

N00207.AR.003463
NAS JACKSONVILLE
5090.3a

FEDERAL FACILITIES AGREEMENT SITE MANAGEMENT PLAN FOR CALENDAR YEAR
1997 NAS JACKSONVILLE FL
8/30/1996
NAVFAC SOUTHERN

30 August 1996

Revision 0.0

JACKSONVILLE NAVAL AIR STATION
FEDERAL FACILITIES AGREEMENT
SITE MANAGEMENT PLAN

CALENDAR YEAR 1997

PREPARED BY
Dana D. Gaskins
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
P.O. Box 190010
Code 1857
North Charleston, South Carolina
29419-9010

1. THE BASIS FOR A SITE MANAGEMENT PLAN

The requirement for this Site Management Plan (SMP) is identified in the Federal Facilities Agreement (FFA) signed by the U.S. Environmental Protection Agency (U.S. EPA), the State of Florida, and the U.S. Navy for Naval Air Station (NAS) Jacksonville, Florida (the Site). The FFA was entered into based on the requirement for an interagency agreement identified in the Superfund Amendments and Re-authorization Act (SARA), section 120(e)(1). The intent of the plan is to provide: (1) action deemed necessary to mitigate any immediate threat to human health or the environment, (2) a list of operable units subject to the tenets of the FFA, (3) a prioritization and rationale for the operable units at the Site, (4) activities and schedules for work planned for the current year, including the submittal schedule for primary and secondary documents, and (5) work projections for subsequent calendar years. The FFA was signed on 16 October 1990, and has an effective date of 1 November 1990.

This SMP addresses the Installation Restoration Program events that occurred in calendar year 1996 and earlier; that are scheduled to occur in calendar year 1997; and are projected for calendar year 1998 and beyond through the completion of Record of Decision activities. The dates, for the current calendar year that are identified as 'Due Dates' are subject to 'Stipulated Penalties' as discussed in the FFA.

2. OVERALL SITE MANAGEMENT APPROACH

Three major investigation activities have been conducted at the Site, under the Navy Installation Restoration (IR) Program (NIRP) or Superfund Program: Preliminary Assessment (PA) or Initial Assessment Study, Site Inspection (SI) or Verification Study, and Extended Site Inspection (ESI) or Confirmation Study. The PA (1983) identified and assessed 38 potential sources of contamination (PSC) on the Site that could pose a potential threat to human health or the environment as a result of contamination derived from past naval operations. Two additional PSCs were identified by the station during its review of the draft PA, effecting a total of 40 post-PA PSCs. The SI (1985) and ESI (1986) were conducted to confirm or refute the presence of hazardous substances at the PSCs identified in the PA; and, if contamination was detected, evaluate its magnitude and extent to a degree that would allow for the recommendation of future remedial response actions. As a result of IR activities, nine additional sites were identified for a total of 49. In addition to the NIRP/CERCLA program, the station has other active regulatory programs. A Florida RCRA permit was issued to NAS Jacksonville by the Florida Department of Environmental Protection (FDEP). Concurrently, a RCRA/Hazardous and Solid Waste Amendments of 1984 (HSWA) permit was issued to the installation by U.S. EPA in June 1987. A RCRA Facility Assessment (RFA) was included in the U.S. EPA issued permit. An Underground Storage Tank Program is currently investigating over 50 tanks as provided for in Florida Administrative Code Section 62-770.

Of the 49 identified IR PSCs, fourteen are currently being addressed as Remedial Investigation/Feasibility Study (RI/FS) PSCs. The remaining 35 PSCs require FFA site screening efforts due to data quality objective inadequacies, or data gaps. Due to the proximity of 23 PSCs to the St. Johns River, the US Navy shall assess the state of the river immediately about the station.

The SMP provides an IR Program event management plan. The Plan ONLY discusses the management of PSCs that are identified as needing to undergo Phase II: Remedial Investigation, Feasibility Study, and possibly Phase III: Remedial Design and Remedial Action, of the IR/CERCLA Program. Included is a description of the Site's PSC arrangement into remedial activity groupings or Operable Units (OU). A list of projected schedule tasks through the signing of a Record of Decision is furnished. Detailed therein are program events to take place in the upcoming year, the delivery date for each draft primary document, and a target date for each secondary document. The Navy shall update the SMP yearly.

3. RATIONALE FOR OPERABLE UNIT PSC GROUPINGS

In order to facilitate implementation of NAS Jacksonville's IR Program, the PSCs are organized into five groups: 3 RI/FS OUs; a PSC screening group; and petroleum PSC group. The screening group and the petroleum group will not be further considered in this SMP.

The criteria used to generate the RI/FS OU arrays are (1) geographic proximity of sites, (2) contaminant types, (3) aquifer contamination zones, (4) potential investigation methods, (5) potential scope and complexity of the investigation, (6) remedial activity's impact on stations mission, (7) regulatory concerns, and (8) similarity of potential remedial actions.

The PSCs in each OU are:

OU#1: Oil and Solvent Disposal Pits Area

PSC 26, Old Main Registered Disposal Area
PSC 27, Ex-PCB Former Transformer Storage Area

OU#2: Wastewater Treatment Area

PSC 2, Present Fire Fighting Training Area
PSC 3, West WWTP Ex-Sludge Disposal Area
PSC 4, Pine Tree Planting Area
PSC 41, Domestic Sludge Drying Beds
PSC 42, WWTP Polishing Pond

PSC 43, IWTP Sludge Drying Beds

OU#3: Industrial Area

PSC 11, Hangar Building 101
PSC 12, Old Test Cell, Building 101K
PSC 13, Radium Paint Waste Disposal Pit
PSC 14, Battery Shop
PSC 15, Solvent and Paint Sludge Disposal Area
PSC 48, Base Dry Cleaners

Operable Unit remedial activities are being phased based on program priorities, schedule effectiveness, task management, and funding capacity. Due to the large number of PSCs on the Site, the number of PSCs in each RI/FS OU, the aggregate complexity of the contamination problem at each OU, and funding limitations, the commencement of work at all OUs concurrently is not feasible; therefore, the Navy has implemented a phased approach. Based on hazard assessment, the Navy proceeded with RI/FS OU#1 first. The RI/FS for OU#2 is ongoing and the RI/FS for OU#3 is being implemented in phases. This scheduled staggering provides for a coherent effort by the investigative and engineering team enabling a higher quality assessment of the problem and more accurate identification of a suitable remedial response action. The aggregation of the PSCs and the assignment of phasing priorities was based on the eight criteria stated above. The specific aggregation issues are discussed in the accompanying OU Narratives. The assignment of priorities was driven by the actual or potential threat posed by the aggregate known or suspected contamination.

The Oil and Solvent Disposal Pits Area, OU#1, is situated on a topographical high and contains halogenated hydrocarbons and petroleum hydrocarbons. The area drains into a St. Johns River estuary and adjoining wetlands and abuts a military housing area. The potential environmental and human health threat is sufficient to commence IR program RI/FS work at this OU first.

The Wastewater Treatment Area, OU#2, has a known, large areal, heavy metal and potential halogenated hydrocarbon contamination problem. Due to the proximity of the OU to the St. Johns River, there is a sufficient potential threat that makes this OU a number two priority. Additionally, PSCs 41, 42, and 43 are impacted by a RCRA closure permit.

Although the Industrial Area, OU#3, has known halogenated hydrocarbon contamination, the extent of the problem is unknown. Because the OU abuts the St. Johns River, there is concern about an environmental threat. This large areal industrial development affects a complex investigation. Due to the anticipated time and mission sensitivity of this area, IR efforts at this OU were scheduled to commence last.

NAS Jacksonville's NIRP Plan details the overall and specific management of addressing IR remedial activities. Due to the large number of PSCs, economies of scale dictate the singular establishment of plan methodologies and protocols. Volume 1, Organization and Planning, addresses the: organization of the Plan, data and project management functions, specific IR Program sub-plans: Health and Safety Plan and Community Relations Plan; Site and PSC background information, OU PSC aggregation process, and activity/OU priority formulation. Volume 2 contains the Remedial Response Decision System (RRDS). Volume 3 will contain Site Screening documentation. Volume 4 contains the basic methodologies and protocols for conducting field investigations, conducting field sampling efforts - Basic Field Sampling Plan (BFSP), and performing field and laboratory analytical activities - Quality Assurance Program Plan (QAPP); the BFSP and the QAPP are combined into one document called the Basic Sampling and Analysis Plan (BSAP). The specific OU RI/FS Work Plans are contained in Volume 5-OU#1, 6-OU#2, and 7-OU#3. Volumes 5, 6, and 7 are in place. Once the basic set of IR/CERCLA work protocols and methodologies contained in the OU#1 specific work plan had concurrence, the development of additional work plans was commenced.

The Navy's Installation Restoration Program Plan for NAS Jacksonville is available for viewing in the information repository at the Webb Wesconnett Branch Library of the City of Jacksonville Public Libraries located at 6887 103rd Street, Jacksonville, Florida 32212-6897.

4. SITE PSCs SMP EXCLUSIONS

The PSCs identified in Attachment A to the FFA as Site Screening PSCs are not included nor otherwise addressed herein, except in this section. The Navy shall use the Remedial Response Decision System to determine future response activities at the Site Screening PSCs. See NIRP Plan Volume 2 for additional information. If RI/FS activities are recommended, the Navy shall create additional OUs based on the criteria presented to address the contamination and risk issues identified by the RRDS implementation. Additional OUs shall be incorporated into the SMP.

The Petroleum PSC Group, consisting of PSCs 7, 19, and 33, have been transferred to the Underground Storage Tank Program as provided for in the FFA for response activities detailed in Florida Administrative Code 62-770 and are not included in the SMP or the Navy's IR Program.

5. OPERATIONAL UNIT SCHEDULING

Implementation of an OU's work plan is based on program, resource and funding priorities. The Navy did not have sufficient funds to fully implement the large RI/FS Work Plan for OU#2 and OU#3 during previous federal fiscal cycles. Since the Navy could not commit to implementing these work plans all at once, they were implemented as funds were made available.

The Navy does have sufficient funds to pursue smaller work efforts. Accordingly, the Navy has implemented focused RI/FS and EE/CA efforts for specific source control to halt contamination discharge into groundwater.

6. 1997-1998 GENERAL SCHEDULE

The following is a list of the general deliverables that are associated with the overall management of the site and their transmittal target and due dates.

<u>1997 GENERAL DELIVERABLES</u>	<u>TARGET DATES</u>
1st Qtr. Quarterly Progress Report	30 April 1997
2nd Qtr. Quarterly Progress Report	30 July 1997
3rd Qtr. Quarterly Progress Report	30 October 1997
4th Qtr. Quarterly Progress Report	30 January 1998

<u>PRIMARY DELIVERABLES</u>	<u>DUE DATES</u>
1998 Site Management Plan	1 September 1997

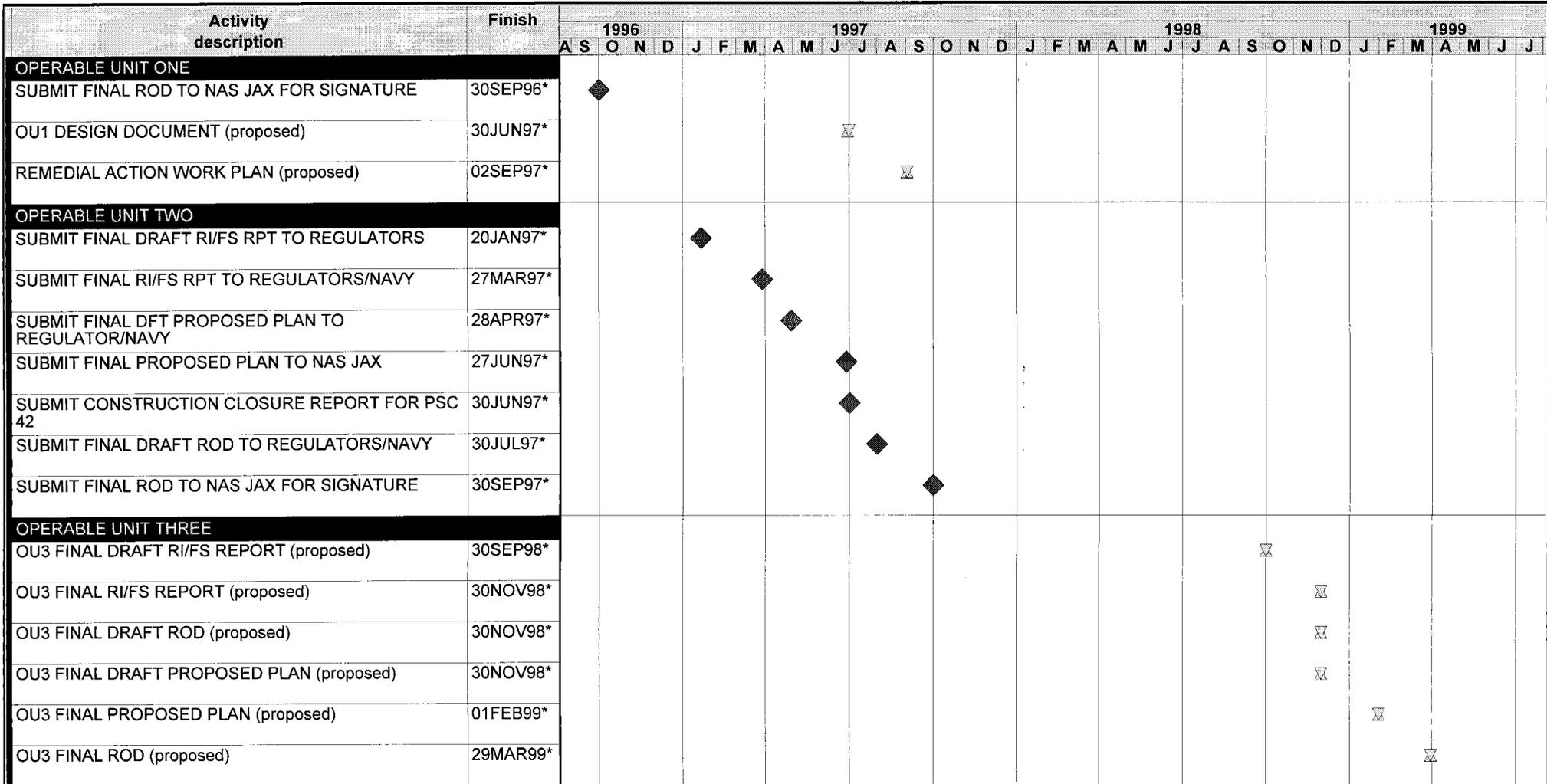
<u>1998 GENERAL DELIVERABLES</u>	<u>TARGET DATES</u>
1st Qtr. Quarterly Progress Report	30 April 1998
2nd Qtr. Quarterly Progress Report	30 July 1998
3rd Qtr. Quarterly Progress Report	30 October 1998
4th Qtr. Quarterly Progress Report	30 January 1999

<u>PRIMARY DELIVERABLES</u>	<u>DUE DATES</u>
1999 Site Management Plan	1 September 1998

7. OPERATIONAL UNIT NARRATIVES

The following are narratives describing the contents of each OU. A description of the physical location and terrain is furnished. What is known about the contamination and an assessment of

its present threat is included. The events for the upcoming year are listed and the due dates of primary documents and the target dates of secondary documents are provided. A schedule of the projected submittal dates for primary documents only is included for the first outlying year. For the long term view, a list of projected schedule program tasks through the finalization of the Record of Decision is included.



Project Start 01APR95
 Project Finish 29MAR99
 Data Date 19AUG96
 Plot Date 30AUG96



SMPO

ABB E.S., INC. / NAVY CLEAN
 NAS JACKSONVILLE
 SITE MANAGEMENT PLAN

Sheet 1 of 1

A. RI/FS Operable Unit #1: The Oil and Solvent Disposal Area

Description:

An area of approximately 40 acres located in the south central part of the Site. The topology is open and relatively flat. The unit is located within a drainage ditch network. In an included area approximately 150 feet square, PCB transformers were stored. This unit is comprised of PSC 26 - The Old Main Registered Disposal Area and PSC 27 - Ex-PCB Transformer Storage Area. Previous studies have identified groundwater and subsurface soils contaminated with industrial solvents, heavy metals, PCBs and petroleum hydrocarbons. The unit has experienced interim remedial measures that have removed the direct exposure threat to the public's health or the environment.

Work to Date:

The basic work plan for the site has been developed. The RI/FS Work Plan for this OU has been developed, accepted, and implemented. The required supplemental field work was completed in July 1994. The initial field work validated the location of a large concentration (+/- 3%) of petroleum hydrocarbons contaminated with PCBs. A Focused Feasibility Study was written for the LNAPL passive recovery system was installed and monitoring is ongoing. The RI/FS was written, submitted, and accepted. The Proposed Plan and ROD have been written; the Proposed Plan was submitted and the ROD will be ready for signature in September 1996.

1997 Primary Deliverables

OU#1 Remedial Design Document

Target Date

30 June 1997

OU#1 Remedial Action Work Plan

2 September 1997

1997 Secondary Deliverables

-- NONE --

Target Date

-- NONE --

Projected 1998 Primary Deliverables

-- NONE --

Projected Target Date

-- NONE --

Projected 1998 Secondary Deliverables

-- NONE --

Projected Target Date

-- NONE --

B. RI/FS Operable Unit # 2: The Wastewater Treatment Area

Description:

An area on the Northwest end of the air station comprising six PSCs: 2 - Former Fire Fighting Training Area, 3 - Former Sludge Disposal Area, 4 - Pine Tree Planting Area, 41 - Former Domestic Sludge Drying Beds, 42 - Former Polishing Pond, and 43 - Former Industrial Sludge Drying Beds. The area is the location of the station's domestic and industrial wastewater plants, is bounded on the north by the St. Johns River, and, despite its relatively flat topography, is a hydrologic high. The groundwater underlying the area has known contamination consisting of industrial solvents and heavy metals. No direct exposure threat is presently known to exist to public health or the environment.

Work to Date:

The RI/FS Work Plan was finalized January 1993. Due to funding constraints, the Work Plan was not implemented in its entirety. A focused effort was implemented for source mitigation for the areas identified as PSC 2, 41, and 43. Similar focused efforts for PSC 3 and 42 commenced in January 1994. The RI/FS work plan has now been implemented and the RI/FS is being prepared. The design for PSC 42 is complete and is being implemented with a completion date of November 1997.

1997 Primary Deliverables

Target Dates

OU#2 RI/FS Final Draft Report	20 January 1997
[Agency Review Comments]	30 Days after receipt of document
OU#2 RI/FS Final Report	30 Days after receipt of review comments
OU#2 RI/FS Final Draft Proposed Plan	28 April 1997
[Agency Review Comments]	30 days after receipt of document
OU#2 RI/FS Final Proposed Plan	27 June 1997
OU#2 Final Draft Record of Decision	30 July 1997
[Agency Review Comments]	30 days after receipt of document
OU#2 Final ROD	30 days after receipt of review comments
OU#2 RI/FS Signed Record of Decision	30 September 1997
Construction Closure Report for PSC 42	30 June 1997

1997 Secondary Deliverables

Target Dates

OU#2 RI/FS Final Draft BLRA	20 January 1997
-----------------------------	-----------------

[Agency Review Comments]
OU#2 RI/FS Final BLRA

30 days after receipt of document
30 days after receipt of review comments

Projected 1998 Primary Deliverables

-- NONE --

Projected Target Dates

-- NONE --

Projected 1998 Secondary Deliverables

-- NONE --

Projected Target Dates

-- NONE --

C. RI/FS Operable Unit #3: The Industrial Area

Description:

An area on the east side of the Air Station comprising six PSCs: 11 - Hangar 101, 12 - Old Test Cell Building 101K, 13 - Former Radium Paint Waste Disposal Pit, 14 - Battery Shop, 15 - Former Solvent and Paint Sludge Disposal Area, 48 - Base Dry Cleaners. The area is flat and adjacent to the St. Johns River. Located within this industrial complex is the Naval Aviation Depot and several helicopter squadrons. Previous studies have identified groundwater and subsurface soils contaminated with industrial solvents and heavy metals. No direct exposure threat is presently known to exist to public health or the environment.

Work to Date:

Specific scoping field work requirements were identified at a meeting held in April 1993 at NADEP on NAS Jacksonville. Scoping field work preparatory to the development of a site workplan was performed between July and September 1993. The RI/FS Work Plan has been approved and is being implemented in a phased approach. Phase 1 is investigating eight hot spots to determine if they pose an immediate risk to human health and the environment. Phase 1 is being carried out by the use of EE/CAs. Phase 2 will be implemented at a later time to address the remainder of the OU. Focused efforts at Buildings 106 and 780 were implemented for source mitigation. The design is complete and being implemented with a completion date of May 1998.

1997 Primary Deliverables

-- NONE --

Target Dates

-- NONE --

1997 Secondary Deliverables

-- NONE --

Target Dates

-- NONE --

Projected 1998 Primary Deliverables

Final Draft RI/FS Report
[Agency Review Comments]
Final RI Report

Projected Target Dates

30 September 1998
30 Days after receipt of document
30 days after receipt of review comments

Final Draft Proposed Plan
[Agency Review Comments]
Final PP Report

30 November 1998
30 Days after receipt of document
30 Days after receipt of review comments

Final RI/FS Report (RI/FS)

30 November 1998

Projected 1998 Secondary Deliverables

Draft BLRA Report (RI/FS)
[Agency Review Comments]
Draft Final BLRA Report

Projected Due Dates

30 September 1998
30 Days after receipt of document
30 Days after receipt of review comments