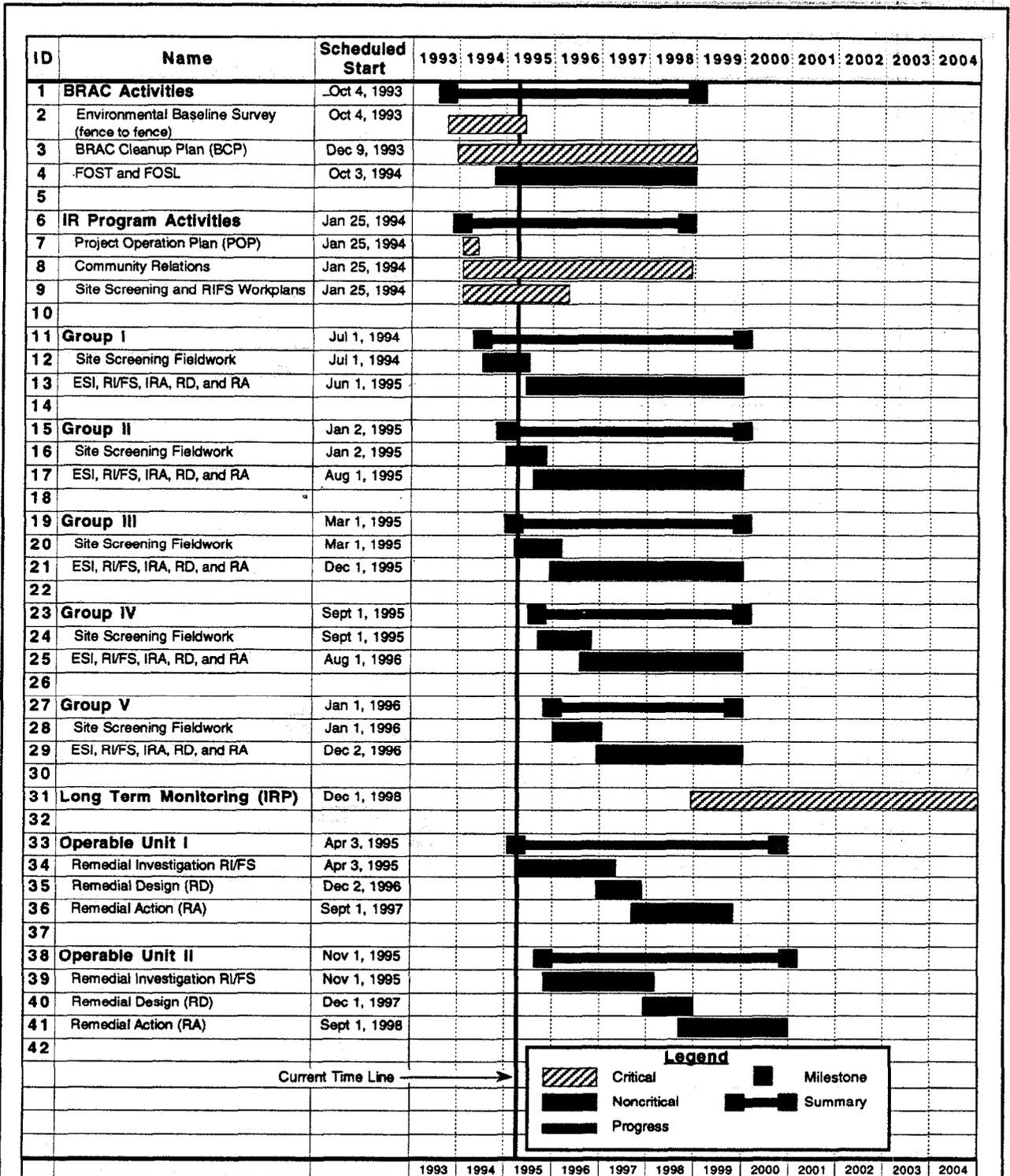
5.4 MEETING SCHEDULE. Currently the BCT and RAB meet monthly with plans to change to bimonthly when the work load allows.

5.5 REQUIREMENTS BY FISCAL YEAR. The detailed requirements information by fiscal year is incorporated into this document by reference. The tables in Appendix A of this document provide summary information on funding requirements.

**Table 5-1  
Compliance-Related Activity Schedules**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Activity	NTP	Schedule
Asbestos and Lead-based Paint Survey of Housing	Initiated 9/94	Draft report due March 1995
BRAC Asbestos Management Plan	August 1994	Draft submittal upon receipt of survey data
BRAC Lead-based Paint Management Plan	August 1994	Draft submittal upon receipt of survey data
Hazardous Waste Minimization Plan	4th quarter, FY95	Final report submitted November 1994
BRAC Hazardous Waste Management Plan	August 1994	Draft submittal occurred December 1994
Pollution Prevention Plan	FY95	Final report due by December 31, 1995
BRAC Industrial Waste Management Plan	August 1994	Draft submittal occurred December 1994
BRAC PCB Management Plan	August 1994	Draft submittal occurred December 1994
BRAC Radon Management Plan	August 1994	Final report expected in FY95
EPCRA Tier II Form and Supporting Documentation		Draft report due January 15, 1995 Final report due February 15, 1995
EPCRA Form R and Supporting Documentation		Draft report due May 15, 1995 Final report due June 15, 1995
Stormwater Pollution Prevention Plan	4th quarter, FY94	Final report due January 1995
Illicit Discharge Investigation	4th quarter, FY94	Final report due May or June 1995
Back Flow Preventer Survey		No specific schedule given
Water and Wastewater Management Plan	August 1994	Final report expected in FY95
Air Emissions Inventory		Final report expected in January 1995
Title V Permit Application		No specific schedule given; based upon preliminary inventory results, no permit will be required.
<u>UST Program</u>		
Building 7175B, Motor Pool	August 1994	CAR due January 1996 RAP due August 1996
Building 109, Gas Station	December 1994	CAR due July 1995 RAP due December 1995
Building 7247, Heating Oil Spill	December 1994	CAR due July 1995 RAP due December 1995
Building 7174, McCoy Annex Post Exchange Service Station		Closed in November 1994
Building 7175, McCoy Annex Motor Pool		No specific schedule given
Building 607 and Building 610		No specific schedule given other than Herndon Annex will close by July 1995.
Tank Management Plan		Final report due FY95
Notes: BRAC = Base Realignment and Closure. FY = fiscal year. PCB = polychlorinated biphenyl. EPCRA = Emergency Planning and Community Right-to-Know Act.		UST = underground storage tank. CAR = Contamination Assessment Report. RAP = Remedial Action Plan.

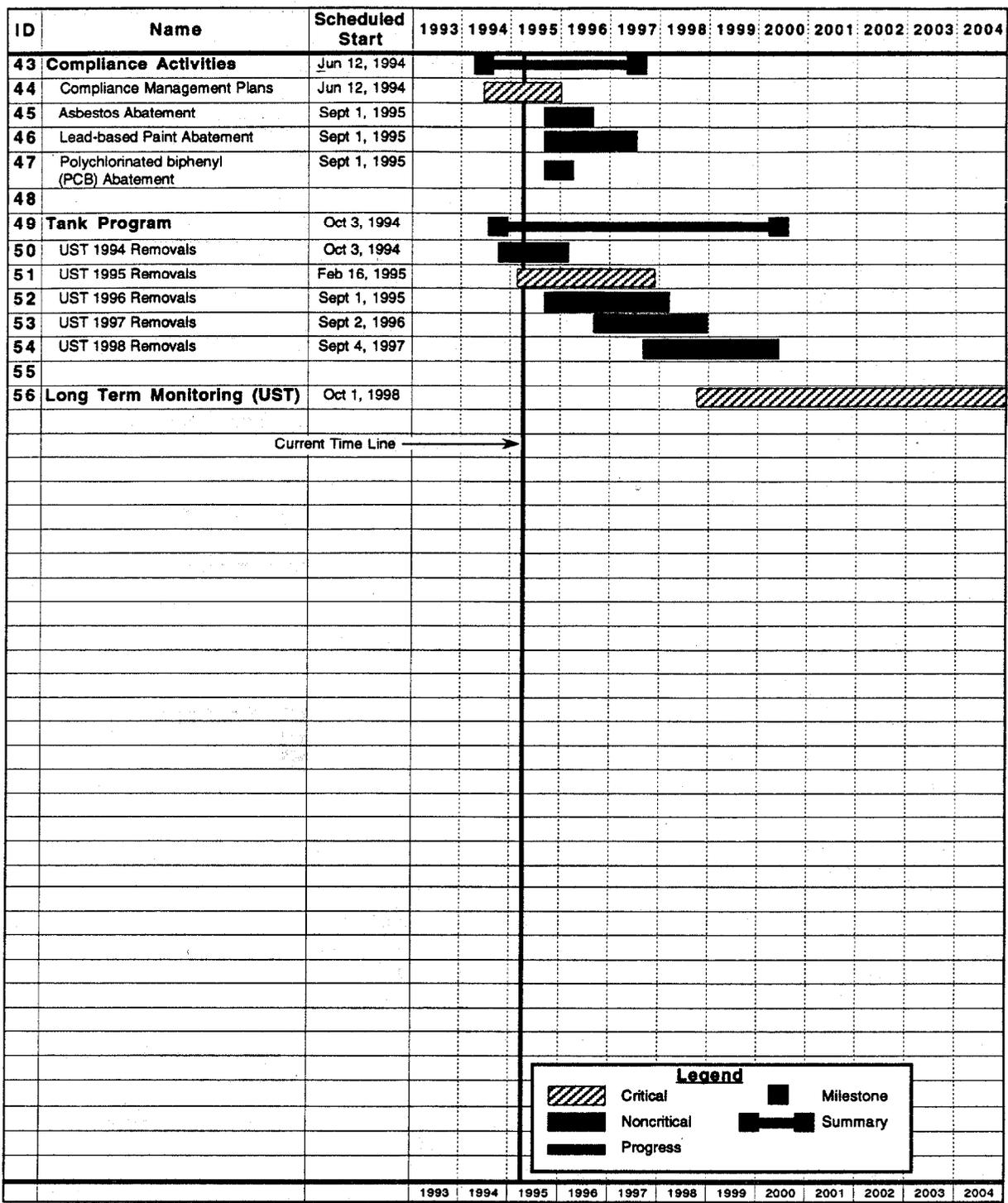


**FIGURE 5-1**  
**INSTALLATION RESTORATION (IR) PROGRAM**  
**SCHEDULE**

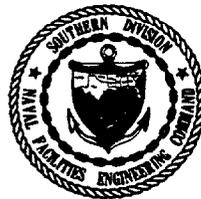


**BASE REALIGNMENT AND**  
**CLOSURE CLEANUP PLAN**

**NAVAL TRAINING CENTER**  
**ORLANDO, FLORIDA**

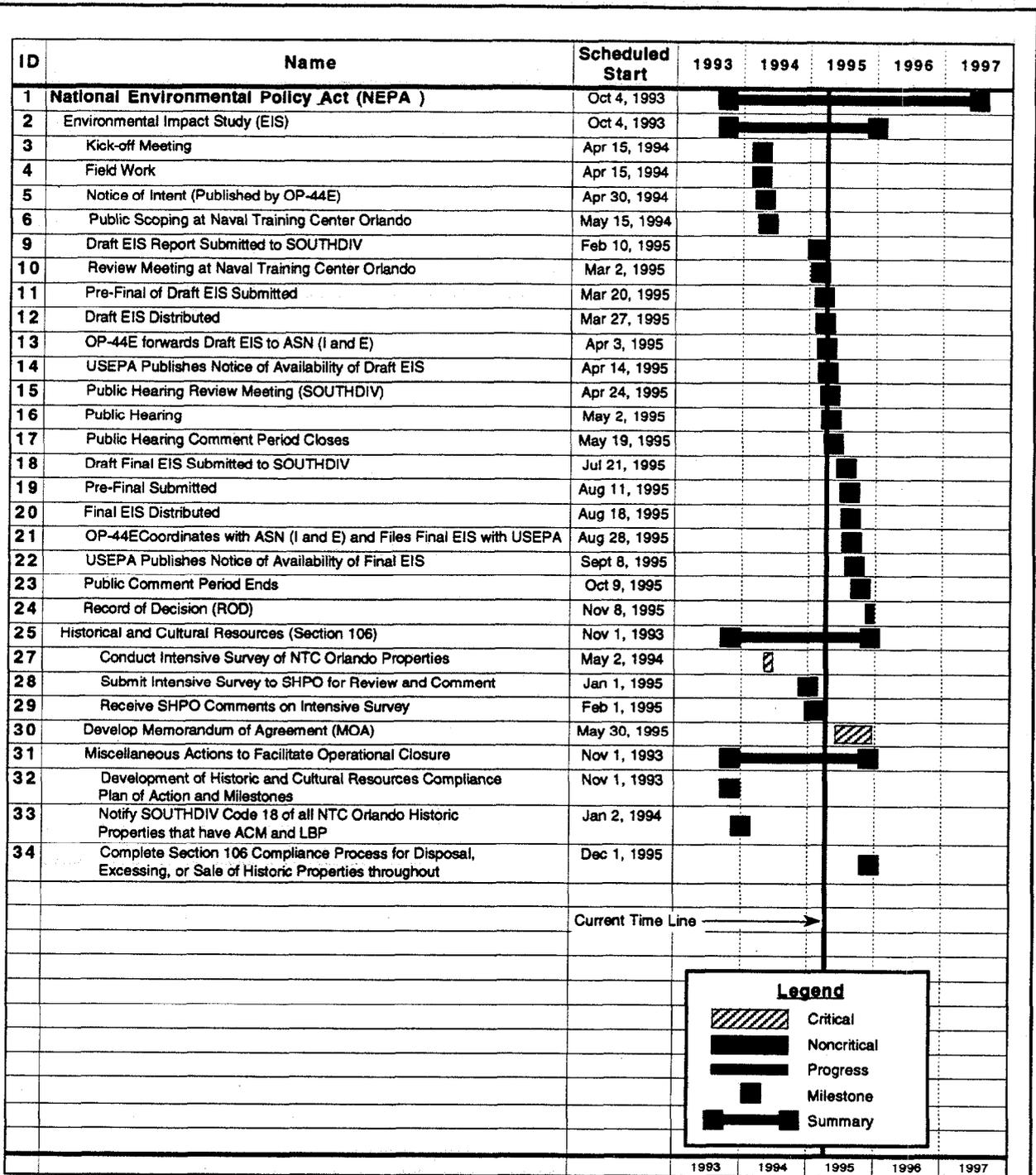


**FIGURE 5-2**  
**COMPLIANCE SCHEDULE**



**BASE REALIGNMENT AND  
CLOSURE CLEANUP PLAN**

**NAVAL TRAINING CENTER  
ORLANDO, FLORIDA**



**FIGURE 5-3**  
**NATURAL AND CULTURAL RESOURCES SCHEDULE**



**BASE REALIGNMENT AND  
 CLOSURE CLEANUP PLAN**

**NAVAL TRAINING CENTER  
 ORLANDO, FLORIDA**

## 6.0 TECHNICAL AND OTHER ISSUES TO BE RESOLVED

This purpose of this chapter is to summarize the technical and other issues that are yet to be resolved. However, because the restoration program at NTC, Orlando is in its earliest stages, not all of the topics listed below require resolution. It is recognized that as the BRAC process continues, numerous topics will demand the attention of the BCT, including:

- data usability (Section 6.1),
- background levels (Section 6.2),
- risk assessment (Section 6.3),
- cleanup standards (Section 6.4), and
- program initiatives to complete cleanup requirements as required to meet property transfer schedules (Section 6.5).

**6.1 DATA USABILITY.** Several of the project reports listed in Appendix B, Table B-1, contain historical analytical data. By determining if information or factors relating to the quality of data are available, an assessment of data usability towards its intended use can be made. For example, if holding times are met, collection procedures are correct, and QC sample results are adequate, then the analytical data are probably sufficient for their intended use and may also apply to other uses.

Table 6-1 summarizes the type of data contained, the intended use of the data, and whether the data are adequate for their intended uses. None of the data is available in an electronic format.

**6.2 BACKGROUND LEVELS.** No unresolved issues have been identified. A draft Background Sampling Plan (BSP) was produced in October 1994 to identify existing concentrations of naturally occurring compounds in soil and groundwater at NTC, Orlando (ABB-ES, 1994c). Background sampling is being conducted according to measures developed in the POP, which contains an HASP, a Quality Assurance Project Plan (QAPP), and the elements of a Field Sampling Plan (FSP). Background sampling provides a facility-wide database of background concentrations in soil and shallow groundwater. The data will be used for site characterization, public health and ecological risk assessment, evaluating remedial alternatives, treatability studies, remedial action, and monitoring.

The BSP identified 16 background sampling locations. Six locations are present at the Main Base; two include groundwater monitoring. In Area "C" two locations were chosen and one monitors groundwater. At McCoy Annex, six background sampling locations were chosen and five of these locations monitor groundwater. At Herndon Annex two locations were chosen and one monitors groundwater. Because past landfill operations are suspected at Herndon Annex, proposed background sampling locations at this site are tentative (ABB-ES, 1994c).

**Table 6-1**  
**Historical Analytical Data and Usability**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Report Number <sup>1</sup>	Data Type(s)	Intended Use	Usability for Intended Use
1	Field and laboratory permeability tests	Carry out groundwater monitoring plan in accordance with Chapter 17-4, FAC.	Yes
2	Field and laboratory permeability tests	Carry out groundwater monitoring plan in accordance with Chapter 17-4, FAC.	Yes
4	Historical chemical analytical data (medium, water).	Identify and assess sites posing a potential threat to human health and the environment.	No
5	Chemical analytical data (medium, waste material).	Classification and pre-transport preparation of containerized waste materials.	Yes
9	Chemical analytical data (media, groundwater and soil).	Verification phase of confirmation study	Partial
13	Some of the data previously presented in Report No. 9.	Further hydrologic evaluation recommended in Report No. 9.	Partial
17	Asbestos air sample data <i>in situ</i>	Determine potential airborne asbestos exposure.	Yes
22	Historical chemical analytical data (medium, groundwater).	For 2080, monitor site for residual petroleum contamination.	Partial
23	Historical chemical analytical data (medium, groundwater).	For 7174, define source of contamination and delineate its extent.	Partial
26	Asbestos bulk sample analytical results	Identify all friable and non-friable ACM at selected facilities.	Yes
27	Chemical analytical data, slug test results (medium, groundwater).	UST contamination assessment (presence of contamination).	Yes
30	Chemical analytical data (medium, tap water).	Determine drinking water levels of lead and copper.	No
31	Chemical analytical data (medium, outfall discharge).	Identification of industrial outfalls	No
32	Chemical analytical data (medium, groundwater).	Monitor site to determine whether residual petroleum contamination exists.	Partial
33	<i>In-situ</i> results, chemical analytical data (paint).	Determine presence of lead in painted surfaces.	Yes
37	Chemical analytical data, radon	Determine radon levels in housing	Yes

<sup>1</sup> Refer to Table B-1, Appendix B, for report titles.

Notes: FAC = Florida Administrative Code.  
ACM = asbestos-contaminated material.  
UST = underground storage tank.

At each site one surface soil composite sample and one subsurface soil composite sample is being collected. Monitoring wells are being installed to a depth of 10 to 15 feet bls and screen the intercepting water table.

Presently there are no agreed upon background levels at NTC, Orlando.

6.3 RISK ASSESSMENTS. The State of Florida and the Navy are still working with Region IV of the USEPA on the protocol for risk evaluation. As of January 1995, there is no agreed upon risk evaluation protocol.

6.4 PARTNERING. No formal partnering efforts are in effect. Continual changing of the Project Team members has precluded the development of a strong team.

6.5 CLEANUP STANDARDS. No unresolved issues have been identified.

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**APPENDIX A**

**FISCAL YEAR FUNDING REQUIREMENTS AND COSTS**

Fiscal Year Funding Requirements and Costs are not available at this time. They will be sent under separate cover.

**APPENDIX B**

**INSTALLATION ENVIRONMENTAL RESTORATION  
DOCUMENTS SUMMARY TABLES**

**Table B-1  
Installation Environmental Restoration Documents Summary**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Document Title	Date	Author
Contamination Assessment Plan - Base Exchange Service Station, McCoy Annex, Orlando, Florida	1991	ABB Environmental Services, Inc.
Contamination Assessment Plan, McCoy Annex Base Exchange Service Station, Naval Training Center, Orlando, Florida: prepared for Dept. of the Navy, SOUTHNAVFACENGCOM	May 1991	ABB Environmental Services, Inc.
Third Quarter Groundwater Monitoring Report for the Monitoring Only Plan at Building 2080, Naval Training Center, Orlando, Florida: prepared for SOUTHNAVFACENGCOM, Charleston, SC	Jan. 1992	ABB Environmental Services, Inc.
Final Environmental Baseline Survey Report	Jan. 1995	ABB Environmental Services, Inc.
Project Operations Plan	1994	ABB Environmental Services, Inc.
Draft Tank Management Plan	Jan. 1995	ABB Environmental Services, Inc.
Draft Remedial Investigation and Feasibility Study Workplan OU 1	October 1994	ABB Environmental Services, Inc.
Draft Remedial Investigation and Feasibility Study Workplan OU 2	December 1994	ABB Environmental Services, Inc.
Site-Specific Contingency Plans, Final Revision, Naval Training Center, Orlando, Florida	October 1992	ABB Environmental Services, Inc.
Asbestos Survey of Selected Buildings at the Naval Training Center, Orlando, Florida, Volumes 1-17	June 1992	Cape Environmental Management, Inc.
Hazardous Waste Management Plan for Orlando Naval Training Center	May 1988	Commander, Naval Training Center
BRAC Cleanup Plan	March 1994	Camp, Dresser, and McKee, Inc.
Hazardous Materials/Wastes Survey, Naval Training Center, Orlando, Florida: prepared for SOUTHNAVFACENGCOM	Jan. 1986	Environmental and Safety Designs, Inc.
Final PCB Audit and Compliance Assessment, NTC, Orlando, Florida	Jan. 1987	Environmental and Safety Designs, Inc.
Preliminary Field Assessment Report On Waste Drum Sampling and Classification, Orlando Naval Training Center	May 1985	Environmental Science and Engineering
Annual Operating Report for Major Air Pollutant Emitting Facility, Including Supplemental Information for the National Acid Prevention Assessment Programs, 1985 Emission Inventory, Orlando Naval Training Center	1985	Florida Department of Environmental Regulation
See notes at end of table.		

**Table B-1  
Installation Environmental Restoration Documents Summary**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Document Title	Date	Author
Hydrogeologic Investigation and Groundwater Monitoring Plan, NTC, Orlando, Florida	June 1984	Geraghty & Miller, Inc.
Verification Assessment Study of Potential Soil and Groundwater Contamination at NTC, Orlando, McCoy Annex (Site No. 10)	Sept. 1988	Geraghty & Miller, Inc.
Radon Test Results for Housing, NTC McCoy Annex	July 1993	Martin Marietta Energy Systems
Initial Assessment Study, Orlando, Florida, Navy Assessment and Control of Installation Pollutants Program	1985	Naval Energy and Environmental Support Activity
Oil Spill Prevention, Control, and Countermeasures Plan (SPCC)	1983	Naval Training Center
Local Hazardous Waste Assessment Survey	1985	Naval Training Center
Stormwater Outfall Survey (100% Report)	February 1986	Post, Buckley, Schuh, and Jernigan, Inc.
Soil Survey of Orange County, Florida	August 1989	United States Soil Conservation Service
Orlando NTC Final Oil Spill Control and Countermeasure Plan (SPCC)	November 1991	SOUTHNAVFACENGCOM
U.S. Navy Storage Systems Management Plan - Orlando NTC Tank Inventory and Management System Data Base, Table 3	1993	United States Navy
<p>Notes: SPCC = Spill Prevention, Control, and Countermeasures.            SOUTHNAVFACENGCOM = Southern Division Naval Facilities Engineering Command.            BRAC = Base Realignment and Closure.            NTC = Naval Training Center.</p>		

**APPENDIX C**

**DECISION DOCUMENT AND RECORD OF DECISION (ROD) SUMMARIES**

No Records of Decision (RODs) have been signed as of January 1995.

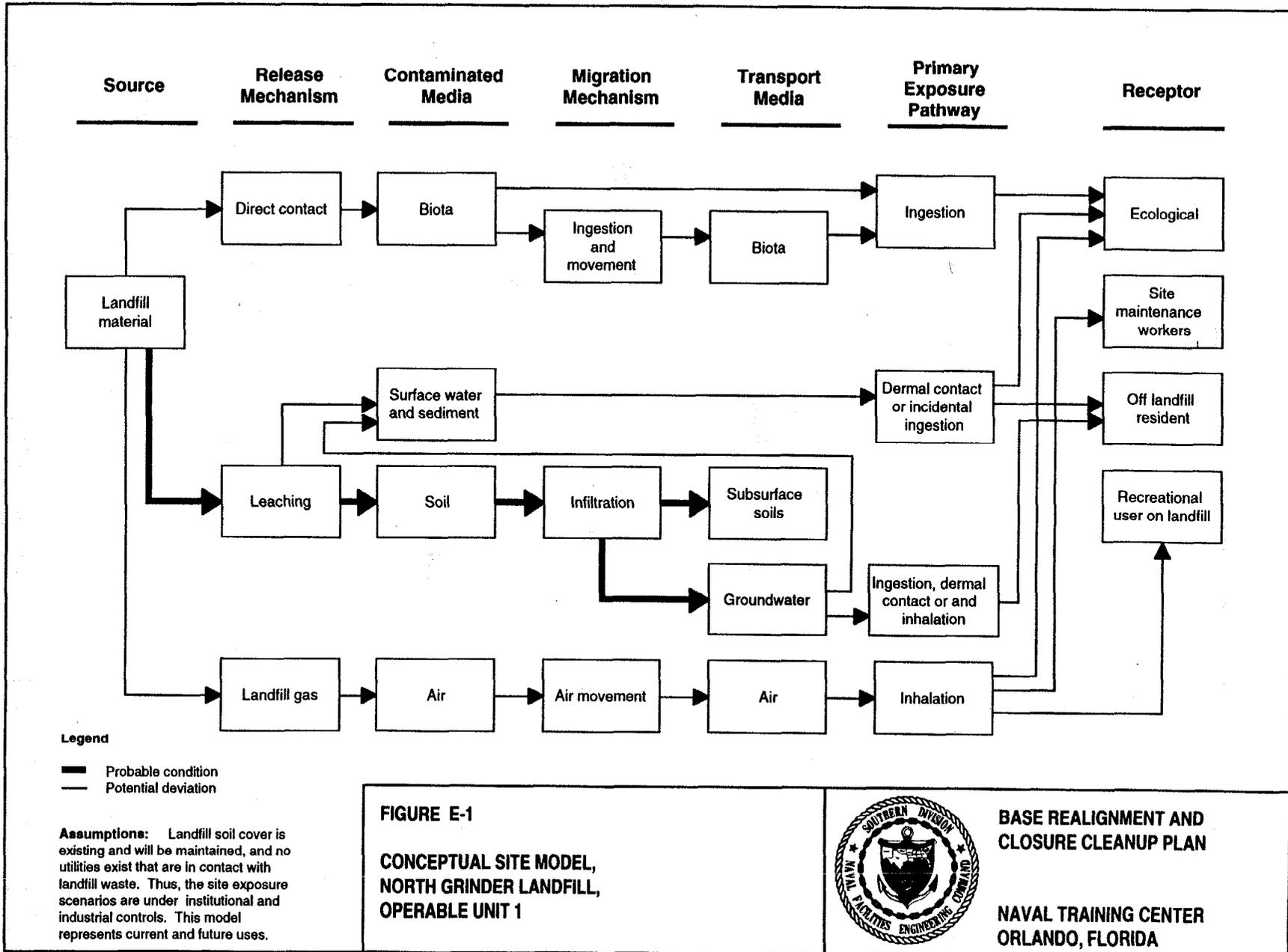
**APPENDIX D**

**NO FURTHER RESPONSE ACTION PLANNED (NFRAP) SUMMARIES**

Site 2080. To date, the only site that has received no further action status is Site 2080, the site of a leaking underground storage tank. Florida Department of Environmental Protection (FDEP) determined that no further action was required on June 2, 1992.

**APPENDIX E**

**CONCEPTUAL SITE MODELS**



**FIGURE E-1**  
**CONCEPTUAL SITE MODEL,**  
**NORTH GRINDER LANDFILL,**  
**OPERABLE UNIT 1**



**BASE REALIGNMENT AND CLOSURE CLEANUP PLAN**  
**NAVAL TRAINING CENTER ORLANDO, FLORIDA**

**APPENDIX F**

**ENVIRONMENTAL CONDITION OF PROPERTY SUMMARY TABLES**

### FACILITY MATRIX

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

FACILITY I.D. NO.	FACILITY DESCRIPTION	FACILITY LOCATION	FACILITY TYPE	SQUARE FOOTAGE	YEAR CONSTR.	HAZ SUB	STORAGE TANK TYPE	TANK CONTENT	TANK CAPACITY <sup>1</sup>	ACM	LEAD IN PAINT	INSP. TYPE	PROPERTY CATEGORY
8		NTC											1/WHITE
11	750 KV SUBSTATION	NTC	UTIL	UNKN	1969					U		EBS	2/BLUE
12	750 KV SUBSTATION	NTC	UTIL	UNKN	1969					U	X	EBS	2/BLUE
13	1500 KV SUBSTATION	NTC	UTIL	UNKN	1969					U		EBS	2/BLUE
14	1000 KV SUBSTATION	NTC	UTIL	UNKN	1969					U		EBS	2/BLUE
15	RTC TRAINING POOL	NTC	RECR	3,188	1969					N		EBS	1/WHITE
16	2500 KV, SUBSTATION	NTC	UTIL	UNKN	1969					U		EBS	2/BLUE
17	FLAG POLE, RTC HQ	NTC	MISC	UNKN	1969					N	X	EBS	1/WHITE
18	ELECTRICAL SUBSTATION	NTC	UTIL	UNKN	1970					U		EBS	2/BLUE
19	RTC RIF WELCOME SIGN	NTC	MISC	UNKN	1970					N		EBS	1/WHITE
21	RTC FITNESS TRAIL	NTC	RECR	13,199	1970					N		EBS	7/GREY
22	GUN MONUMENT	NTC	MISC	UNKN	1971					N	X	EBS	1/WHITE
23	GUN MONUMENT	NTC	MISC	UNKN	1971					N	X	EBS	1/WHITE
24	GUN MONUMENT	NTC	MISC	UNKN	1971					N	X	EBS	1/WHITE
25	GUN MONUMENT	NTC	MISC	UNKN	1971					N	X	EBS	1/WHITE
26	FLAG POLE, RTC S DRILL FIELD	NTC	MISC	UNKN	1971					N	X	EBS	1/WHITE
27	15 KV SUBSTATION	NTC	UTIL	UNKN	1971					U	X	EBS	2/BLUE
28	15 KV SUBSTATION	NTC	UTIL	UNKN	1971					U	X	EBS	2/BLUE
29	20 KV SUBSTATION	NTC	UTIL	UNKN	1971		AST	DIESEL	300	N	X	EBS	7/GREY
30	ANCHOR MONUMENT	NTC	MISC	UNKN	1971					N	X	EBS	1/WHITE
33	750 KV SUBSTATION	NTC	UTIL	UNKN	1972					N		EBS	2/BLUE
34	ELECTRICAL SUBSTATION	NTC	UTIL	UNKN	1972					N	X	EBS	2/BLUE

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35	TRANSFER SWITCHING STATION #1	NTC	UTIL	UNKN	1972					N	X	EBS	1/WHITE
36	TRANSFER SWITCHING STATION #2	NTC	UTIL	UNKN	1972					N	X	EBS	1/WHITE
38	GUN MONUMENT	NTC	MISC	UNKN	1973					N	X	EBS	1/WHITE
40	GUN MONUMENT	NTC	MISC	UNKN	1973					N	X	EBS	1/WHITE
41	GUN MONUMENT	NTC	MISC	UNKN	1973					N	X	EBS	1/WHITE
44	TORPEDO MONUMENT	NTC	MISC	UNKN	1973					N	X	EBS	1/WHITE
45	TORPEDO MONUMENT	NTC	MISC	UNKN	1973					N	X	EBS	1/WHITE
47	TORPEDO MONUMENT	NTC	MISC	UNKN	1973					N	X	EBS	1/WHITE
49	FLAGPOLE, RTC S DRILL FIELD	NTC	MISC	UNKN	1976					N	X	EBS	1/WHITE
51	ELECTRICAL SUBSTATION	NTC	UTIL	UNKN	1984					N		EBS	2/BLUE
53	ELECTRICAL SUBSTATION	NTC	UTIL	UNKN	1984					N		EBS	7/GREY
54	SWITCHING STATION	NTC	UTIL	UNKN	1984					N		EBS	1/WHITE
55	ELECTRICAL SUBSTATION	NTC	UTIL	UNKN	1984					N	X	EBS	2/BLUE
56	PROPELLER MONUMENT	NTC	MISC	UNKN	1981					N		EBS	1/WHITE
57	PROPELLER MONUMENT	NTC	MISC	UNKN	1981					N		EBS	1/WHITE
58	AIRCRAFT MONUMENT	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE
59	ENTRANCE SIGN MAGUIRE GATE	NTC	MISC	UNKN	1972					N		EBS	1/WHITE
60	FLAGPOLE NFAS HQ	NTC	MISC	UNKN	1981					N		EBS	1/WHITE

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61	ANCHOR MONUMENT	NTC	MISC	UNKN	~1981					N	X	EBS	1/WHITE
62	ANCHOR MONUMENT	NTC	MISC	UNKN	~1981					N	X	EBS	1/WHITE
63	TIME CAPSULE	NTC	MISC	UNKN	~1974					N		EBS	1/WHITE
64	TORPEDO MONUMENT	NTC	MISC	UNKN	~1975					N	X	EBS	1/WHITE
65	FLAGPOLE, NPS HQ	NTC	MISC	UNKN	~1975					N	X	EBS	1/WHITE
66	ANCHOR MONUMENT	NTC	MISC	UNKN	~1975					N	X	EBS	1/WHITE
67	ANCHOR MONUMENT	NTC	MISC	UNKN	~1975					N	X	EBS	1/WHITE
68	PIERSIDE PIZZA EATING DECK	NTC	RECR	UNKN	UNKN					N		EBS	1/WHITE
69	GAZEBO	NTC	RECR	UNKN	UNKN					N		EBS	1/WHITE
70	ANCHOR MONUMENT	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE
71	USAF MEMORIAL	NTC	MISC	UNKN	1968					N	X	EBS	1/WHITE
72	ANCHOR MONUMENT	NTC	MISC	UNKN	1969					N	X	EBS	1/WHITE
73	RTC 1ST LT STORAGE	NTC	MISC	UNKN	1978	H				N		EBS	7/GREY
74	SUBMARINE MEMORIAL	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE
75	FLAGPOLE	NTC	MISC	UNKN	1970					N	X	EBS	1/WHITE
76	SIGNAL LIGHT MONUMENT	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE
77	SIGNAL LIGHT MONUMENT	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE
78	LAKEMONT GATE MESSAGE SIGN	NTC	MISC	UNKN	UNKN					N		EBS	1/WHITE
79	TORPEDO MONUMENT	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE
80	ANCHOR MONUMENT	NTC	MISC	UNKN	1983					N	X	EBS	1/WHITE
81	TORPEDO MONUMENT	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE

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82	TORPEDO MONUMENT	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE
83	TORPEDO MONUMENT	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE
84	TORPEDO MONUMENT	NTC	MISC	UNKN	1984					N	X	EBS	1/WHITE
85	TORPEDO MONUMENT	NTC	MISC	UNKN	1972					N	X	EBS	1/WHITE
86	MISSILE MONUMENT	NTC	MISC	UNKN	1972					N	X	EBS	1/WHITE
87	WELCOME SIGN	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE
88	WELCOME SIGN	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE
89	FLAGPOLE	NTC	MISC	UNKN	1943					N	X	EBS	1/WHITE
90	1ST LIEUTENANT MEMORIAL	NTC	MISC	UNKN	UNKN					N	X	EBS	1/WHITE
91	FLAGPOLE	NTC	MISC	UNKN	1943					N	X	EBS	1/WHITE
92	WELCOME SIGN (NAVAL HOSPITAL)	NTC	MISC	UNKN	UNKN					N		EBS	1/WHITE
93	DENTAL CLINIC SIGN	NTC	MISC	UNKN	1991					N		EBS	1/WHITE
102	VISITOR RECEPTION CENTER	NTC	MISC	5,500	1969					N	X	EBS	1/WHITE
103	FORMER HOUSING OFFICE	NTC	HOUS	354	1980					U		EBS	1/WHITE
104	SPECIAL SERVICES OFFICE	NTC	MISC	756	1980					N		EBS	1/WHITE
105	FAMILY SERVICE CENTER	NTC	MISC	7,000	1984					N		EBS	1/WHITE
106	BACHELOR ENLISTED QUARTERS TRANSIENT PERSONNEL	NTC	HOUS	44,770	1970		UST	HOIL	2,000	Y	X	EBS	7/GREY
108	LEISURE LIVING PATIO SHOP	NTC	COMM	10,000	1975					N	X	EBS	1/WHITE

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109/4032	EXCHANGE REPAIR AUTOMOTIVE SERVICE STATION AND YARD	NTC	COMM	14,288 67,500 (pavement)	1974	H	UST(4)  AST UST	UNLD UNLD UNLD NMO WOIL	20,000 20,000 20,000 500 200	N	X	EBS	7/GREY
110	DETENTION FACILITY	NTC	MISC	1,200	1993					U		EBS	1/WHITE
111	VEHICLE REGISTRATION, VISITORS PASS OFFICE	NTC	MISC	902	1985					N		EBS	7/GREY
112	THEATER	NTC	RECR	6,670	1983					N		EBS	2/BLUE
113	NAVY EXCHANGE	NTC	COMM	99,797	1973		UST	HOIL	2,500	N	X	EBS	7/GREY
114	BOWLING AND ARTS & CRAFTS CENTER	NTC	RECR	25,965	1971	H				N	X	EBS	7/GREY
115	MAGUIRE GATE/SENTRY HOUSE	NTC	MISC	100	1972					N	X	EBS	1/WHITE
119	SEWAGE PUMP STATION	NTC	UTIL	651	1972					N	X	EBS	2/BLUE
121	WATER TREAT FACILITY (INACTIVE)	NTC	UTIL	108	1972	H				N	X	EBS	2/BLUE
123	SMALL ARMS/PYRO MAGAZINE	NTC	MISC	286	1973	H				N	X	EBS	2/BLUE
125	SMALL ARMS MAGAZINE	NTC	MISC	144	1973	H				N	X	EBS	2/BLUE
127	GROUNDS MAINTENANCE	NTC	MISC	713	1975	H				N	X	EBS	7/GREY
4053/4055	NAVAL DENTAL CLINIC	NTC	MISC	19,908	1977	M H	UST(2)	DIES HOIL	280 4,000	Y	X	EBS	7/GREY
129	AUTOMOTIVE/WOOD- WORKING HOBBY SHOP	NTC	RECR	17,700	1976	H	UST	WOIL	500	N	X	EBS	7/GREY

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131	PAINT SHOP MATERIALS STORAGE	NTC	MISC	314	1976	H	AST	DIES	300	N		EBS	6/RED
133	SELF SERVICE CAR WASH	NTC	COMM	6,137	1978	H	AST	PROPANE	1,000	N		EBS	2/BBLUE
133A	SELF SERVICE CAR WASH	NTC	COMM	UNKN	1990	H				N		EBS	2/BBLUE
133B	CLEAN CAR CARE CENTER	NTC	COMM	UNKN	1990					N		EBS	1/WHITE
134	FITNESS CENTER	NTC	RECR	7,200	1990					N		EBS	2/BBLUE
135	PUBLIC TOILET	NTC	MISC	483	1980					N		EBS	1/WHITE
136	GYMNASIUM	NTC	RECR	20,944	1986					N		EBS	1/WHITE
137	PUBLIC WORKS, ELECTRIC SHOP	NTC	LTID	4,000	1981					N		EBS	7/GREY
138	ENLISTED MENS CLUB	NTC	RECR	25,218	1975	H	UST	HOIL	5,000	Y	X	EBS	7/GREY
139	PEST CONTROL BUILDING	NTC	MISC	1,584	1982	P						EBS	7/GREY
141	NAVY EXCHANGE WAREHOUSE	NTC	MISC	1,152	1982					N		EBS	1/WHITE
145	GOLF COURSE PUBLIC TOILET	NTC	MISC	483	1980					N		EBS	1/WHITE
148	COLD STORAGE WAREHOUSE	AREA C	LTID	7,000	1942	H	AST	DIES	100	N	X	EBS	7/GREY
150	WATER SPORTS FACILITY	NTC	RECR	4,603	1982		UST AST	UNLD PROP	500 500	N		EBS	6/RED
158	REC PAVILION EAST BLEACHERS	NTC	RECR	UNKN	1993					N		EBS	1/WHITE
159	REC PAVILION WEST BLEACHERS	NTC	RECR	UNKN	1993					N		EBS	7/GREY

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200	FIRE FIGHTING SCHOOL	NTC	MISC	9,430	1970	H	UST(3)	ABDN HOIL	500 10,000	Y	X	EBS	7/GREY
201	WATER TREATMENT FACILITY/CHLORINATION STATION	NTC	UTIL	210	1971	H				N	X	EBS	2/BLUE
202	FF GAS MASK TRAINER	NTC	MISC	1,517	1993					U		EBS	1/WHITE
203	FIELD SOUTH REVIEWING STAND	NTC	MISC	2,625	1971					N	X	EBS	1/WHITE
204	PROJECT GRANDSTAND COVERS N	NTC	MISC	UNKN	1989					U		EBS	1/WHITE
205	PROJECT GRANDSTAND COVERS S	NTC	MISC	UNKN	1989					U		EBS	1/WHITE
206	GYM/FIELD HOUSE	NTC	RECR	44,509	1969	H	UST	HOIL	5,000	Y	X	EBS	7/GREY
207	FIELD NORTH REVIEWING STAND	NTC	MISC	2,059	1968					U	X	EBS	1/WHITE
208	BLUE JACKET TRAINING MOCKUP	NTC	MISC	7,425	1969		UST	HOIL	UNKN	Y	X	EBS	7/GREY
209	RECRUIT FIREFIGHTING TRAINER	NTC	MISC	10,660	1993					U		EBS	7/GREY
210	RECRUIT BARRACKS	NTC	HOUS	109,000	1969		UST	HOIL	10,000	Y	X	EBS	7/GREY
211/4058	FF SCHOOL UTILITY BLD/CO <sub>2</sub> TANK	NTC	MISC	3,200	1993	H	AST	MIXT CO <sub>2</sub> AFFF	1,100 6 TON 300	U		EBS	7/GREY
212	RECRUIT BARRACKS	NTC	HOUS	109,000	1969		UST	HOIL	10,000	Y	X	EBS	7/GREY
213	1500 KVA SUBSTATION	NTC	UTIL	UNKN	1968					N		EBS	2/BLUE
214	RECRUIT BARRACKS	NTC	HOUS	109,000	1969		UST	HOIL	10,000	Y	X	EBS	7/GREY

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215	1500 KVA SUBSTATION	NTC	UTIL	400	1968					N	X	EBS	2/BLUE
216	MESS HALL	NTC	MISC	55,250	1968		UST(2) AST	DIES HOIL DIES	15,000 15,000 300	N	X	EBS	7/GREY
218	MESS HALL	NTC	MISC	47,369	1968		UST AST	HOIL DIES	15,000 UNKN	N	X	EBS	7/GREY
220	RECRUIT BARRACKS	NTC	HOUS	109,000	1970		UST	HOIL	10,000	Y	X	EBS	7/GREY
222	RECRUIT BARRACKS	NTC	HOUS	109,000	1971		UST	HOIL	10,000	Y	X	EBS	7/GREY
224	RECRUIT BARRACKS	NTC	HOUS	109,000	1972		UST	HOIL	10,000	Y	X	EBS	7/GREY
226	RECRUIT BARRACKS	NTC	HOUS	109,000	1971		UST	HOIL	10,000	Y	X	EBS	7/GREY
228	RECRUIT BARRACKS	NTC	HOUS	109,000	1972		UST	HOIL	10,000	Y	X	EBS	7/GREY
229	INDOOR RIFLE RANGE	NTC	MISC	11,622	1971					N	X	EBS	7/GREY
230	ACADEMIC INSTRUCTION TRAINING BUILDING	NTC	MISC	160,500	1968		UST	HOIL	3,000	Y	X	EBS	7/GREY
231	ELECTRICAL SUBSTATION	NTC	UTIL	UNKN	1968							EBS	2/BLUE
232	RECRUIT BARRACKS	NTC	HOUS	109,000	1968		UST	HOIL	10,000	Y	X	EBS	7/GREY
233	ELECTRICAL SUBSTATION	NTC	UTIL	UNKN	1968					N		EBS	2/BLUE
234	RECRUIT BARRACKS	NTC	HOUS	109,000	1968		UST	HOIL	10,000	Y	X	EBS	7/GREY
235	RECRUIT PROCESSING BUILDING	NTC	MISC	90,717	1970	H M	UST	HOIL	2,000	Y	X	EBS	7/GREY
236	ROUNDHOUSE	NTC	MISC	5,440	1970					Y	X	EBS	1/WHITE
238	RECEIVING BARRACKS	NTC	MISC	60,195	1970		UST	HOIL	2,000	Y	X	EBS	7/GREY
240	RECRUIT COMMUNITY CENTER	NTC	COMM	23,496	1969		UST	HOIL	3,000	U	X	EBS	7/GREY
244	WATER STORAGE TANK	NTC	UTIL	UNKN	1968					N	X	EBS	1/WHITE

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245	SEWAGE PUMP STATION	NTC	UTIL	693	1968	H	AST	PROP	500	N	X	EBS	2/BLUE
246	MEDICAL/DENTAL CLINIC	NTC	MISC	79,220	1971	M H	UST AST	HOIL DIES	2,500 520	Y	X	EBS	7/GREY
250	RUSK MEMORIAL CHAPEL	NTC	MISC	18,200	1969		UST	HOIL	2,500	Y	X	EBS	3/LIGHT GREEN
251	RUSK MEMORIAL CHAPEL ANNEX	NTC	MISC	3,978	1969					Y	X	EBS	3/LIGHT GREEN
252	ADMINISTRATION RTC HEADQUARTERS	NTC	MISC	39,800	1969	H	UST	HOIL	2,500	Y	X	EBS	7/GREY
253	APPRENTICE TRAINING	NTC	MISC	23,962	1984					N		EBS	1/WHITE
254	HANGER MOCKUP	NTC	MISC	5,400	1984					N		EBS	1/WHITE
255	STUDENT BREAK AREA	NTC	RECR	3,136	1984					N		EBS	1/WHITE
256	AT SCHOOL MOCK-UP	NTC	MISC	246	1984	H				N		EBS	2/BLUE
300	LAKEMONT AVE. GATE/SENTRY HOUSE	NTC	MISC	63	1985					N		EBS	1/WHITE
301	SSC APPLIED INSTRUCTION Building	NTC	MISC	151,258	1993					N		EBS	2/BLUE
303	BREault HALL, AUW SCHOOL	NTC	MISC	27,000	1989	H	UST	UNKN	UNKN	N		EBS	7/GREY
304/4304	MIHALOWSKI HALL, SSC HQ/TORPEDO	NTC	MISC	110,040	1968	H	AST  AST UST	GLYC  GLYC HOIL	500  500 10,000	Y	X	EBS	7/GREY
305	CRONIN HALL, ET A SCHOOL	NTC	MISC	79,600	1985	H				N		EBS	2/BLUE
306	FIREMAN APPRENTICE SCHOOL	NTC	MISC	18,490	1986					N		EBS	1/WHITE
310	MUNRO HALL, BEQ	NTC	HOUS	116,630	1986		AST	DIES	150	N		EBS	7/GREY

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311	BARRACKS	NTC	HOUS	132,110	1987	H	AST	DIES	150	N		EBS	7/GREY
313	HANSON HALL, BEQ	NTC	HOUS	116,630	1988		AST	DIES	150	U		EBS	7/GREY
316	NPTC BEQ	NTC	HOUS	116,630	1991		AST	DIES	UNKN	U		EBS	7/GREY
317	ARMY BEQ	NTC	HOUS	116,630	1991		AST	DIES	550	U		EBS	7/GREY
325	GALLEY	NTC	MISC	52,000	1994		(2)UST	UNUSED	UNUSED	U		EBS	7/GREY
350/4051	NUCLEAR POWER SCHOOL	NTC	MISC	131,000	1975					N	X	EBS	1/WHITE
351	HEATING PLANT	NTC	UTIL	1,350	1975	H	UST	HOIL	2,000	N	X	EBS	7/GREY
352	GALLEY	NTC	MISC	42,732	1972	H	UST	HOIL	15,000	Y	X	EBS	7/GREY
354	NUCLEAR FIELD "A" SCHOOL	NTC	MISC	106,648	1981		AST	LOIL	300	Y		EBS	7/GREY
							AST	LOIL	300				
							UST	HOIL	3,000				
356	NUCLEAR POWER FIELD "A" SCHOOL	NTC	MISC	112,690	1976	H	UST	HOIL	3,000	N	X	EBS	7/GREY
358	BEQ/HEATING PLANT	NTC	HOUS	29,066	1974	H	UST	HOIL	3,000	N	X	EBS	7/GREY
359	BEQ	NTC	HOUS	24,216	1974					N	X	EBS	1/WHITE
360	BEQ	NTC	HOUS	19,405	1974					N	X	EBS	1/WHITE
361	BEQ/HEATING PLANT	NTC	HOUS	19,405	1974		UST	HOIL	3,000	N	X	EBS	7/GREY
362	BEQ	NTC	HOUS	19,405	1974					N	X	EBS	1/WHITE
363	BEQ/HEATING PLANT	NTC	HOUS	19,405	1974		UST	HOIL	3,000	N	X	EBS	7/GREY
364	BEQ/HEATING PLANT	NTC	HOUS	19,405	1974		UST	HOIL	3,000	N	X	EBS	7/GREY
365	BEQ/HEATING PLANT	NTC	HOUS	19,405	1974					N	X	EBS	1/WHITE
366	BEQ/HEATING PLANT	NTC	HOUS	19,405	1974		UST	HOIL	3,000	N	X	EBS	7/GREY
367	BEQ	NTC	HOUS	19,405	1974					N	X	EBS	1/WHITE
368	BEQ	NTC	HOUS	19,405	1975					N	X	EBS	1/WHITE
369	BEQ/HEATING PLANT	NTC	HOUS	19,405	1975		UST	HOIL	3,000	N	X	EBS	7/GREY

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370	BEQ "A" SCHOOL	NTC	HOUS	19,405	1975		UST	HOIL	3,000	N	X	EBS	7/GREY
371	BEQ "A" SCHOOL	NTC	HOUS	19,405	1975					N	X	EBS	1/WHITE
372	BEQ	NTC	HOUS	11,560	1976					N	X	EBS	1/WHITE
373	BEQ "A" SCHOOL	NTC	HOUS	16,450	1976					N	X	EBS	1/WHITE
374	BEQ "A" SCHOOL	NTC	HOUS	16,450	1976					N	X	EBS	1/WHITE
375/4041/ 4042	LDRY AND EQUIP ROOM/BILLETING OFFICE	NTC	COMM LTID	5,125	1976		UST	HOIL	5,000	N	X	EBS	7/GREY
376	BEQ "A" SCHOOL	NTC	HOUS	16,450	1976					N	X	EBS	1/WHITE
377	BEQ	NTC	HOUS	11,560	1976					N	X	EBS	1/WHITE
378	BEQ "A" SCHOOL	NTC	HOUS	16,450	1976					N	X	EBS	1/WHITE
379	BEQ "A" SCHOOL	NTC	HOUS	11,560	1976					N	X	EBS	1/WHITE
380	BEQ "A" SCHOOL	NTC	HOUS	16,450	1976					N	X	EBS	1/WHITE
381	BEQ "A" SCHOOL	NTC	HOUS	11,560	1976					N	X	EBS	1/WHITE
382	BEQ LAUNDRY	NTC	MISC	3,990	1991					U		EBS	1/WHITE
383	STAFF BEQ	NTC	HOUS	54,684	1982					N		EBS	2/BLUE
384	STAFF BEQ	NTC	HOUS	54,684	1982		UST	HOIL	2,000	N		EBS	7/GREY
385	BEACH BLVD, GATE/SENTRY HOUSE	NTC	MISC	63	1985					N		EBS	1/WHITE
386	BEQ	NTC	HOUS	116,000	~1994		AST	UNUSED	500	N		EBS	1/WHITE
500	NAVAL HOSPITAL	NTC	MISC	UNKN	1981	H,M				U		EBS	2/BLUE
501	MEDICAL LOGISTIC SUPPORT BUILDING	NTC	MISC	UNKN	1980	H				U		EBS	2/BLUE
502	HOSPITAL BOILER PLANT	NTC	UTIL	UNKN	1981	H	UST(2)	HOIL HOIL	30,000 30,000	U		EBS	7/GREY
503	WELLNESS CLINIC	NTC	MISC	UNKN	1989					U		EBS	2/BLUE

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504	HELICOPTER LANDING PAD	NTC	MISC	100	1978					N	X	EBS	1/WHITE
505	GOLF CLUB HOUSE	NTC	RECR	6,802	1981	H				N		EBS	2/BLUE
506	GOLF CART STORAGE	NTC	RECR	2,640	1981					N		EBS	1/WHITE
517	AMBULANCE CENTER AND HOSPITAL FACILITY MANAGEMENT	NTC	MISC	UNKN	~1984	H				U		EBS	2/BLUE
518	HOSPITAL OXYGEN STORAGE BUILDING	NTC	MISC	UNKN	~1981	AST	OXYGEN	UNKN		U		EBS	1/WHITE
519	HOSPITAL BEQ	NTC	HOUS	UNKN	~1987					U		EBS	1/WHITE
520	HOSPITAL BEQ	NTC	HOUS	UNKN	1988					U		EBS	1/WHITE
521	HOSPITAL BEQ	NTC	HOUS	UNKN	1987					U		EBS	2/BLUE
522	HOSPITAL BEQ	NTC	HOUS	UNKN	1988					U		EBS	1/WHITE
523	CHAMPUS/HEALTH BENEFITS	NTC	MISC	UNKN	1991					U		EBS	1/WHITE
601	PISTOL/RIFLE RANGE	HERNDON	MISC	2,268	1970					Y	X	EBS	7/GREY
602	GENERAL WAREHOUSE	HERNDON	MISC	80,210	1970	H	AST	UNLD	500	U	X	EBS	7/GREY
605	SEWAGE PUMP STATION	HERNDON	UTIL	228	1973					U	X	EBS	7/GREY
606	TECH SERVICE LAB & NTSC RESEARCH LAB	HERNDON	MISC	38,042	1973	H				U	X	EBS	7/GREY
607/6011/6012	HEATING & A/C PLANT	HERNDON	UTIL	4,068	1973	W	UST	HOIL	10,000	U	X	EBS	7/GREY
608	COMBINED RESEARCH LAB, NTSC LAB	HERNDON	MISC	1,960	1978					U	X	EBS	7/GREY
610	COMBINED RESEARCH LAB, NTSC LAB	HERNDON	MISC	10,004	1976		UST	UNKN	UNKN	U		EBS	7/GREY
612	COMBINED RESEARCH SUPPORT, NTSC LAB	HERNDON	MISC	2,400	1979					U		EBS	7/GREY

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700		NTC	MISC										1/WHITE
701		NTC	MISC										2/BUE
702	OFFICER'S FAMILY HOUSING	NTC	HOUS	2,215	1974					U	X	EBS	2/BUE
703		NTC	MISC										1/WHITE
720	ENLISTED FAMILY HOUSING	MCCOY	HOUS	6,264	1975					U	X	EBS	1/WHITE
724	ENLISTED FAMILY HOUSING	MCCOY	HOUS	9,468	1975					U	X	EBS	1/WHITE
725	ENLISTED FAMILY HOUSING	MCCOY	HOUS	6,264	1975					U	X	EBS	1/WHITE
730	ENLISTED FAMILY HOUSING	MCCOY	HOUS	9,324	1975					U	X	EBS	1/WHITE
740	ENLISTED FAMILY HOUSING	MCCOY	HOUS	8,456	1975					U	X	EBS	1/WHITE
1050	CBU 419 HEADQUARTERS	AREA C	MISC	3,050	1943		AST	HOIL	265	Y	X	EBS	7/GREY
1052	NTSC WAREHOUSE	AREA C	LTID	9,600	1943					N		EBS	1/WHITE
1053	CBU 419 WAREHOUSE	AREA C	LTID	9,600	1943	H				N		EBS	7/GREY
1054	NTSC GENERAL WAREHOUSE	AREA C	MISC	9,963	1943	H				Y	X	EBS	2/BUE
1055	NTSC WAREHOUSE	AREA C	MISC	9,600	1943	H				Y	X	EBS	2/BUE
1056	SERVMART GENERAL WAREHOUSE	AREA C	COMM	9,600	1943	H				Y	X	EBS	2/BUE
1057	GENERAL WAREHOUSE	AREA C	MISC	9,600	1943	H	AST	RMVD	265	Y	X	EBS	7/GREY
1058	GENERAL WAREHOUSE	AREA C	MISC	9,600	1943	H				N	X	EBS	2/BUE

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1059	PACKING AND CRATING, GENERAL WAREHOUSE	AREA C	LTID	10,080	1943	H	UST AST	GASO HOIL	500 265	N	X	EBS	7/GREY
1060	GENERAL WAREHOUSE	AREA C	MISC	10,012	1943	H				N	X	EBS	2/BLUE
1061	DISPOSAL/SALV/SCRAP BUILDING	AREA C	MISC	9,600	1943	H				Y	X	EBS	7/GREY
1062	HAZARD/FLAMMABLE WAREHOUSE	AREA C	MISC	8,400	1969	H				N		EBS	2/BLUE
1063/1069	SALVAGE OFFICE, DRMO WAREHOUSE, AND DRMO SCALES	AREA C	MISC	9,600	1963	H	AST	RMVD	265	Y	X	EBS	7/GREY
1065	POLICE SECURITY STORAGE	AREA C	MISC	224	1943					U	X	EBS	1/WHITE
1066	DRMO WAREHOUSE	AREA C	MISC	800	1959					N	X	EBS	1/WHITE
1068	DRMO WAREHOUSE	AREA C	MISC	800	1959					N	X	EBS	1/WHITE
1100	HEATING PLANT AND BASE LAUNDRY	AREA C	LTID	54,916	1943	W,H	UST AST AST	HOIL CWW ABDN	20,000 150 UNKN	Y	X	EBS	6/RED
1102	DISPOSAL/SALVAGE/SCRAP BUILDING	AREA C	MISC	3,840	1969					N	X	EBS	7/GREY
1104	HAZARDOUS MATERIAL STORAGE AREA	AREA C	MISC	153	1982	H				N		EBS	7/GREY
2000	TAXI STAND/BUS STOP	NTC	MISC	360	1988					N		EBS	1/WHITE
2001	ADMINISTRATION BUILDING	NTC	MISC	8,286	1943		AST	HOIL	550	Y	X	EBS	7/GREY
2002	NTC HEADQUARTERS	NTC	MISC	8,240	1943		AST	HOIL	500	U	X	EBS	7/GREY

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2003	DEFENSE FINANCE ACCOUNTING SERVICE OFFICE	NTC	MISC	8,200	1945		AST(2)	HOIL	375	Y	X	EBS	6/RED
2004	ADMINISTRATION BUILDING	NTC	MISC	8,200	1945		AST	HOIL	500	Y	X	EBS	7/GREY
2005	ADMINISTRATION BUILDING	NTC	MISC	19,327	1943		AST	HOIL	1,000	U	X	EBS	7/GREY
2006	ADMINISTRATION BUILDING	NTC	MISC	18,606	1943		UST AST	UNKN HOIL	UNKN 600	Y	X	EBS	7/GREY
2008	AMUSEMENT CENTER	NTC	MISC	7,105	1943					Y	X	EBS	7/GREY
2009	THRIFT SHOP	NTC	COMM	2,400	1943		AST	RMVD	500	Y	X	EBS	7/GREY
2010	SECURITY BUILDING	NTC	MISC	12,148	1943	H	AST AST(2)	PROP ABDN	250 300	Y	X	EBS	7/GREY
2011	NAVAL LEGAL SERVICES	NTC	MISC	19,937	1943		AST(3)	HOIL	300	Y	X	EBS	7/GREY
2012	POST OFFICE	NTC	MISC	7,501	1943		UST	HOIL	5,000	Y	X	EBS	7/GREY
2015	SERVICE CLUB	NTC	MISC	7,798	1943		AST	HOIL	825	Y	X	EBS	6/RED
2016	FIRE STATION	NTC	MISC	9,704	1988	H	AST	PROP	200	N		EBS	2/BLUE
2017	LOCKSMITH OFFICE	NTC	MISC	364	1943					Y	X	EBS	1/WHITE
2018	LAUNDRY PICK-UP	NTC	LTID	8,461	1943		UST	HOIL	500	Y	X	EBS	7/GREY
2020	CHAPEL	NTC	MISC	3,385	1943		AST	HOIL	265	Y	X	EBS	7/GREY
2022	CHAPLAIN'S ADMINISTRATIVE OFFICE	NTC	MISC	4,114	1943		AST	HOIL	600	Y	X	EBS	7/GREY
2024	NTC SUPPLY	NTC	MISC	26,134	1943					U	X	EBS	7/GREY
2025	PUBLIC WORKS ADMINISTRATION	NTC	LTID	21,776	1943	H,W	AST	HOIL	500	Y	X	EBS	7/GREY
2026	MAXI MART	NTC	COMM	41,463	1943		UST	DIES	UNKN	Y	X	EBS	7/GREY

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2034	MORALE WELFARE AND RECREATION	NTC	MISC	6,273	1943		AST	HOIL	500	U	X	EBS	7/GREY
2035	ADMINISTRATION BUILDING	NTC	MISC	2,541	1943	H	AST	HOIL	265	U	X	EBS	7/GREY
2036	NAVY CAMPUS EDUCATION CENTER	NTC	MISC	7,094	1943		UST AST	DIES HOIL	600 600	Y	X	EBS	7/GREY
2039	PHOTOGRAPHY LAB	NTC	LTID	8,613	1943	H	AST	HOIL	265	N	X	EBS	7/GREY
2040	ADMINISTRATION BUILDING	NTC	MISC	20,654	1943		UST AST(2)	HOIL HOIL	1,400 650	Y	X	EBS	7/GREY
2042	CODING TOWER	NTC	MISC	UNKN	1967					U		EBS	1/WHITE
2044	HEATING PLANT	NTC	UTIL	UNKN	1967		UST	DIES	1,400	Y	X	EBS	7/GREY
2045	VACANT	NTC	MISC	8,741	1943					U	X	EBS	7/GREY
2047	ADMINISTRATION BUILDING	NTC	RECR	8,613	1943					U	X	EBS	1/WHITE
2049	PRINTING PLANT	NTC	LTID	8,677	1943	H	AST	HOIL	265	Y	X	EBS	7/GREY
2053	WAREHOUSE/NEX VENDING	NTC	LTID	8,613	1943		UST AST	DIES HOIL	5,000 275	Y	X	EBS	7/GREY
2055	MAINTENANCE SHOP	NTC	MISC	8,613	1943	H				U	X	EBS	7/GREY
2073	ARMORY/HURRICANE STORAGE LOCKER	NTC	MISC	448	1943	H				Y	X	EBS	2/BLUE
2076	CHILD DEVELOPMENT CENTER	NTC	COMM	4,080	1943		AST	HOIL	265	Y	X	EBS	7/GREY
2077	RECRUIT DATA PROCESSING BUILDING	NTC	MISC	6,816	1943					U	X	EBS	1/WHITE
2078	AUTOMOTIVE MAINT FACILITY	NTC	LTID	32,292	1943	H	UST AST AST	RMVD HOIL WOIL	500 600 200	Y	X	EBS	6/RED

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2079	AUTOMOTIVE MAINT FACILITY, HAZ. WASTE STORAGE	NTC	MISC	495	1943	H,W				Y	X	EBS	7/GREY
2080	FILLING STATION	NTC	LTID	128	1972	H	UST(7)      AST	RMVD RMVD RMVD UNLD UNLD DIES DIES	1,000 7,000 10,000 10,000 10,000 10,000 25	U	X	EBS	4/DARK GREEN
2087	COMMUNITY STORAGE	NTC	MISC	336	1943					Y	X	EBS	1/WHITE
2088	COMMUNITY STORAGE	NTC	MISC	336	1943					Y	X	EBS	1/WHITE
2091	SAILOR'S CHAPEL AND OFFICE	NTC	MISC	9,455	1943		AST AST AST	RMVD HOIL HOIL	1,000 550 550	Y	X	EBS	7/GREY
2092	PUBLIC WORKS STORAGE	NTC	LTID	14,783	1943	H	UST	HOIL	600	Y	X	EBS	7/GREY
2093	VACANT BEQ	NTC	HOUS	20,280	1943		UST AST AST	HOIL HOIL HOIL	2,500 550 550	Y	X	EBS	7/GREY
2095	REHAB CENTER	NTC	MISC	11,968	1943		AST AST	HOIL HOIL	550 550	Y	X	EBS	7/GREY
2105	LIBRARY	NTC	RECR	4,904	1943		AST	RMVD	500	U	X	EBS	7/GREY

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2112	REVIEWING STAND	NTC	RECR	192	1949					U	X	EBS	1/WHITE
2113	NAVAL EXCHANGE/MWR VISUAL WORKS SHOP	NTC	COMM	6,720	1943	H	UST	HOIL	500	Y	X	EBS	7/GREY
2114	ROICC, ADMIN	NTC	MISC	4,236	1943		AST	RMVD	500	Y	X	EBS	7/GREY
2115	PUBLIC WORKS CONTRACTS	NTC	MISC	8,706	1943		UST	HOIL	500	Y	X	EBS	6/RED
2121	PW LUMBER STORAGE	NTC	LTID	1,200	1952	H				U	X	EBS	7/GREY
2122	PUBLIC WORKS SHOP	NTC	LTID	1,800	1952	H	AST AST	MISC HOIL	400 265	Y	X	EBS	7/GREY
2126	RECREATION STORAGE	NTC	RECR	360	1972					N	X	EBS	1/WHITE
2127	RECREATION STORAGE	NTC	RECR	360	1972					U	X	EBS	1/WHITE
2134	GREEN'S KEEPER STORAGE	NTC	LTID	800	1943	H,P	AST AST AST	DIES DIES UNLD	550 200 250	Y		EBS	7/GREY
2135	GOLF COURSE PUMP HOUSE	NTC	UTIL	121	1969					N	X	EBS	1/WHITE
2199	BUS STOP	NTC	MISC	441	1986					N		EBS	1/WHITE
2262	CUSTODIAL CONTRACTOR	NTC	LTID	2,400	1943	H,P	AST	HOIL	265	Y	X	EBS	7/GREY
2266	VETERINARY CLINIC	NTC	MISC	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2273	FUEL FARM	NTC	MISC	532	1944	H	UST(4)	HOIL HOIL RMVD RMVD	11,750 11,750 11,750 11,750	U	X	EBS	6/RED
2299	BUS STOP	NTC	MISC	441	1986					N		EBS	1/WHITE
2349	NPS BUS STOP	NTC	MISC	441	1986					N		EBS	1/WHITE
2401	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY

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2402	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2403	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2404	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2405	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2406	LAUNDRY	NTC	MISC	480	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2409	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2410	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2411	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2412	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	265	Y	X	EBS	7/GREY
2413	STORAGE	NTC	MISC	480	1943					Y	X	EBS	1/WHITE
2414	FLAMMABLE - HAZARDOUS MATERIALS STORAGE	NTC	HOUS	480	1943	H				Y	X	EBS	7/GREY
2415	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2416	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2417	BOQ	NTC	HOUS	2,121	1943		AST	RMVD	300	Y	X	EBS	7/GREY
2418	VIP QUARTERS	NTC	HOUS	2,121	1943		AST	RMVD	265	Y	X	EBS	7/GREY
2419	BOQ	NTC	HOUS	2,121	1943		AST	RMVD	300	Y	X	EBS	7/GREY
2420	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	265	Y	X	EBS	7/GREY
2421	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	265	Y	X	EBS	7/GREY
2423	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	265	Y	X	EBS	7/GREY
2424	VIP QUARTERS	NTC	HOUS	2,121	1943		AST	RMVD	265	Y	X	EBS	7/GREY
2426	BOQ	NTC	HOUS	2,121	1943		AST	HOIL	265	Y	X	EBS	7/GREY
2427	ADMIRAL'S COTTAGE	NTC	HOUS	1,088	UNKN		AST	RMVD	265	Y	X	EBS	7/GREY

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2434	OFFICERS OPEN MESS CLUB	NTC	MISC	27,439	1943		AST UST AST AST	PROP HOIL HOIL HOIL	500 3,500 650 650	Y	X	EBS	7/GREY
2435	CPO CLUB	NTC	RECR	5,901	1943		AST	PROP	250	Y	X	EBS	2/BLUE
2437	OUTDOOR DANCE FACILITY	NTC	RECR	11,310	1943					N	X	EBS	1/WHITE
2440	SEWAGE PUMP STATION	NTC	UTIL	55	1946					N		EBS	1/WHITE
2441	COMMUNITY STORAGE	NTC	MISC	400	1954					U	X	EBS	1/WHITE
2450	CPO BARRACKS	NTC	HOUS	9,792	1943		UST	ABDN	1,000	Y	X	EBS	6/RED
2451	CARPENTER SHOP	NTC	LTID	1,672	1943	H	AST	HOIL	265	Y	X	EBS	2/BLUE
2454	PICNIC SHELTER	NTC	RECR	322	1972					N	X	EBS	7/GREY
2455	PICNIC SHELTER	NTC	RECR	322	1972					N	X	EBS	1/WHITE
2456	PICNIC SHELTER	NTC	RECR	322	1972					N	X	EBS	1/WHITE
2457	PICNIC SHELTER	NTC	RECR	322	1972					N	X	EBS	1/WHITE
2459	PICNIC SHELTER	NTC	RECR	322	1978					N	X	EBS	1/WHITE
2508	SWIMMING POOL BATH HOUSE	NTC	RECR	1,858	1943	H				N	X	EBS	2/BLUE
2509	WATER TREATMENT FACILITY	NTC	UTIL	282	1964	H				Y	X	EBS	2/BLUE
2510	SWIMMING POOL HEATING PLANT	NTC	UTIL	256	1969		UST	HOIL	4,000	Y	X	EBS	7/GREY
2511	BEACHHOUSE	NTC	RECR	3,782	1987					U		EBS	1/WHITE
2512	PICNIC SHELTER	NTC	RECR	322	1972					N		EBS	1/WHITE
2513	PICNIC SHELTER	NTC	RECR	322	1972					N		EBS	1/WHITE
2514	PICNIC SHELTER	NTC	RECR	322	1972					N		EBS	1/WHITE

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2515	PICNIC SHELTER	NTC	RECR	322	1972					N		EBS	1/WHITE
2516	ANCHOR'S OLE	NTC	COMM	17,500	1943		AST AST	HOIL HOIL	550 550	Y	X	EBS	7/GREY
2518	PICNIC SHELTER	NTC	RECR	322	1958					N	X	EBS	1/WHITE
2520	BOAT LAUNCH RAMP/PIER	NTC	RECR	UNKN	1958					N	X	EBS	1/WHITE
2531	CREDIT UNION STORAGE	NTC	MISC	640	1943		(4) UST	RMVD	UNKN	N	X	EBS	7/GREY
2533	CREDIT UNION	NTC	MISC	10,450	1943					U	X	EBS	1/WHITE
2541	ROPE YARN CLUB	NTC	RECR	1,313	1960		AST	RMVD	265	U	X	EBS	7/GREY
2605	PIER	NTC	RECR	120	1957					N		EBS	1/WHITE
2651	BASE RECYCLING CENTER	NTC	MISC	4,892	1960		UST	RMVD	300	Y	X	EBS	6/RED
2709	HOSPITAL RECORDS	NTC	MISC	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2712	CLOTHING CENTER/SEA CADETS	NTC	MISC	2,121	1943		AST	HOIL	265	Y	X	EBS	7/GREY
2713	ADMINISTRATION BUILDING	NTC	MISC	2,121	1943		AST	RMVD	265	Y	X	EBS	6/RED
2717	BEQ (DEMOLISHED 4/94)	NTC	HOUS	2,121	1943		AST	HOIL	300	Y	X	EBS	6/RED
2718	BEQ (DEMOLISHED 4/94)	NTC	HOUS	2,121	1943		AST	HOIL	265	Y	X	EBS	6/RED
2719	BEQ (DEMOLISHED 4/94)	NTC	HOUS	2,121	1943		AST	ABDN	265	Y	X	EBS	6/RED
2720	TRAINING	NTC	MISC	2,121	1943		AST	RMVD	265	Y	X	EBS	7/GREY
2723	WORKSHOP	NTC	LTID	2,121	1943	H	AST	ABDN	300	Y	X	EBS	7/GREY
2724	COMMUNITY CENTER	NTC	RECR	2,121	1943		AST	HOIL	300	Y	X	EBS	7/GREY
2815	CORRINE DR. GATE/SENTRY HOUSE	NTC	MISC	48	1944					N	X	EBS	1/WHITE

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2816	MATERIALS STORAGE BUILDING	NTC	MISC	6,340	1954		AST	ABDN	265	Y	X	EBS	7/GREY
2817/2818	RTC 1ST LIEUTENANT	NTC	LTID	6,340	1954		AST	HOIL	500	N	X	EBS	7/GREY
2820	FLAG POLE	NTC	MISC	UNKN	1942					N	X	EBS	1/WHITE
3009	PICNIC SHELTER	NTC	RECR	322	1972					N		EBS	1/WHITE
3010	PICNIC SHELTER	NTC	RECR	322	1972					N	X	EBS	1/WHITE
3011	PICNIC SHELTER	NTC	RECR	322	1972					N		EBS	1/WHITE
3013	SEWAGE PUMP STATION	NTC	UTIL	90	1943					U	X	EBS	1/WHITE
3126	CIVILIAN BEQ	NH	HOUSING	UNKN	1943					U	X	EBS	1/WHITE
3127	BIO-WASTE COLLECTION FACILITY	NH	MISC	UNKN	~1943	H, W				U	X	EBS	2/BLUE
3128	CIVILIAN BEQ	NH	HOUSING	UNKN	1943					U	X	EBS	1/WHITE
3129	CIVILIAN BEQ	NH	HOUS	2,212	1943					U	X	EBS	1/WHITE
3132	ALCOHOL REHAB DEPARTMENT BUILDING	NH	MISC	2,100	1943					U	X	EBS	1/WHITE
3133	ALCOHOL REHAB DEPARTMENT BUILDING	NH	HOUS	2,255	1943					U	X	EBS	1/WHITE
3134	ALCOHOL REHAB DEPARTMENT BUILDING	NH	HOUS	2,100	1943					U	X	EBS	1/WHITE
4001	REC SVCS EQUIP FOOTBALL FIELD	NH	MISC	192	1965	P				N	X	EBS	6/RED
4004	PAVED DRILL FIELD/RTC NORTH GRINDER	NTC	MISC	261,300	1968	W				U	X	EBS	6/RED

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4005	GRASSED DRILL FIELD/RTC NORTH PARADE FIELD	NTC	MISC	261,300	1968	W				U	X	EBS	6/RED
4021	RTC SOUTH GRINDER/PAVED DRILL FIELD	NTC	MISC	243,880	1971					U		EBS	7/GREY
4022	RTC SOUTH PARADE FIELD/GRASSED DRILL FIELD	NTC	MISC	243,880	1971					N		EBS	7/GREY
4023	MAIN ENTRANCE SIGN	NTC	MISC	UNKN	1962					N	X	EBS	1/WHITE
4026	ANCHORS OLE SIGN	NTC	MISC	UNKN	1972					N	X	EBS	1/WHITE
4034	SSC SOUTHEAST SIGNAL MOCKUP	NTC	MISC	144	1975					U	X	EBS	1/WHITE
4035	SSC NORTHEAST SIGNAL MOCKUP	NTC	MISC	144	1975					N	X	EBS	1/WHITE
4037	GARBAGE STANDS	NTC	MISC	UNKN	1975					N	X	EBS	1/WHITE
4038	SWITCHING STA	NTC	UTIL	UNKN	1975					N		EBS	2/BLUE
4039	DAM	NTC	MISC										1/WHITE
4040	SUBSTATION	NTC	UTIL	UNKN	1976					N	X	EBS	2/BLUE
4045	USS ORLANDO QM MOCKUP	NTC	MISC	484	1978					U		EBS	1/WHITE
4046	BRASS ANCHOR CLUB ANCHOR	NTC	MISC	UNKN	1977					N	X	EBS	1/WHITE
4047	MAGUIRE GATE ANCHOR	NTC	MISC	UNKN	1977					N	X	EBS	1/WHITE
4048	MAGUIRE GATE GUNS	NTC	MISC	UNKN	1977					N	X	EBS	1/WHITE
4049	CORRINE GATE GUNS	NTC	MISC	UNKN	1977					N	X	EBS	1/WHITE
4056	SIGNAL TRNG MOCKUP	NTC	MISC	UNKN	1985					U		EBS	1/WHITE
4057	SIGNAL TRNG MOCKUP	NTC	MISC	UNKN	1985					N		EBS	1/WHITE

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4059	PROPANE STORAGE TANKS	NTC	MISC	UNKN	1992		AST(2)	PROP	10,000	N		EBS	2/BBLUE
4060	LOADING PLATFORM BUILDING 137	NTC	MISC	UNKN	1959					N		EBS	7/GREY
4062	LOADING PLATFORM BUILDING 1060	AREA C	MISC	UNKN	1946					N		EBS	1/WHITE
4067	LOADING PLATFORM, BUILDING 137	NTC	MISC	UNKN	1959					N		EBS	7/GREY
4122	FF SCHOOL TRNG BUILDING	NTC	MISC	UNKN	1955		UST	WOIL	80	U		EBS	7/GREY
4136	RETENTION POND BUILDING 136	NTC	MISC	9,900	1986					N		EBS	1/WHITE
4203		NTC	MISC										1/WHITE
6000	ELECTRIC SUBSTATION (BUILDING 602)	HERNDON	UTIL	UNKN	1970					U	X	EBS	7/GREY
6001	SEPTIC TANK/DRAIN FIELD B601	HERNDON	MISC	UNKN	1970					U		EBS	1/WHITE
7107	WATER PUMPING STA	MCCOY	UTIL	85	1952					N	X	EBS	7/GREY
7111	WATER PUMP STATION	MCCOY	UTIL	49	1952					U	X	EBS	1/WHITE
7114	BASEBALL FIELD #789	MCCOY	RECR	UNKN	1955					U	X	EBS	1/WHITE
7121	HQ 164TH ADA FLA ANG	MCCOY	MISC	36,348	1953		UST	HOIL	500	Y	X	EBS	6/RED
7125	BEQ AND MATERIAL STORAGE	MCCOY	HOUS	23,248	1952		AST UST	HOIL UNK	500 UNK	Y	X	EBS	7/GREY
7126	STORAGE BUILDING	MCCOY	MISC	540	1988					U		EBS	1/WHITE
7140	CHLORO STATION	MCCOY	UTIL	18	1991	H				U		EBS	2/BBLUE
7141	CHLORO STATION (AMMONS AVE)	MCCOY	UTIL	18	1991	H				U		EBS	2/BBLUE
7149	WATER DIST BUILDING	MCCOY	UNDV	42	1952					N	X	EBS	1/WHITE

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7150	PKG STORE	MCCOY	COMM	5,320	1960	H				N	X	EBS	2/BLUE
7151	MAIN COMMISSARY	MCCOY	COMM	84,587	1952	H	UST(2)	DIES HOIL	500 550	Y	X	EBS	7/GREY
7153	EXCHANGE WAREHOUSE	MCCOY	MISC	95,284	1952		UST	HOIL	550	Y	X	EBS	7/GREY
7154A	PEDESTRIAN BRIDGE	MCCOY	MISC	255	1953					U	X	EBS	1/WHITE
7154B	PEDESTRIAN BRIDGE	MCCOY	MISC	160	1953					U	X	EBS	1/WHITE
7158	SOFTBALL FIELD #6	MCCOY	RECR	UNKN	1955					U		EBS	1/WHITE
7159	SUBSTATION	MCCOY	UTIL	UNKN	1993					U		EBS	2/BLUE
7168	MAINTENANCE YARD	MCCOY	LTID	2,700	1966					U	X	EBS	7/GREY
7169	ARMY TIRE STORAGE	MCCOY	LTID	800	1960	H				N	X	EBS	2/BLUE
7170	ARMY TIRE REPAIR SHOP	MCCOY	LTID	500	1952					U	X	EBS	1/WHITE
7171	ARMY MOTOR TRANSPORTATION	MCCOY	LTID	20,471	1952	H	UST	HOIL	5,000	Y	X	EBS	7/GREY
7172	ARMY BATTERY SHOP	MCCOY	LTID	2,520	1952	H				Y	X	EBS	6/RED
7174	KWIK SHOP GAS STATION	MCCOY	COMM	3,017	1961	H	UST(11)	ABDN ABDN ABDN ABDN ABDN UNLD UNLD UNLD DIES WOIL	UNKNOWN 3,000 5,000 5,000 5,000 5,000 10,000 10,000 10,000 10,000 1,000	Y	X	EBS	5/YELLOW
7175	FORMER GOVERNMENT SERVICE STATION	MCCOY	COMM	UNKN	1952		AST UST UST UST	RMVD LEAD RMVD	7,800 7,800 1,000			EBS	7/GREY

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7177	STORAGE	MCCOY	MISC	3,312	1965					U	X	EBS	1/WHITE
7178	TRAINING MATERIAL STORAGE	MCCOY	MISC	3,312	1965	H	AST AST UST	LEAD RMVD UNKN	500 110 UNKN	Y	X	EBS	7/GREY
7179	HOUSING STORAGE	MCCOY	MISC	100	1986	H				N		EBS	7/GREY
7180	LIBRARY	MCCOY	MISC	7,582	1952		UST	HOIL	1,000	Y	X	EBS	7/GREY
7181	SEWAGE PUMP STATION	MCCOY	UTIL	360	1952		AST	PROP	250	U	X	EBS	2/BBLUE
7182	HOUSING OFFICE	MCCOY	MISC	14,450	1952	H	UST	HOIL	1,000	Y	X	EBS	7/GREY
7183	WAREHOUSE	MCCOY	MISC	15,500	1952	H				Y	X	EBS	2/BBLUE
7184	AUTOMOTIVE HOBBY SHOP	MCCOY	MISC	9,100	1965	W	UST  UST AST AST	WOIL  DEIS WOIL HOIL	750  5,000 300 500	Y	X	EBS	7/GREY
7185	ANNEX FIRE STATION	MCCOY	MISC	1,085	1959		UST AST AST	ABDN PROP RMVD	1,000 300 300	Y	X	EBS	7/GREY
7186	CIVIL AIR PATROL	MCCOY	MISC	5,064	1952		UST	ABDN	550	Y	X	EBS	6/RED
7187	STORAGE	MCCOY	MISC	9,100	1952	P	UST	ABDN	550	Y	X	EBS	7/GREY
7188	COMMUNITY STORAGE	MCCOY	MISC	6,251	1955	H				Y	X	EBS	2/BBLUE
7189	MEDICAL RECORDS STORAGE	MCCOY	MISC	1,881	1952					N	X	EBS	1/WHITE
7190	MAINTENANCE OFFICE	MCCOY	LTID	3,000	1952	H	UST	RMVD	550	Y	X	EBS	7/GREY
7191	INERT STORAGE WAREHOUSE	MCCOY	LTID	3,072	1955	H	UST	ABDN	110	Y	X	EBS	6/RED
7193	GENERAL WAREHOUSE	MCCOY	MISC	3,320	1959	H				Y	X	EBS	7/GREY
7195	PEST CONTROL SHOP	MCCOY	LTID	1,200	1988	P						EBS	7/GREY

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7201	MEDICAL CLINIC	MCCOY	MISC	7,584	1952	M	UST AST	ABDN DIES	550 550	U	X	EBS	7/GREY
7202	YOUTH CENTER	MCCOY	MISC	4,444	1952		UST	HOIL	550	Y	X	EBS	7/GREY
7203	MAINTENANCE SHOP	MCCOY	LTID	3,200	1955	H	UST AST	HOIL DIES	500 275	N	X	EBS	YELLOW
7210	NAVY LODGE	MCCOY	HOUS	1,647	1952		UST	HOIL	500	Y	X	EBS	7/GREY
7211	NAVY LODGE	MCCOY	HOUS	2,481	1952		UST(2)	HOIL	500	Y	X	EBS	7/GREY
7212	NAVY LODGE	MCCOY	HOUS	2,695	1952		UST(2)	HOIL	500	Y	X	EBS	6/RED
7223	SOFTBALL FIELD	MCCOY	RECR	UNKN	1974					N		EBS	1/WHITE
7224	COMMUNITY STORAGE	MCCOY	RECR	2,984	1954		UST	HOIL	500	N	X	EBS	7/GREY
7230	ADMINISTRATIVE OFFICE	MCCOY	MISC	11,734	1952		AST(2)	RMVD	UNKN	Y	X	EBS	7/GREY
7231	ARMY BEQ	MCCOY	HOUS	11,734	1952		AST(2)	RMVD	UNKN	Y	X	EBS	7/GREY
7232	ARMY BEQ	MCCOY	HOUS	11,734	1952	AST (2)	RMVD	UKN		Y	X	EBS	7/GREY
7234	MARINE RECRUIT CENTER	MCCOY	MISC	5,622	1954		UST	HOIL	500	N	X	EBS	7/GREY
7236	BOWLING ALLEY	MCCOY	RECR	10,279	1968					N	X	EBS	1/WHITE
7238	TENNIS COURTS	MCCOY	RECR	UNKN	1955					N		EBS	1/WHITE
7239	OCEANS 24 CLUB	MCCOY	RECR	17,873	1957		UST AST	HOIL HOIL	2,000 550	Y	X	EBS	7/GREY
7240	FORMER BANK	MCCOY	MISC	1,460	1955		UST AST	ABDN ABDN	1,000 300	Y	X	EBS	7/GREY
7241	ROLLER RINK	MCCOY	RECR	19,761	1953		UST UST AST	HOIL HOIL HOIL	1,500 100 250	Y	X	EBS	7/GREY

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7242	RELIGIOUS EDUCATION BUILDING	MCCOY	MISC	9,059	1956		UST	HOIL	2,000	Y	X	EBS	7/GREY
7244	CAFETERIA/COUNTRY STORE	MCCOY	COMM	10,795	1955		UST UST	UNKN HOIL	1,250	Y	X	EBS	7/GREY
7245	SWIMMING POOL	MCCOY	RECR	UNKN	1956	H				U		EBS	2/BLUE
7246	BATH HOUSE	MCCOY	RECR	4,519	1956	H	UST	ABDN	750	Y	X	EBS	7/GREY
7247	GYMNASIUM	MCCOY	RECR	16,828	1956	W	UST	HOIL	2,000	Y	X	EBS	6/RED
7249	EXCHANGE SERVICE	MCCOY	COMM	1,800	1954		UST	RMVD	110	N	X	EBS	7/GREY
7253	NEX RETAIL STORE	MCCOY	COMM	14,537	1953		UST	DIESEL	10,000	Y	X	EBS	7/GREY
7256	PEDESTRIAN BRIDGE	MCCOY	MISC	1,600	1953					U	X	EBS	7/GREY
7257	POLICE STATION	MCCOY	MISC	1,984	1954		AST	RMVD	UNKN	N	X	EBS	7/GREY
7260	SEWAGE PUMP STATION	MCCOY	UTIL	UNKN	1960					U	X	EBS	2/BLUE
7262	KWIK SHOP	MCCOY	COMM	4,091	1964					N	X	EBS	2/BLUE
7264	CHILD CARE CENTER	MCCOY	MISC	7,790	1967		UST	HOIL	550	Y	X	EBS	7/GREY
7266	COMMUNITY STORAGE	MCCOY	MISC	1,584	1980					N		EBS	1/WHITE
7267	BASEBALL FIELDS	MCCOY	RECR	UNKN	1980					U		EBS	1/WHITE
7351	CAMP BATHHOUSE	MCCOY	RECR	374	1966	H	AST	PROP	250	Y	X	EBS	7/GREY
7352	CAMP LAUNDRY	MCCOY	RECR	536	1980	H	AST	PROP	1000	Y		EBS	7/GREY
7353	GOLF CLUB HOUSE	MCCOY	RECR	2,915	1982					U		EBS	7/GREY
7354	GREENSKEEPERS STORAGE	MCCOY	RECR	1,680	1982					U		EBS	7/GREY
7355	9 HOLE ANNEX GOLF COURSE	MCCOY		UNKN	1982	W				Y		EBS	6/RED
7356	LAWN EQUIPMENT STORAGE	MCCOY	RECR	640	1983	H,P	AST AST	UNLD HOIL	UNKN 250	U		EBS	6/RED
7357	FAMILY CAMP OFFICE	MCCOY	RECR	240	1983	H	AST	PROP	500	N		EBS	2/BLUE
7358	FAMILY CAMP	MCCOY	RECR	UNKN	1983					U		EBS	7/GREY

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7700	SEWAGE PUMP STATION	MCCOY	UTIL	UNKN	1975					N	X	EBS	7/GREY
7701	MAIL SHELTER MARINER'S COURT	MCCOY	MISC	35	1975					U	X	EBS	1/WHITE
7702	MAIL SHELTER DAVY JONES CT	MCCOY	HOUS	35	1975					U	X	EBS	7/GREY
7703	MAIL SHELTER BRINEY DEEP	MCCOY	HOUS	35	1975					U	X	EBS	7/GREY
7704	MAIL SHELTER ATLANTIS CT	MCCOY	HOUS	35	1975					U	X	EBS	7/GREY
7705	MAIL SHELTER POSEIDON CT	MCCOY	HOUS	35	1975					U	X	EBS	7/GREY
7706	MAIL SHELTER NAUTILUS CT	MCCOY	HOUS	35	1975					U	X	EBS	7/GREY
7707	MAIL SHELTER MERMAID CT	MCCOY	HOUS	35	1975					U	X	EBS	7/GREY
7708	MAIL BOX SHELTER FATHOM CT	MCCOY	HOUS	35	1975					U	X	EBS	7/GREY
7709	MAIL BOX SHELTER KING NEPTUNE	MCCOY	HOUS	35	1975					U	X	EBS	7/GREY
11012	RECREATION BOAT DOCK	NTC	RECR	UNKN	1968					N		EBS	1/WHITE
11015	RECREATION BOAT DOCK	NTC	RECR	UNKN	1971					N	X	EBS	1/WHITE
11016	RECREATION BOAT DOCK	NTC	RECR	UNKN	1971					N		EBS	1/WHITE
11017	RECREATION BOAT DOCK	NTC	RECR	UNKN	1971					N	X	EBS	1/WHITE
11023	PIER	NTC	RECR	UNKN	1975					N	X	EBS	1/WHITE
11024	PIER	NTC	RECR	UNKN	1977					N		EBS	1/WHITE

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11026	PIER	NTC	RECR	UNKN	UNKN					N		EBS	1/WHITE
15104	IRRIGATION WELL	NTC	MISC	UNKN	UNKN					N		EBS	1/WHITE
15105	IRRIGATION WELL	NTC	MISC	UNKN	UNKN					N		EBS	1/WHITE
15106	IRRIGATION WELL	NTC	MISC	UNKN	UNKN					N		EBS	1/WHITE
15107	IRRIGATION WELL	NTC	MISC	UNKN	UNKN					N		EBS	1/WHITE
15108	IRRIGATION WELL	NTC	MISC	UNKN	UNKN					N		EBS	BLUE
15109	IRRIGATION WELL	NTC	MISC	UNKN	UNKN					N		EBS	GREY
15110	WATER STORAGE TANK	NTC	MISC	UNKN	1991					N		EBS	1/WHITE
21001A	TENNIS COURTS	NTC	RECR	UNKN	1973					N		EBS	2/BLUE
21001B	TENNIS COURTS	NTC	RECR	UNKN	1981					N		EBS	1/WHITE
21001C	TENNIS COURTS	NTC	RECR	UNKN	~1984					N		EBS	1/WHITE
21003A	HAND BALL COURTS	NTC	RECR	UNKN	1970's					N		EBS	1/WHITE
21003B	HAND BALL COURTS	NTC	RECR	~3,200	1980's					N		EBS	1/WHITE
21005A	BASKETBALL COURTS	NTC	RECR	~3,000	1980's					N		EBS	1/WHITE
21005B	VOLLEYBALL COURTS	NTC	RECR	UNKN	UNKN					N		EBS	1/WHITE
21008A	TENNIS COURTS	NTC	RECR	UNKN	UNKN					N		EBS	2/BLUE
21008B	TENNIS COURTS	NTC	RECR	UNKN	UNKN					N		EBS	1/WHITE
21010	JOGGING TRACK	NTC	RECR	UNKN	1978					N		EBS	1/WHITE
21011	VOLLEYBALL COURTS	NTC	RECR	UNKN	1980's					N		EBS	1/WHITE
21012	BASKETBALL COURTS	NTC	RECR	3,200	~1981					N		EBS	1/WHITE
21022	SOFTBALL FIELD	NTC	RECR	UNKN	1943					N		EBS	7/GREY
21023	SOFTBALL FIELD	NTC	RECR	UNKN	1943					N		EBS	7/GREY
21028	SOFTBALL FIELD	NTC	RECR	UNKN	1970's					N		EBS	1/WHITE
21039	GOLF COURSE	NTC	RECR	UNKN	1962	W				N		EBS	7/GREY

## FACILITY MATRIX

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

FACILITY I.D. NO.	FACILITY DESCRIPTION	FACILITY LOCATION	FACILITY TYPE	SQUARE FOOTAGE	YEAR CONSTR.	HAZ SUB	STORAGE TANK TYPE	TANK CONTENT	TANK CAPACITY <sup>1</sup>	ACM	LEAD IN PAINT	INSP. TYPE	PROPERTY CATEGORY
21039-UD1	GROUNDS MAINTENANCE STORAGE SHED	NTC	LTID	1,000	1970's	H				U		EBS	2/BLUE
21041	SWIMMING POOL	NTC	RECR	UNKN	1964					U	X	EBS	1/WHITE
21044	VOLLEYBALL COURTS	NTC	RECR	UNKN	1993					N		EBS	1/WHITE
21045	BASKETBALL COURTS	NTC	RECR	UNKN	1992					N		EBS	1/WHITE
21046	SOFTBALL FIELD	NTC	RECR	UNKN	1988					N		EBS	1/WHITE
71071	PLAYGROUNDS	MCCOY	RECR	UNKN	1979					N		EBS	1/WHITE
71076	BASKETBALL COURTS AND HANDBALL	MCCOY	RECR	UNKN	UNKN					N		EBS	1/WHITE
71080/7149	PLAYGROUND/WATER DISTRIBUTION SHED	MCCOY	RECR	UNKN	1979					N		EBS	1/WHITE
71146	RAILROAD LINE	MCCOY	UTIL	UNKN	UNKN					U		EBS	1/WHITE
72008	FAMILY HOUSING	MCCOY	HOUS	2,091	1961					U	X	EBS	7/GREY
72014	FAMILY HOUSING	MCCOY	HOUS	2,091	1961					U	X	EBS	7/GREY
72022	FAMILY HOUSING	MCCOY	HOUS	2,091	1961					U	X	EBS	7/GREY
72024	FAMILY HOUSING	MCCOY	HOUS	2,091	1961					U	X	EBS	7/GREY
72026	FAMILY HOUSING	MCCOY	HOUS	3,393	1961					U	X	EBS	7/GREY
72033	FAMILY HOUSING	MCCOY	HOUS	3,412	1961					U	X	EBS	7/GREY
72038	FAMILY HOUSING	MCCOY	HOUS	3,025	1961					U	X	EBS	7/GREY
72045	FAMILY HOUSING	MCCOY	HOUS	1,700	1961					U	X	EBS	7/GREY
72063	FAMILY HOUSING	MCCOY	HOUS	3,025	1961					U	X	EBS	7/GREY
72065	FAMILY HOUSING	MCCOY	HOUS	3,025	1961					U	X	EBS	7/GREY
72068	FAMILY HOUSING	MCCOY	HOUS	2,091	1961					U	X	EBS	2/BLUE
72070-72091	FAMILY HOUSING	MCCOY	HOUS									EBS	7/GREY
72116	FAMILY HOUSING	MCCOY	HOUS	3,393	1961					U	X	EBS	7/GREY

## FACILITY MATRIX

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

FACILITY I.D. NO.	FACILITY DESCRIPTION	FACILITY LOCATION	FACILITY TYPE	SQUARE FOOTAGE	YEAR CONSTR.	HAZ SUB	STORAGE TANK TYPE	TANK CONTENT	TANK CAPACITY <sup>1</sup>	ACM	LEAD IN PAINT	INSP. TYPE	PROPERTY CATEGORY
72127	FAMILY HOUSING	MCCOY	HOUS	3,042	1961					U	X	EBS	7/GREY
72140	FAMILY HOUSING	MCCOY	HOUS	3,025	1961					U	X	EBS	7/GREY
72154	FAMILY HOUSING	MCCOY	HOUS	3,042	1961					U	X	EBS	2/BLUE
72159	FAMILY HOUSING	MCCOY	HOUS	3,042	1961					U	X	EBS	7/GREY
72173	FAMILY HOUSING	MCCOY	HOUS	3,025	1961					U	X	EBS	7/GREY
72176	FAMILY HOUSING	MCCOY	HOUS	3,025	1961					U	X	EBS	7/GREY
72181	FAMILY HOUSING	MCCOY	HOUS	3,025	1961					U	X	EBS	7/GREY
72195	FAMILY HOUSING	MCCOY	HOUS	3,042	1961					U	X	EBS	7/GREY
72308	FAMILY HOUSING	MCCOY	HOUS	2,643	1961					U	X	EBS	7/GREY
72317	FAMILY HOUSING	MCCOY	HOUS	2,852	1961					U	X	EBS	7/GREY
72345	FAMILY HOUSING	MCCOY	HOUS	2,643	1961					U	X	EBS	7/GREY
72353	FAMILY HOUSING	MCCOY	HOUS	2,643	1961					U	X	EBS	7/GREY
72374	FAMILY HOUSING	MCCOY	HOUS	2,643	1961					U	X	EBS	7/GREY
72395	FAMILY HOUSING	MCCOY	HOUS	2,643	1961					U	X	EBS	7/GREY
72398	FAMILY HOUSING	MCCOY	HOUS	2,643	1961					U	X	EBS	7/GREY
72401	FAMILY HOUSING	MCCOY	HOUS	2,643	1961					U	X	EBS	7/GREY
72413	FAMILY HOUSING	MCCOY	HOUS	2,643	1961					U	X	EBS	7/GREY
72416	FAMILY HOUSING	MCCOY	HOUS	2,643	1961					U		EBS	7/GREY
72440	3175 ARNOLD PLACE	MCCOY	HOUS	3,060	1961					U		EBS	7/GREY
72441	FAMILY HOUSING	MCCOY	HOUS	2,852	1961					U	X	EBS	7/GREY
HERN	HERNDON ANNEX LANDFILL	HERNDON										EBS	7/GREY
FORM	FORMER YARD WASTE DISPOSAL	NTC										EBS	1/WHITE
L.BALD	LAKE BALDWIN	NTC	RECR	196 Acres	NA					N		EBS	7/GREY
L.SUSAN/ 4039	LAKE SUSANNAH	NTC	RECR	75 Acres	NA					N		EBS	1/WHITE

### FACILITY MATRIX

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

FACILITY I.D. NO.	FACILITY DESCRIPTION	FACILITY LOCATION	FACILITY TYPE	SQUARE FOOTAGE	YEAR CONSTR.	HAZ SUB	STORAGE TANK TYPE	TANK CONTENT	TANK CAPACITY <sup>1</sup>	ACM	LEAD IN PAINT	INSP. TYPE	PROPERTY CATEGORY
MCDLD	MCDONALD'S	NTC	COMM	7,150	1986					N		EBS	1/WHITE
SPRINT	SPRINT BUILDING	NTC	UTIL	UNKN	1970	H	AST	DEIS	75	U	X	EBS	7/GREY
WWTP	WASTEWATER TREATMENT PLANT	MCCOY	MISC									EBS	7/GREY
UNF1	OLD GOLF COURSE	MCCOY	MISC	30 Acres	UNKN	W				N		EBS	7/GREY
UNF2	OLD FOOTBALL FIELD	MCCOY	MISC	7 Acres	UNKN		UST	UNKN	UNKN	U		EBS	7/GREY
UNF3	MAIN BASE SUBSTATION	NTC	UTIL	UNKN	~1962					N		EBS	2/BLUE
UNF4	NORTHWEST SWAMP	MCCOY	MISC	25 Acres	NA					U	X	EBS	7/GREY
UNF5	SOUTHEAST SWAMP	MCCOY	UNDV	38 Acres	NA					U	X	EBS	7/GREY
UNF6	LANDFILL	NTC	MISC	~ 7 Acres	1940's	W				U		EBS	6/RED
UNF7	SOCCER FIELD	MCCOY	RECR	~2 Acres	UNKN					N		EBS	1/WHITE
UNF8	OPEN AREA	NTC	MISC	~9 Acres	NA					N		EBS	GREY
UNF9	SOFTBALL FIELD	NTC	RECR	UNKN	1989					N		EBS	1/WHITE
UNF10	OPEN AREA WEST OF NUCLEAR SCHOOL	NTC	MISC	UNKN	NA	H				N		EBS	7/GREY
UNF11	OPEN AREA SOUTH OF BEACH BLVD	NTC	RECR	34,000	1943					N		EBS	1/WHITE
UNF12	HOSPITAL LANDFILL	NTC	MISC	UNKN	1980'S	W				U		EBS	1/WHITE
UNF13	SEPTIC TANK/LEACHFIELD	NTC	MISC	2 Acres	NA					N		EBS	2/BLUE
UNF14	FORMER PESTICIDE/HERBICIDE STORAGE BUILDING	NTC	MISC	480	1950's	H,P				N		EBS	7/GREY
UNF15	OLD WASTEWATER TREATMENT PLANT	NTC	MISC	UNKN	NA					N		EBS	3/LIGHT GREEN
UNF16	CONTRACTORS AREA	NTC	MISC	UNKN	UNKN		(2)AST	UNKN	UNKN	U		EBS	7/GREY

## FACILITY MATRIX

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

FACILITY I.D. NO.	FACILITY DESCRIPTION	FACILITY LOCATION	FACILITY TYPE	SQUARE FOOTAGE	YEAR CONSTR.	HAZ SUB	STORAGE TANK TYPE	TANK CONTENT	TANK CAPACITY <sup>1</sup>	ACM	LEAD IN PAINT	INSP. TYPE	PROPERTY CATEGORY
UNF17	COLLISION AVOIDANCE TRAINING SCHOOL	HERNDON	MISC	UNKN	UNKN	H	AST	UNLD	500	U		EBS	7/GREY

<sup>1</sup> Capacity is in gallons unless otherwise noted.

**KEY:**

FACILITY LOCATION

NTC: Naval Training Center Main Base  
MCCOY: McCoy Annex  
HERNDON: Herndon Annex  
AREA C: Area "C"

FACILITY TYPE

UTIL: Utilities  
UNDV: Undeveloped  
AGRI: Agricultural  
LTID: Light Industry  
RECR: Recreation  
HOUS: Housing  
COMM: Commercial  
HYID: Heavy industry  
MISC: Miscellaneous

YEAR CONSTRUCTED

- : facility was constructed in approximately this year  
< : facility was constructed prior to or during this year  
> : facility was constructed after or during this year

HAZARDOUS SUBSTANCES

H: facility has been used as hazardous materials storage area  
M: facility has generated medical/biohazardous waste  
W: facility has been used as hazardous waste storage area  
P: facility has been used as pesticide storage area

MATRIX PARAMETER DEFINITIONS

ACM: Y - asbestos was identified in surveys or asbestos register  
N - no suspect material was identified  
U - unknown if asbestos is present

LEAD: X - facility was constructed prior to or during 1978 and may contain lead-based paint

INSPECTION TYPE

EBS: Environmental Baseline Survey

STORAGE TANK CONTENT

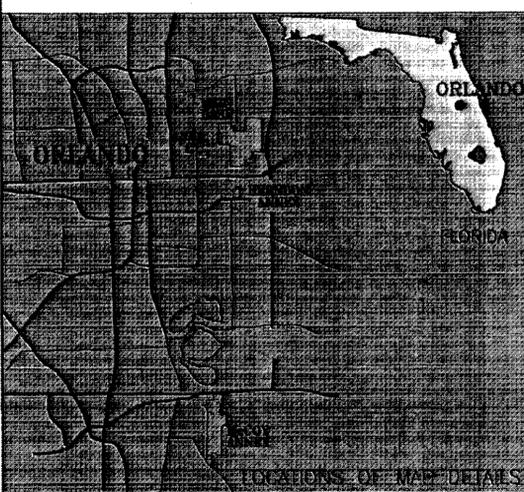
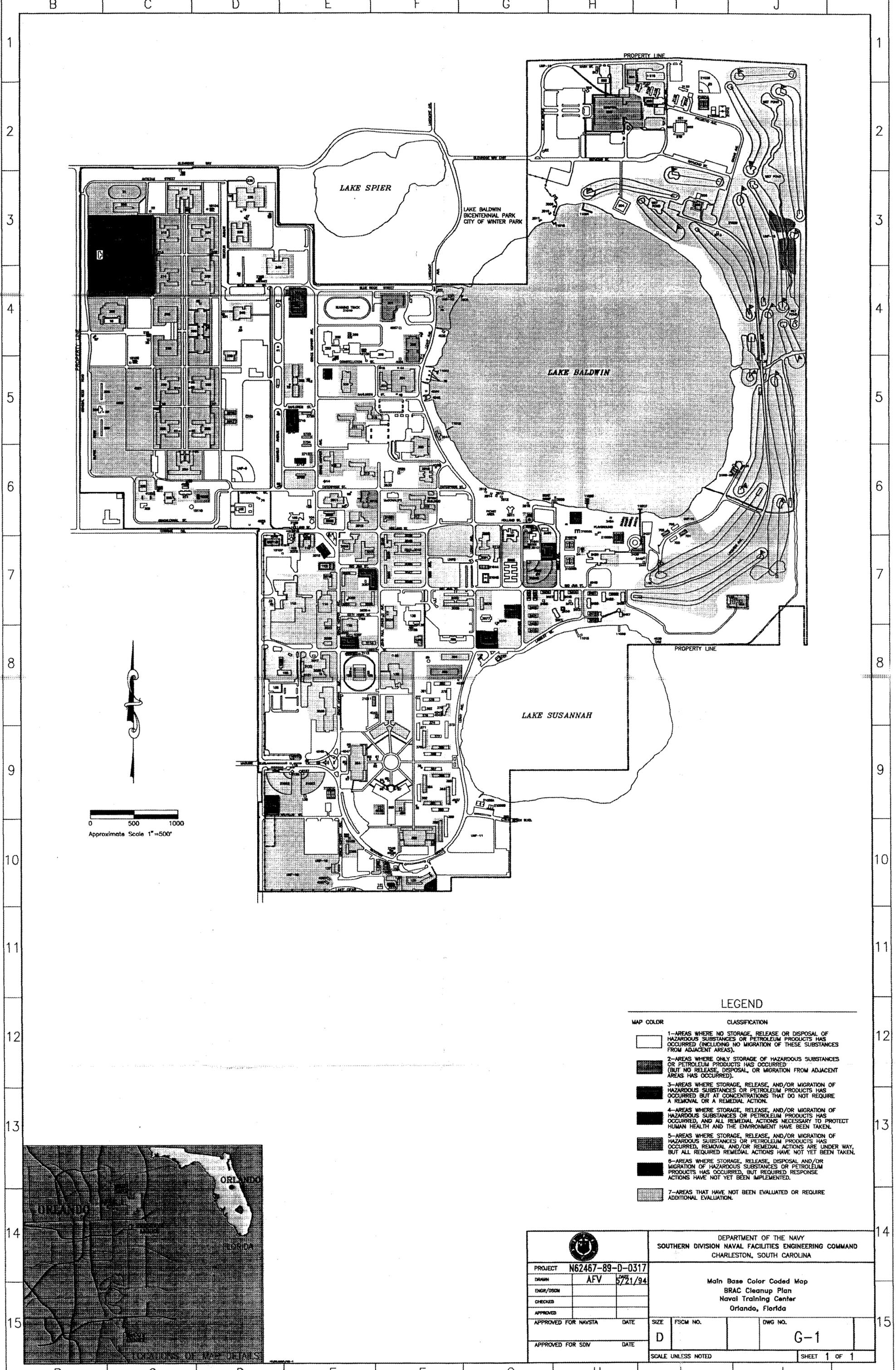
AST: aboveground storage tank  
UST: underground storage tank

TANK CONTENT

UNLD: unleaded gasoline  
LEAD: leaded gasoline  
DIES: diesel fuel  
WOIL: waste oil  
HOIL: heating oil  
MOIL: motor oil (used)  
NMO: new motor oil  
MIXT: mixing tank  
PROP: propane  
GLYC: glycerol  
LOIL: lube oil  
GASO: gasohol  
CWW: corrosive waste water  
RMVD: tank removed  
ABDN: tank abandoned in place  
UNKN: tank content unknown  
MISC: miscellaneous

**APPENDIX G**

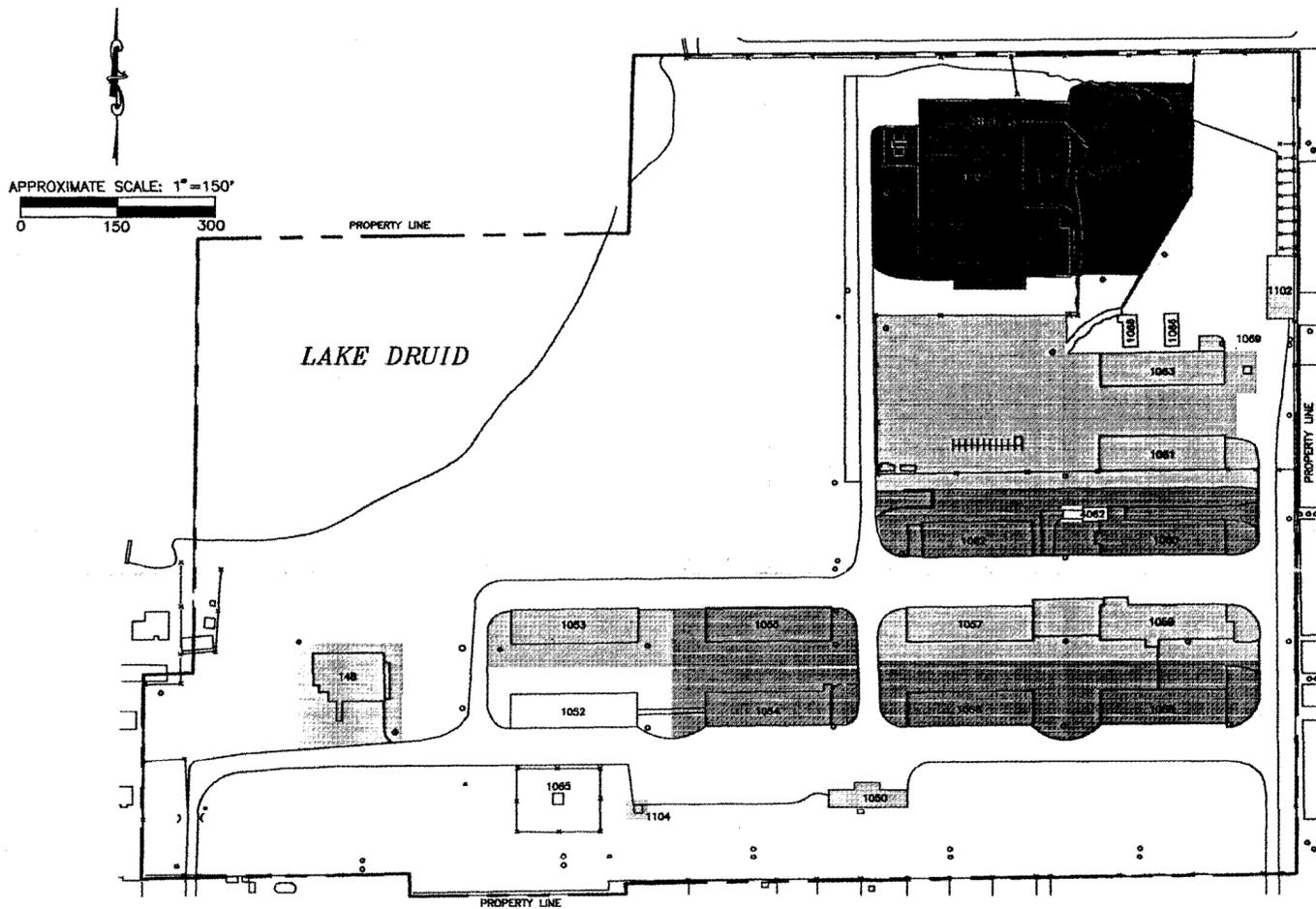
**ENVIRONMENTAL CONDITION OF PROPERTY MAPS**



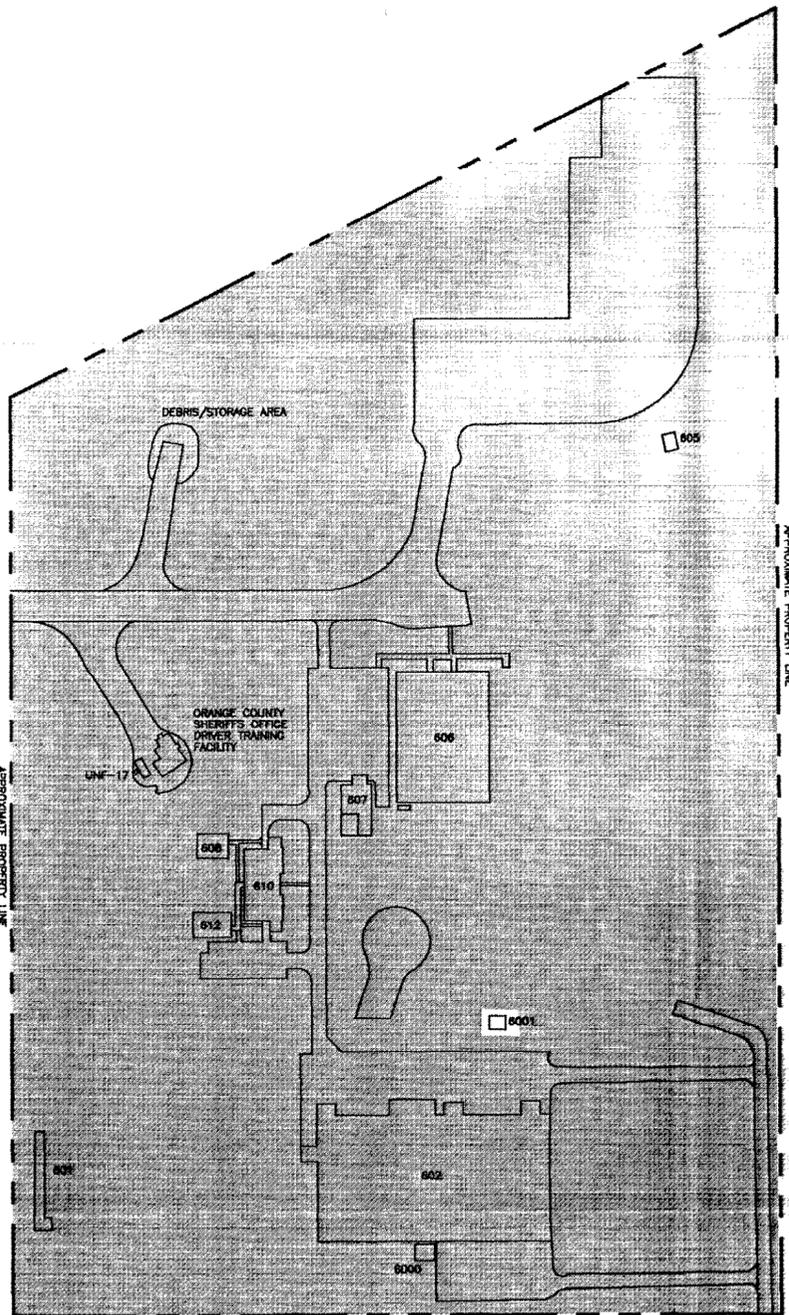
**LEGEND**

MAP COLOR	CLASSIFICATION
[White box]	1-AREAS WHERE NO STORAGE, RELEASE OR DISPOSAL OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED (INCLUDING NO MIGRATION OF THESE SUBSTANCES FROM ADJACENT AREAS).
[Light gray box]	2-AREAS WHERE ONLY STORAGE OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED (BUT NO RELEASE, DISPOSAL, OR MIGRATION FROM ADJACENT AREAS HAS OCCURRED).
[Medium gray box]	3-AREAS WHERE STORAGE, RELEASE, AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED BUT AT CONCENTRATIONS THAT DO NOT REQUIRE A REMEDIAL OR A REMEDIAL ACTION.
[Dark gray box]	4-AREAS WHERE STORAGE, RELEASE, AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED, AND ALL REMEDIAL ACTIONS NECESSARY TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT HAVE BEEN TAKEN.
[Darker gray box]	5-AREAS WHERE STORAGE, RELEASE, AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED, REMOVAL AND/OR REMEDIAL ACTIONS ARE UNDER WAY, BUT ALL REQUIRED REMEDIAL ACTIONS HAVE NOT YET BEEN TAKEN.
[Darkest gray box]	6-AREAS WHERE STORAGE, RELEASE, DISPOSAL AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED, BUT REQUIRED RESPONSE ACTIONS HAVE NOT YET BEEN IMPLEMENTED.
[Stippled box]	7-AREAS THAT HAVE NOT BEEN EVALUATED OR REQUIRE ADDITIONAL EVALUATION.

 DEPARTMENT OF THE NAVY SOUTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND CHARLESTON, SOUTH CAROLINA		Main Base Color Coded Map BRAC Cleanup Plan Naval Training Center Orlando, Florida	
PROJECT	N62467-89-D-0317	SIZE	D
DRAWN	AFV	FSCM NO.	
ENGR/USCN		DWG NO.	G-1
CHECKED		SHEET 1 OF 1	
APPROVED		SCALE UNLESS NOTED	
APPROVED FOR NAVSTA	DATE		
APPROVED FOR SDIV	DATE		



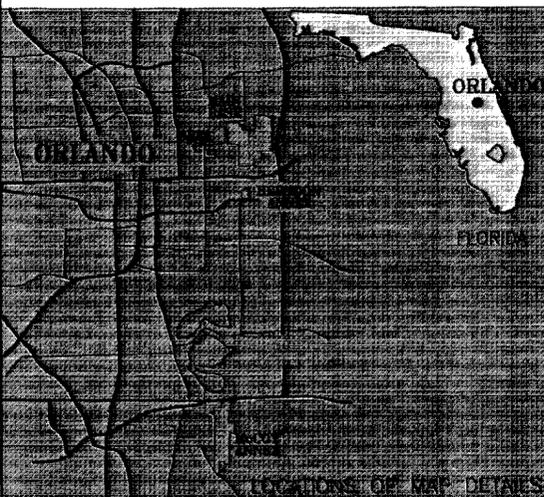
NAVAL TRAINING CENTER  
AREA "C"



NAVAL TRAINING CENTER  
HERNDON ANNEX

LEGEND

MAP COLOR	CLASSIFICATION
[White]	1-AREAS WHERE NO STORAGE, RELEASE OR DISPOSAL OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED (INCLUDING NO MIGRATION OF THESE SUBSTANCES FROM ADJACENT AREAS).
[Light Gray]	2-AREAS WHERE ONLY STORAGE OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED (BUT NO RELEASE, DISPOSAL, OR MIGRATION FROM ADJACENT AREAS HAS OCCURRED).
[Medium Gray]	3-AREAS WHERE STORAGE, RELEASE, AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED BUT AT CONCENTRATIONS THAT DO NOT REQUIRE A REMOVAL OR A REMEDIAL ACTION.
[Dark Gray]	4-AREAS WHERE STORAGE, RELEASE, AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED, AND ALL REMEDIAL ACTIONS NECESSARY TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT HAVE BEEN TAKEN.
[Black]	5-AREAS WHERE STORAGE, RELEASE, AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED, REMOVAL AND/OR REMEDIAL ACTIONS ARE UNDER WAY, BUT ALL REQUIRED REMEDIAL ACTIONS HAVE NOT YET BEEN TAKEN.
[Dark Gray]	6-AREAS WHERE STORAGE, RELEASE, DISPOSAL AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED, BUT REQUIRED RESPONSE ACTIONS HAVE NOT YET BEEN IMPLEMENTED.
[Light Gray]	7-AREAS THAT HAVE NOT BEEN EVALUATED OR REQUIRE ADDITIONAL EVALUATION.



		DEPARTMENT OF THE NAVY SOUTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND CHARLESTON, SOUTH CAROLINA		
		Area "C" & Herndon Annex Color Coded Map BRAC Cleanup Plan Naval Training Center Orlando, Florida		
PROJECT	N62467-89-D-0317	SIZE	FSCM NO.	DWG NO.
DRAWN	DRM	DATE		G-2
ENGR/USNM	5/17/94			
CHECKED				
APPROVED				
APPROVED FOR NAVSTA	DATE			
APPROVED FOR SDV	DATE			
SCALE UNLESS NOTED				SHEET 1 OF 1

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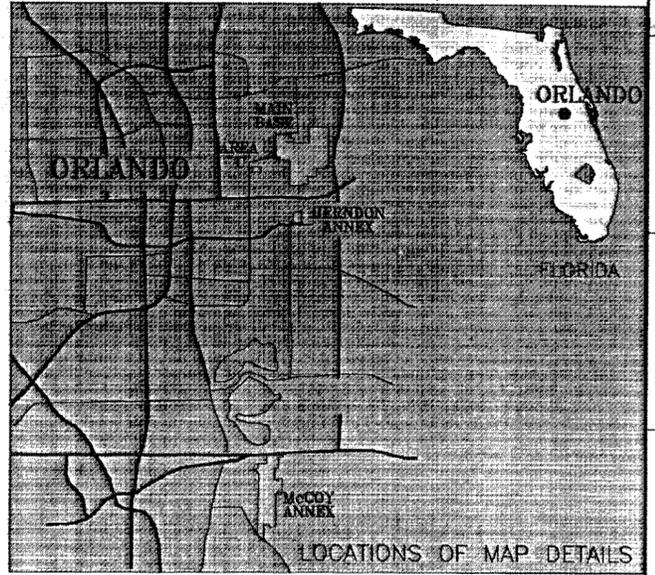
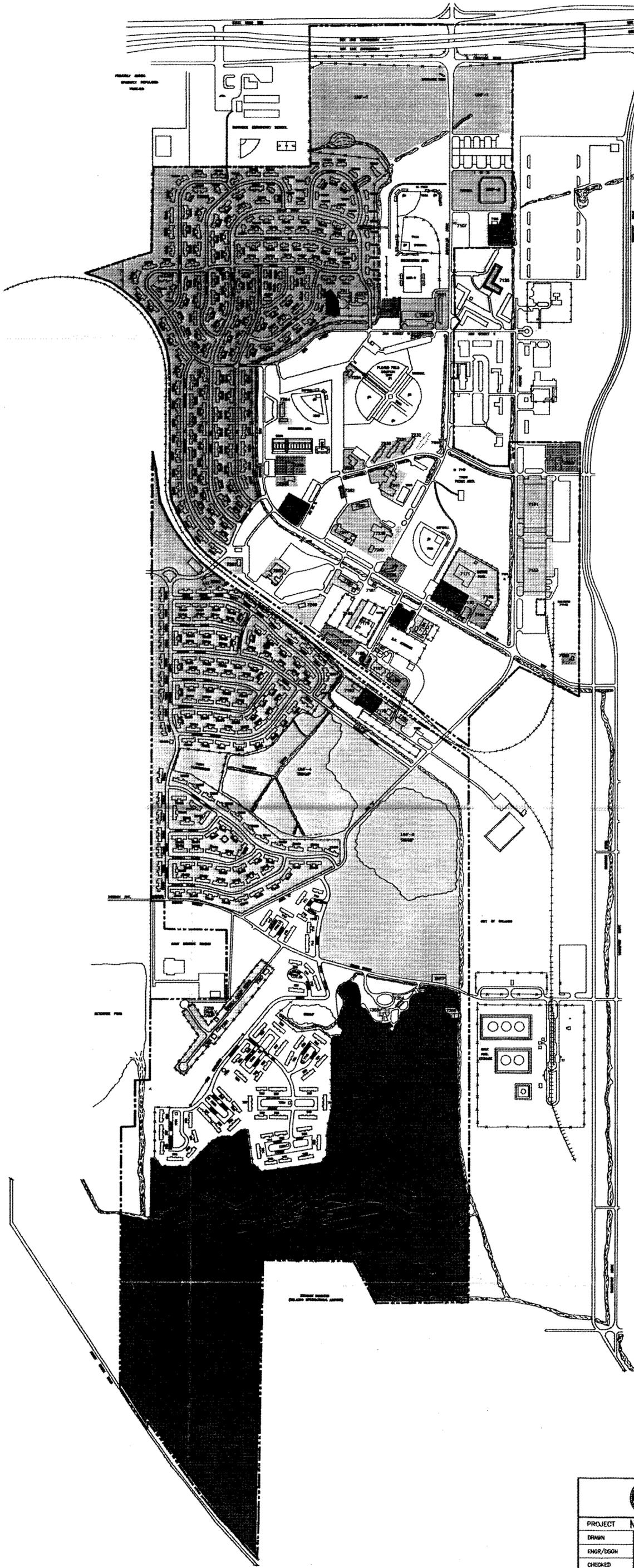
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SCALE IN FEET  
 0 500 1000  
 APPROXIMATE SCALE: 1"=500'

LEGEND

MAP COLOR	CLASSIFICATION
	1-AREAS WHERE NO STORAGE, RELEASE OR DISPOSAL OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED (INCLUDING NO MIGRATION OF THESE SUBSTANCES FROM ADJACENT AREAS).
	2-AREAS WHERE ONLY STORAGE OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED (BUT NO RELEASE, DISPOSAL, OR MIGRATION FROM ADJACENT AREAS HAS OCCURRED).
	3-AREAS WHERE STORAGE, RELEASE, AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED BUT AT CONCENTRATIONS THAT DO NOT REQUIRE A REMOVAL OR A REMEDIAL ACTION.
	4-AREAS WHERE STORAGE, RELEASE, AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED, AND ALL REMEDIAL ACTIONS NECESSARY TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT HAVE BEEN TAKEN.
	5-AREAS WHERE STORAGE, RELEASE, AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED, REMOVAL AND/OR REMEDIAL ACTIONS ARE UNDER WAY, BUT ALL REQUIRED REMEDIAL ACTIONS HAVE NOT YET BEEN TAKEN.
	6-AREAS WHERE STORAGE, RELEASE, DISPOSAL AND/OR MIGRATION OF HAZARDOUS SUBSTANCES OR PETROLEUM PRODUCTS HAS OCCURRED, BUT REQUIRED RESPONSE ACTIONS HAVE NOT YET BEEN IMPLEMENTED.
	7-AREAS THAT HAVE NOT BEEN EVALUATED OR REQUIRE ADDITIONAL EVALUATION.
	PROPERTY LINE

		DEPARTMENT OF THE NAVY SOUTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND CHARLESTON, SOUTH CAROLINA			
		McCoy Annex Color Coded Map BRAC Cleanup Plan Naval Training Center Orlando, Florida			
PROJECT	N62467-89-D-0317	SIZE	FSCM NO.	DWG NO.	G-3
DRAWN	AFV	DATE			
ENGR/DSGN					
CHECKED					
APPROVED					
APPROVED FOR NAVSTA	DATE				
APPROVED FOR SDV	DATE				
		SCALE UNLESS NOTED		SHEET 1 OF 1	

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**APPENDIX H**

**TANK INVENTORY MANAGEMENT SYSTEM DATABASE**

# NAVAL TRAINING CENTER ORLANDO

## TANK REMOVAL LIST

### LEGEND

COLUMN	EXPLANATION OF COLUMN AND SYMBOLS USED								
TANK_NUM	<ul style="list-style-type: none"> <li>TANK_NUM = FACILITY NUMBER TANK SUPPORTS</li> <li>ANY LETTERS OR DASHES (-) FOLLOWED BY A NUMBER INDICATES MORE THAN ONE TANK SUPPORTING FACILITY</li> </ul>								
OCCUPANT	<ul style="list-style-type: none"> <li>OCCUPANT = ACTIVITY(S) USING FACILITY OR FUNCTION FACILITY SERVES AND PLANNED RE-USE IN PARANTHESES "()" (IF KNOWN)</li> </ul>								
CONTENTS	<ul style="list-style-type: none"> <li>CONTENTS = ITEM OR USE FOR ITEM STORED IN TANK</li> <li>SYMBOLS:                             <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">A = LEADED GASOLINE</td> <td style="width: 50%;">B = UNLEADED GASOLINE</td> </tr> <tr> <td>D = VEHICULAR DIESEL</td> <td>G = EMERGENCY GENERATOR</td> </tr> <tr> <td>L = WASTE OIL</td> <td>M = ON SITE HEATING</td> </tr> <tr> <td>? = UNKNOWN OR EMPTY</td> <td></td> </tr> </table> </li> </ul>	A = LEADED GASOLINE	B = UNLEADED GASOLINE	D = VEHICULAR DIESEL	G = EMERGENCY GENERATOR	L = WASTE OIL	M = ON SITE HEATING	? = UNKNOWN OR EMPTY	
A = LEADED GASOLINE	B = UNLEADED GASOLINE								
D = VEHICULAR DIESEL	G = EMERGENCY GENERATOR								
L = WASTE OIL	M = ON SITE HEATING								
? = UNKNOWN OR EMPTY									
INSTALLED	<ul style="list-style-type: none"> <li>INSTALLED = YEAR TANK INSTALLED</li> </ul>								
CAPACITY	<ul style="list-style-type: none"> <li>CAPACITY = NUMBER OF GALLONS TANK CAN STORE</li> </ul>								
ABOVE_UNDR	<ul style="list-style-type: none"> <li>ABOVE_UNDR = TANK ABOVE (A) OR UNDER (U) GROUND</li> </ul>								
REGULATED	<ul style="list-style-type: none"> <li>REGULATED = WHETHER OR NOT TANK REGULATED BY FEDERAL, STATE, AND LOCAL GOVERNMENT</li> <li>SYMBOLS:                             <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">T = TANK REGULATED</td> <td style="width: 50%;">F = TANK NOT REGULATED</td> </tr> </table> </li> </ul>	T = TANK REGULATED	F = TANK NOT REGULATED						
T = TANK REGULATED	F = TANK NOT REGULATED								
REMOVE	<ul style="list-style-type: none"> <li>REMOVE = WHETHER OR NOT TANK WILL BE REMOVED</li> </ul>								
ASSESS_YR	<ul style="list-style-type: none"> <li>ASSESS_YR = YEAR TANK SITE ASSESSMENT SCHEDULED</li> </ul>								
REMOVE_YR	<ul style="list-style-type: none"> <li>REMOVE_YR = YEAR TANK REMOVAL SCHEDULED</li> </ul>								
COMMENTS	<ul style="list-style-type: none"> <li>COMMENTS = EXTRA DATA ON FUTURE STATUS OF TANK</li> </ul>								

NAVAL TRAINING CENTER ORLANDO  
TANK REMOVAL LIST

TANK_NUM	OCCUPANT	CONTENTS	INSTALLED	CAPACITY	ABOVE_UNDR	REGULATED	REMOVE	ASSESS_YR	REMOVE_YR	COMMENTS
109-4	NEX SERVICE STATION	L	74	200	U	T	N	95		CATHODIC BY 98, REPLACE 2009
128	DENTAL CLINIC	G	77	280	U	T	N	95		ASSESS/?REPL BAD TNK98/CATHOD'98,REPL'09
502-A	HOSPITAL BOILER PLANT	G	81	30000	U	T	N	95		NEED TANK, CATHODIC BY 98, REPLACE 2009
502-B	HOSPITAL BOILER PLANT	G	81	30000	U	T	N	95		NEED TANK, CATHODIC BY 98, REPLACE 2009
7151	COMMISSARY (? GOAA)	G	80	500	U	T	N	95		ASSESS SITE IN '98, CATHODIC '98,REPL 09
80001	TELEPHONE SWITCH BUILDING	G	68	75	A	F	N	95		TANK NEEDED ALSO KNOWN AS BLDG. 140
218B	GALLEY #2 (? FRENCH)	G	81	300	A	F	N	95		ASSESS/?REPL IN '95, ?USE TNK 352 RENOV
310	SSC BEQ (? FUTURE CORRECTIONS DEPT.)	G	86	150	A	F	N	95		NEED TANK
311	SSC BEQ (? FUTURE CORRECTIONS DEPT.)	G	88	150	A	F	N	95		NEED TANK
313	SSC BARRACKS	G	86	150	A	F	N	95		NEED TANK
351	HEATING PLANT FOR BUILDING 350	M	75	2000	U	F	N	95		NEED FOR HOT WATER
352	GALLEY #3	M	72	15000	U	F	N	95		NEED FOR HOT WATER
354	NUCLEAR FIELD "A" SCHOOL	M	81	3000	U	F	N	95		NEED FOR HOT WATER
356	NUCLEAR POWER SCHOOL	M	76	3000	U	F	N	95		NEED FOR HOT WATER
358	NNPTC BARRACKS	M	74	3000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
361	NNPTC BARRACKS	M	74	3000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
363	NNPTC BARRACKS	M	74	3000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
364	NNPTC BARRACKS	M	74	3000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
366	NNPTC BARRACKS	M	74	3000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
369	NNPTC BARRACKS	M	75	3000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
371	NNPTC BARRACKS	M	75	3000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
375	COMBINED BACHELOR QUARTERS DEPARTMENT	M	76	5000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
384	BARRACKS	M	82	2000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
607	HEATING PLANT FOR BUILDING 606 (? GOAA)	M	73	10000	U	F	N	95		ASSESS SITE IN '95, ?REPLACE BAD TANK
2006	UNITED WAY	M	59	600	A	F	N	95		ASSESS SITE IN '97, ?REPLACE BAD TANK
2011	LEGAL, TAP/RAP, TAC, NTC 1ST LT	M	59	300	A	F	N	95		ONLY HEAT SOURCE
2018	NEX DRY CLEANERS	M	59	500	U	F	N	95		ONLY HEAT SOURCE
2020	NTC CHAPEL	M	59	265	A	F	N	95		ONLY HEAT SOURCE
2025	PUBLIC WORKS DEPARTMENT (? LRA)	M	75	500	A	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
2115	NEW MEDICAL/DENTAL CLINIC	M	58	0	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
2122	PUBLIC WORKS ROADS & GROUNDS (? LRA)	M	52	265	A	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
2434-1	BRASS ANCHOR (OFFICER'S CLUB) (? REC.)	M	43	3500	U	F	N	95		ASSESS SITE IN '95, ?REPLACE BAD TANK
2434-2	BRASS ANCHOR (OFFICER'S CLUB) (? REC.)	M	0	650	A	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
2434-3	BRASS ANCHOR (OFFICER'S CLUB) (? REC.)	M	0	650	A	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
2510	SWIMMING POOL HEAT PLANT	M	69	4000	U	F	N	95		NEED TO HEAT POOL
4053	STAND BY GENERATOR FOR DENTAL CLINIC 128	G	76	110	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
7121	FLORIDA NATIONAL GUARD	M	53	500		F	N	95		ASSESS SITE IN '95, ?REPLACE BAD TANK

NAVAL TRAINING CENTER ORLANDO  
TANK REMOVAL LIST

TANK_NUM	OCCUPANT	CONTENTS	INSTALLED	CAPACITY	ABOVE_UNDR	REGULATED	REMOVE	ASSESS_YR	REMOVE_YR	COMMENTS
7125A	BARRACKS	M	52	500	A	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
7151	COMMISSARY (? GOAA)	M	52	550	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
7171	ARMY RESERVE MOTOR POOL (? GOAA)	M	52	5000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
7180	LIBRARY/CREDIT UNION (? GOAA)	M	52	1000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
7182	HOUSING ADMINISTRATION (? GOAA)	M	52	1000	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
7184-D	AUTO HOBBY SHOP (? GOAA)	M	78	500	A	F	N	95		ASSESS SITE IN '95, ?REPLACE BAD TANK
7185A	FIRE STATION (? CITY OF ORLANDO)	G	87	300	A	F	N	95		ASSESS SITE IN '96, ?REPLACE BAD TANK
7186	CIVIL AIR PATROL (? GOAA)	M	52	550	U	F	N	95		ASSESS SITE IN '95, ?REPLACE BAD TANK
7187	MARINE CORPS STORAGE (? GOAA)	M	52	550	U	F	N	95		ASSESS SITE IN '95, ?REPLACE BAD TANK
7201	MEDICAL CLINIC (? REC. OR SOC)	G	51	550	A	F	N	95		ASSESS SITE IN '95, ?REPLACE BAD TANK
7203	GOLF MAINTENANCE & STORAGE (? REC.)	M	55	500	U	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
7203A	GOLF MAINTENANCE & STORAGE (? REC.)	G	75	275	A	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
7234	MARINE CORPS RECRUITERS ADMIN. (? REC.)	M	57	500	U	F	N	95		ASSESS SITE IN '96, ?REPLACE BAD TANK
7239	VACANT (OCEANS 24 CLUB)	M	57	2000	U	F	N	95		ONLY HEAT SOURCE
7241	CHAPEL FELLOWSHIP HALL&YOUTH CTR (?GOAA)	M	53	1500	U	F	N	95		ONLY HEAT SOURCE
7241-2	CHAPEL FELLOWSHIP HALL&YOUTH CTR (?GOAA)	M	53	100	U	F	N	95		ONLY HEAT SOURCE, QUESTION EXISTENCE
7242	RELIGIOUS EDUCATION BUILDING (? GOAA)	M	56	2000	U	F	N	95		ONLY HEAT SOURCE
7244	VACANT (OLD COUNTRY STORE) (? GOAA)	M	55	1250	U	F	N	95		ONLY HEAT SOURCE
7246	ANNEX SWIMMING POOL BATH HOUSE	M	0	750	U	F	N	95		ONLY HEAT SOURCE
7247	ANNEX GYM	M	56	2000	U	F	N	95		ONLY HEAT SOURCE
7264	CHILD CARE CENTER	M	67	550	U	F	N	95		ONLY HEAT SOURCE
7253	VACANT (OLD NEX RETAIL) (? GOAA)	M	53	10000	U	F	N	95		ONLY HEAT SOURCE
325	CUSTOMS COMMUNICATION FACILITY	G	93	6000	U	T	N	795		TANK IN FULL COMPLIANCE, ? ASSESS. NEED
137-1	GROUND MAINTENANCE CONTRACTOR	A	0	500	A	F	N	95		CONTRACTOR WILL REMOVE
316	SSC BARRACKS	G	91	150	A	F	N	795		BUILT-IN TANK, ? ASSESS. NEED
317	ARMY MILITARY INTELLIGENCE BATTALION	G	91	150	A	F	N	795		BUILT-IN TANK, ? ASSESS. NEED
109R1	NEX SERVICE STATION	B	94	20000	U	T	N	795		TANK IN FULL COMPLIANCE, ? ASSESS. NEED
109R2	NEX SERVICE STATION	B	94	20000	U	T	N	795		TANK IN FULL COMPLIANCE, ? ASSESS. NEED
109R3	NEX SERVICE STATION	B	94	20000	U	T	N	795		TANK IN FULL COMPLIANCE, ? ASSESS. NEED
386	NTC PSD/NNPTC BEQ	G	94	550	A	F	N	795		TANK NEEDED, ? ASSESS. NEED
137-2	GROUND MAINTENANCE CONTRACTOR	D	0	500	A	F	N	95		CONTRACTOR WILL REMOVE
2134-1	GOLF COURSE MAINTENANCE (? REC.)	X	0	100	A	F	N	95		ASSESS SITE IN '95, ?REPLACE BAD TANK
2134-2	GOLF COURSE MAINTENANCE (? REC.)	B	0	250	A	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
2134-3	GOLF COURSE MAINTENANCE (? REC.)	D	0	550	A	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
7356	GOLF COURSE MAINTENANCE (? REC.)	B	0	250	A	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
7356A	GOLF COURSE MAINTENANCE	D	0	250	A	F	N	95		ASSESS SITE IN '98, ?REPLACE BAD TANK
7241-3	CHAPEL FELLOWSHIP HALL&YOUTH CTR (?GOAA)	M	0	250	A	F	N	95		ONLY HEAT SOURCE
2011A	LEGAL, TAP/RAP, TAC, NTC 1ST LT	M	0	300	A	F	N	95		ONLY HEAT SOURCE

NAVAL TRAINING CENTER ORLANDO  
TANK REMOVAL LIST

TANK_NUM	OCCUPANT	CONTENTS	INSTALLED	CAPACITY	ABOVE_UNDR	REGULATED	REMOVE	ASSESS_YR	REMOVE_YR	COMMENTS
2011B	LEGAL, TAP/RAP, TAC, NTC 1ST LT	M	0	300	A	F	N	95		ONLY HEAT SOURCE
150	WATER SPORTS FACILITY	B	82	500	U	T	Y	95	95	TANK OUT OF COMPLIANCE, LOCKED 28 DEC 94
218A	GALLEY #2 (? FRENCH)	G	72	15000	U	T	Y	95	95	ABB 29-2
1059-2	GENERAL WAREHOUSE	B	62	500	U	T	Y	95	95	TANK OUT OF COMPLIANCE, LOCKED 28 DEC 94
2036	VACANT (OLD NAVY CAMPUS)	G	51	600	A	T	Y	95	95	BUILDING ON DEMOLITION LIST
7184-B	ANNEX AUTO HOBBY SHOP (?GOAA)	L	78	750	U	T	Y	95	95	TANK NOT USED
206	RTC GYM/FIELDHOUSE (? REC.)	M	69	5000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
210	RTC BARRACKS (? REC.)	M	69	10000	U	F	Y	95	95	ALTERNATE HEAT SOURCE, BLDG TO BE DEMO'D
212	RTC BARRACKS (? REC.)	M	69	10000	U	F	Y	95	95	ALTERNATE HEAT SOURCE, BLDG TO BE DEMO'D
214	RTC BARRACKS (? REC.)	M	68	10000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
216	GALLEY #1 (? FRENCH - BRANCH LOUVRE)	M	68	15000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
218	GALLEY #2	M	72	15000	U	F	Y	95	95	ALT. HEAT SOURCE, MAY NEED FOR 352 RENOV
220	RTC BARRACKS (? FRENCH)	M	70	10000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
222	RTC BARRACKS (? FRENCH)	M	71	10000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
224	RTC BARRACKS (? FRENCH)	M	72	10000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
226	RTC BARRACKS (? FRENCH)	M	71	10000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
228	RTC BARRACKS (? FRENCH)	M	72	10000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
230	RTC PSD (? FRENCH OR OCSB)	M	68	3000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
232	RTC BARRACKS (? REC.)	M	68	10000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
234	RTC BARRACKS (? REC.)	M	68	10000	U	F	Y	95	95	ALTERNATE HEAT SOURCE, BLDG TO BE DEMO'D
235	RIF (? FDLE)	M	70	2000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
238	RECRUIT RECEIVING BARRACKS (? FDLE)	M	70	2000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
240	RECRUIT COMMUNITY CENTER (?FRENCH)	M	69	3000	U	F	Y	95	95	ALTERNATE HEAT SOURCE
246	MEDICAL DENTAL CLINIC	M	71	2500	U	F	Y	95	95	ALTERNATE HEAT SOURCE
250	RTC CHAPEL (? FRENCH)	M	69	2500	U	F	Y	95	95	ALTERNATE HEAT SOURCE
252	RTC HEADQUARTERS	M	69	2500	U	F	Y	95	95	ALTERNATE HEAT SOURCE
602	GENERAL WAREHOUSE (? GOAA)	B	70	500	A	F	Y	95	95	TANK NOT NEEDED
1100	LAUNDRY PLANT	M	43	20000	U	F	Y	95	95	ONLY HEAT SOURCE BUT BUILDING USELESS
2003	VACANT	M	59	375	A	F	Y	95	95	BUILDING ON DEMOLITION LIST
2004	VACANT	M	59	500	A	F	Y	95	95	BUILDING ON DEMOLITION LIST
2012	FIRE ALARM TECHS/ADMIN	M	59	5000	U	F	Y	95	95	BUILDING ON DEMOLITION LIST
2036	VACANT (OLD NAVY CAMPUS)	M	43	600	A	F	Y	95	95	BUILDING ON DEMOLITION LIST
2053	NEX VENDING	M	43	5000	U	F	Y	95	95	BLDG ON DEMO LIST, TANK NOT USED
2092	SELF-HELP/PEB	M	63	600	U	F	Y	95	95	ABB NOT SURE OBJECT THEY LOCATED IS UST
2093-1	BUILDING DEMOLISHED	M	58	2500	U	F	Y	95	95	TANK LEFT FOR BRAC REMOVAL
2095-1	VACANT ) CAAC/NADSAP)	M	55	550	U	F	Y	95	95	BUILDING ON DEMOLITION LIST

NAVAL TRAINING CENTER ORLANDO  
TANK REMOVAL LIST

TANK_NUM	OCCUPANT	CONTENTS	INSTALLED	CAPACITY	ABOVE_UNDR	REGULATED	REMOVE	ASSESS_YR	REMOVE_YR	COMMENTS
2095-2	VACANT (OLD CAAC/NADSAP)	M	55	550	A	F	Y	95	95	BUILDING ON DEMOLITION LIST
2450	BUILDING DEMOLISHED	M	58	1000	U	F	Y	95	95	TANK LOCATION MARKED
2709	VACANT (OLD NJROTC)	M	60	300	A	F	Y	95	95	BUILDING ON DEMOLITION LIST
2712	VACANT (OLD SEA CADETS)	M	60	265	A	F	Y	95	95	BUILDING ON DEMOLITION LIST
2723	VACANT (OLD BARRACKS)	M	61	300	A	F	Y	95	95	BUILDING ON DEMOLITION LIST
2724	VACANT (OLD WIVES CLUB, FLEET RESERVE)	M	61	300	A	F	Y	95	95	BUILDING ON DEMOLITION LIST
2816	HAZMAT	M	66	265	A	F	Y	95	95	ONLY HEAT SOURCE
2817	RTC 1ST LT	M	66	500	A	F	Y	95	95	BUILDING USELESS
7185	FIRE STATION	M	59	1000	U	F	Y	95	95	TANK NOT USED
7190	164TH ADA ADMINISTRATION (? GOAA)	M	52	550	U	F	Y	95	95	ABB COULDN'T LOCATE, NOT USED PER TMS
7191	NAWC TSD STORAGE (? GOAA)	M	55	110	U	F	Y	95	95	ABB COULDN'T LOCATE, NOT USED PER TMS
7201	MEDICAL CLINIC (?REC OR SOC)	M	43	550	U	F	Y	95	95	TANK NOT USED
7202	YOUTH CENTER/BOY&GIRL SCOUTS (?REC/SOC)	M	43	550	U	F	Y	95	95	ABB COULDN'T LOCATE, NOT USED PER TMS
7224	NOYSA (? REC.)	M	0	500	U	F	Y	95	95	ABB COULDN'T LOCATE, ONLY HEAT SOURCE
7240	VACANT (OLD BANK) (? GOAA)	M	43	1000	U	F	Y	95	95	TANK NOT NEEDED
7240A	VACANT (OLD BANK) (? GOAA)	M	90	300	A	F	Y	95	95	TANK NOT NEEDED
303	ADV. UNDER WATER WEAP. TRNG. (?NAWC TSD)	M	0	500	U	F	Y	95	95	ALTERNATE HEAT SOURCE
7168	ARMY RESERVE MOTOR POOL	L	0	280	U	T	Y	95	95	TANK NOT USED
RV1	ANNEX RV PARKING LOT	?	0	0	U	?	Y	95	95	ABANDONED TANK
RV2	ANNEX RV PARKING LOT	?	0	0	U	?	Y	95	95	ABANDONED TANK
2040-2	NAVY RECRUITING, RECLAIMED CLOTHING, NBO	M	61	650	A	F	Y	96	96	ONLY HEAT SOURCE
2040-1	NAVY RECRUITING, RECLAIMED CLOTHING, NBO	M	61	650	A	F	Y	96	96	ONLY HEAT SOURCE
2040-3	NAVY RECRUITING, RECLAIMED CLOTHING, NBO	M	43	1400	U	F	Y	96	96	ONLY HEAT SOURCE
2516-1	VACANT(OLD ANCHORS OLE)	M	55	550	A	F	Y	96	96	ONLY HEAT AND HOT WATER SOURCE
2516-2	VACANT(OLD ANCHORS OLE)	M	55	550	A	F	Y	96	96	ONLY HEAT AND HOT WATER SOURCE
7210	VACANT (OLD NAVY LODGE)	M	52	500	U	F	Y	96	96	ONLY HEAT SOURCE
7211	VACANT (OLD NAVY LODGE)	M	52	500	U	F	Y	96	96	ONLY HEAT SOURCE
7212	VACANT (OLD NAVY LODGE)	M	52	500	U	F	Y	96	96	ONLY HEAT SOURCE
2026	MAXI-MART	M	0	0	U	F	Y	96	96	BUILDING ON DEMOLITION LIST
304	SERVICE SCHOOL HEADQUARTERS	M	68	10000	U	F	Y	97	97	ALTERNATE HEAT SOURCE
2005	NEX PERSONNEL	M	59	1000	A	F	Y	97	97	ONLY HEAT SOURCE
129	AUTO HOBBY SHOP	L	74	500	U	T	Y	98	98	WHEN AUTO HOBBY SHOP IS CLOSED

11/30/95

## NAVAL TRAINING CENTER ORLANDO

## TANK REMOVAL LIST

TANK_NUM	OCCUPANT	CONTENTS	INSTALLED	CAPACITY	ABOVE_UNDR	REGULATED	REMOVE	ASSESS_YR	REMOVE_YR	COMMENTS
2080-5	NTC SUPPLY FILLING STATION	B	88	10000	U	T	Y	98	98	TANK IN FULL COMPLIANCE
2080-6	NTC SUPPLY FILLING STATION	B	88	10000	U	T	Y	98	98	TANK IN FULL COMPLIANCE
2080-7	NTC SUPPLY FILLING STATION	D	88	10000	U	T	Y	98	98	TANK IN FULL COMPLIANCE
106	TPD (TRANSIENT PERSONNEL DEPARTMENT)	M	70	2000	U	F	Y	98	98	ALTERNATE HEAT SOURCE
113	NEX MALL	M	73	2500	U	F	Y	98	98	ALTERNATE HEAT SOURCE
128	DENTAL CLINIC	M	77	4000	U	F	Y	98	98	ALTERNATE HEAT SOURCE
138	MARINER'S CLUB	M	75	5000	U	F	Y	98	98	ALTERNATE HEAT SOURCE
1050	OLD CBU 419 HEADQUARTERS	M	43	265	A	F	Y	98	98	ONLY HEAT SOURCE
1059-1	GENERAL WAREHOUSE	M	43	265	A	F	Y	98	98	ONLY HEAT SOURCE
2001	ADMIN (NTC BTO, MCPOC)	M	59	550	A	F	Y	98	98	ONLY HEAT SOURCE
2002	NAVAL TRAINING CENTER HEADQUARTERS	M	59	500	A	F	Y	98	98	ONLY HEAT SOURCE
2010	SECURITY	M	43	300	A	F	Y	98	98	BUILDING ON DEMOLITION LIST
2022	CHAPLAIN'S OFFICES	M	59	600	A	F	Y	98	98	ONLY HEAT SOURCE
2034	MWR ADMINISTRATION	M	61	500	A	F	Y	98	98	BUILDING ON DEMOLITION LIST
2035	MWR MEDIA & MARKETING	M	61	265	A	F	Y	98	98	BUILDING ON DEMOLITION LIST
2039	NTC PHOTO LAB	M	43	265	A	F	Y	98	98	ONLY HEAT SOURCE
2049	PUBLISHING & PRINTING	M	43	265	A	F	Y	98	98	BUILDING ON DEMOLITION LIST
2053A	NEX VENDING	M	61	275	A	F	Y	98	98	BUILDING ON DEMOLITION LIST
2076	CHILD CARE CENTER	M	57	265	A	F	Y	98	98	BUILDING ON DEMOLITION LIST
2078-1	AUTO VEHICLE MAINTENANCE	M	63	600	A	F	Y	98	98	BUILDING ON DEMOLITION LIST
2078-2	AUTO VEHICLE MAINTENANCE	M	0	500	U	F	Y	98	98	BUILDING ON DEMOLITION LIST
2078-3	AUTO VEHICLE MAINTENANCE	L	63	200	A	F	Y	98	98	BUILDING ON DEMOLITION LIST
2080	NTC SUPPLY GAS STATION	G	51	25	A	F	Y	98	98	PROPANE TANK, PWD MAY PAY IF NOT IN SCOPE
2091-1	SAILOR'S CHAPEL	M	0	1000	A	F	Y	98	98	ONLY HEAT SOURCE
2091-2	SAILOR'S CHAPEL	M	61	550	A	F	Y	98	98	ONLY HEAT SOURCE
2091-3	SAILOR'S CHAPEL	M	61	550	A	F	Y	98	98	ONLY HEAT SOURCE
2113	NEX/MWR VISUAL WORKS SHOP	M	0	500	U	F	Y	98	98	BUILDING ON DEMOLITION LIST
2266	VET CLINIC	M	59	300	A	F	Y	98	98	BUILDING ON DEMOLITION LIST
2273-3	NTC SUPPLY BULK FUEL STORAGE	M	44	11750	U	F	Y	98	98	TANK NOT NEEDED AFTER BASE CLOSURE
2273-4	NTC SUPPLY BULK FUEL STORAGE	M	44	11750	U	F	Y	98	98	TANK NOT NEEDED AFTER BASE CLOSURE
2401	BOQ (BACHELOR OFFICER QUARTERS)	M	56	300	A	F	Y	98	98	ONLY HEAT SOURCE
2402	BOQ (BACHELOR OFFICER QUARTERS)	M	56	300	A	F	Y	98	98	ONLY HEAT SOURCE
2403	BOQ (BACHELOR OFFICER QUARTERS)	M	56	300	A	F	Y	98	98	ONLY HEAT SOURCE
2404	BOQ OFFICE	M	56	300	A	F	Y	98	98	ONLY HEAT SOURCE
2405	BOQ (BACHELOR OFFICER QUARTERS)	M	56	300	A	F	Y	98	98	ONLY HEAT SOURCE
2409	BOQ (BACHELOR OFFICER QUARTERS)	M	56	300	A	F	Y	98	98	ONLY HEAT SOURCE
2410	BOQ (BACHELOR OFFICER QUARTERS)	M	56	300	A	F	Y	98	98	BUILDING ON DEMOLITION LIST
2411	BOQ (BACHELOR OFFICER QUARTERS)	M	56	300	A	F	Y	98	98	ONLY HEAT SOURCE

NAVAL TRAINING CENTER ORLANDO  
TANK REMOVAL LIST

TANK_NUM	OCCUPANT	CONTENTS	INSTALLED	CAPACITY	ABOVE_UNDR	REGULATED	REMOVE	ASSESS_YR	REMOVE_YR	COMMENTS
2412	BOQ (BACHELOR OFFICER QUARTERS)	M	56	265	A	F	Y	98	98	ONLY HEAT SOURCE
2415	BOQ (BACHELOR OFFICER QUARTERS)	M	56	300	A	F	Y	98	98	ONLY HEAT SOURCE
2416	BOQ (BACHELOR OFFICER QUARTERS)	M	56	300	A	F	Y	98	98	ONLY HEAT SOURCE
2417	BOQ (BACHELOR OFFICER QUARTERS)	M	56	300	A	F	Y	98	98	ONLY HEAT SOURCE
2420	BOQ (BACHELOR OFFICER QUARTERS)	M	56	265	A	F	Y	98	98	ONLY HEAT SOURCE
2421	BOQ (BACHELOR OFFICER QUARTERS)	M	56	265	A	F	Y	98	98	ONLY HEAT SOURCE
2426	BOQ (BACHELOR OFFICER QUARTERS)	M	56	265	A	F	Y	98	98	ONLY HEAT SOURCE
2451	PUBLIC WORKS CARPENTER SHOP	M	0	265	A	F	Y	98	98	BUILDING ON DEMOLITION
7153	NEX WAREHOUSE	M	52	550	U	F	Y	98	98	ALTERNATE HEAT SOURCE
7184-C	AUTO HOBBY SHOP	L	85	300	A	F	Y	98	98	TANK NOT NEEDED AFTER FUNCTION GONE
131	AUTO HOBBY PAINT SHOP	H	0	250	A	F	Y	98	98	TANK STORES FUEL FOR STEAM CLEANERS
2010A	SECURITY	M	43	300	A	F	Y	98	98	BUILDING ON DEMOLITION LIST

**APPENDIX I**

**REUSE PARCEL DATA SUMMARY**

**Appendix I  
Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
Orlando, Florida

Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
15	RTC Pool	NTC			Pool	October 1995	Parks Department
73	Storage	NTC		Site 3			NRL
102	Visitor Center	NTC					
103	Housing Referral	NTC			Social Services	October 1996	Social Services
104	Information Ticket Office	NTC				January 1996	Reuse Authority
105	Family Services	NTC				January 1996	Reuse Authority
106	BEQ	NTC		UST			
108	Patio Shop	NTC				ASAP	NEX
109	Exchange Auto Repair	NTC				ASAP	NEX
111	Vehicle Registration	NTC		Site 27			NRL
112	Theater	NTC					RNI
113	Navy Exchange	NTC		UST		ASAP	NEX
114	Bowling and Crafts	NTC		Site 28			RNI
150	Water Sports Facility	NTC		UST			Parks Department
200	Classroom	NTC	High		School	June 1995	French School
203	Review Stand	NTC	High		School	June 1995	French School
206	Gymnasium and Fieldhouse	NTC		OU 1, UST		October 1995	Parks Department
207	Review Stand	NTC				October 1995	Parks Department
208	Ship Mockup	NTC	Medium		Recreation	October 1995	Parks Department
209	Recruit Training	NTC	High			June 1995	French School
210	RTC Barracks	NTC	Low	UST			NRL
211	Utility	NTC	High		School	June 1995	French School
212	RTC Barracks	NTC	Low	OU 1, UST			NRL
214	RTC Barracks	NTC	Low	OU 1, UST			NRL
216	Galley	NTC	High	UST	School	June 1995	French School
218	Galley	NTC	High	UST and ASTA	School	June 1995	French School

See notes at end of table.

**Appendix I (Continued)  
Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
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Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
220	RTC Barracks	NTC	High	OU 1, UST	School	June 1995	French School
222	RTC Barracks	NTC	High	UST	School	June 1995	French School
224	RTC Barracks	NTC	High	UST	School	June 1995	French School
226	RTC Barracks	NTC	High	UST	School	June 1995	French School
228	RTC Barracks	NTC	High	UST	School	June 1995	French School
229	Indoor Range	NTC	High		School	June 1995	French School
230	RTC Training Building	NTC	High	UST	School	June 1995	French School
232	RTC Barracks	NTC	Low	UST			NRL
234	RTC Barracks	NTC	Low	UST			NRL
235	RTC Processing	NTC		UST		June 1995	FDLE
236	Roundhouse	NTC				June 1995	FDLE
238	RTC Barracks	NTC		UST		June 1995	FDLE
240	Mini Mall	NTC	High	UST	School	June 1995	French School
244	Water Tank	NTC	High		School	June 1995	French School
246	Medical/Dental Clinic	NTC		UST			NRL
250	RTC Chapel	NTC	High	Site 4, UST	School	June 1995	French School
251	Religious Education	NTC	High	Site 4	School	June 1995	French School
252	RTC Headquarters	NTC		UST			
253	RTC Apprentice Training	NTC				June 1995	DOC
254	RTC Hangar Mockup	NTC				ASAP	NAWC
255	RTC Student Break	NTC				June 1995	DOC
256	RTC Ship Mockup	NTC					
303	Breault Hall	NTC		UST		ASAP	NAWC
304	Mihalowski Hall	NTC		UST			
305	Fireman Applications School	NTC					

See notes at end of table.

**Appendix I (Continued)  
Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
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Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
306	Fireman Headquarters	NTC				ASAP	NAWC
310	Mid Rise Barracks	NTC				June 1995	DOC
311	Mid Rise Barracks	NTC				June 1995	DOC
313	Mid Rise Barracks	NTC					
316	Mid Rise Barracks	NTC					
317	Army BEQ	NTC					
700	Housing	NTC					Social Services
701	Housing	NTC					Social Services
702	Housing	NTC					Parks Department
703	Housing	NTC					Parks Department
2001	Administration Building	NTC		AST			NRL
2002	NTC Headquarters	NTC		AST			NRL
2003	DFAS Office	NTC		AST			NRL
2004	Administration Building	NTC		AST			NRL
2005	NEX Administration	NTC		UST			NRL
2006	United Way	NTC		ASTA			
2008	Amusement Center	NTC					NRL
2009	Thrift Shop	NTC					NRL
2010	Security Building	NTC		Site 27, AST			NRL
2011	Navy Legal Services	NTC					NRL
2012	Post Office	NTC		UST			NRL
2016	Fire Station	NTC				October 1996	Fire Department
2018	Laundry Pickup	NTC				ASAP	NEX
2020	Chapel	NTC					Social Services
2022	Chaplin's Office	NTC		AST			Social Services
2025	Public Works Administration	NTC		ASTA		January 1996	Reuse Authority

See notes at end of table.

**Appendix I (Continued)  
Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
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Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
2006	United Way	NTC		ASTA			
2008	Amusement Center	NTC					NRL
2009	Thrift Shop	NTC					NRL
2010	Security Building	NTC		Site 27, AST			NRL
2011	Navy Legal Services	NTC					NRL
2012	Post Office	NTC		UST			NRL
2016	Fire Station	NTC				October 1996	Fire Department
2018	Laundry Pickup	NTC				ASAP	NEX
2020	Chapel	NTC					Social Services
2022	Chaplin's Office	NTC		AST			Social Services
2025	Public Works Administration	NTC		ASTA		January 1996	Reuse Authority
2026	MAXI Mart	NTC		UST			NRL
2034	MWR	NTC		AST			NRL
2035	Administration Building	NTC		AST			NRL
2036	Education Center	NTC		AST, UST			NRL
2039	Photographic Laboratory	NTC		AST			NRL
2040	Administration Building	NTC		UST, AST			NRL
2045	Vacant	NTC					NRL
2047	Administration Building	NTC					NRL
2049	Printing Plant	NTC		AST			NRL
2053	Warehouse, NEX	NTC		UST, AST			NRL
2055	Maintenance Shop	NTC					NRL
2076	Child Development Center	NTC		AST			NRL
2077	Recruit Data Processing	NTC					NRL
2078	Automotive Maintenance Facility	NTC		UST, AST			NRL
2079	Automotive Maintenance	NTC					NRL

See notes at end of table.

**Appendix I (Continued)**  
**Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
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Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
2091	Sailor's Chapel	NTC		AST			NRL
2092	Public Works Storage	NTC		UST			NRL
2095	Rehabilitation Center	NTC		AST			NRL
2105	Library	NTC					NRL
2113	NEX Visual Shop	NTC		UST			NRL
2121	Public Works Lumber Storage	NTC				January 1996	Reuse Authority
2122	Public Works Shops	NTC		ASTA		January 1996	Reuse Authority
2134	Greens Keeper	NTC		Site 8, ASTA			Parks Department
2401	BOQ	NTC		AST			NRL
2402	BOQ	NTC		AST			NRL
2403	BOQ	NTC		AST			NRL
2404	BOQ	NTC		AST			NRL
2405	BOQ	NTC		AST			NRL
2406	Laundry	NTC					NRL
2409	BOQ	NTC		AST			NRL
2410	BOQ	NTC		AST			NRL
2411	BOQ	NTC		AST			NRL
2312	BOQ	NTC		AST			NRL
2415	BOQ	NTC		AST			NRL
2416	BOQ	NTC		AST			NRL
2417	BOQ	NTC		AST			NRL
2418	VIP Quarters	NTC					Parks or Social Services
2419	BOQ	NTC					Parks or Social Services
2420	BOQ	NTC		AST			Parks or Social Services
2421	BOQ	NTC		AST			Parks or Social Services

See notes at end of table.

**Appendix I (Continued)  
Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
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Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
2423	BOQ	NTC					Parks or Social Services
2424	VIP Quarters	NTC					Parks or Social Services
2426	BOQ	NTC		AST			Parks or Social Services
2427	Admiral's Cottage	NTC					Parks or Social Services
2434	Officer's Club	NTC		UST?, ASTA			Parks Department
2435	Junior Officer's Club	NTC					Parks Department
2437	Outdoor Dance Facility	NTC					Parks Department
2450	CPO Barracks	NTC		UST			NRL
2511	Beachhouse	NTC				October 1996	Parks Department
2516	World War II	NTC		AST			
2531	Credit Union Storage	NTC				ASAP	Credit Union
2533	Credit Union	NTC	High		Bank	ASAP	Credit Union
2709	Hospital Records	NTC		AST			NRL
2712	Clothing Center	NTC		AST			NRL
2713	Administration Building	NTC					NRL
2720	Training	NTC					NRL
2723	World War II	NTC		AST			NRL
2724	World War II	NTC		AST			NRL
2816	1st Lieutenant Shops	NTC		Site 3, AST			NRL
2817	Storage	NTC		Site 3, AST			NRL
4045	Training Mockup	NTC					
4056	Signal Training	NTC					
21001	Tennis Courts	NTC					Parks Department
21008	Tennis Courts	NTC					Parks Department

See notes at end table.

**Appendix I (Continued)**  
**Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
 Naval Training Center  
 Orlando, Florida

Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
601	Adminisrtation Storage	Herndon				June 1995	GOAA
602	General Warehouse	Herndon		AST		June 1995	GOAA
606	Technical Service Laboratory	Herndon				June 1995	GOAA
607	Heating Building	Herndon				June 1995	GOAA
608	Administration Office	Herndon				June 1995	GOAA
610	Combined Research Laboratory	Herndon		UST		June 1995	GOAA
612	Combined Research Laboratory	Herndon					
7708	Enlisted Housing	McCoy					
7709	Enlisted Housing	McCoy					
710	Enlisted Housing	McCoy					
711	Enlisted Housing	McCoy					
712	Enlisted Housing	McCoy					
713	Enlisted Housing	McCoy					
714	Enlisted Housing	McCoy					
715	Enlisted Housing	McCoy					
716	Enlisted Housing	McCoy					
717	Enlisted Housing	McCoy					
7114	Baseball Field	McCoy				ASAP	National Guard
7121	Air National Guard Headquarters	McCoy		USTA		ASAP	National Guard
7125	Storage Building	McCoy		UST and ASTA		ASAP	National Guard
7126	Storage Building	McCoy				ASAP	National Guard
7150	Package Store	McCoy					NRL
7151	Main Commissary	McCoy		USTA and USTA			GOAA
7153	NEX Warehouse	McCoy		UST			GOAA
7158	Softball Field	McCoy					NRL

See notes at end of table.

**Appendix I (Continued)**  
**Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
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Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
7168	Maintenance Yard	McCoy		Site 16, UST			GOAA
7169	Tire Storage	McCoy					GOAA
7170	Tire Repair Shop	McCoy					GOAA
7171	Army Transportation	McCoy		Site 16, USTA			GOAA
7172	Battery Shop	McCoy		Site 16			GOAA
7174	Service Station	McCoy					GOAA
7175	Former Gas Station	McCoy					GOAA
7177	Storage	McCoy					GOAA
7178	Storage	McCoy		Site 17			GOAA
7179	Storage	McCoy					GOAA
7180	Library	McCoy		USTA			GOAA
7182	Housing Office	McCoy		Site 18, USTA			GOAA
7183	Warehouse	McCoy					GOAA
7184	Automotive Hobby Shop	McCoy		Site 19, UST and ASTA			GOAA
7185	Annex Fire Station	McCoy		ASTA and UST			GOAA
7186	Civil Air Patrol	McCoy		USTA			GOAA
7187	Storage	McCoy		Site 20, USTA			GOAA
7188	Community Storage	McCoy					GOAA
7189	Warehouse	McCoy					GOAA
7190	Maintenance Office	McCoy		Site 17, UST			GOAA
7191	Warehouse	McCoy		Site 17, UST			GOAA
7193	Warehouse	McCoy		Site 17			GOAA
7195	Pest Control Shop	McCoy		Site 17			GOAA
7201	Medical Clinic	McCoy		UST and ASTA		October 1995	Parks Department
7202	Youth Center	McCoy		UST		October 1995	Parks Department

See notes at end of table.

**Appendix I (Continued)**  
**Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
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Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
7203	Maintenance Shop	McCoy		Site 21, USTA and ASTA		October 1995	Parks Department
7210	Guest House	McCoy		UST			
7211	Guest House	McCoy		UST			
7212	Guest House	McCoy		UST			
7223	Softball Field	McCoy				October 1995	Parks Department
7224	Community Storage	McCoy		UST		October 1995	Parks Department
7230	Administration Building	McCoy					NRL
7231	Barracks	McCoy					NRL
7232	Barracks	McCoy					NRL
7234	Marine Recruit	McCoy		USTA			NRL
7236	Bowling Alley	McCoy					
7238	Tennis Courts	McCoy				October 1995	Parks Department
7239	Enlisted Mess	McCoy					
7240	Bank Branch	McCoy		UST and AST			
7241	Roller Rink	McCoy					
7242	Religious Education	McCoy					
7244	Exchange Cafeteria	McCoy					
7245	Swimming Pool	McCoy				October 1995	Parks Department
7246	Bath House	McCoy				October 1995	Parks Department
7249	NEX Service	McCoy					
7253	Exchange Store	McCoy					
7257	Police Station	McCoy					
7262	Kwik Shop	McCoy					
7264	Child Care Center	McCoy				October 1995	Parks Department
7266	Community Storage	McCoy					

See notes at end of table.

**Appendix I (Continued)  
Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
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Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
7267	Baseball Field	McCoy				October 1995	Parks Department
7351	Camp Bathhouse	McCoy		Site 26			Army Reserves
7352	Camp Landury	McCoy		Site 26			Army Reserves
7353	Golf Club House	McCoy		OU 2			Parks Department
7354	Greens Keepers Storage	McCoy		OU 2			Parks Department
7355	Golf Course	McCoy		OU 2			Parks Department
7356	Lawn Storage	McCoy		ASTA			Parks Department
7357	Camp Office	McCoy		Site 26			Army Reserves
7358	Family Camp	McCoy		Site 26			Army Reserves
148	Cold Storage	Area C		Site 11			NRL
1050	Warehouse	Area C		AST			NRL
1052	Warehouse	Area C					NRL
1053	Warehouse	Area C		Site 15			NRL
1054	Warehouse	Area C					NRL
1055	Warehouse	Area C					NRL
1056	Warehouse	Area C					NRL
1057	Warehouse	Area C					NRL
1058	Warehouse	Area C					NRL
1059	Warehouse	Area C		UST and AST			NRL
1060	Warehouse	Area C					NRL
1061	Scrap Building	Area C					NRL
1062	Warehouse	Area C					NRL
1063	Salvage Office	Area C		Site 12			NRL
1065	Police Security	Area C					NRL
1066	Warehouse	Area C					NRL

See notes at end of table.

**Appendix I (Continued)  
Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
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Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
1068	Warehouse	Area C	NRL				
1100	Base Landury	Area C		Site 13, UST			NRL
1102	Scrap Building	Area C		Site 14			NRL
1104	Storage	Area C					NRL
500	Hospital	Hospital					VA
502	Boiler Building	Hospital		UST			VA
503	Wellness Clinic	Hospital					VA
504	Helicopter Pad	Hospital					NRL
505	Golf Club House	Hospital					Social Services
517	Ambulance Center	Hospital					VA
518	Oxygen Storage Building	Hospital					VA
519	Hospital BEQ	Hospital					VA
520	Hospital BEQ	Hospital					VA
521	Hospital BEQ	Hospital					VA
522	Hospital BEQ	Hospital					VA
523	Champus Training	Hospital					VA
3126	BEQ	Hospital		Site 1			VA
3127	Bio-waste	Hospital					VA
3128	BEQ	Hospital					VA
3129	BEQ	Hospital					VA
3132	Alcohol Rehabilitation	Hospital					VA
3133	Alcohol Rehabilitation	Hospital					VA
3134	Alcohol Rehabilitation	Hospital					VA
21001	Tennis Courts	Hospital				October 1995	School Board
21005	Basketball Courts	Hospital				October 1995	School Board

See notes at end of table.

**Appendix I (Continued)  
Reuse Parcel Data Summary**

Base Realignment and Closure Cleanup Plan  
Naval Training Center  
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Facility Number	Description	Location	Priority	Known Sites	Proposed Reuse	Projected Transfer Date	Recipient
21012	Basketball Courts	Hospital				October 1995	School Board
21028	Softball Courts	Hospital				October 1995	School Board
301	DFAS	NTC				ASAP	DFAS
325	U.S. Customs	NTC				ASAP	U.S. Customs
2004	Strategic Command	NTC					Strategic Command
2005	NAWC Training Services Department	NTC					Naval Air Warfare
2006	United Way	NTC					United Way
7188	138TH Transient	McCoy					

Notes: RTC = Recruit Training Command.  
 NTC = Naval Training Center.  
 NRL = no reuse likely.  
 BEQ = Bachelor's Enlisted Quarters.  
 UST = underground storage tank.  
 ASAP = as soon as possible.  
 NEX = naval exchange.  
 RNI = reuse not identified.  
 OU = operable unit.  
 ASTA = aboveground storage tank assessment.  
 FDLE = Florida Department of Law Enforcement.

DOC = Department of Corrections.  
 NAWC = Naval Air Warfare Center.  
 AST = aboveground storage tank.  
 DFAS = Defense Finance and Accounting Service.  
 MWR = Morale, Welfare, and Recreation.  
 BOQ = Bachelor's Officer's Quarters.  
 VIP = very important person.  
 CPO = chief petty officer.  
 GOAA = Greater Orlando Aviation Authority.  
 USTA = underground storage tank assessment.