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**DRAFT FINAL 1995 SITE MANAGEMENT PLAN (SMR)
OF THE INSTALLATION RESTORATION PROGRAM
FOR THE
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA**

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NAS PENSACOLA
5090.3a

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Page 10; Paragraph 5.0 OPERABLE UNIT SCHEDULING

Add the following: "The final comment responses to be submitted with each draft final primary document, shall be the product of consensus of all Parties to the maximum extent practicable. In order to achieve this goal, the Navy shall notify the Parties in writing of any difficulties which it foresees in adequately addressing any agency's comments as soon as possible, and no later than 60 days from receipt of all regulatory **comments.**"

Page 13; Delete the following: "Letter dated January 13, 1994 from US EPA invoked informal dispute resolution in accordance with VIII.I of the Federal Facilities Agreement. A schedule shall be submitted when the informal dispute is **resolved.**" Add the following schedule as page 13a.

Page 26 and 27; Substitute the following page 26 and 27 dated 17 March 1995. (**An** error was discovered in the schedule indicating the Draft PP Report being submitted prior to the Draft final RI Report.) Please adjust the 1995 Primary Deliverables summary on page 25 accordingly.

Table of Contents

1.0	THE BASIS FOR A SITE MANAGEMENT PLAN	1
2.0	OVERALL MANAGEMENT APPROACH	1
3.0	RATIONALE FOR OPERABLE UNIT (OU) GROUPINGS	8
4.0	EXCLUSIONS	9
5.0	OPERABLE UNIT SCHEDULING	10
6.0	OPERABLE UNIT NARRATIVES	10

List of Tables

Table 1	Identification of PSCs Requiring Action	3
Table 2	Category 2: Operable Unit 1 Schedule	16
Table 3	Category 2: Operable Unit 3 Schedule	19
Table 4	Category 2: Operable Unit 11 Schedule	23
Table 5	Category 2: Operable Unit 12 Schedule	26
Table 6	Category 3: Operable Unit 2 Schedule	33
Table 7	Category 4: Site 41 Schedule	36
Table 8	Category 4: Sites 40 & 42 Schedule	41
Table 9	Category 5: Operable Unit 6 Schedule	46
Table 10	Category 5: Screening Sites 10 & 14 Schedule	49
Table 11	Category 5: Operable Unit 8 Schedule	51
Table 12	Category 6: (15.17.18.24. 28) Schedule	56
Table 13	Category 7: (4.5.6.7.8.16. 22) Schedule	60
Table 14	Category 8: Screening Site 36 Schedule	63
Table 15	Category 9: Screening Site 43 Schedule	65

1.0 THE BASIS FOR A SITE MANAGEMENT PLAN

The requirement for the Site Management Plan (SMP) is identified in the Federal Facilities Agreement (FFA) signed by the United States Environmental Protection Agency (USEPA), the State of Florida, Department of Environmental Regulation (FDER), now Florida Department of Environmental Protection (FDEP), and the Department of the Navy (DoN). The FFA was entered into based on the requirement for an interagency agreement identified in the Superfund Amendments and Reauthorization Act (SARA), Section **120 (e)(2)**. The intent of the plan is to provide: (1) an action deemed necessary to mitigate any immediate threat to human health or the environment, (2) a list of Operable Units (OUs) subject to the terms of the FFA, (3) a prioritization and rationale for the OUs at NAS Pensacola, (4) activities and schedules for work planned the current year, including the submittal schedule for both primary and secondary documents, and (5) work projections for subsequent calendar years. With the FFA being signed on 23 October 1990, and having a declared effective date of 1 November 1990, this is the fifth annual update of the SMP.

2.0 OVERALL MANAGEMENT APPROACH

Three major investigations have been conducted at NAS Pensacola. The DoN developed the Navy Assessment and Control of Installation Pollutants (NACIP) Program to identify and control environmental contamination from past use and disposal of hazardous substances at Navy and Marine Corps Installations. The NACIP Program is now **part** of the Navy's Installation Restoration Program (NIRP), and is similar to the USEPA "Superfund" Program authorized by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980. The three major investigation activities performed at NAS Pensacola under the **NIRP** or Superfund Programs are the following: (1) Initial Assessment Study (IAS) or Preliminary Assessment (PA), (2) Verification Study (**VS**) or Site Inspection (**SI**), (3) and the Confirmation Study (CS) or Extended Site Inspection (ESI). The IAS (1982-1983) **was** conducted by the Naval Energy and Environmental Support Activity (NEESA) and identified and assessed 29 Potential Sources of Contamination (PSCs) at NAS Pensacola which could **pose** a potential threat

to human health or the environment **as** a result of contamination from past Naval operations. The VS (1984) and the CS (1985-1986) were conducted by Geraghty & Miller, Inc. to confirm or deny the presence of contamination **at** the **PSCs** identified in the **IAS**, **as** well **as** possibly locate additional PSCs. If contamination was detected, the magnitude and the extent of contamination would have been evaluated to allow for the recommendation of future remedial response action at these PSCs.

In addition to the NIRP/CERCLA program, **NAS** Pensacola has other active regulatory programs. A Florida Resource Conservation and Recovery Act (RCRA) permit was issued to NAS Pensacola by the FDER. Concurrently, a RCRA Hazardous and Solid Waste Amendments (HSWA) permit was issued to the installation by USEPA on July 1988. A RCRA Facility Assessment (RFA) was included in the USEPA issued permit, and additional PSCs were located. An Underground Storage Tank (UST) Program is currently investigating multiple **tank** sites as provided by the Florida Administrative Code, Section 17-770. These are examples of some but not all the site specific Applicable or Relevant and Appropriate Requirements (ARAR) that are in progress at NAS Pensacola.

A total of 43 PSCs have been identified at NAS Pensacola. Of the **43** PSCs, seventeen (17) PSCs (**see** Table 1) are undergoing screening and twenty (**20**) PSCs (**see** Table 1) require a RI/FS as identified in the FFA. This includes updating PSC **35** to RI/FS status. The seventeen (17) "screening" PSCs require further investigation to resolve present data quality objective inadequacies, data gaps, or because of an initial determination that No Further Remedial Action Planned (NFRAP). These seventeen (17) PSCs undergoing screening are tracked in the SMP with non enforceable schedules for planning purposes only. Screening PSCs which are not associated with an OU at this time and do not have a description are PSCs **4**, **5**, **6**, **7**, and **16** in Category 7. PSC **43** has been recommended by the Tier I Partnering Team for screening PSC status. Category 9 will be defined as screening PSC **43**, and a schedule is provided for

Table 1 Identification of PSCs Requiring Action NAS Pensacola					
Category Number	OU Number	PSC	PSC Description	FFA Requires	Type of Contamination
1	—	13	Magazine Point Rubble Disposal	Screen	Rubble, Metal, Concrete
	10	32	IWTP Sludge Drying Beds	RI/FS	FO06 HW
	10	33	WWTP Ponds	RI/FS	FO06 HW wood, bricks
	10	35	Miscellaneous IWTP SWMUs	RI/FS	Unknown
2	1	1	Sanitary Landfill	RI/FS	Solvents, PCP, Plating Soln, oil, paints, mercury, and asbestos
	3	2	Waterfront Sediments	RI/FS	Solvents, cyanide, metals
	11	38	Bldg. 71 Sewer Line TL 073/C southwest to the end	RI/FS	Paint stripper, ketones, TCE, Industrial waste
	12	39	Oak Grove Campground Site	RI/FS	Debris, POL, broken clay, coal, cleaning solutions
3	2	11	N. Chevalier Disposal Field	RI/FS	Industrial waste, oils, HW
	—	12	Scrap Bins	Screen	Wet garage material
	—	25	Radium Spill Site	Screen	Radioactive waste
	2	26	Supply Department Outside Storage	RI/FS	Industrial waste, oils
	2	27	Radium Dial Shop Sewer	RI/FS	Radium, phosphorus
	2	30	Bldg. 649 & 755, Bldg. 648 (previously PSC 31) Sewer Line TL 045/A north to IWTP	RI/FS	Metals, acids, caustic, degreasers, chromic soln, cyanide, paint, pesticides, paint thinner end sludge, Industrial waste
4	15	40	Bayou Grande Area	RI/FS	Unknown
	16	41	NASP Wetlands	RI/FS	Unknown
	17	42	Pensacola Bay	RI/FS	Unknown

Table 1
Identification of PSCs Requiring Action
NAS Pensacola

Category Number	OU Number	PSC	PSC Description	FFA Requires	Typo of Contamination
5	8	3	Crash Crew Training	R/FS	Loaded gas
	6	9	Navy Yard Disposal	R/FS	Trash and refuse
	—	10	Commodores Pond	Screen	Underwater storage of oak timbers
	—	14	Dredge Spoil Fill	Screen	Dredge
	6	29	Soil South of Bldg. 3460	R/FS	Slimy black substance (unknown)
	—	34	Solvent North of Bldg. 3557	Screen	Solvent detergent
6	4	15	Pesticide Rinsate Disposal Area	R/FS	Organic pesticide
	14	17	Transformer Storage Yard	R/FS	Dielectric oils, PCBs
	—	18	PCB Spill Area	Screen	Transformer oil, PCBs
	—	24	DDT Mixing Area	Screen	DDT w/diesel fuel
	—	28	Transformer Accident	Screen	Transformer oil
7	—	4	Army Rubble Disposal	Screen	Rubble, timber, pipes, other wastes
	—	5	Borrow Pit	Screen	Unknown
	—	6	Fort Redoubt Rubble Disposal	Screen	Concrete, asphalt rubble, wood, metal, plastics, and other debris
	—	7	Firefighting School	Screen	POLS
	—	8	Rifle Range Disposal	Screen	Solid waste, paper
	—	16	Brush Disposal Area	Screen	Pruning and tree trimming refuse
	13	22	Refueler Repair Shop	R/FS	Aviation gas w/lead, JP fuel
8	—	36	IWTP Sewer Line	Screen	Industrial waste
9	—	43	Buried Drums	Screen	Unknown

information. Each OU narrative identifies and briefly describes all PSCs to which the accompanying OU specific schedules applies. The schedules **are** enforceable, however, only for those PSCs for which **an RI/FS** has been required.

Schedules are in place for all Seventeen (17) screening PSCs in the **IR** program, and will track the investigation progress providing updates to the Remedial Project Managers (RPMs). Each screening PSC will remain a screening PSC until such time as defensible and validated Level III or IV data becomes available. *Once* available, the Navy will utilize such data to either prepare individual PSC Site Characterization Reports to support a NFRAP determination with USEPA/FDEP concurrence or immediately reclassify the PSC to RI/FS status. When any screening PSC is reclassified to RI/FS status, an enforceable schedule with due dates will be submitted at the next Tier I Partnering meeting. The parties will either reach agreement on the schedule at that meeting or will set a time frame for agreeing on that schedule. For **PSCs** currently listed as RI sites, if upon review of the RI report, the Parties agree that no remedial action is needed, then a draft Proposed Plan (PP) will be submitted in place of the **FS**. The Parties should make this decision as early in the process **as** possible and revise the appropriate enforceable schedules. During the investigation, if a removal action is deemed necessary or desirable, the DoN will provide a schedule indicating impacts to the current enforceable schedule for the consideration by the Tier I Partnering Team.

The Community Relations Plan (CRP) is being modified based on current changes such **as** removal actions, identification of new PSCs, and changes in site status. **Based** on the letter received from USEPA dated 13 March 1992, only **FDEP** concurrence to modify the CRP is **needed**. The CRP will be **modified** during **FY95**.

Specific changes have been made to facilitate the investigation at OUs 2 and 3. All Category 3 RI/FS PSCs (11, 26, 27, 30) have been combined into OU 2 due to their geographic proximity and common potential remediation. (Note: PSC 27 was originally OU-7 and PSC **30** was

originally **OU-5**.) All Category 3 Screening PSCs (**12, 25**) are associated with OU 2. (Note: PSC 25 was originally associated with **OU-7**.) OU 9; PSC 31, "Soil North of Building 648" has been combined with Category 3, OU 2; PSC 30, "Building **649 and 755**" due to the proximity and similar contaminants. Category 2; OU 7; **PSC 27**, "Radium Dial Shop Sewer" and Screening PSC 25; "Radium Spill Site" have been moved to Category 3 so they can be reported together with OU 2. This combination was necessary to allow study of contaminant migration across site boundaries. Category 7, OU 18, **PSC 26**, "Supply Department Outside Storage", and Category 7, Screening PSC 12, "Scrap Bins", have been moved to Category 3 due to their geographic proximity to Category 3 PSCs. Category 3, OU 3, **PSC 2**, "Waterfront Sediments", and Category 3, OU 11, PSC 38, "Bldg. 71 Sewer Line **TL 073/C** Southwest to End", have been moved to Category 2 to expedite completion of the investigation.

The five (**5**) remaining PSCs that will not proceed in the IR Program are PSCs 19, 20, 21, 23, and 37. These PSCs were transferred to the UST Program and are not included or tracked in this SMP. The State of Florida has a regulated process for the remediation of petroleum contaminated sites.

The SMP provides event management planning. Included in the SMP is a description of NAS Pensacola's PSC program arrangement into remedial activity categories and OUs. The SMP discusses and identifies the management and deliverables of those PSCs undergoing the **RI/FS** Phase I and Phase II for 1995 such as field work, data presentations, and Sampling and Analysis Plans. This SMP also projects the management and deliverables for outlying years such as Baseline Risk Assessment Report (BRA), Feasibility Study (**FS**), the **Record of Decision (ROD)**, and proposed Remedial Action Plan (RAP). The projected scheduling of the **IR** program tasks is shown through the published public notice and the signing of the ROD. Detailed within this SMP are the program events to take place in the upcoming year (1995), as well as the delivery due dates for Draft and Draft/Final primary documents and target dates for secondary program documents.

The CERCLA Remedial Investigation/Feasibility Study (RI/FS) process is tailored to allow prioritization of **PSCs** according to potential threat to human **health** and the environment. The process initially focuses on source identification and delineation of soil, sediment, groundwater and surface water contamination. Data is continually assessed and **PSCs** evaluated to determine if contamination is present, to what extent, and what further action is needed. Should a threat to human health and or the environment exist, the process is responsive to provide time critical removal of contaminants from a **PSC**. If an initial data evaluation indicates groundwater and/or surface water to be an immediate threat to human health or the environment, interim actions may be performed to mitigate further transport from the **PSC**. If groundwater or surface water contamination is not judged to be an immediate threat, delineation may **be** performed on a larger scale by viewing local aquifer and surface water systems as an individual OU(s) which may be impacted by several **PSCs** simultaneously.

Innovative ways are continually sought to reduce lengthy interim report development and review process. Methods such as offering data presentations to regulatory agencies allowing continual data assessment and rapid decision-making are good examples. These data presentations are in response to **a** need to eliminate the need for formal interim data reports and thereby reduce the time required to reach critical decision points for each **PSC**. Specifically, the data gaps and the information needed to fill those gaps shall be identified by evaluating the data itself rather than by evaluating a formal data report. These data presentations to concerned agencies offer effective communication and a reduced schedule to reach **a** ROD. A formal **report** shall be prepared once the nature and extent of contamination has been adequately delineated for the purposes of performing a BRA and selecting a Remedial Action. Decisions concerning data assessment and actions to be taken **can** be made during **RPM** meetings. These meetings will provide a forum for discussion of investigative results and proposed actions. The verbal decisions may be final with no reporting and review time required,

This approach synthesizes prioritization of PSCs with a realistic view of dynamic environmental systems. Areas more easily defined **can** be identified and treated, thereby removing potential sources of contamination in a timely manner. Flowing groundwater and surface water systems are naturally continuous without regard for PSC boundaries, and may be investigated and treated as a single system.

The RI/FS process is responsive to individual PSC characteristics and technical requirements, and attempts to minimize lengthy delays between field actions. This process provides the Navy flexibility to address PSCs, OUs, or a set of PSCs/OUs separately or as a whole. In addition, specific matrices (i.e., soil/sediment, groundwater, surface water, or air) of individual **PSCs**, or OUs, can be treated separately if necessary, or a single matrix may **be** investigated at one time across the entire facility.

As agreed upon in the FFA, the DoN shall update the **SMP** yearly. Updates (due September 1 of each year) will reflect changes in project priorities, changes in scheduling, and the addition or deletion of PSCs due to the site condition or program accomplishments with the continued regulatory agency and the Technical Review Committee (TRC) review. Dates in the **SMP** beyond 31 December 1995 should be considered draft as they would be updated in the next annual revision.

3.0 RATIONALE FOR OPERABLE UNIT (OU) GROUPINGS

To facilitate implementation of the NAS Pensacola RI/FS program, the twenty (20) **PSCs** requiring RI/FS have been clustered into fourteen (14) OUs. The scheduled work at these OUs is being prioritized based on relative potential threat, schedule optimization, and **task** management. The category priorities were originally formulated in the Site Management Plan, at the June 1992 RPM meeting for Category 1-4 and in **August** 1992 for Category 5-7 for the yearly SMP submittal. **As** a result of the 1993 Base Realignment and Closure process, category

priorities were modified and are reflected in the following operable unit narratives. The criteria used to generate the RI/FS OUs was as follows:

- Geographic proximity of **PSCs**
- Similar contamination types
- Similar aquifer contamination zones
- Similar potential investigation methods
- Potential scope and complexity of the investigation
- Mission impact of remedial activities
- Regulatory concerns
- Similarity of potential remedial actions
- Potential for human exposure/contact
- Suspected mobility of potential contaminants
- Potential for off-site migration and exposure
- Relative threat to groundwater (e.g., suspected date, and volume of release)

These OUs may be re-defined as more data is collected and evaluated. Ultimately, an OU will consist of PSCs and matrices which require similar remedial efforts, or potential for human exposure/contact, or for earlier remediation.

Due to the large number of PSCs on **NAS** Pensacola, the number of **PSCs** in each OU, and the aggregate complexity of the contamination problem at each **OU**, the commencement of work at all OUs concurrently is not feasible. The schedule has been staggered to relieve these and other problems such as regulatory staffing, monetary resources, and contractor resources.

4.0 EXCLUSIONS

The seventeen (17) PSCs undergoing screening activities are not included nor otherwise addressed hereafter in the **SMP**, unless they have been grouped with OUs for investigative and reporting purposes. After screening the seventeen (17) **PSCs**, the RPMs will determine future

response activities. If RI/FS activities are recommended, the DoN shall incorporate these PSCs into existing OUs prior to the submittal of the RI report, or designate them as new OUs following the criteria listed in Section 3. When all parties concurrence has been established, the future additional OUs shall become part of the SMP, and a revision to the SMP shall be made in accordance with Section 2.0.

5.0 OPERABLE UNIT SCHEDULING

OU schedules are based on the issuance of draft primary and secondary submittals. The schedule is in accordance with the FFA and reflects USEPA and FDEP input allowing for review periods based on their resources. The SMP assumes no dispute resolutions or delays due to holidays, vacations or weekends. The schedule calendar is a Julian calendar without weekends, holidays, or other non-work days. Quarterly reports will be submitted as required in the FFA. All work plans have been conditionally approved by the RPMs with the exception of OUs 15, 16, and 17 and screening Site 43. The schedules reflect only those tasks that has not been accomplished and does not document past performance by any party. The conditionally approved work plans (primary documents) are dependant upon approval of the Comprehensive Sampling and Analysis Plan and site specific Sampling and Analysis Plans (secondary documents).

6.0 OPERABLE UNIT NARRATIVES

The following narratives describe the contents of each OU. A brief description of each OU and what is known about its contamination is included. The events for the upcoming year are listed, the due dates of primary documents, and the target dates of secondary documents are provided. A schedule, for primary documents only, is included for the first outlying year. The upcoming and outlying year are on one time line schedule for each Category. For the long term view, a list of projected schedule program tasks through signing of the ROD is identified. The following schedules reflect the OUs and the tasks planned.

RI/FS Category 1: OU 10

PSC 32: IWTP Sludge Drying Beds

PSC 33: WWTP Ponds

PSC 35: Miscellaneous IWTP Solid Waste Management Units (SWMUs)

PSC 13: Magazine Point Rubble Disposal (Screening PSC)

*PSC 32, Industrial Wastewater Treatment Plant (IWTP) Sludge **Drying** Beds* — These contiguous units operated with the IWTP from **1971** to **1984**. These units received listed hazardous waste sludges (F006) from the RCRA surface impoundment (IWTP Surge Pond), and, **as** a result, underwent RCRA closure in 1989. Contents of the drying beds (remaining sludge and leachate drainage system) and an underlying layer of sand were removed to about six feet below ground surface. Material removed was disposed of as a hazardous waste. The **PSC** was then backfilled with clean sand and capped with high density asphalt. The site's groundwater is monitored by three (3) monitoring wells and the surrounding **HSWA** permit groundwater monitoring system. The **PSC** will continue to be monitored under the **HSWA** permit **as** a part of the IR Program.

PSC 33, Wastewater Treatment Pond (WWTP) — These surface impoundments consist of the domestic polishing pond, phenol stabilization pond and industrial surge pond. **In 1987**, the USEPA RCRA Compliance Branch determined the polishing and stabilization ponds received listed F006 hazardous waste from the surge pond. The ponds were taken out-of-service. In 1988-1989, the ponds underwent RCRA permitted "clean closures". The sediment in the ponds was removed and disposed of **as** hazardous waste. No further formal monitoring of these surface impoundments is required, but they are in range of the **HSWA** permit monitoring system. The industrial surge pond was taken out-of-service and underwent closure in **1989**. The industrial surge pond is suspected of being the prime contributor to the IWTP groundwater contamination. The surge pond was removed to the groundwater table. The groundwater table is approximately six (6) feet below ground surface. Removed material **was** disposed of **as** a hazardous waste.

The surge pond PSC will continue to be monitored under the **HSWA** permit as part of the IR program.

PSC 35, Miscellaneous IWTP SWMUs — In addition to **PSC 32** and **33** units, other units in the IWTP may receive hazardous waste or constituents. These **will** be investigated for possible releases. Most of these units are above ground **tanks**. These **tanks** require only visual inspection for **leaks**, cracks, or other evidence of release. **Also** included are underground oil/sludge storage **tanks** and underground piping which are appurtenances to **SWMUs**. The following units are included as IWTP area **SWMUs**:

- e Industrial Grit Chamber
- e Primary Clarifier
- e Oil/Water Separator
- Oil Storage Tanks
- e Sludge Thickener
- Belt Filter Presses
- e Parallel Flocculators
- e Aeration (activated sludge) Tank
- Parallel Final Clarifiers
- e Aerobic Sludge Digester
- e Contact Chlorinator
- e Ancillary Piping, Pumps, Junction Boxes, etc.

PSC 13, Magazine Point Rubble Disposal (Screening PSC) — **PSC 13** will be investigated and reported on concurrently with this OU. This **PSC** is within the same area as **PSC 32** and **33**, and was found after the construction in 1971 and upgrading of the existing WWTP to provide tertiary treatment of industrial wastes and secondary treatment of the domestic wastes by **NAS** Pensacola.

These **PSCs** were grouped together due to the following: geographic proximity of PSCs, similar contamination types, and similar groundwater flow. Prioritization of these PSCs **was** due to the suspected magnitude **and** toxicity of contamination, **the potential** for off-site migration of contaminants via several pathways, **and** the potential for **human exposure**.

Letter dated January **13, 1994** from **USEPA** invoked informal dispute resolution in accordance with VIII.I of the Federal Facilities Agreement. A schedule shall be submitted when the informal dispute is resolved.

Category 1: Operable Unit 10 (13,32,33,35) Schedule			
Tasks	Start Date	End Date	Duration (days)
CATEGORY I: OU-10 (13,32,33,35)	3/17/95	8/6/96	509.00d
FEASIBILITY STUDY	3/17/95	8/21/95	158.00d
Prepare Draft/Final	3/17/95	6/14/95	90.00d
Submit Draft/Final w/comments	6/15/95	6/21/95	7.00d
Agency Review	6/22/95	8/20/95	60.00d
FS Finalized	8/21/95	8/21/95	1.00d
PROPOSED PLAN (PP)	3/17/95	5/12/96	423.00d
Prepare PP	3/17/95	7/4/95	110.00d
Submit Draft PP	7/5/95	7/11/95	7.00d
Agency Review	7/12/95	9/9/95	60.00d
Navy rcvs comments	9/10/95	9/16/95	7.00d
Prepare Draft/Final	9/17/95	12/15/95	90.00d
Submit Draft/Final w/comments	12/16/95	12/22/95	7.00d
Agency Review	12/23/95	2/5/96	45.00d
PP Finalized	2/6/96	2/6/96	1.00d
Prepare Public Notice	2/7/96	2/26/96	20.00d
Public Comment Period	2/27/96	4/11/96	45.00d
Public Meeting	4/12/96	4/12/96	1.00d
Responsiveness Summary	4/13/96	5/12/96	30.00d
RECORD OF DECISION (ROD)	12/16/95	8/6/96	235.00d
Prepare Draft ROD	12/16/95	1/29/96	45.00d
Submit Draft ROD	1/30/96	2/5/96	7.00d
Agency Review	2/6/96	4/5/96	60.00d
Navy rcvs comments	4/6/96	4/12/96	7.00d
Prepare Draft/Final	4/13/96	6/11/96	60.00d
Submit Draft/Final w/comments	6/12/96	6/18/96	7.00d
Agency Review	6/19/96	8/2/96	45.00d
Rod Finalized	8/3/96	8/3/96	1.00d
ROD Signature	8/4/96	8/6/96	3.00d

RI/FS Category 2: OU 1

PSC 1: Sanitary Landfill

This large **SWMU** received both sanitary and industrial waste over a 20 year period. These waste include solvents, PCBs, plating solutions, pesticides, oils, paints, mercury, medical waste, and pressurized cylinders. Reportedly, asbestos is **also buried** here. Twelve **(12)** shallow and three **(3)** deep monitoring well are located in the site vicinity. Samples taken from monitoring well indicate groundwater contamination exists in both the shallow and deep layer of the uppermost aquifer. These aquifers are separated by a locally semi-confining clay layer. Shallow groundwater moves north and **east** and discharges into the Bayou Grande. The flow direction in the underlying aquifer is southward. Two **(2)** deep wells used **as** occasional potable water supply tap into the deep aquifer. These wells are southwest within one (1) mile radius of the site. Neither of these wells are known to be contaminated. **PSC 1** was identified prior to preparation of the IAS report in 1983. The **PSC** was given a very high investigative priority relative to other PSCs identified at this time. This priority **was** due to the suspected magnitude and toxicity of contamination, the potential for off-site migration of contaminations via several pathways, and the potential for human exposure.

<u>1995 Primary Deliverables</u>	<u>Due Date</u>
Draft/Final RI Report	27 Jul 95
Draft FS Report	30 Jul 95
Final RI Report	16 Sep 95

<u>1995 Secondary Deliverables</u>	<u>Target Date</u>
Quarterly Reports	30 Apr, 31 Jul, 31 Oct, 31 Jan

<u>Projected Deliverables</u>	<u>Projected Date</u>
Draft/Final FS Report (P)	30 Jan 96
Draft PP Report (P)	30 Jan 96
Final FS Report (P)	20 Apr 96
Draft/Final PP Report (P)	01 Aug 96
Draft ROD (P)	31 Aug 96
Final PP (P)	06 Oct 96

Table 2
 Category 2: Operable Unit 1 Schedule

Tasks	Start Date	End Date	Duration (days)
CATEGORY 2: OU-1 (Site 1)	12/1/94	4/11/97	863.00d
RI REPORT W/BRA	12/1/94	9/16/95	290.00d
Agency Review	12/1/94	3/30/95	120.00d
Navy rcvs comments	3/31/95	4/6/95	7.00d
Prepare Draft/Final	4/7/95	6/20/95	75.00d
Submit Draft/Final w/comment responses	6/21/95	6/27/95	7.00d
Agency Review	6/28/95	9/15/95	80.00d
RI Finalized	9/16/95	9/16/95	1.00d
FEASIBILITY STUDY	12/1/94	4/20/96	507.00d
Prepare Draft FS (revision 2)	12/1/94	6/23/95	205.00d
Submit Draft FS	6/24/95	6/30/95	7.00d
Agency Review	7/1/95	10/18/95	110.00d
Navy rcvs comments	10/19/95	10/25/95	7.00d
Prepare Draft/Final	10/26/95	1/23/96	90.00d
Submit Draft/Final w/comment responses	1/24/96	1/30/96	7.00d
Agency Review	1/31/96	4/19/96	80.00d
FS Finalized	4/20/96	4/20/96	1.00d
PROPOSED PLAN (PP)	10/26/95	1/10/97	443.00d
Prepare PP	10/26/95	1/23/96	90.00d
Submit Draft PP	1/24/96	1/30/96	7.00d
Agency Review	1/31/96	4/19/96	80.00d
Navy rcvs comments	4/20/96	4/26/96	7.00d
Prepare Draft/Final	4/27/96	7/25/96	90.00d
Submit Draft/Final w/comment responses	7/26/96	8/1/96	7.00d
Agency Review	8/2/96	10/5/96	65.00d
PP Finalized	10/6/96	10/6/96	1.00d

Table 2 Category 2: Operable Unit 1 Schedule			
Tasks	Start Date	End Date	Duration (days)
Prepare Public Notice	10/7/96	10/26/96	20.00d
Public Comment Period	10/27/96	12/10/96	45.00d
Public Meeting	12/11/96	12/11/96	1.00d
Responsiveness Summary	12/12/96	1/10/97	30.00d
RECORD OF DECISION (ROD)	7/26/96	4/11/97	260.00d
Prepare Draft ROD	7/26/96	8/24/96	30.00d
Submit Draft ROD	8/25/96	8/31/96	7.00d
Agency Review	9/1/96	11/19/96	80.00d
Navy rcvs comments	11/20/96	11/26/96	7.00d
Prepare Draft/Final	11/27/96	1/25/97	60.00d
Submit Draft/Final	1/26/97	2/1/97	7.00d
Agency Review	2/2/97	4/7/97	65.00d
Rod Finalized	4/8/97	4/8/97	1.00d
ROD Signature	4/9/97	4/11/97	3.00d

RI/FS Category 2: OU 3

PSC 2: Waterfront Sediment Area

Documented quantities of industrial and hazardous waste discharged to Pensacola Bay by storm sewers over a **35** year period. Examples of these hazardous wastes are solvents, cyanide and heavy metals. Fish kills were not uncommon in this area during **1940s, 1950s, and 1960s**. Periodic dredging has been done to widen and deepen the channel for current aircraft carrier berthing. This PSC was given a higher priority due to the suspected magnitude and toxicity of potential contamination.

1995 Primary Deliverables

Due Date

Draft RI Report	26 Feb 95
Draft/Final RI Report	26 Aug 95
Draft FS Report	03 Sep 95
Final RI Report	27 Sep 95

1995 Secondary Deliverables

Target Date

Quarterly Reports	30 Apr, 31 Jul, 31 Oct, 31 Jan
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Projected Deliverables

Projected Date

Draft/Final FS Report (P)	21 Mar96
Draft PP Report (P)	21 Mar96
Final FS Report (P)	21 Apr 96
Draft/Final PP Report (P)	04 Sep 96
Draft ROD (P)	04 Oct 96
Final PP Report (P)	05 Oct 96

Table 3
Category 2: Operable Unit 3 Schedule

Tasks	Start Date	End Date	Duration (days)
CATEGORY 2: OU-3 (PSC 2)	9/25/94	3/11/97	875.00
RI REPORT W/BRA	9/25/94	9/27/95	357.00
Prepare Draft RI	9/25/94	2/18/95	140.00
Submit Draft RI	2/19/95	2/26/95	7.00
Agency Review	2/27/95	5/27/95	90.00
Navy rcvs comments	5/28/95	6/4/95	7.00
Prepare Draft/Final	6/5/95	8/19/95	75.00
Submit Draft/Final w/comments	8/20/95	8/26/95	7.00
Agency Review	8/27/95	9/26/95	30.00
RI Finalized	9/27/95	9/27/95	1.00
FEASIBILITY STUDY (FS)	2/27/95	4/21/96	412.00
Prepare Draft FS	2/27/95	8/27/95	180.00
Submit Draft FS	8/28/95	9/3/95	7.00
Agency Review	9/5/95	12/5/95	90.00
Navy rcvs comments	12/6/95	12/12/95	7.00
Prepare Draft/Final	12/13/95	3/14/96	90.00
Submit Draft/Final w/comments	3/15/96	3/21/96	7.00
Agency Review	3/22/96	4/20/96	30.00
FS Finalized	4/21/96	4/21/96	1.00
PROPOSED PLAN (PP)	12/13/95	1/13/97	388.00
Prepare PP	12/13/95	3/14/96	90.00
Submit Draft PP	3/15/96	3/21/96	7.00
Agency Review	3/22/96	5/20/96	60.00
Navy rcvs comments	5/21/96	5/28/96	7.00
Prepare Draft/Final	5/29/96	8/27/96	90.00

**Table 3
 Category 2: Operable Unit 3 Schedule**

Tasks	Start Date	End Date	Duration (days)
Submit Draft/Final w/comments	8/28/96	9/4/96	7.00
Agency Review	9/5/96	10/4/96	30.00
PP Finalized	10/5/96	10/5/96	1.00
Prepare Public Notice	10/6/96	10/25/96	20.00
Public Comment Period	10/26/96	12/11/96	45.00
Public Meeting	12/12/96	12/12/96	1.00
Responsiveness Summary	12/13/96	1/13/97	30.00
RECORD OF DECISION (ROD)	8/28/96	3/11/97	190.00
Prepare Draft ROD	8/28/96	9/27/96	30.00
Submit Draft ROD	9/28/96	10/4/96	7.00
Agency Review	10/5/96	11/19/96	45.00
Navy rcvs comments	11/20/96	11/26/96	7.00
Prepare Draft/Final	11/27/96	1/28/97	60.00
Submit Draft/Final	1/29/97	2/4/97	7.00
Agency Review	2/5/97	3/7/97	30.00
Rod Finalized	3/8/97	3/13/97	1.00
ROD Signature	3/9/97	3/11/97	3.00

RI/FS Category 2: OU 11

PSC 38: Building 71 and Industrial Waste Sewer Line (TL 073/C southwest to the end)

This **PSC** includes buildings 71 and the associated industrial waste sewer line. The building has since been demolished but, soil testing conducted detected hazardous waste constituents, the presence of which is consistent with the use of Buildings **49**, 71, and 72 during the period from about 1935 to the late 1970s for aircraft paint stripping and painting operations. These activities are described in the **IAS** in detail. Study documents identify the use of paint strippers, ketones, and trichloroethylene (for parts cleaning) in Buildings **49** and 71. Ten **550** gallon above grade **tanks** were located in these facilities which were periodically drained through the underground lines from the buildings to Pensacola Bay. A cyanide spill in the area near Buildings 71 and 104 and the presence of cyanide in the adjacent bay waters also are documented in the report.

Waste from various types of operations enter the Industrial Waste Sewer Line (TL 073/C southwest to the end) without any pretreatment or segregation. Consequently, the waste stream may consist of everything generated or used in the facility, including paint strippers, heavy metals, pesticides, fuels, cyanide wastes (prior to 1962), solvents, and waste oils.

1995 Primary Deliverables

Due Date

Draft/Final RI Report	02 Jul 95
Draft FS Report	05 Jul 95
Final RI Report	21 Sep 95

1995 Secondary Deliverables

Target Date

Quarterly Reports	30 Apr, 31 Jul, 31 Oct, 31 Jan
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Projected Deliverables

Projected Date

Draft/Final FS Report (P)	04 Feb 96
Draft PP Report (P)	04 Feb 96
Final FS Report (P)	25 Apr 96
Draft/Final PP Report (P)	06 Aug 96
Draft ROD (P)	05 Sep 96
Final PP (P)	11 Oct 96

Table 4
Category 2: Operable Unit 11 Schedule

Tasks	Start Date	End Date	Duration (days)
CATEGORY 2: OU-11 (Site 38)	12/6/94	3/12/97	828.00d
RI REPORT W/BRA	12/6/94	9/21/95	290.00d
Agency Review	12/6/94	4/4/95	120.00d
Navy rcvs comments	4/5/95	4/11/95	7.00d
Prepare Draft/Final	4/12/95	6/25/95	75.00d
Submit Draft/Final w/ comment responses	6/26/95	7/2/95	7.00d
Agency Review	7/3/95	9/20/95	80.00d
RI Finalized	9/21/95	9/21/95	1.00d
FEASIBILITY STUDY	12/6/94	4/25/96	507.00d
Prepare Draft FS (revision 2)	12/6/94	6/28/95	205.00d
Submit Draft FS	6/29/95	7/5/95	7.00d
Agency Review	7/6/95	10/23/95	110.00d
Navy rcvs comments	10/24/95	10/30/95	7.00d
Prepare Draft/Final	10/31/95	1/28/96	90.00d
Submit Draft/Final w/ comment responses	1/29/96	2/4/96	7.00d
Agency Review	2/5/96	4/24/96	80.00d
FS Finalized	4/25/96	4/25/96	1.00d
PROPOSED PLAN (PP)	10/31/95	1/15/97	443.00d
Prepare PP	10/31/95	1/28/96	90.00d
Submit Draft PP	1/29/96	2/4/96	7.00d
Agency Review	2/5/96	4/24/96	80.00d
Navy rcvs comments	4/25/96	5/1/96	7.00d
Prepare Draft/Final	5/2/96	7/30/96	90.00d
Submit Draft/Final w/ comment responses	7/31/96	8/6/96	7.00d
Agency Review	8/7/96	10/10/96	65.00d
PP Finalized	10/11/96	10/11/96	1.00d

Table 4 Category 2: Operable Unit 11 Schedule			
Tasks	Start Date	End Date	Duration (days)
Prepare Public Notice	10/12/96	10/31/96	20.00d
Public Comment Period	11/1/96	12/15/96	45.00d
Public Meeting	12/16/96	12/16/96	1.00d
Responsiveness Summary	12/17/96	1/15/97	30.00d
RECORD OF DECISION (ROD)	7/31/96	3/12/97	225.00d
Prepare Draft ROD	7/31/96	8/29/96	30.00d
Submit Draft ROD	8/30/96	9/5/96	7.00d
Agency Review	9/6/96	11/24/96	80.00d
Navy rcvs comments	11/25/96	12/1/96	7.00d
Prepare Draft/Final	12/2/96	1/30/97	60.00d
Submit Draft/Final	1/31/97	2/6/97	7.00d
Agency Review	2/7/97	3/8/97	30.00d
Rod Finalized	3/9/97	3/9/97	1.00d
ROD Signature	3/10/97	3/12/97	3.00d

RI/FS Category 2: OU 12

PSC 39: Oak Grove Campground Area

Oak Grove is a campground area located immediately South of Sherman Field on the **South** side of Radford Boulevard. An area of **stressed** vegetation and stained soil approximately **150** feet in diameter **was** found near the Pensacola **Bay**. A small amount of construction debris consisting of old brick, broken clay pipe and coal **is** scattered across the **site**. Records indicate that a **saw** mill was once located near this site. Investigations are currently underway to determine if the debris is the remains of this old mill or if this was **an** old dump site. Preliminary tests of the surface soil showed that the stained soil is the result of petroleum contamination.

1995 Primary Deliverable

Due Date

Draft PP Report	08 Mar 95
Draft/Final RI Report	01 Jun 95
Final RI Report	02 Jul 95
Draft/Final PP	24 Aug 95
Draft Rod	25 Sep 95
Final PP Report	26 Sep 95

1995 Secondary Deliverables

Target Date

Quarterly Reports	30 Apr, 31 Jul, 31 Oct , 31 Jan
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Projected Deliverables

Projected Date

Draft Final ROD (P)	18 Jan 96
Final ROD (P)	20 Feb 96

Tasks	Start Date	End Date	Duration (days)
Category 2: OU-12 (Site 391)	12/01/94	8/14/96	623.00d
RI REPORT W/BRA	12/01/94	6/28/95	210.00d
Agency Review	12/01/94	2/28/95	90.00d
Navy rcvs comments	3/01/95	3/7/95	7.00d
Prepare Draft/Final	3/08/95	5/21/95	75.00d
Submit Draft/Final w/ comments	5/22/95	5/28/95	7.00d
Agency Review	5/29/95	6/27/95	30.00d
RI Finalized	6/28/95	6/28/95	1.00d
PROPOSED PLAN (PP)	5/29/95	6/19/95	388.00d
Prepare PP	5/29/95	8/26/95	90.00d
Submit Draft PP	8/27/95	9/02/95	7.00d
Agency Review	9/03/95	11/01/95	60.00d
Navy rcvs comments	11/02/95	11/08/95	7.00d
Prepare Draft/Final	11/09/95	2/06/96	90.00d
Submit Draft/Final w/comments	2/07/96	2/13/96	7.00d
Agency Review	2/14/96	3/14/96	30.00d
PP Finalized	3/15/96	3/15/96	1.00d
Prepare Public Notice	3/16/96	4/04/96	20.00d
Public Comment Period	4/05/96	5/19/96	45.00d
Public Meeting	5/20/96	5/20/96	1.00d
Responsiveness Summary	5/21/96	6/19/96	30.00d
RECORD OF DECISION (ROD)	2/07/96	8/14/96	190.00d
Prepare Draft ROD	2/07/96	3/07/96	30.00d
Submit Draft ROD	3/08/96	3/14/96	7.00d
Agency Review	3/15/96	4/28/96	45.00d
Navy rcvs comment	4/29/96	5/05/96	7.00d

Table 5
Category 2: Operable Unit 12 Schedule

Tasks	Start Date	End Date	Duration (days)
Prepare Draft/Final	5/06/96	7/04/96	60.00d
Submit Draft/Final	7/05/96	7/11/96	7.00d
Agency Review	7/12/96	8/10/96	30.00d
Rod Finalized	8/11/96	8/11/96	1.00d
ROD Signature	8/12/96	8/14/96	3.00d

RI/FS Category 3: OU 2

PSC 11: North Chevalier Disposal Area

PSC 26: Supply Department Outside Storage Area

PSC 12: Scrap Bins (Screening PSC)

PSC 27: Radium Dial Shop Sewer

PSC 25: Radium Spill Area (Screening PSC)

PSC 30: Buildings 648, 649, and 755 and Sewer Line (TL 145/A North to IWTP)

PSC 11, North Chevalier Disposal Area — This **PSC** received industrial waste and oils, including hazardous waste. Eleven (11) shallow monitoring wells have been installed, three (3) of which have been destroyed. One (1) deep well is also in place. Analytical data from the wells indicate both shallow and deep groundwater contamination with heavy metals and **VOCs**. Groundwater flow in the shallow system is eastward toward the creek leading into Bayou Grande. Sediment samples taken during the NACIP Study showed high concentrations of heavy metals. Borings to define the lateral and vertical extent of the landfill indicate construction debris east of the creek. The total lateral extent of the site is unknown. Old topographic surveys indicate the fill encompasses several hundred thousand square feet of the original tidal creek area. Prioritization of this **PSC** was due to the suspected magnitude and toxicity of contamination, pathways, and the potential for human exposure.

PSC 26, Supply Department Outside Storage Area — **PSC 26** is a 90 square foot outside area, south of building **684**, used to store containers of industrial materials. Containers were stored on steel mats. Leakage is reported to have occurred from these containers. Since **PSC 11** is down gradient from this area, in depth studies will be conducted.

PSC 12, Scrap Bins (Screening PSC) — Screening **PSC 12** is being investigated and reported on concurrently with this OU. It is located approximately 800 feet northwest of Chevalier Field and 600 feet west of **PSC 11**. Most of the site area is enclosed by a fence and covered with a

large concrete pad where heavy equipment is currently kept. From the early **1930s** to mid 1940s, garbage from NAS Pensacola **was** placed in scrap bins and **stored** in this area (industrial waste was sent to the North Chevalier Disposal Area). Approximately 16 cubic yards (2 truck loads) per day of wet garbage was stored before being hauled off and **used as** livestock feed. There is no evidence of hazardous material disposal at this PSC.

PSC 27, Radium Dial Shop Sewer — From **1940s to 1976**, Building **709** was used to rework instrument dials painted with radium containing paint. Spent cleaning solutions and luminous paint were routinely poured into the sanitary sewer system. In **1976**, the building **was** dismantled and the drain pipe found to have a reading of **1.2 mR/hr**. The drain pipe was removed to a depth of **18 inches**. The remaining lateral underground portion of the pipe was capped and covered with concrete. At PSC **27**, radium removal operations at NAS Pensacola involved stripping radium-containing paint from instrument dials prior to repainting. From **1965** to 1975, these operations were conducted in Building **709**. In **1975**, all activities related to radium painted instruments, including stripping and re-painting, were permanently moved to building 780. At the present, aircraft instruments containing radium are disassembled in Building **780**. Instrument dials were stripped using paint thinner, then soaked in a lye and nitric acid solution. Contaminated instruments **cases** were processed by soaking in a "turco" acid solution. Components were cleaned with a wire brush to remove all residue.

Screening PSC **25** has been grouped with PSC **27** to investigate the extent of contamination. One (1) shallow well and one (1) deep monitoring well **was** installed near the drain of PSC **27**. Analyses of shallow samples indicate gross Alpha concentrations in the shallow groundwater are below the primary drinking water standard. Chlorinated hydrocarbons were detected. Chlorinated hydrocarbons were not detected in samples from the deeper wells. The groundwater flow direction is, reportedly, south-southeast and toward PSC 30. Several analyses for chlorinated VOCs from the installed monitoring wells indicated traces of solvents are present in the groundwater.

PSC 25, Radium Spill Site (Screening PSC) — PSC 25 will be investigated and reported on concurrently with this OU and is located on the eastern portion of **NAS** Pensacola just east of Murray Road and north of Farrar Road on the east side of Building 780. **NEESA** (1983) reported a small spill of low-level radioactive waste containing radium at this site in 1978. The spill occurred on pavement and was properly cleaned up according to **NEESA**. The spill occurred because drums of waste were being stored in the weather and allowed to corrode and leak. Building 780 was the location of radium removal operations for radium dials and other equipment. The equipment was decontaminated here before being repainted in the radium dial shop (former Building 708). Contamination resulting from the spill or waste handling are the focus of the investigation. On 14 Oct 1992 the UST program transferred 709D-N, which is at PSC 27, to the IR Program.

These PSCs were grouped together mainly due to the following: geographic proximity of PSCs, and the potential for off-site migration, and its impact on the other PSC. Prioritization of these PSCs was due to the suspected magnitude and toxicity of contamination, the potential for off-site migration of contaminants via several pathways, and the potential for human exposure.

PSC 30, Buildings 648, 649 and 755 and Industrial Sewer Line — Over a fifteen (15) year period north of Bldg. 648, waste paint, thinner, and paint sludges were poured onto the ground. The only monitoring well near the site indicated low concentrations of chlorinated hydrocarbons. A second round of samples from this monitoring well detected no chlorinated volatiles. The exact location of the disposal site in relation to the monitoring well is not reported. The plume of contamination may have already passed the monitoring point. Further study will be conducted. On 14 Oct 1992 the UST Program transferred 647N and 648N, which are at previous PSC 31, to the IR Program.

Building 649 housed a tin/cadmium plating shop with fifteen (15) tanks located inside this building, ranging in capacity from 200 to 500 gallons. These tanks, along with a 250 gallon

tank of trichlorethylene, were emptied routinely into a ditch leading to a creek discharging into Bayou Grande. Acids, caustics, degreasers, and chromatic solutions were **also** drained into this ditch. After twenty (20) **years**, this operation **was replaced with** a magnesium treatment line. The magnesium treatment line operated for ten (10) years.

Building 755 operated 50 **tanks** located inside this building over a ten year **period** as a plating facility for nickel, lead, tin, chromium and miscellaneous metals. These tanks, ranging in capacity from 50 to 200 gallons, were drained periodically into the ditch described above. Sediment samples from four (**4**) separate locations in the ditch were analyzed for metals and cyanide. Low levels of metal (below EP Toxic) were found. **On** 14 Oct 1992 the UST Program transferred **647E, 647N, 649N,** and 649W, which are at PSC 30, to the IR Program.

Waste from various types of operations enter the Industrial Waste Sewer Line (TL 045/A north to the IWTP) without any pretreatment or segregation. Consequently, the waste stream may consist of everything generated or **used** in the facility, including paint strippers, heavy metals, pesticides, radioactive wastes, fuels, cyanide wastes (prior to 1962), solvents, and waste oils. In 1979, a pump failure at the final industrial waste lift station, located approximately 2,000 feet southwest of the Industrial Waste Treatment Plant, caused a spill of industrial waste into a nearby unnamed creek, which leads into the south arm of Bayou Grande. The spill was investigated by the Florida Department of Environmental Regulation (**FDER**), and a Notice of Violation was issued to NAS Pensacola. The spill **caused** a minor fish kill in the creek.

Prioritization of this **PSC** was due to the suspected magnitude and toxicity of contamination, the potential for off-site migration of contaminants via several pathways, and the potential for human exposure.

1995 Primary Deliverables

Due Date

Draft RI (P)

12 Nov 95

1995 Secondary Deliverable

Target Date

Quarterly Reports
Final SAP (PSCs 12 and 26)

30 Apr, 31 Jul, 31 Oct, 31 Jan
03 Mar 95

Projected Deliverables

Projected Date

Draft Final RI (P)
Draft FS (P)
Draft Final FS

03 Jun 96
11 Jun 96
22 Dec 96

Table 6
Category 3: Operable Unit 2 Schedule

Tasks	Start Date	End Date	Duration (days)
CATEGORY 3: OU-2 (11,12,25,26,27,30)	1/17/95	1/18/98	1,098.00d
Agency Review (Site 12 & 26 SAP)	1/17/95	3/2/95	45.00d
Finalize SAP (Sites 12 & 26)	3/3/95	3/3/95	1.00d
Fieldwork	3/4/95	6/1/95	90.00d
Data Management	6/2/95	7/31/95	60.00d
Data Presentation	8/1/95	8/7/95	7.00d
RI REPORT W/BRA	8/8/95	8/3/96	362.00d
Prepare Draft RI	8/8/95	11/5/95	90.00d
Submit Draft RI	11/6/95	11/12/95	7.00d
Agency Review	11/13/95	2/20/96	100.00d
Navy rcvs comments	2/21/96	2/27/96	7.00d
Prepare Draft/Final	2/28/96	5/27/96	90.00d
Submit Draft/Final w/comments	5/28/96	6/3/96	7.00d
Agency Review	6/4/96	8/2/96	60.00d
RI Finalized	8/3/96	8/3/96	1.00d
FEASIBILITY STUDY	11/13/95	2/6/97	452.00d
Prepare Draft FS (revision 2)	11/13/95	6/4/96	205.00d
Submit Draft FS	6/5/96	6/11/96	7.00d
Agency Review	6/12/96	9/9/96	90.00d
Navy rcvs comments	9/10/96	9/16/96	7.00d
Prepare Draft/Final	9/17/96	12/15/96	90.00d
Submit Draft/Final w/comments	12/16/96	12/22/96	7.00d
Agency Review	12/23/96	2/5/97	45.00d
FS Finalized	2/6/97	2/6/97	1.00d
PROPOSED PLAN (PP)	9/17/96	10/24/97	403.00d
Prepare PP	9/17/96	12/15/96	90.00d

Table 6 Category 3: Operable Unit 2 Schedule			
Tasks	Start Date	End Date	Duration (days)
Submit Draft PP	12/16/96	12/22/96	7.00d
Agency Review	12/23/96	2/20/97	60.00d
Navy rcvs comments	2/21/97	2/27/97	7.00d
Prepare Draft/Final	2/28/97	5/28/97	90.00d
Submit Draft/Final w/comments	5/29/97	6/4/97	7.00d
Agency Review	6/5/97	7/19/97	45.00d
PP Finalized	7/20/97	7/20/97	1.00d
Prepare Public Notice	7/21/97	8/9/97	20.00d
Public Comment Period	8/10/97	9/23/97	45.00d
Public Meeting	9/24/97	9/24/97	1.00d
Responsiveness Summary	9/25/97	10/24/97	30.00d
RECORD OF DECISION (ROD)	5/29/97	1/18/98	235.00d
Prepare Draft ROD	5/29/97	7/12/97	45.00d
Submit Draft ROD	7/13/97	7/19/97	7.00d
Agency Review	7/20/97	9/17/97	60.00d
Navy rcvs comments	9/18/97	9/24/97	7.00d
Prepare Draft/Final	9/25/97	11/23/97	60.00d
Submit Draft/Final	11/24/97	11/30/97	7.00d
Agency Review	12/1/97	1/14/98	45.00d
Rod Finalized	1/15/98	1/15/98	1.00d
ROD Signature	1/16/98	1/18/98	3.00d

RI/FS Category 4: OU 16

PSC 41: Naval Air Station Pensacola (NASP) Wetlands

An EPA inventory of wetlands identified and enumerated **79** wetlands complexes on NAS Pensacola. Two other wetlands were identified during habitat/biota surveys. For the purpose of these studies, freshwater and brackish water ponds, and drainage ditches are included as wetlands. The majority and largest of the wetlands on NAS Pensacola are located in the western portion of the installation, primarily south and west of Sherman Field. About a third of the **81** wetlands are located east of Sherman Field, where most of the IRP sites are located. These small and remnant wetlands are the only potential receptors on base. Contamination was detected in all eight wetlands that have been sampled during contamination assessments. Nineteen PSCs (1, 3, 4, 5, 6, 9, 10, 11, 13, 14, 16, 29, 30, 32, 33, 34, 35, 36, and 39) on NAS Pensacola are suspected sources of contamination to these wetlands.

1995 Primary Deliverables

Due Date

None during 1995.

1995 Secondary Deliverables

Target Date

Quarterly Reports	30 Apr, 31 Jul, 31 Oct, 31 Jan
Draft Work Plan and SAP	20 Feb 95
Draft Final Work Plan and SAP	04 Jun 95
Final Work Plan and SAP	05 Jul 95

Projected Deliverables

Projected Date

Submit Draft RI (P)	12 Nov 97
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Table 7 Category 4: Site 41 Schedule			
Tasks	Start Date	End Date	Duration (days)
CATEGORY 4: Site 41	10/17/94	7/19/00	2,103.00d
Prepare Draft SAP	10/17/94	2/13/95	120.00d
Submit Draft SAP	2/14/95	2/20/95	7.00d
Agency Review	2/21/95	4/6/95	45.00d
Navy rcvs comments	4/7/95	4/13/95	7.00d
Prepare Draft Final SAP	4/14/95	5/28/95	45.00d
Submit Draft Final SAP w/ comment responses	5/29/95	6/4/95	7.00d
Agency Review	6/5/95	7/4/95	30.00d
Finalize SAP	7/5/95	7/5/95	1.00d
Phase 2A fieldwork	7/6/95	12/2/95	150.00d
Phase 2A, Data management	12/3/95	3/1/96	90.00d
Phase 2A, Data Presentation	3/2/96	3/8/96	7.00d
Agency Review	3/9/96	4/7/96	30.00d
Phase 28 fieldwork	4/8/96	7/6/96	90.00d
Phase 28, Data management	7/7/96	10/4/96	90.00d
Phase 2B, Data presentation	10/5/96	10/11/96	7.00d
Agency Review	10/12/96	11/10/96	30.00d
Phase 3, fieldwork	11/11/96	2/8/97	90.00d
Phase 3, data management	2/9/97	5/9/97	90.00d
RI REPORT W/BRA	5/10/97	10/13/98	522.00d
Prepare Draft RI	5/10/97	11/5/97	180.00d
Submit Draft RI	11/6/97	11/12/97	7.00d
Agency Review	11/13/97	3/12/98	120.00d
Navy rcvs comments	3/13/98	3/19/98	7.00d
Prepare Draft/Final	3/20/98	7/17/98	120.00d
Submit Draft/Final w/comments responses	7/18/98	7/24/98	7.00d

Table 7
 Category 4: Site 41 Schedule

Tasks	Start Date	End Date	Duration (days)
Agency Review	7/25/98	10/12/98	80.00d
RI Finalized	10/13/98	10/13/98	1.00d
FEASIBILITY STUDY	11/13/97	6/17/99	582.00d
Prepare Draft FS	11/13/97	7/20/98	250.00d
Submit Draft FS	7/21/98	7/27/98	7.00d
Agency Review	7/28/98	11/14/98	110.00d
Navy rcvs comments	11/15/98	11/21/98	7.00d
Prepare Draft/Final	11/22/98	3/21/99	120.00d
Submit Draft/Final	3/22/99	3/28/99	7.00d
Agency Review	3/29/99	6/16/99	80.00d
FS Finalized	6/17/99	6/17/99	1.00d
PROPOSED PLAN (PP)	11/22/98	3/8/00	473.00d
Prepare Draft PP	11/22/98	3/21/99	120.00d
Submit Draft PP	3/22/99	3/28/99	7.00d
Agency Review	3/29/99	6/16/99	80.00d
Navy rcvs comments	6/17/99	6/23/99	7.00d
Prepare Draft/Final	6/24/99	9/21/99	90.00d
Submit Draft/Final w/comment responses	9/22/99	9/28/99	7.00d
Agency Review	9/29/99	12/2/99	65.00d
PP Finalized	12/3/99	12/3/99	1.00d
Prepare Public Notice	12/4/99	12/23/99	20.00d
Public Comment Period	12/24/99	2/6/00	45.00d
Public Meeting	2/7/00	2/7/00	1.00d
Responsiveness Summary	2/8/00	3/8/00	30.00d

Table 7 Category 4: Site 41 Schedule			
Tasks	Start Date	End Date	Duration (days)
RECORD OF DECISION (ROD)	9/29/99	7/19/00	295.00d
Prepare Draft ROD	9/29/99	12/2/99	65.00d
Submit Draft ROD	12/3/99	12/9/99	7.00d
Agency Review	12/10/99	2/27/00	80.00d
Navy rcvs comments	2/28/00	3/5/00	7.00d
Prepare Draft/Final	3/6/00	5/4/00	60.00d
Submit Draft/Final w/comment responses	5/5/00	5/11/00	7.00d
Agency Review	5/12/00	7/15/00	65.00d
Rod Finalized	7/16/00	7/16/00	1.00d
ROD Signature	7/17/00	7/19/00	3.00d

RI/FS Category 4: OU 15

PSC 40: Bayou Grande

NAS Pensacola is bordered on the south by Big Lagoon and Pensacola Bay, on the east by Pensacola Bay, and on the north by Bayou Grande. Bayou Grande, an estuarine water body connected to Pensacola Bay, lies adjacent to the northern boundary of NAS Pensacola. During contamination assessment investigations, Total Recoverable Petroleum Hydrocarbons (TRPHs), metals, Polynuclear Aromatic Hydrocarbons (PAHs), and phenols were detected in near shore Bayou Grande sediment samples, and metals were detected in near shore Bayou Grande surface water samples. Sixteen PSCs (1, 3, 9, 10, 11, 12, 15, 16, 23, 29, 30, 32, 33, 34, 35, and 36) are believed to potentially contribute to the concentrations found in Bayou Grande.

1995 Primary Deliverable

Due Date

Draft Work Plan and SAP	27 Jun 95
Draft Final Work Plan and SAP	09 Oct 95
Final Work Plan with SAP	09 Nov 95

1995 Secondary Deliverables

Target Date

Quarterly Reports	30 Apr, 31 Jul, 31 Oct, 31 Jan
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Projected Deliverables

Projected Date

None in 96

RI/FS Category 4: OU 17

PSC 42: Pensacola Bay Area

NAS Pensacola is bordered on the south by Big Lagoon and Pensacola Bay, on the east by Pensacola Bay, and on the north by Bayou Grande. Only a very small portion of the western end of NAS Pensacola is farther than a mile from one of these bodies of water. Swampy areas exist on or near the western portion of NAS Pensacola. Man-made drainage ways and storm drains feed into the short intermittent streams emptying into Pensacola Bay and Bayou Grande. No perennial streams enter or exit NAS Pensacola, but the marshy areas (wetlands) and their small lakes retain water throughout the year. During contamination assessment investigations, metals, total recoverable petroleum hydrocarbons (TRPHs), Polynuclear aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs) were detected in sediment samples collected along the southeastern waterfront of Pensacola Bay. Fourteen PSCs (2, 3, 4, 13, 14, 17, 18, 28, 32, 33, 35, 36, 28, and 39) on NAS Pensacola are suspected sources of contaminants to Pensacola Bay.

1995 Primary Deliverables

Draft Work Plan and SAP	27 Jun 95
Draft Final Work Plan and SAP	09 Oct 95
Final Work Plan and SAP	09 Nov 95

1995 Secondary Deliverables

Target Date

Quarterly Reports	30 Apr, 31 Jul, 31 Oct, 31 Jan
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Projected Deliverable

Projected Date

None in 96	
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Table 8
Category 4: Sites 40 & 42 Schedule

Tasks	Start Date	End Date	Duration (days)
CATEGORY 4: Sites 40 & 42	2/6/95	1/7/01	2,163.00d
Phase 1, fieldwork	2/6/95	3/22/95	45.00d
Prepare Draft SAP and work plan	3/23/95	6/20/95	90.00d
Submit Draft SAP and work plan	6/2 1/95	6/27/95	7.00d
Agency Review	6/28/95	8/11/95	45.00d
Navy rcvs comments	8/12/95	8/18/95	7.00d
Prepare Draft Final SAP and work plan	8/19/95	10/2/95	45.00d
Submit Draft Final w/comments	10/3/95	10/9/95	7.00d
Agency Review	10/10/95	11/8/95	30.00d
Finalize SAP	11/9/95	11/9/95	1.00d
Phase 2A fieldwork	11/10/95	4/7/96	150.00d
Phase 2A, data management	4/8/96	7/6/96	90.00d
Phase 2A, Data Presentation	7/7/96	7/13/96	7.00d
Agency Review	7/14/96	8/12/96	30.00d
Phase 2B fieldwork	8/13/96	11/10/96	90.00d
Phase 2B, Data management	11/1 1/96	2/8/97	90.00d
Phase 2B, Data presentation	2/9/97	2/15/97	7.00d
Agency Review	2/16/97	3/17/97	30.00d
Phase 3, fieldwork	3/18/97	6/15/97	90.00d
Phase 3, data management	6/16/97	9/13/97	90.00d
RI REPORT W/BRA	9/14/97	2/17/99	522.004
Prepare Draft RI	9/14/97	3/12/98	180.00d
Submit Draft RI	3/13/98	3/19/98	7.00d
Agency Review	3/20/98	7/17/98	120.00d
Navy rcvs comments	7/18/98	7/24/98	7.00d
Prepare Draft/Final	7/25/98	11/21/98	120.00d

Table 8
Category 4: Sites 40 & 42 Schedule

Tasks	Start Date	End Date	Duration (days)
Submit Draft/Final w/comments responses	11/22/98	11/28/98	7.00d
Agency Review	11/29/98	2/16/99	80.00d
RI Finalized	2/17/99	2/17/99	1.00d
FEASIBILITY STUDY	3/20/98	10/22/99	582.00d
Prepare Draft FS	3/20/98	11/24/98	250.00d
Submit Draft FS	11/25/98	12/1/98	7.00d
Agency Review	12/2/98	3/21/99	110.00d
Navy rcvs comments	3/22/99	3/28/99	7.00d
Prepare Draft/Final	3/29/99	7/26/99	120.00d
Submit Draft/Final	7/27/99	8/2/99	7.00d
Agency Review	8/3/99	10/21/99	80.00d
FS Finalized	10/22/99	10/22/99	1.00d
PROPOSED PLAN (PP)	3/29/99	7/28/00	488.00d
Prepare PP	3/29/99	7/26/99	120.00d
Submit Draft PP	7/27/99	8/2/99	7.00d
Agency Review	8/3/99	10/21/99	80.00d
Navy rcvs comments	10/22/99	10/28/99	7.00d
Prepare Draft/Final	10/29/99	1/26/00	90.00d
Submit Draft/Final w/comments	1/27/00	2/2/00	7.00d
Agency Review	2/3/00	4/22/00	80.00d
PP Finalized	4/23/00	4/23/00	1.00d
Prepare Public Notice	4/24/00	5/13/00	20.00d
Public Comment Period	5/14/00	6/27/00	45.00d
Public Meeting	6/28/00	6/28/00	1.00d
Responsiveness Summary	6/29/00	7/28/00	30.00d

Table 8 Category 4: Sites 40 & 42 Schedule			
Tasks	Start Date	End Date	Duration (days)
RECORD OF DECISION (ROD)	2/3/00	1/7/01	340.00d
Prepare Draft ROD	2/3/00	4/22/00	80.00d
Submit Draft ROD	4/23/00	4/29/00	7.00d
Agency Review	4/30/00	7/18/00	80.00d
Navy rcvs comments	7/19/00	7/25/00	7.00d
Prepare Draft/Final	7/26/00	10/23/00	90.00d
Submit Draft/Final w/comments	10/24/00	10/30/00	7.00d
Agency Review	10/31/00	1/3/01	65.00d
Rod Finalized	1/4/01	1/4/01	1.00d
ROD Signature	1/5/01	1/7/01	3.00d

RI/FS Category 5: OU 6

PSC 9: Navy Yard Disposal Area

PSC 29: Soil South of Building 3460

PSC 34: Solvent North of Building 3557 (Screening PSC)

PSC 9, Navy Yard Disposal Area — This area was used for the disposal of trash and refuse during the period between 1917 and the early 1930s. It is reported that the PSC is shown on several old maps as the Navy Yard Dump or the Warrington Village Dump (NEESA 1983). In the late 1960s, while trenching for the Industrial Wastewater Treatment Plant (IWTP) system, part of PSC 9 was excavated. Glass, scrap metal, and debris were unearthed. No unusual odor was reported associated with the PSC. The IAS report concluded no further study was necessary and the PSC did not constitute a threat to human health or the environment. During the VS of this PSC, monitoring wells were installed at the southwest corner of Chevalier Field to determine shallow groundwater flow and groundwater samples taken to further delineate the contamination problem in the general area of Screening PSC 34 and PSC 29. Groundwater samples were analyzed for VOCs; however, no VOCs were detected in any samples obtained.

PSC 29, Soil South of Building 3460 — In 1981, workers excavating soil beneath the concrete apron south of Building 3460 received skin burns from a "black slimy liquid" in the soil. Types of chemicals involved and extent of contamination are unknown. A leak in the nearby industrial sewer line from the Naval Aviation Depot (NADEP) facility is the expected source. This site is part of the group including PSC 9 and Screening PSC 34 studied together. No analyses of groundwater for non-halogenated hydrocarbons volatiles, extractables, exotic or parameters other than method 601 VOCs were done.

PSC 34, Solvent North of Building 3557 (Screening PSC) — During May 1984, a leak occurred in a pipeline at the north end of Building 3557. The leak reportedly resulted in the loss of solvent detergent used for cleaning aircraft. The solution contained 1.7 percent chlorinated

aromatic hydrocarbons solvent. Contamination of site soils and groundwater may have occurred as the result of the solvent detergent release. Contamination may have penetrated beneath the apron via the expansion joints which separated individual concrete tiles and via runoff of escaped solvent to the unpaved storage tank area. The unpaved drainage ditch in the tank area is suspected to have carried contamination off-site and is presumed to be connected to the paved drainage ditch located west Chevalier Field. It is unknown whether or not site contamination entered into the NAS Pensacola storm sewer system.

These PSCs were grouped together mainly due to the following: geographic proximity of PSCs, the potential for off-site migration, and its impact on the other PSC. Prioritization of these PSCs was due to the suspected magnitude and toxicity of contamination, the potential for off-site migration of contaminants via several pathways, and the potential for human exposure.

1995 Primary Deliverable

Due Date

Draft RI	09 May 95
Draft Final RI	18 Nov 95
Draft FS	01 Dec 95
Final RI	19 Dec 95

1995 Secondary Deliverables

Target Date

Quarterly Reports	30 Apr, 31 Jul, 31 Oct, 31 Jan
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Projected Deliverables

Projected Date

Draft Final FS (P)	12 Jun 96
Draft PP (P)	12 Jun 96
Final FS (P)	13 Jul 96
Draft Final PP	23 Nov 96
Final PP	24 Dec 96

Table 9			
Category 5: Operable Unit 6 Schedule			
Tasks	Start Date	End Date	Duration (days)
CATEGORY 5: OU-6 (9&29) w/Site 34	2/1/95	5/10/97	830.00d
RI REPORT w/BRA	2/1/95	12/19/95	322.00d
Prepare Draft RI	2/1/95	5/1/95	90.00d
Submit Draft RI	5/2/95	5/8/95	7.00d
Agency Review	5/9/95	8/6/95	90.00d
Navy rcvs comments	8/7/95	8/13/95	7.00d
Prepare Draft/Final	8/14/95	11/11/95	90.00d
Submit Draft/Final w/comments	11/12/95	11/18/95	7.00d
Agency Review	11/19/95	12/18/95	30.00d
RI Finalized	12/19/95	12/19/95	1.00d
FEASIBILITY STUDY	5/9/95	7/13/96	432.00d
Prepare Draft FS (revision 2)	5/9/95	11/24/95	200.00d
Submit Draft FS	11/25/95	12/1/95	7.00d
Agency Review	12/2/95	2/29/96	90.00d
Navy rcvs comments	3/1/96	3/7/96	7.00d
Prepare Draft/Final	3/8/96	6/5/96	90.00d
Submit Draft/Final w/comments	6/6/96	6/12/96	7.00d
Agency Review	6/13/96	7/12/96	30.00d
FS Finalized	7/13/96	7/13/96	1.00d
PROPOSED PLAN (PP)	3/8/96	3/30/97	388.00d
Prepare PP	3/8/96	6/5/96	90.00d
Submit Draft PP	6/6/96	6/12/96	7.00d
Agency Review	6/13/96	8/11/96	60.00d
Navy rcvs comments	8/12/96	8/18/96	7.00d
Prepare Draft/Final	8/19/96	11/16/96	90.00d
Submit Draft/Final w/comments	11/17/96	11/23/96	7.00d

Table 9			
Category 5: Operable Unit 6 Schedule			
Tasks	Start Date	End Date	Duration (days)
Agency Review	11/24/96	12/23/96	30.00d
PP Finalized	12/24/96	12/24/96	1.00d
Prepare Public Notice	12/25/96	1/13/97	20.00d
Public Comment Period	1/14/97	2/27/97	45.00d
Public Meeting	2/28/97	2/28/97	1.00d
Responsiveness Summary	3/1/97	3/30/97	30.00d
RECORD OF DECISION (ROD)	11/17/96	5/10/97	175.00d
Prepare Draft ROD	11/17/96	12/16/96	30.00d
Submit Draft ROD	12/17/96	12/23/96	7.00d
Agency Review	12/24/96	2/6/97	45.00d
Navy rcvs comments	2/7/97	2/13/97	7.00d
Prepare Draft/Final	2/14/97	3/30/97	45.00d
Submit Draft/Final	3/31/97	4/6/97	7.00d
Agency Review	4/7/97	5/6/97	30.00d
Rod Finalized	5/7/97	5/7/97	1.00d
ROD Signature	5/8/97	5/10/97	3.00d

RI/FS Category 5

PSC 10: Commodore's Pond (Screening PSC)

PSC 14: Dredge Spoil Disposal Area (Screening PSC)

Screening PSCs being investigated and reported on concurrently with this OU include Screening PSC 10, Commodore's Pond and Screening **PSC 14, Dredge Spoil Disposal Area.**

PSC 10, Commodore's Pond (Screening PSC) — During the mid-nineteenth century, screening **PSC 10** was the location of a small surface water body used for the underwater storage of shaped oak timbers. This underwater storage method preserved the wood prior to its use for shipbuilding. The original pond's, no longer in existence, exact dimensions are unknown. PSC debris was unearthed in the late 1960s during trenching operations for installations of the IWTP system. Abandoned oak timbers were exhumed and reburied on Magazine Point. It is reported no hazardous materials were encountered during this effort.

PSC 14, Dredge Spoil Disposal Area (Screening PSC) — **PSC 14** has been used for placement of dredge materials removed from Pensacola Bay. These materials represent the sand, mud, and debris found at various depths within the Pensacola Bay dredged channels and basins.

Both **PSCs**, 10 and 14, are screening sites and do not require an enforceable schedule. However, the Navy offers a schedule for planning purposes.

1995 Secondary Deliverables

Due Date

Draft Site Characterization Report	10 May 95
Draft Final Report	05 Nov 95
Final Report	06 Dec 95

Table 10			
Category 5: Screening Sites 10 & 14 Schedule			
Tasks	Start Date	End Date	Duration (days)
CATEGORY 5: Screening Sites 10 & 14	2/3/95	12/6/95	307.00d
Site Characterization Report	2/3/95	12/6/95	307.00d
Prepare Draft Rpt	2/3/95	5/3/95	90.00d
Submit Draft Rpt	5/4/95	5/10/95	7.00d
Agency Review	5/11/95	8/8/95	90.00d
Navy rcvs comments	8/9/95	8/15/95	7.00d
Prepare Draft/Final	8/16/95	10/29/95	75.00d
Submit Draft/Final w/ comments	10/30/95	11/5/95	7.00d
Agency Review	11/6/95	12/5/95	30.00d
Rpt Finalized	12/6/95	12/6/95	1.00d

RI/FS Category 5: OU 8

PSC 3: Crash Crew Training Area

Near Sherman Airfield, personnel have been trained to fight aviation **fires** here since 1955. Ignitable fuels are poured into shallow, unlined depressions and **set a fire**. Fires were extinguished with foam agents. Eighteen (18) soil borings **were** taken to locate free products at this site. Six (6) monitoring wells were installed to monitor for volatile organic compounds (VOCs). No free product was found although halogenated **VOCs were** detected in three (3) of the monitoring wells. **A** storm drain parallel to the runway may affect the shallow groundwater flow direction. In addition to an in depth study, operation modifications eliminating the pouring of fuels directly into porous unlined pits have been adopted. The RI will include a determination of the storm drain discharge point. Since leaded gasoline is involved, the need to sample for heavy metals at the discharge point is indicated.

Screening PSC 19, Fuel Farm Pipeline **Leak** Area, and Screening PSC **37**, Sherman Field Fuel **Farm** Area, were investigated and moved to the **UST** Program.

1995 Primary Deliverable

Due Date

None in 1995

1995 Secondary Deliverables

Target Date

Quarterly Reports

31 Oct, 31 Jan, 30 Apr, 31 Jul

Projected Deliverables

Projected Date

Draft RI
 Draft/Final RI (P)
 Draft FS (P)
 Final RI (P)

16 Jan 96
 28 Jul 96
 10 Aug 96
 28 Aug 96

Table 11
Category 5: Operable Unit 8 Schedule

Tasks	Start Date	End Date	Duration (days)
CATEGORY 5: OU-8 (Site 3)	2/8/95	1/18/98	1,076.00d
Agency Review - Tech Memo	2/8/95	3/9/95	30.00d
Fieldwork - Phase II	3/10/95	5/8/95	60.00d
Data management	5/9/95	7/7/95	60.00d
Data Presentation	7/8/95	7/14/95	7.00d
Agency Review	7/15/95	8/13/95	30.00d
Fieldwork - Phase III	8/14/95	8/27/95	14.00d
Data management	8/28/95	10/11/95	45.00d
RI REPORT W/BRA	10/12/95	8/28/96	322.00d
Prepare Draft RI	10/12/95	1/9/96	90.00d
Submit Draft RI	1/10/96	1/16/96	7.00d
Agency Review	1/17/96	4/15/96	90.00d
Navy rcvs comments	4/16/96	4/22/96	7.00d
Prepare Draft/Final	4/23/96	7/21/96	90.00d
Submit Draft/Final w/comments	7/22/96	7/28/96	7.00d
Agency Review	7/29/96	8/27/96	30.00d
RI Finalized	8/28/96	8/28/96	1.00d
FEASIBILITY STUDY	1/17/96	3/23/97	432.00d
Prepare Draft FS (revision 2)	1/17/96	8/3/96	200.00d
Submit Draft FS	8/4/96	8/10/96	7.00d
Agency Review	8/11/96	11/8/96	90.00d
Navy rcvs comments	11/9/96	11/15/96	7.00d
Prepare Draft/Final	11/16/96	2/13/97	90.00d
Submit Draft/Final w/comments	2/14/97	2/20/97	7.00d
Agency Review	2/21/97	3/22/97	30.00d
FS Finalized	3/23/97	3/23/97	1.00d

Table 11
Category 5: Operable Unit 8 Schedule

Tasks	Start Date	End Date	Duration (days)
PROPOSED PLAN (PP)	11/16/96	12/8/97	388.00d
Prepare PP	11/16/96	2/13/97	90.00d
Submit Draft PP	2/14/97	2/20/97	7.00d
Agency Review	2/21/97	4/21/97	60.00d
Navy rcvs comments	4/22/97	4/28/97	7.00d
Prepare Draft/Final	4/29/97	7/27/97	90.00d
Submit Draft/Final w/comments	7/28/97	8/3/97	7.00d
Agency Review	8/4/97	9/2/97	30.00d
PP Finalized	9/3/97	9/3/97	1.00d
Prepare Public Notice	9/4/97	9/23/97	20.00d
Public Comment Period	9/24/97	11/7/97	45.00d
Public Meeting	11/8/97	11/8/97	1.00d
Responsiveness Summary	11/9/97	12/8/97	30.00d
RECORD OF DECISION (ROD)	7/28/97	1/18/98	175.00d
Prepare Draft ROD	7/28/97	8/26/97	30.00d
Submit Draft ROD	8/27/97	9/2/97	7.00d
Agency Review	9/3/97	10/17/97	45.00d
Navy rcvs comments	10/18/97	10/24/97	7.00d
Prepare Draft/Final	10/25/97	12/8/97	45.00d
Submit Draft/Final	12/9/97	12/15/97	7.00d
Agency Review	12/16/97	1/14/98	30.00d
Rod Finalized	1/15/98	1/15/98	1.00d
ROD Signature	1/16/98	1/18/98	3.00d

RI/FS Category 6: OU 4

PSC 15: Pesticide Rinsate Disposal Area

PSC 24: DDT Mixing Area (Screening PSC)

PSC 15, Pesticide Rinsate Disposal Area — PSC 15 is located at the golf course maintenance area. It was used for over sixteen (16) years as a disposal area for rinse water from cleaning pesticide mixing and spray equipment. It includes a septic tank and drain field system. The quantity disposed of in this area is unknown. Analysis of soil samples show the presence of organic pesticides and EP Toxic concentrations of arsenic in the soil. Two (2) shallow monitoring wells were installed. Analysis of groundwater for pesticides and PCB indicate arsenic is present in groundwater. Groundwater flow direction is presumed northerly towards the Bayou Grande. In depth studies will be conducted to help define the contamination plume and definitive flow direction.

PSC 24, DDT Miring Area (Screening PSC) — PSC 24 is being investigated and reported concurrently with this OU. From the early 1950s until the early 1960s, this PSC was used as a location for mixing DDT with diesel fuel for mosquitos control. Spill occurred within the mixing area when DDT was transferred from drums to spray tanks. The unintentional spillage of DDT concentrate may have contaminated site soil and groundwater.

These PSCs were grouped together mainly due to geographic proximity of PSCs, similar contamination types, and similar potential investigation methods. Prioritization of these PSCs was due to the suspected magnitudes and toxicity of contamination, the potential for off-site migration of contaminants via several pathways, and the potential for human exposure.

RUFS Category 6: OU 14

PSC 17: Transformer Storage Yard

PSC 18: **PCB** Spill (Screening PSC)

PSC 28: Transformer Accident Area (Screening PSC)

PSC 17, Transformer Storage Yard — Transformers containing PCBs as well as PCB-free transformers were stored on this paved area. A black oily residue on the pavement was found to contain high levels of PCBs as well as other chlorinated hydrocarbons. **Three** (3) soil borings drilled through the pavement found significant concentrations of PCBs near the catch basin; leakage through joints in the pavement is the suspected cause. PCB concentrations were below the EP toxic standard.

No sampling of soil outside of the paved area has been done. In addition, no samples were taken from sediments or soils within or under joints, cracks in the catch basin, or the storm sewer. Further study will be conducted on this PSC.

Screening PSC 18, PCB Spill Area and Screening PSC **28**, Transformer Accident Area are being investigated and reported on concurrently with this OU.

PSC 18, PCB Spill Area (Screening PSC) — In **1966** a transformer at Substation **A** reportedly failed, spilling approximately 50 gallons of transformer oil containing an unknown concentration of **PCBs** on the small gravel-covered area along the northeast side of substation **A**. It **is assumed** no clean-up effort was conducted. **During** IAS field investigations, **analysis** of a field sample indicated Aroclor 1260 was present at a concentration of **4** ppm, which was less than that considered hazardous under the Toxic **Substance** Control Act.

PSC 28, Transformer Accident Area (Screening PSC) — In 1969 a transformer fell from a **truck** traveling on Radford Boulevard, just north of Building **632**. The transformer broke open and

spilled approximately 50 gallons of transformer oil onto the pavement. It is not known whether the oil contained PCBs. The oil was reportedly washed into a nearby storm sewer drain. These PSCs were grouped together due to the following: geographic proximity of PSCs, similar contamination types, and similar groundwater flow. Prioritization of these PSCs **was** due to the suspected magnitude and toxicity of contamination, the potential for off-site migration of contaminants via several pathways, and the potential for human exposure.

1995 Primary Deliverables

Due Date

Draft/RI W/BRA (P) 19 Dec 95

1995 Secondary Deliverables

Tamet Date

Quarterly Reports 30 Apr, 31 Jul, 31 Oct, 31 Jan
 Draft Final SAP 02 ~~Mar~~ 95
 Final SAP 02 Apr 95

Projected Deliverables

Projected Date

Draft FS (P) 18 Jul 96
 Draft/Final RI (P) 10 Jul 96
 Final RI 09 Sep 96

Table 12
Category 6: (15,17,18,24,28) Schedule

Tasks	Start Date	End Date	Duration (days)
CATEGORY 6: (15,17,18,24,28)	1/10/95	2/24/98	1,142.00d
Prepare Draft Final	1/10/95	2/23/95	45.00d
Submit Draft Final SAP	2/24/95	3/2/95	7.00d
Agency Review	3/3/95	4/1/95	30.00d
Finalize SAP	4/2/95	4/2/95	1.00d
Fieldwork	4/3/95	7/1/95	90.00d
Data Management	7/2/95	8/30/95	60.00d
Data Presentation	8/31/95	9/6/95	7.00d
Agency Review	9/7/95	9/13/95	7.00d
RI REPORT w/ BRA	9/14/95	9/9/96	362.00d
Prepare Draft RI	9/14/95	12/12/95	90.00d
Submit Draft RI	12/13/95	12/19/95	7.00d
Agency Review	12/20/95	3/28/96	100.00d
Navy rcvs comments	3/29/96	4/4/96	7.00d
Prepare Draft/Final	4/5/96	7/3/96	90.00d
Submit Draft/Final w/comments	7/4/96	7/10/96	7.00d
Agency Review	7/11/96	9/8/96	60.00d
RI Finalized	9/9/96	9/9/96	1.00d
FEASIBILITY STUDY	12/20/95	3/30/97	467.00d
Prepare Draft FS (revision 2)	12/20/95	7/11/96	205.00d
Submit Draft FS	7/12/96	7/18/96	7.00d
Agency Review	7/19/96	10/16/96	90.00d
Navy rcvs comments	10/17/96	10/23/96	7.00d
Prepare Draft/Final	10/24/96	1/21/97	90.00d
Submit Draft/Final w/comments	1/22/97	1/28/97	7.00d
Agency Review	1/29/97	3/29/97	60.00d

Table 12
Category 6: (15,17,18,24,28) Schedule

Tasks	Start Date	End Date	Duration (days)
FS Finalized	3/30/97	3/30/97	1.00d
PROPOSED PLAN (PP)	10/24/96	11/30/97	403.00d
Prepare PP	10/24/96	1/21/97	90.00d
Submit Draft PP	1/22/97	1/28/97	7.00d
Agency Review	1/29/97	3/29/97	60.00d
Navy rcvs comments	3/30/97	4/5/97	7.00d
Prepare Draft/Final	4/6/97	7/4/97	90.00d
Submit Draft/Final w/comments	7/5/97	7/11/97	7.00d
Agency Review	7/12/97	8/25/97	45.00d
PP Finalized	8/26/97	8/26/97	1.00d
Prepare Public Notice	8/27/97	9/15/97	20.00d
Public Comment Period	9/16/97	10/30/97	45.00d
Public Meeting	10/31/97	10/31/97	1.00d
Responsiveness Summary	11/1/97	11/30/97	30.00d
RECORD OF DECISION (ROD)	7/5/97	2/24/98	235.00d
Prepare Draft ROD	7/5/97	8/18/97	45.00d
Submit Draft ROD	8/19/97	8/25/97	7.00d
Agency Review	8/26/97	10/24/97	60.00d
Navy rcvs comments	10/25/97	10/31/97	7.00d
Prepare Draft/Final	11/1/97	12/30/97	60.00d
Submit Draft/Final	12/31/97	1/6/98	7.00d
Agency Review	1/7/98	2/20/98	45.00d
Rod Finalized	2/21/98	2/21/98	1.00d
ROD Signature	2/22/98	2/24/98	3.00d

RI/FS Category 7: OU 13

PSC 22: Refueler Repair Shop

PSC 8: Rifle Range Disposal (Screening PSC)

PSC 22, Refueler Repair Shop — Residual fuel from aircraft refueling trucks was disposed here in preparation for repair work on the trucks. Leaded aviation gasoline and jet fuel were disposed over a nineteen (19) year period (1958-1977). Geraghty and Miller conducted a Verification Study of the PSC in 1984 consisting of fifteen (15) soil borings to determine the extent of fuel in the subsurface. It reported the water table was encountered at a depth of 4.5 feet below the land surface. No free product was detected during this study. Further studies will be conducted.

PSC 8, Rifle Range Disposal Area (Screening PSC) — PSC 8 is being investigated and reported on concurrently with this OU. The rifle range disposal area is located in the ~~area~~ now occupied by Building 3561. This building covers an area approximately 550 feet by 163 feet. Surrounding the building is an asphalt parking lot on the eastern, western and northern sides of the building. Along the southern side of the building lies a small grassy area. This area was reportedly used for the disposal of solid waste (primarily paper) from NAS Pensacola between 1951 and 1955, and disposal was accomplished by burning and burial.

These PSCs were grouped together due to the following: geographic proximity of PSCs, similar contamination types, and similar groundwater flow. Prioritization of these PSCs was due to the suspected magnitude and toxicity of contamination, the potential for off-site migration of contamination via several pathways, and the potential for human exposure.

1995 Primary Deliverable

Due Date

None in 1995

1995 Secondary Deliverables

Target Date

Quarterly Reports

30 Apr, 31 Jul, 31 Oct, 31 Jan

Draft SAP

22 Jul 95

Draft Final SAP (S)

03 Nov 95

Final SAP (S)

04 Dec 95

Projected Deliverable

Projected Date

Draft RI

20 Sep 96

Table 13			
Category 7: (4,5,6,7,8,16,22) 'Schedule			
Tasks	Start Date	End Date	Duration (days)
CATEGORY 7: (4,5,6,7,8,16,22)	6/1/95	11/17/98	1,266.00d
Prepare Draft SAP	6/1/95	7/15/95	45.00d
Submit Draft SAP	7/16/95	7/22/95	7.00d
Agency Review	7/23/95	9/5/95	45.00d
Navy rcvs comments	9/6/95	9/12/95	7.00d
Prepare Draft Final	9/13/95	10/27/95	45.00d
Submit Draft Final SAP	10/28/95	11/3/95	7.00d
Agency Review	11/4/95	12/3/95	30.00d
Finalize SAP	12/4/95	12/4/95	1.00d
Fieldwork	12/5/95	4/2/96	120.00d
Data management	4/3/96	6/1/96	60.00d
Data Presentation	6/2/96	6/8/96	7.00d
Agency Review	6/9/96	6/15/96	7.00d
RI REPORT w/ BRA	6/16/96	6/12/97	362.00d
Prepare Draft RI	6/16/96	9/13/96	90.00d
Submit Draft RI	9/14/96	9/20/96	7.00d
Agency Review	9/21/96	12/29/96	100.00d
Navy rcvs comments	12/30/96	1/5/97	7.00d
Prepare Draft/Final	1/6/97	4/5/97	90.00d
Submit Draft/Final w/comments	4/6/97	4/12/97	7.00d
Agency Review	4/13/97	6/11/97	60.00d
RI Finalized	6/12/97	6/12/97	1.00d
FEASIBILITY STUDY	9/21/96	12/21/97	457.00d
Prepare Draft FS (revision 2)	9/21/96	4/3/97	195.00d
Submit Draft FS	4/4/97	4/10/97	7.00d
Agency Review	4/11/97	7/9/97	90.00d
Navy rcvs comments	7/10/97	7/16/97	7.00d
Prepare Draft/Final	7/17/97	10/14/97	90.00d

Table 13
Category 7: (4,5,6,7,8,16,22) Schedule

Tasks	Start Date	End Date	Duration (days)
Submit Draft/Final w/comments	10/15/97	10/21/97	7.00d
Agency Review	10/22/97	12/20/97	60.00d
FS Finalized	12/21/97	12/21/97	1.00d
PROPOSED PIAN (PP)	7/17/97	8/23/98	403.00d
Prepare PP	7/17/97	10/14/97	90.00d
Submit Draft PP	10/15/97	10/21/97	7.00d
Agency Review	10/22/97	12/20/97	60.00d
Navy rcvs comments	12/21/97	12/27/97	7.00d
Prepare Draft/Final	12/28/97	3/27/98	90.00d
Submit Draft/Final w/comment responses	3/28/98	4/3/98	7.00d
Agency Review	4/4/98	5/18/98	45.00d
PP Finalized	5/19/98	5/19/98	1.00d
Prepare Public Notice	5/20/98	6/8/98	20.00d
Public Comment Period	6/9/98	7/23/98	45.00d
Public Meeting	7/24/98	7/24/98	1.00d
Responsiveness Summary	7/25/98	8/23/98	30.00d
RECORD OF DECISION (ROD)	3/28/98	11/17/98	235.00d
Prepare Draft ROD	3/28/98	5/11/98	45.00d
Submit Draft ROD	5/12/98	5/18/98	7.00d
Agency Review	5/19/98	7/17/98	60.00d
Navy rcvs comments	7/18/98	7/24/98	7.00d
Prepare Draft/Final	7/25/98	9/22/98	60.00d
Submit Draft/Final	9/23/98	9/29/98	7.00d
Agency Review	9/30/98	11/13/98	45.00d
Rod Finalized	11/14/98	11/14/98	1.00d
ROD Signature	11/15/98	11/17/98	3.00d

Category 8:

PSC 36: Industrial Wastewater Treatment Plant Sewer Line (Screening PSC)

The industrial waste sewer line is about 23,000 feet long and is located in **an area** approximately 1 mile wide by 1.5 miles long in the southeastern portion of **NAS** Pensacola. Flow within the sewer line is toward the Industrial Waste Treatment **Plant** which is located at the northeast end of the base. The entire line will be investigated for leaks. In addition to the industrial **waste** line, Building 3380 has been added to this investigation. Building 3380, now demolished for **BRAC** construction, was a storage facility for hazardous materials. The following schedule is provided for information only as this PSC is currently a screening site.

1995 Secondary Deliverables

Date

Draft SAP (S)	19 Jan 95
Draft Final SAP (S)	03 May 95
Final SAP (S)	03 Jun 95

Projected Deliverables

Date

Draft Report (S)	09 Jul 96
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Table 14
 Category 8: Screening Site 36 Schedule

buried

Tasks	Start Date	End Date	Duration (days)
EGORY 8: Screening Site 36	11/14/94	2/4/97	814.00d
are Draft SAP w/ BRAC data	11/14/94	1/12/95	60.00d
nit Draft SAP	1/13/95	1/19/95	7.00d
icy Review	1/20/95	3/5/95	45.00d
r cvs comments	3/6/95	3/12/95	7.00d
are Draft Final SAP	3/13/95	4/26/95	45.00d
nit Draft Final SAP	4/27/95	5/3/95	7.00d
cy Review	5/4/95	6/2/95	30.00d
ze SAP	6/3/95	6/3/95	1.00d
ork-Phase 1	6/4/95	7/3/95	30.00d
management	7/4/95	9/1/95	60.00d
pre tation	9/2/95	9/8/95	7.00d
cy Review	9/9/95	10/8/95	30.00d
ork-Phase 2	10/9/95	10/22/95	14.00d
management	10/23/95	12/21/95	60.00d
resentation	12/22/95	12/28/95	7.00d
y Review	12/29/95	1/27/96	30.00d
ork-Phase 3	1/28/96	2/3/96	7.00d
management	2/4/96	4/3/96	60.00d
haracterization Report	4/4/96	2/4/97	307.00d
e Draft Rpt	4/4/96	7/2/96	90.00d
: Draft Rpt	7/3/96	7/9/96	7.00d
v Review	7/10/96	10/7/96	90.00d
cvs comments	10/8/96	10/14/96	7.00d
e Draft/Final	10/15/96	12/28/96	75.00d
Draft/Final w/ comment responses	12/29/96	1/4/97	7.00d
R w	1/5/97	2/3/97	30.00d
alized	2/4/97	2/4/97	1.00d

Table 15
Category 9: Screening Site 43 Schedule

Tasks	Start Date	End Date	Duration (days)
CATEGORY 9: Screening Site 43	1/16/95	5/8/97	844.00d
Prepare Draft Work Plan/SAP	1/16/95	4/15/95	90.00d
Submit Draft Work Plan/SAP	4/16/95	4/22/95	7.00d
Agency Review	4/23/95	6/6/95	45.00d
Navy rcvs comments	6/7/95	6/13/95	7.00d
Prepare Draft Final Work Plan/SAP	6/14/95	7/28/95	45.00d
Submit Draft Final Work Plan/SAP	7/29/95	8/4/95	7.00d
Agency Review	8/5/95	9/3/95	30.00d
Finalize Work Plan/SAP	9/4/95	9/4/95	1.00d
Fieldwork-Phase 1	9/5/95	10/4/95	30.00d
Data management	10/5/95	12/3/95	60.00d
Data presentation	12/4/95	12/10/95	7.00d
Agency Review	12/11/95	1/9/96	30.00d
Fieldwork-Phase 2	1/10/96	1/23/96	14.00d
Data management	1/24/96	3/23/96	60.00d
Data presentation	3/24/96	3/30/96	7.00d
Agency Review	3/31/96	4/29/96	30.00d
Fieldwork-Phase 3	4/30/96	5/6/96	7.00d
Data management	5/7/96	7/5/96	60.00d
Site Characterization Report	7/6/96	5/8/97	307.00d
Prepare Draft Rpt	7/6/96	10/3/96	90.00d
Submit Draft Rpt	10/4/96	10/10/96	7.00d
Agency Review	10/11/96	1/8/97	90.00d
Navy rcvs comments	1/9/97	1/15/97	7.00d
Prepare Draft/Final	1/16/97	3/31/97	75.00d
Submit Draft/Final w/ comment responses	4/1/97	4/7/97	7.00d
Agency Review	4/8/97	5/7/97	30.00d
Rpt Finalized	5/8/97	5/8/97	1.00d