



Final

2011 Site Management Plan

Naval Station Treasure Island San Francisco, California

December 2011

Prepared for:

**Base Realignment and Closure
Program Management Office West
San Diego, California**

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Final

**2011 Site Management Plan
Naval Station Treasure Island
San Francisco, California**

Trevet Contract Number N62473-10-C-4403

PREPARED FOR:

DEPARTMENT OF THE NAVY

REVIEW AND APPROVAL

Project Manager: 
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ACRONYMS AND ABBREVIATIONS

ACM	Asbestos-containing material
AST	Aboveground storage tank
ATG	Allied Technology Group, Inc.
Bay	San Francisco Bay
Bay Bridge	San Francisco-Oakland Bay Bridge
BCT	Base Realignment and Closure Cleanup Team
BRAC	Base Realignment and Closure
Cal/EPA	California Environmental Protection Agency
Caltrans	California Department of Transportation
CAP	Corrective action plan
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CRP	Community relations plan
DDT	Dichlorodiphenyltrichloroethane
DTSC	Department of Toxic Substances Control
EBS	Environmental baseline survey
ed	Elapsed day
EE/CA	Engineering evaluation/cost analysis
ERM West	Environmental Resources Management West, Inc.
ESD	Explanation of significant differences
FFS	Focused feasibility study
FFSRA	Federal Facility Site Remediation Agreement
FHWA	Federal Highway Administration
FOSL	Finding of suitability to lease
FOST	Finding of suitability to transfer
FS	Feasibility study
FSS	Final status survey
GPR	Ground-penetrating radar
GWM	Groundwater monitoring
HHRA	Human health risk assessment
HRA	Historical radiological assessment
HUD	U.S. Department of Housing and Urban Development
IR	Installation Restoration
ISB	In situ bioremediation
LBP	Lead-based paint
LUC	Land use control
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
N/A	Not applicable
NAVSTA TI	Naval Station Treasure Island
Navy	Department of the Navy

ACRONYMS AND ABBREVIATIONS (Continued)

NFA	No further action
NTCRA	Non-time-critical removal action
OWS	Oil-water separator
PAH	Polycyclic aromatic hydrocarbon
PA/SI	Preliminary assessment/site inspection
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene (or perchloroethene)
PP	Proposed plan
RA	Remedial action
RAB	Restoration Advisory Board
RAP	Remedial action plan
RASO	Radiological Affairs Support Office
RCA	Radiological containment area
RD	Remedial design
RI	Remedial investigation
ROD	Record of decision
RTC	Response to comments
SEBS	Supplemental environmental baseline survey
Shaw	Shaw Environmental, Inc.
SI	Site inspection
SMP	Site Management Plan
SSPORTS	Supervisor of Shipbuilding, Conversion, and Repair, Portsmouth, Virginia, Environmental Detachment, Vallejo
SVOC	Semivolatile organic compound
SWDA	Solid waste disposal area
TBD	To be determined
TCE	Trichloroethene
Tetra Tech	Tetra Tech EM Inc.
TI	Treasure Island
TIDA	Treasure Island Development Authority
TPH	Total petroleum hydrocarbon
TSCA	Toxic Substances Control Act
USC	<i>United States Code</i>
USCG	U.S. Coast Guard
UST	Underground storage tank
VOC	Volatile organic compound
Water Board	Cal/EPA San Francisco Bay Regional Water Quality Control Board
WWTP	Wastewater treatment plant
YBI	Yerba Buena Island

1.0 INTRODUCTION

This is the annual update to the Naval Station Treasure Island (NAVSTA TI) Environmental Site Management Plan (SMP). The plan provides (1) the annual status of the strategies for the ongoing basewide environmental programs, and (2) an update to the schedules presented in the 1992 Federal Facility Site Remediation Agreement (FFSRA) for NAVSTA TI. The schedules included herein support the Joint California Execution Plan for NAVSTA TI, and the State's use of the EnviroStor deliverable tracking system, which is updated annually by the Department of the Navy (Navy) and the California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC). This plan reflects the Navy's current site-specific strategies and schedules to achieve site closure in a manner that is consistent with state and federal environmental requirements. The applicable environmental requirements are in programs that include the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Program, the Petroleum Program, the Polychlorinated Biphenyls (PCB) Program, the Residential Lead-Based Paint (LBP) Program, the Asbestos-Containing Material (ACM) Program, and the Radiological Program. These strategies represent an ongoing closure process of the Installation Restoration (IR) Program; as a result, the strategies and related schedules are subject to change.

The Department of Defense developed the IR Program in 1981 to comply with CERCLA and other federal and state environmental regulatory requirements. The IR Program is specific to military facilities and its purpose is twofold: (1) to identify, investigate, and clean up or control releases of hazardous substances; and (2) to reduce the risk to human health and the environment in a cost effective manner. NAVSTA TI's IR Program consists of two programs: the CERCLA Program and the Petroleum Program. Under the CERCLA Program, environmental investigations and cleanup began on NAVSTA TI in the mid-1980s and continues today. The initial facilitywide Preliminary Assessment/Site Inspection (PA/SI) was conducted in 1987 to identify areas on Treasure Island (TI) and Yerba Buena Island (YBI) that required further investigation. The Navy identified 33 IR sites (24 CERCLA sites, 9 petroleum sites) on TI and YBI.

Since 1987, the CERCLA program has evolved to include the following 24 sites:

- 12 CERCLA sites have been closed:
 - Sites 2, 18, and 23 as No Further Action (NFA) in PA/SI
 - Sites 1, 3, and 7 as NFA in Additional Site Investigation (SI)
 - Sites 9 and 10 as NFA in a Record of Decision (ROD)
 - Site 13 as NFA in a ROD
 - Site 28 as No Action in a ROD
 - Sites 5 and 17 merged with Site 24
- 12 CERCLA sites remain open:
 - 9 sites are undergoing investigation or remediation (Sites 6, 12, 21, 24, 27, 30, 31, 32, and 33). Six of these sites had interim removal actions (Sites 12, 21, 24, 30, 31, and 32).
 - 3 sites are awaiting completion of the San Francisco-Oakland Bay Bridge (Bay Bridge) before completing the CERCLA process (Sites 8, 11, and 29)

The Petroleum Program includes nine petroleum sites along with numerous underground storage tanks (UST) and fuel lines throughout TI and YBI. Since 1987, the following has evolved:

- 4 Petroleum sites were combined into 2 sites (Sites 4/19 and 14/22)
- 6 Petroleum sites have been closed (Sites 4/19, 14/22, 15, 16, 20, 25)
- 1 Petroleum site remains open (Site 6)
- USTs and pipeline sites:
 - Various USTs and pipeline sites have been closed (see [Appendix A](#) for details)
 - 2 Petroleum pipeline sites remain open (Site YF3 and Site U.S. Coast Guard [USCG] [UST 238])

This document is organized into two main sections (including this introduction), followed by tables, figures, and three appendices. [Section 2.0](#) provides an overview of the assumptions used to develop the site-specific schedules. These assumptions are driven by Navy contract funding execution plans, fiscal year remedial activities, and document production and review periods. [Table 1](#) shows the durations for standard production and review of the primary and secondary documents to be produced. Additional site-specific detail is provided on the information sheets included in [Appendix A](#) and in the environmental schedule provided in [Appendix B](#).

Completion dates for the forthcoming NAVSTA TI CERCLA documents are summarized by site in [Table 2](#). A summary of Petroleum Program closeout status is provided in [Table 3](#). [Table 4](#) is a schedule change tracking sheet that provides a brief reason for each schedule change reflected in [Table 2](#) and [Appendix B](#).

The NAVSTA TI Basewide Environmental Cleanup Program is illustrated on [Figure 1](#); the figure depicts the various program sites and transfer parcels on TI and YBI. The current program status for each site is included on the reverse side of [Figure 1](#).

The steps in the environmental closeout strategy for site closure under the CERCLA and Petroleum Programs are illustrated as flowcharts on [Figures 2 and 3](#), respectively. [Figures 4 and 5](#) present the timeline for site closure based on the site-specific schedules for the CERCLA and the Petroleum Programs, respectively. The locations of USTs on TI and YBI are shown on [Figures 6 and 7](#), respectively. The status of the PCB program is shown on [Figure 8](#). Transfer-related and environmental baseline survey (EBS) parcels are depicted on [Figure 9](#). The reuse scenarios from the 1996 draft reuse plan are shown on [Figure 10](#). The September 2008 TI/YBI Redevelopment Project Conceptual Land Plan, prepared for Treasure Island Development Authority (TIDA), is shown on [Figure 11](#).

2.0 SCHEDULE ASSUMPTIONS

A list of assumptions for the FFSRA schedule was developed and agreed to by the Base Realignment and Closure Cleanup Team (BCT) for NAVSTA TI. Each of the site-specific schedules is based on these assumptions, which are presented below. The approved production and review periods have been published since July 30, 2004 in the annual “Site Management Plan Naval Station Treasure Island, San Francisco, California,” formerly referred to as the “Environmental Closeout Strategy and Schedules.” [Table 1](#) presents the standard production and

review periods for both primary and secondary documents. [Table 2](#) summarizes completion dates, by site, for each step of the CERCLA closure process. These dates reflect the site-specific schedules in [Appendix B](#). [Table 3](#) summarizes the current closure status of sites in the Petroleum Program.

The assumptions below are incorporated into the FFSRA schedule for NAVSTA TI. Any modifications in the assumptions could necessitate a significant change in the schedule.

1. The Navy will reissue updates to the FFSRA schedule annually.
2. If the schedule changes for a document or other activity (such as field work) that is the critical path for subsequent activities or documents, then the schedule for these subsequent activities or documents will be accepted by the BCT. These changes will be documented in a schedule change tracking form ([Table 4](#)).
3. Consistent with the FFSRA, primary documents include remedial investigation (RI) reports, engineering evaluations/cost analyses (EE/CA), action memoranda, feasibility studies (FS), proposed plans (PP), RODs, remedial action plans (RAP), and remedial designs (RD). Findings of suitability to transfer (FOST) will follow the primary document schedule. All other documents are considered secondary.
4. The compliance program schedules are not required by the FFSRA. These compliance programs include Residential LBP, and other programs such as Petroleum, PCBs, and ACM. The Petroleum, PCB, ACM, and Residential LBP Program schedules are included for planning purposes, and are not enforceable by the regulatory agencies.
5. The specific closeout strategy and schedules for Sites 8, 11, and 29, and inactive fuel lines YF3 and USCG are impacted from continued Bay Bridge construction activities performed by the California Department of Transportation (Caltrans) in these areas.
6. In accordance with the FFSRA schedule, all parties have agreed to the following sequential process for the review of all primary documents (see revised production and review periods in [Table 1](#)):
 - A “scoping meeting” is included as a placeholder for the Navy and regulatory agencies to discuss the objectives of the document prior to preparing the document.
 - The Navy will be allowed at least a 90-day period to develop internal draft documents.
 - A 30-day period will be provided for the Navy to review internal draft documents.
 - A 60-day period will be provided for the Navy Radiological Affairs Support Office (RASO) to review documents with radiological components.
 - A 14-day period will be included for the Navy to distribute draft documents to the regulatory agencies. For FS, PP, ROD, and FOST documents, a 30-day period will be included for Navy legal review, followed by a 14-day period to distribute the draft documents to the regulatory agencies.

- A 30-day period will be provided for the regulatory agencies to review draft documents and submit written comments.
 - A 28-day period will be provided for the Navy to prepare preliminary responses to agency review comments received and distribute the responses to regulatory agencies for discussion and concurrence.
 - A “working meeting” is included as a placeholder for the Navy and regulatory agencies to discuss or resolve issues relating to a document. This working meeting may involve presenting the document and receiving or resolving comments submitted by the regulatory agencies.
 - A 30-day period will be provided for the Navy to develop internal final documents and finalize written responses to agency review comments that were submitted within the 30-day comment period.
 - A 10-day period will be included for the Navy to review internal final documents.
 - A 14-day period will be included for the Navy to distribute final documents.
 - A 14-day period will be included for the representatives of the regulatory agencies to accept the final documents. Documents automatically become final if no written comments are received within the 14-day comment period.
7. All parties have agreed to the following sequential process for all secondary documents (see revised production and review periods in [Table 1](#)):
- The Navy will be allowed at least a 30-day period to prepare internal draft documents.
 - A 14-day period will be provided for the Navy to review internal draft documents.
 - A 60-day period will be provided for the Navy RASO to review documents with radiological components.
 - A 7-day period will be included for the Navy to distribute draft documents to the regulatory agencies.
 - A 30-day period will be included for the regulatory agencies to review draft documents and submit written comments.
 - A “working meeting” is included as a placeholder for the Navy and regulatory agencies to discuss or resolve issues relating to a document. This working meeting may involve presenting the document and receiving or resolving review comments submitted by the regulatory agency.
 - A 33-day period will be provided for the Navy to develop internal final documents and written responses to agency review comments that were submitted within the 30-day comment period.
 - A 14-day period will be included for the Navy to review internal final documents.
 - A 14-day period will be included for the Navy to distribute final documents.

- A 14-day period will be provided for the representatives of the regulatory agencies to accept the final documents. Documents automatically become final if no written comments are received within the 14-day comment period.
8. In general, the following distribution will be followed for all documents, although certain exceptions or additions may apply to specific documents:
 - Regulatory agencies (DTSC, the Cal/EPA San Francisco Bay Regional Water Quality Control Board [Water Board], and U.S. Environmental Protection Agency, the City of San Francisco and its contractors, the Restoration Advisory Board (RAB) co-chair, and the RAB technical focus group will receive copies of primary and secondary documents.
 - Final copies of all primary and secondary documents will be available in the information repositories and are listed in the administrative record.
 9. Time for laboratory analysis and data validation is included in the dates specified for field work.
 10. The current site evaluation criteria will not change significantly to delay the documents or field investigations.
 11. For planning purposes, the durations of the field investigations are assumed to be (1) 90 days for a single-phase event; and (2) 180 days for a multiple-phase event, up to three phases.
 12. For planning purposes, the remedial action (RA) field durations are assumed to be (1) 90 days for a small to medium RA with no groundwater concerns, (2) 250 days for a large RA with no groundwater concerns, and (3) 365 days for an RA with groundwater concerns.

TABLE 1: DOCUMENT PRODUCTION AND REVIEW PERIODS
 Site Management Plan, Naval Station Treasure Island, San Francisco, California

FFSRA Guidelines		Revised Production and Review Periods*	
Primary Documents ^a			
N/A	----	Scoping Meeting	****
Internal Draft	90 ed	Internal Draft	90 ed
Navy Review	15 ed	Navy Technical Review	30 ed ^b
N/A	----	Revise Internal Draft	14 ed ^c
N/A	----	Navy Legal Review	30 ed ^c
Draft	15 ed	Draft	14 ed
Agency Review	60 ed	Agency Review	30 ed
N/A	----	Preliminary Draft RTCs	28 ed ^d
N/A	----	Working Meeting	****
Internal Draft Final	46 ed	Internal Draft Final	----
Navy Review	7 ed	Navy Review	----
Draft Final	7 ed	Draft Final	----
Agency Review	30 ed	Agency Review	----
Internal Final	46 ed	Internal Final	30 ed
Navy Review	7 ed	Navy Review	10 ed
Final	7 ed	Final	14 ed
Total:	330 ed	Total:	290 ed
Secondary Documents ^e			
Internal Draft	60 ed	Internal Draft	30 ed
Navy Review	7 ed	Navy Review	14 ed
Draft	7 ed	Draft	7 ed
Agency Review	30 ed	Agency Review	30 ed
N/A	----	Working Meeting	****
Draft Final	30 ed	Draft Final	----
Agency Review	30 ed	Agency Review	----
Internal Final	46 ed	Internal Final	33 ed
Navy Review	7 ed	Navy Review	14 ed
Final	7 ed	Final	14 ed
Total:	224 ed	Total:	142 ed

Notes:

- a Primary documents include remedial investigation reports, engineering evaluations/cost analyses, action memoranda, feasibility studies, remedial designs, proposed plans, and records of decision/remedial action plans. Findings of suitability to transfer will also follow the primary document schedule.
 - b Primary or secondary documents with radiological components require a 60-day review by the Navy's Radiological Affairs Support Office.
 - c The 14-day revised internal draft and Navy legal review is required for feasibility studies, proposed plans, and records of decision/remedial action plans.
 - d The 28-day schedule includes drafting the response to comments, review of responses by Navy, and distribution for agency review.
 - e Secondary documents include, but are not limited to, technical memoranda, design strategies, summary reports, sampling and analysis plans, quality assurance project plans, and work plans.
 - * The revised document production and review periods were approved by the Base Realignment and Closure Cleanup Team in 2004 ("Environmental Closeout Strategy and Schedules, Naval Station Treasure Island, San Francisco, California," dated July 30, 2004, and published by SulTech). In some cases, standard production and review periods may not be followed.
 - **** Working meetings and scoping meetings are included as placeholders for the Navy and regulatory agencies to discuss a document, receive review comments, or to discuss or resolve issues relating to a document.
- ed Elapsed day (or calendar day, as opposed to a working day) N/A Not applicable
 FFSRA Federal Facility Site Remediation Agreement RTC Response to comment

TABLE 2: SUMMARY OF FORTHCOMING CERCLA DOCUMENTS AND PHASES

Site Management Plan, Naval Station Treasure Island, San Francisco, California

CERCLA Primary Documents	Date Complete	CERCLA Primary Documents	Date Complete
Site 6 (CERCLA)		Site 27	
RI/FS	04/13/12	✓ PP	06/02/11
PP/ROD/RAP	12/18/13	ROD/RAP	04/09/12
RD/RA	10/05/15	RD/RA	08/01/13
Site 12		Site 28	
RI	03/25/12	✓ PP/ROD/RAP	11/22/10
Bigelow Court NTCRA	02/01/13		
FS	05/15/13	Site 30	
SWDA NTCRA	04/12/15	LUC Inspection/Reporting	Ongoing
PP/ROD/RAP	09/08/18		
RD/RA	01/01/21	Site 31	
Site 21		RD/RA	10/20/12
PP/ROD/RAP	05/21/12	Site 32	
RD/RA (GWM)	06/21/18	PP/ROD/RAP	03/10/12
Site 24		Site 33	
PP/ROD/RAP	09/06/14	RD/RA	08/31/12
RD/RA (GWM)	08/15/20		

Notes:

PP/ROD/RAP end date is considered the date the ROD is signed.

The "Date Complete" represents the end date of the final document as reflected in the Environmental Schedule in [Appendix B](#).

✓	Complete
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
FS	Feasibility study
GWM	Groundwater monitoring
LUC	Land use covenant
NTCRA	Non-time-critical removal action
PP	Proposed plan
RA	Remedial action
RAP	Remedial action plan
RD	Remedial design
RI	Remedial investigation
ROD	Record of decision
SWDA	Solid waste disposal area

TABLE 3: PETROLEUM SITE SUMMARY

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
UST 1A, 1E, 368A, and 2C	38D9601 38D9602 38D9603 38D9604	UST 1A UST 1E UST 368A UST 2C	UST Closure	Draft UST Closure Report for UST Sites 1A, 1E and 368A at Naval Station Treasure Island. October 2000. AGS Inc. Draft Summary Report of UST Removals, Naval Station Treasure Island. January 20, 1994. PRC Environmental Management, Inc.	February 25, 2002	Regional Water Board UST case closure letter.
UST 180C, Building 180	38D9605	UST 180C	UST Closure	Final Closure Report Building 180 Request for No Further Action. August 15, 2005. Shaw Environmental, Inc.	October 11, 2005	Regional Water Board UST case closure letter.
Pipeline D4A UST 201	38D9606	Pipeline	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA ¹ concurrence letter.
		UST 201	UST Closure	Draft Final UST Investigation Report for UST Sites 143, 180C, 201, 227, and 368B at Naval Station Treasure Island. January 2001. AGS Inc. Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board UST case closure letter.
Building 227	38D9607	UST 227	UST Closure	Final Closure Report, Site 227, Request for No Further Action, Naval Station Treasure Island. August 16, 2004. Shaw Environmental, Inc.	September 21, 2004	Regional Water Board UST case closure letter.
UST 368B	38D9608	UST 368B	UST Closure	Final Closure Report UST 368B Request for No Further Action, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	December 17, 2003	Regional Water Board UST case closure letter.

¹ USTs with known releases to the environment are closed pursuant to Title 23 of the *California Code of Regulations*. If the UST was used to store heating oil and had a capacity of less than 1,100 gallons or a release has not occurred, the Navy will request NFA and submit a letter to the Regional Water Board for concurrence. For UST sites that have received no further action concurrence, the Navy has demonstrated to the Regional Water Board that no further action is required. For UST sites that have received regulatory closure, the Navy has completed all site investigations and remedial action related to the UST site.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
Site 6	38D9609	USTs (240A, 240B, 248A, 248B, 248C, and 248D) ASTs (248, 240)	UST Closure, AST NFA, Site NFA	Final Closure Report Site 06 Request for No Further Action, Naval Station Treasure Island. December 16, 2005. Shaw Environmental, Inc.	TBD	Petroleum program investigations completed, report requesting NFA concurrence submitted, concurrence with NFA not granted. ² Ongoing groundwater monitoring at the site. Navy is planning for additional investigation at USTs 240 and 248.
Sites 14/22	38D9610	ASTs (4, 5, and 456) Existing Decommissioned ASTs (6A, 6B, 6C, 6E, 6F, and 6G) Removed USTs (85, 330A, 330B, 330E, and 330F)	UST Closure AST NFA Site NFA	Final Closure Report Site 14/22 Request for No Further Action, Naval Station Treasure Island. June 13, 2005. Shaw Environmental, Inc.	July 18, 2005	Regional Water Board NFA concurrence letter.
Site 20	38D9611	See UST 225A-D	Site NFA	Final Closure Report Site 20 Request for No Further Action Naval Station Treasure Island. January 2004. Tetra Tech EM Inc.	June 17, 2004	Regional Water Board NFA concurrence letter.
USTs 225 A-D	38D9611	USTs 225 A-D (Site 20)	UST Closure	Final Closure Report Site 20 Request for No Further Action Naval Station Treasure Island. January 2004. Tetra Tech EM Inc.	May 5, 2004	Regional Water Board UST case closure letter.

² Letter dated May 15, 2006, from A. Friedman, Regional Water Board, Water Resource Control Engineer, to Ellen Casados, Navy Remedial Project Manager. Regarding Regional Water Board Staff Comments on Final Closure Report, Site 6, Request for No Further Action, Naval Station Treasure Island, San Francisco.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
USCG	38D9612	Pipeline	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	TBD	Regional Water Board did not concur with NFA and requested additional investigation. ³ Investigation is on hold until completion of the Bay Bridge project. USTs associated with this site are tracked on a separate line.
		UST 270	UST Closure	Final UST Investigation Report, for Former UST Tank Site 270 at Naval Station Treasure Island. August 1999. ERM West. Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board UST case closure letter.
Building 66	38D9613	UST 66	UST Closure	Final Post Construction Summary Report Building 66 Remedial Excavation Naval Station Treasure Island. December 11, 2002. IT Corporation	October 23, 2002	Regional Water Board UST case closure letter.
USTs 204	38D9614	USTs 204 A, B, C, D (no release)	UST NFA	Final Post Construction Summary Report, UST Sites 204, 237, and 238, Naval Station Treasure Island. May 24, 2004. Shaw Environmental, Inc.	June 17, 2004	Regional Water Board NFA concurrence letter.
UST 237	38D9614	UST 237 (previously suspected)	UST NFA	Final Post Construction Summary Report, UST Sites 204, 237, and 238, Naval Station Treasure Island. May 24, 2004. Shaw Environmental, Inc.	June 17, 2004	NFA for UST 237 requested; however, petroleum-impacted soil (likely from the USCG site) remains in the vicinity. Report recommended additional investigation. Since a tank was not present, a case closure letter is not required.

³ Letter date illegible (February 2004) from S. Raker, Regional Water Board Engineering Geologist, to Ellen Casados, Navy Remedial Project Manager, Concurrence on Final Corrective Action Plan (CAP), Inactive Fuel Lines, Naval Station Treasure Island.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
Site 25	38D9615	USTs (143A through 143I, and 2B)	UST Closure, Site NFA	Final Closure Report Site 25 Request for No Further Action, Naval Station Treasure Island. December 7, 2005. Shaw Environmental, Inc. Final Addendum to Closure Report Site 25 Request for No Further Action, Naval Station Treasure Island. January 29, 2010. Shaw Environmental, Inc. Targeted Soil Gas Investigation Results and Vapor Intrusion Pathway Evaluation and Site Closure Request Technical Memorandum, Site 25, Naval Station Treasure Island, March 7, 2011. Shaw Environmental, Inc.	October 28, 2011	Petroleum program investigations completed, report requesting NFA concurrence submitted, concurrence with NFA not granted. ⁴ Additional soil samples were collected in 2009 and a final revised request for NFA concurrence was submitted. At the request of the BCT, additional soil gas sampling was conducted in late 2010 and early 2011. The Regional Water Board concurred with NFA for Site 25 in an October 28, 2011 letter.
Pipeline D1B	38D9616	None	Groundwater and Site NFA	Final Addendum to Closure Report, Site D1B, Request for No Further Action for Shallow Soils, Naval Station Treasure Island. February 28, 2006. Shaw Environmental, Inc.	May 15, 2006	Regional Water Board NFA concurrence letter.
		None	Shallow Soil NFA	Final Closure Report, Site D1B, Request for No Further Action for Shallow Soils, Naval Station Treasure Island. April 18, 2005. Shaw Environmental, Inc.	July 20, 2005	Regional Water Board NFA concurrence letter.
Pipeline F2A/F2B	38D9617	USTs (14A and 14B) (suspected removed) ASTs (103 and 104)	UST NFA, AST NFA, Site NFA	Final Closure Report, Sites F2A and F2B, Request for No Further Action, Naval Station Treasure Island. July 15, 2005. Shaw Environmental, Inc.	August 19, 2005	Because tanks are not present, a case closure letter is not required (The Regional Water Board concurred NFA required for USTs and ASTs in a May 9, 2005 letter.).

⁴ Letter dated May 15, 2006, from A. Friedman, Regional Water Board, Water Resource Control Engineer, to Ellen Casados, Navy Remedial Project Manager. Regarding Regional Water Board Staff Comments on Final Closure Report, Site 25, Request for No Further Action, Naval Station Treasure Island, San Francisco.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
Site 15	38D9618	None	AST and Site NFA	Final Closure Report, Site 15, Request for No Further Action, Naval Station Treasure Island. September 15, 2004. Shaw Environmental, Inc.	September 27, 2004	No USTs are associated with this site.
		None	Shallow Soil NFA	Final Post Construction Summary Report, Site 15 Remedial Excavation, Naval Station Treasure Island. November 19, 2003. Shaw Environmental Inc.	December 1, 2003	Regional Water Board NFA concurrence letter.
UST QR08, 230, and 257	38D9701	UST QR08	UST Closure	Underground Storage Tank Removal Summary Report for Tanks 248A, 248B, 257, QTR8, 180D, and 180E Naval Station Treasure Island. March 1997. Navy. Draft Tank Removal Summary Report, Naval Station Treasure Island, California. August 31, 1990. PRC Environmental Management, Inc. (Includes UST 230 TI.)	October 3, 1997	Regional Water Board UST case closure letter.
	38D9702	UST 230 (TI)				
	38D9703	UST 257				
UST 1B, 1C, 1D, 1F, 2A, 2D, 111, 169, 180A, 180B, 300D, and 330C	38D9704	UST 1B	UST Closure	Report on Abandoned Underground Storage Tank Investigation at Naval Station Treasure Island. April 1989. ERM West.	July 22, 1996	Regional Water Board UST case closure letter.
	38D9704	UST 1C				
	38D9704	UST1D				
	38D9705	UST 1F				
	38D9706	UST 2A				
	38D9707	UST 2D				
	38D9708	UST 330C				
	38D9708	UST 330D				
	38D9709	UST 180A				
	38D9709	UST 180B				
	38D9710	UST 111				
38D9711	UST 169					
UST 469 (1G)	UTOO3878	UST 469	City and County of San Francisco UST Closure UST Closure	Draft Final UST Closure Report at Building 369, Naval Station Treasure Island. May 2000. AGS Inc.	July 7, 2000	City and County of San Francisco UST Closure letter.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
UST 238 (YBI)	--	UST 238 (YBI)	UST Closure	--	TBD	Suspected tank in USCG Site. Ground-penetrating radar was inconclusive in search for the tank; further investigation on hold until completion of the Bay Bridge project. ⁵
Pipeline YF3	--	None	Pipeline NFA	--	TBD	Regional Water Board letter received February 12, 2004, requested additional investigation. Investigation is on hold until completion of the Bay Bridge project. The Navy is planning additional investigation.
UST 140, 221, and 230	--	UST 140 (TI) UST 221 (YBI) UST 230 (YBI) (previously suspected)	UST NFA, UST Closure (221)	Final Post Construction Summary Report, UST Sites 140, 221, and 230, Naval Station Treasure Island. May 6, 2004. Shaw Environmental, Inc.	June 17, 2004 Not Received (UST 221)	UST 140: previously suspected tank. Unable to locate with further investigation; Regional Water Board concurred with NFA. UST 230: previously suspected tank. Unable to locate with further investigation; Regional Water Board concurred with NFA. UST 221 located and removed; no evidence of leaking observed. Navy requested closure of UST; Regional Water Board concurred with NFA. Therefore no closure letter required.
Site 16	--	10 Former ASTs	Site NFA	Final Closure Report Site 16 Clipper Cove Tank Farm Request for No Further Action, Naval Station Treasure Island. April 27, 2004. Shaw Environmental, Inc.	June 17, 2004	Regional Water Board NFA concurrence letter.

⁵ Letter dated June 17, 2004, from S. Raker, Regional Water Board Engineering Geologist, to Ellen Casados, Navy Remedial Project Manager. Regarding Concurrence on Request for No Further Action, USTs 204 and 237, Naval Station Treasure Island, San Francisco.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
Pipeline YF2	--	None	Pipeline NFA	Final Post Construction Summary Report, YF2, Naval Station Treasure Island San Francisco. June 2, 2004. Shaw Environmental, Inc.	June 17, 2004	Regional Water Board NFA concurrence letter.
Pipeline D1A	--	None	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline D1C	--	None	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline D2A	--	UST 26 (suspected removed)	Pipeline/UST NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline D2B	--	None	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline D4B	--	UST 29 (suspected removed)	Pipeline/UST NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline D5	--	UST 15 (suspected removed)	Pipeline/UST NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline YF1	--	None	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Site 4/19	--	None	Site NFA	Final Closure Report Site 04/19 Request for No Further Action Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	December 17, 2003	Regional Water Board NFA concurrence letter.
Facilitywide UST	--	16 previously suspected USTs	UST NFA	Final Facilitywide Underground Storage Tank Summary Report, Naval Station Treasure Island. October 2003. Tetra Tech EM Inc.	December 2, 2003	Regional Water Board NFA concurrence letter.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
Home Heating Oil UST 57 and 234	--	UST 57 UST 234	UST NFA	Report on Abandoned Underground Storage Tank Investigation at Naval Station Treasure Island. April 1989. ERM West.	September 5, 2003	Regional Water Board NFA concurrence letter.
Parcel T086	--	None	Site NFA	Final Post Construction Summary Report Parcel T086 Exploratory Trenching Naval Station Treasure Island. June 11, 2003. Shaw Environmental, Inc.	July 9, 2003	Regional Water Board NFA concurrence letter.
Building 530 Pipeline	--	None	Pipeline NFA	Final Post Construction Summary Report Building 530 Pipeline Removal and Closure Naval Station Treasure Island. June 11, 2003. IT Corporation.	July 9, 2003	Regional Water Board NFA concurrence letter.
Causeway Pipeline	--	None	Pipeline NFA	Final Post Construction Summary Report Causeway Pipeline Removal and Closure Naval Station Treasure Island. January 20, 2003. IT Corporation.	March 11, 2003	Regional Water Board NFA concurrence letter.
Home Heating Oil UST 1-7, 9, 10, 62, and 240	--	UST 1-7, 9, 10, 62, and 240	UST NFA	Summary of the Closure-in-Place of Eleven Underground Home Heating Oil Tanks at Yerba Buena Island, Naval Station Treasure Island. December 31, 1996. Navy.	July 23, 2002	Regional Water Board NFA concurrence letter.
UST 180D and 180E	--	UST 180D and 180E (no release)	UST NFA	Underground Storage Tank Removal Summary Report for Tanks 248A, 248B, 257, QTR8, 180D, and 180E Naval Station Treasure Island. March 1997. Navy.	October 3, 1997	Regional Water Board NFA concurrence letter.

Notes: Gray shading indicates action required. **Bold text** indicates sites that are not closed.

AST	Aboveground storage tank	TBD	To be determined
Bay Bridge	San Francisco-Oakland Bay Bridge	TI	Treasure Island
CAP	Corrective Action Plan	USCG	U.S. Coast Guard
ERM West	Environmental Resources Management West, Inc.	UST	Underground storage tank
GPR	Ground penetrating radar	Water Board	Cal/EPA San Francisco Bay Regional Water Quality Control Board
N/A	Not applicable	YBI	Yerba Buena Island
NFA	No further action		

TABLE 4: SCHEDULE CHANGE TRACKING FORM – OCTOBER 2010 THROUGH DECEMBER 2011

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Site	Item	October 2010 Finish Date	December 2011 Finish Date	Change*	Change in Months	Reason	Initiator
CERCLA Program							
Site 6	RI / FS Report	8/13/11	4/13/12	Updated	7	RI and FS combined into one document	Navy/Contractor
Site 12	RI Report	8/14/11	3/19/12	Updated	1.5	Delay in delivering internal draft and draft, responding to agency comments	Contractor
	Individual SWDA Final Status Surveys	--	4/12/15	Added	--	Updated to reflect radiological path forward	Navy
	NTCRA Work Plan (Bigelow Court)	5/13/11	5/27/12	Updated	9	Delays due to Navy review	Navy
	Bayside/North Point PCSR	--	3/21/12	Added	--		Navy
	Site-wide (non-SWDA) Radiological Characterization / Field Work / Report	--	12/26/13	Added	--		Navy
Site 21	Soil Gas Investigation	--	1/4/12	Added	--		Navy
	Soil Gas HHRA Addendum	--	5/17/12	Added	--	Delays in finalizing report	Navy
Site 24	Expanded Treatability Study Monitoring Work Plan / Field Work and Report (Phase III)	--	10/18/13	Added	--	Expanded to conduct enhancement sampling	Navy
	Soil Gas Investigation	--	1/4/12	Added	--		Navy
Site 28	NFA ROD / RAP	12/24/10	11/22/10	Early	1		All
Site 29	Boundary Change Letter (On-Off Ramps)	12/13/10	12/22/10	Updated	0.5	Delays due to finalizing letter	Navy/Contractor
	Boundary Change Letter (Artifacts)	--	12/28/11	Added	--		Navy
Site 30	Land Use Control Work Plan	11/24/10	12/2/10	Updated; Completed	week	Delay due to agency reviews, RTC concurrence, and finalization of work plan	All
Sites 31 / 33	Explanation of Significant Differences for Site 31 ROD/RAP	3/28/11	5/24/11	Updated; Completed	2	Site 33 was added to Site 31 ROD/RAP because sites share similar history, have similar chemicals of concern, and will undergo same remedial action	Navy/Contractor
	Phase II Remedial Action Field Work Plan for Sites 31 / 33	4/19/11	12/23/11	Updated	8		Navy/Contractor

TABLE 4: SCHEDULE CHANGE TRACKING FORM – OCTOBER 2010 THROUGH DECEMBER 2011 (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Site	Item	October 2010 Finish Date	December 2011 Finish Date	Change*	Change in Months	Reason	Initiator
CERCLA Program (Continued)							
Sites 31 / 33 (Cont'd)	Sites 31 / 33 Gamma Walk Over Survey	--	10/20/12	Added	--	Gamma walk over surveys added for both Sites 31 and 33	Navy
Site 32	Post-Construction Revised HHRA	9/1/10	NA	Early; Completed	2	HHRA information delivered to BCT at September 2010 BCT meeting; agreement that a full revised HHRA was not necessary	Navy
Petroleum Program							
Site 6 (UST 240)	Additional Investigation Work Plan	9/21/11	2/7/12	Updated	4.5	Delayed award date	Navy
USCG	Additional Investigation Work Plan / Field Work / Report	--	11/17/14	Added	--	Added based on Water Board comment to conduct additional investigation	Navy
UST YF3	Additional Investigation Work Plan / Field Work / Report	1/3/12	6/7/15	Updated	8.5	Delayed award date	Navy
Radiological Program							
Building 233	Footprint Remediation, Characterization, and Final Status Survey Work Plan	3/19/11	12/22/11	Updated	10	Delays due to Navy review and path forward discussions with BCT	Navy
NA	Historical Radiological Assessment (HRA) Technical Memorandum	NA	7/4/12	Added	--	Added to addend the 2006 HRA	Navy

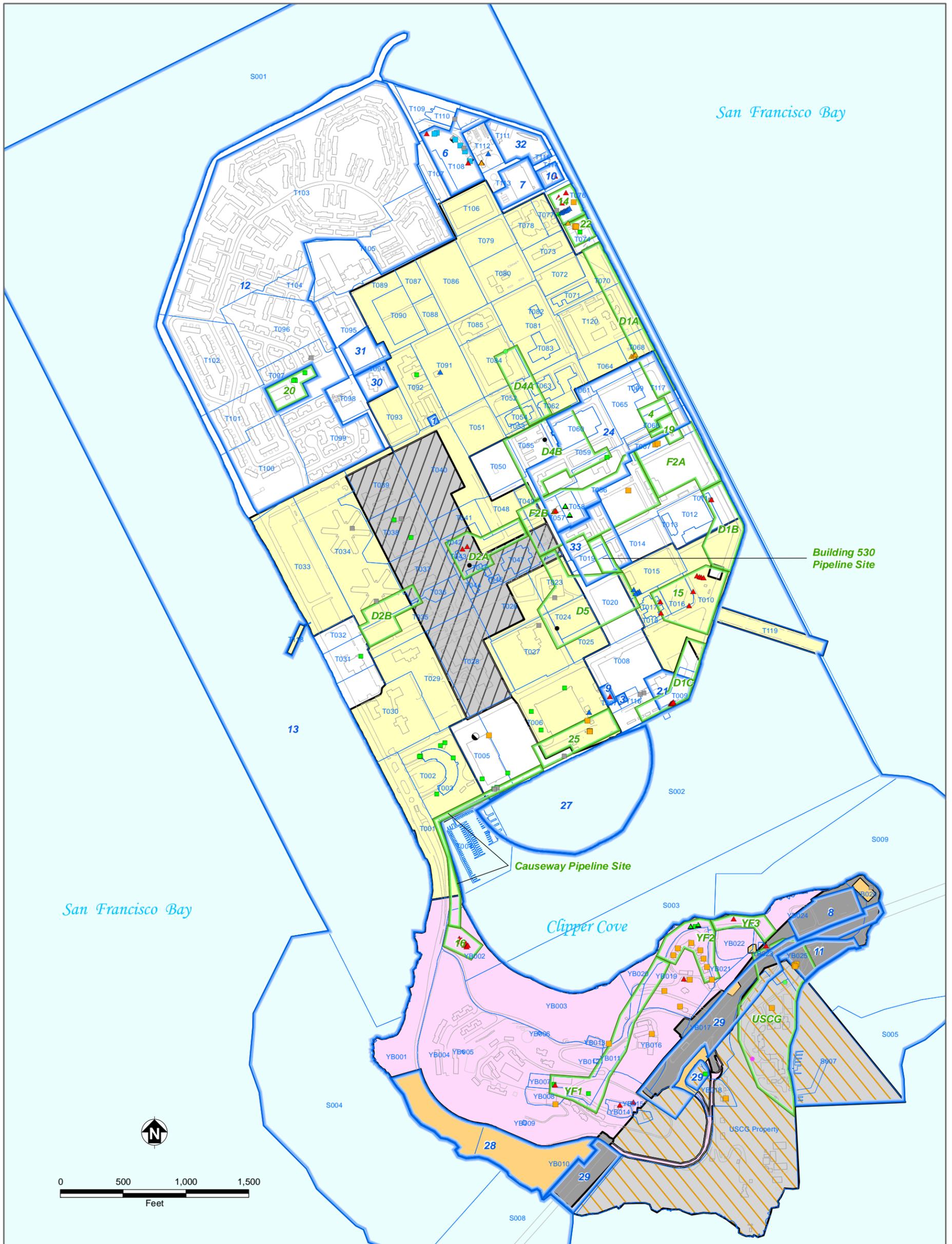
Notes:

* Items in this table are reflective of fundamental changes of site milestone scheduling since the issuance of the "Site Management Plan, Naval Station Treasure Island, San Francisco, California," dated October 29, 2010, and published by Tetra Tech EM Inc.

-- Not applicable; document not previously listed in the October 2010 schedule, duration remains unchanged, or document or activity was cancelled.

BCT	Base Realignment and Closure Cleanup Team	RAP	Remedial action plan
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	RI	Remedial Investigation
FS	Feasibility study	ROD	Record of decision
HHRA	Human health risk assessment	RTC	Response to comments
NA	Not applicable	SMP	Site management plan
NFA	No further action	SWDA	Solid waste disposal area
NTCRA	Non-time critical removal action	UST	Underground storage tank
PCB	Polychlorinated biphenyl	USCG	United States Coast Guard
PCSR	Post Construction Summary Report	Water Board	Cal/EPA San Francisco Bay Regional Water Quality Control Board
PP	Proposed plan		

FIGURES



- TRANSFER PARCELS:**
- TI FOST Property (FOST 1)
 - YBI FOST Property (FOST 2)
 - YBI FOST Property (FOST 3)
 - Caltrans Property
 - Job Corps Property
 - U.S. Coast Guard Property
 - EBS Parcel
- INVESTIGATION SITES:**
- Petroleum Program Sites
 - CERCLA Program Sites
 - Building
 - Road Edge

- UNDERGROUND STORAGE TANKS:**
- Closed
 - Closed via Inactive Fuel Lines CAP
 - Further Investigation
 - NFA Concurrence
 - NFA via Inactive Fuel Lines CAP
 - NFA Requested
 - Never Existed
- ABOVEGROUND STORAGE TANKS:**
- Closed-in-Place
 - Active
 - Inactive
 - Removed
- OIL-WATER SEPARATORS:**
- Potential
 - Removed

- Notes:**
- Caltrans California Department of Transportation
 - CAP Corrective Action Plan
 - CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 - EBS Environmental baseline survey
 - FOST Finding of suitability to transfer
 - NFA No further action
 - TI Treasure Island
 - USCG United States Coast Guard
 - YBI Yerba Buena Island

1. All white areas are untransferred property. This also includes the submerged area south of Parcel 1.

(See Figures 7 and 8 for individual tank identification and location.)



Naval Station Treasure Island
Department of the Navy, BRAC PMO West, San Diego, CA

FIGURE 1
CERCLA SITES, PETROLEUM SITES,
AND TRANSFER PARCELS

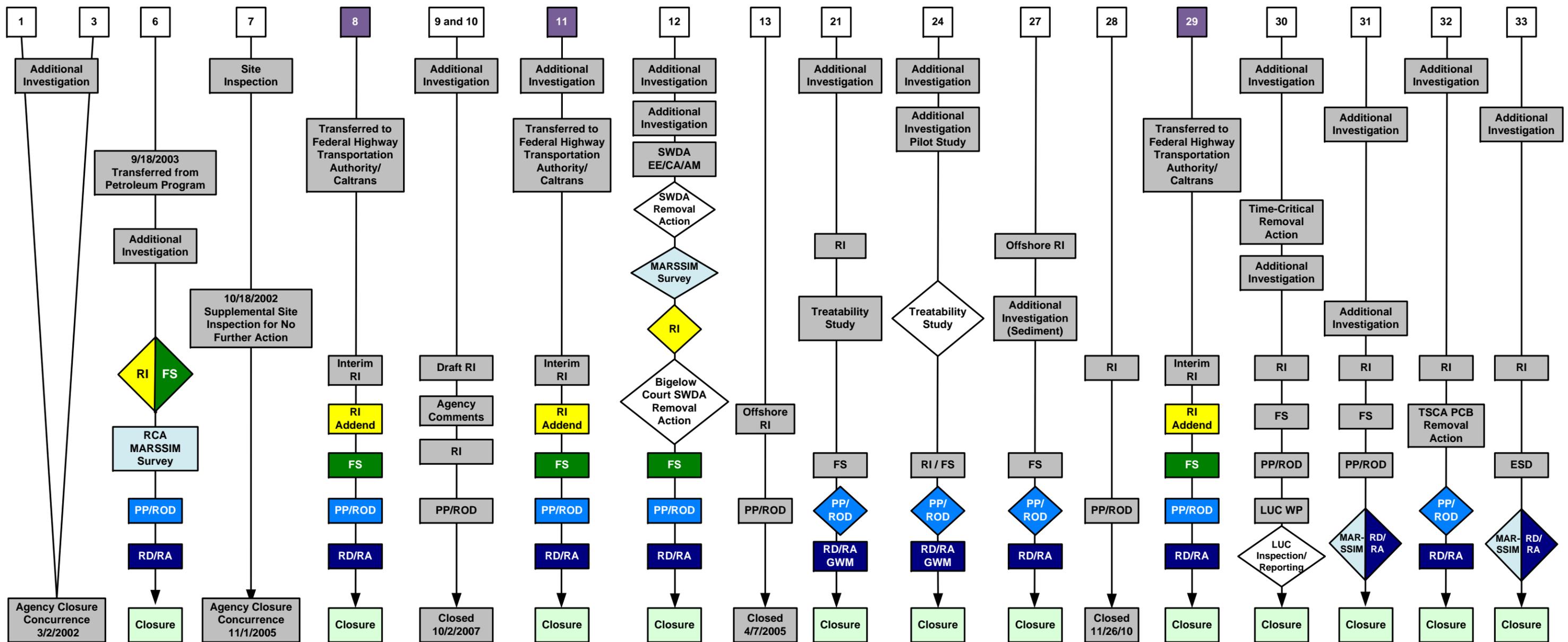
Site Management Plan 2011

**NAVAL STATION TREASURE ISLAND
CERCLA AND PETROLEUM RELATED SITE INFORMATION**

CERCLA SITE	SITE DESCRIPTION	CONTAMINANTS OF CONCERN	STATUS
Site 1	Medical Clinic – X-ray and photo processing laboratory was on site.	Silver	Site closed. Received agency concurrence on March 20, 2002.
Site 2	Radiation Training Area	Radionuclides	Site closed. Site recommended for NFA in 1988 Final PA/SI.
Site 3	PCB Equipment Storage Area – Area was used to store and repair transformers.	PCBs	Site closed. Received agency concurrence on March 20, 2002.
Site 5	Old Boiler Plant – Facility was incorporated into Site 24.	Petroleum	Site closed. Merged into Site 24 by letter dated January 17, 2001.
Site 6	Fire Training School – Area was used for Navy firefighting training for nearly 50 years.	Dioxins and furans, TPH, VOCs, PAHs	Transferred from Petroleum Program on September 18, 2003. Additional investigation (data gap investigation) is complete. RI/FS report being prepared.
Site 7	Pesticide Storage Area – Area was used to store pesticides, herbicides, and paint.	Metals, pesticides, herbicides	Site closed. Received agency concurrence on November 1, 2005.
Site 8	Army Point Sludge Disposal Area - Area was used to dispose of sludge from the wastewater treatment plant for approximately 8 years.	SVOCs and metals	Interim RI report for Sites 8 and 29 submitted March 6, 2009.
Site 9	Foundry – Area was used as a forge and foundry, paint shop, and welding school.	Iron, benzo(a)pyrene, dibenz(a,h)anthracene	Site closed. No Action ROD signed October 2, 2007.
Site 10	Bus Painting Shop – Shop was used for bus painting, paint mixing, storage of pest control solutions.	Iron, benzo(a)pyrene, dibenz(a,h)anthracene	Site closed. No Action ROD signed October 2, 2007.
Site 11	YBI Landfill – Area was used as a landfill for various debris.	TPH, PAHs, VOCs, metals	Interim RI report was submitted January 27, 2010.
Site 12	Old Bunker Area – Area housed ammunition bunkers, and areas for equipment storage, refuse, and solid waste incineration. Later military housing construction and earth work spread contaminants in surface soil across site.	PCBs, TPH, PAHs, dioxins, arsenic, lead, radium-226 and debris	Non-time critical removal action in solid waste disposal areas underway. RI report is being prepared.
Site 13	Stormwater Outfalls/Offshore Sediments – Stormwater system conveys water from surface and building drains to the Bay without treatment, and offshore sediments may be contaminated from onshore sites.	Metals, PAHs, PCBs, DDT, TPH	Site closed. No Action ROD signed April 7, 2005.
Site 17	Tanks 103/104 – Two 200,000-gallon aboveground diesel storage tanks were incorporated into Site 24.	Petroleum, oil, lubricants, PCBs	Site closed. Merged into Site 24 by letter dated January 17, 2001.
Site 18	Possible asbestos contamination on YBI was incorporated into asbestos investigations.	Asbestos	Site closed.
Site 21	Vessel Waste Oil Recovery Area – Area was used as an oil-water separator facility and for aircraft maintenance.	VOCs and TPH	Treatability study completed March 7, 2011. Soil gas investigation being conducted. ROD is being prepared.
Site 23	YBI fuel line rupture/land slide was not recommended for further remedial investigation.	NA	Site closed.
Site 24	Dry Cleaning Facility – Area was used as a laundry and dry cleaning facility for at least 35 years.	Petroleum, oil, lubricants, chlorinated solvents	Treatability study of plume area in operation.
Site 27	Clipper Cove Skeet Range – Skeet range was operated for 10 years.	Lead shot, lead, PAHs	ROD is being prepared.
Site 28	West Side On/Off Ramp – Maintenance of ramps included use of lead-based paint.	Lead	ROD finalized November 22, 2011.
Site 29	East Side On/Off Ramp – Maintenance of ramps included use of lead-based paint.	Lead and SVOCs	Interim RI report for Sites 8 and 29 submitted March 6, 2009.
Site 30	Daycare Center – Area was undeveloped until 1985 when daycare facility was constructed. Includes burn debris burial areas.	Dioxins and metals	ROD finalized August 5, 2009. Land use controls inspections ongoing.
Site 31	Former South Storage Yard – Area appears in aerial photos to have been used as a storage yard during the 1970s.	Lead, dioxin, PAH, PCBs, TPH, radium-226	ROD finalized August 5, 2009. Remedial action ongoing.
Site 32	Former Training and Storage Area – Area was used for hazardous materials storage and for tear gas training area and storage. Contains a transformer pad.	PCBs, TPH, dioxins, pesticides, arsenic	ROD is being prepared.
Site 33	Water Line Replacement Area – Area where debris was observed in water line trench during extensive historical repairs.	Arsenic and lead	Explanation of Significant Differences was finalized May 2011. Remedial action ongoing.
PETROLEUM-RELATED SITE	SITE DESCRIPTION	CONTAMINANTS OF CONCERN	STATUS
Site 4/19	Hydraulic Training School/Refuse Transfer Area – Area housed 15 55-gallon drums of waste oil, and fenced area used for the transfer, holding, and disposal of refuse for approximately 35 years.	Petroleum, oil, lubricants	NFA concurrence letter received from Water Board dated December 17, 2003.
Site 6	Fire Training School – Area was used for Navy firefighting training for nearly 50 years.	Dioxins and furans, TPH, VOCs, PAHs	Closure report requesting NFA submitted December 16, 2005. Water Board did not concur with request for NFA. Moved to CERCLA Program on September 18, 2003. Groundwater monitoring to be conducted under CERCLA Program. UST 240s investigation is being planned.
Site 14/22	New Fuel Farm/Navy Exchange Service Station – Area was the primary storage and distribution area for fuels for more than 50 years.	Petroleum, oil, lubricants, VOCs	NFA concurrence letter received from Water Board dated July 18, 2005.
Site 15	Old Fuel Farm – Original fuel storage and distribution facility, much of which was moved to New Fuel Farm by 1945.	Petroleum, oil, lubricants	NFA concurrence letter received from Water Board dated September 2004.
Site 16	Clipper Cove Tank Farm – Area stored aviation gasoline and automotive diesel for more than 20 years.	Petroleum, oil, lubricants	NFA concurrence letter received from Water Board dated June 17, 2004.
Site 20	Auto Hobby Shop/Transportation Center – Area has been used for steam cleaning and degreasing vehicles and for storage of hydraulic fluid and recycled oil.	Petroleum, oil, lubricants, VOCs	NFA concurrence letter received from Water Board dated June 17, 2004.
Site 25	Seaplane Maintenance Area – Three areas are used for storing and maintaining vehicles and seaplanes.	Petroleum, oil, lubricants	NFA concurrence letter received from Water Board dated October 28, 2011.
Pipeline Sites	Inactive fuel pipelines.	Petroleum	NFA concurrence letters for selected pipelines sites received from Water Board on various dates; further investigation and site completion are planned for YF3 and USCG.
UST Sites (Site 26)	Underground storage tanks.	Petroleum	Various NFA concurrence letters received; NFA concurrence requested for USTs at Site 6; UST 238 on YBI awaits completion of Caltrans activities.

Notes:

Bay	San Francisco Bay	NFA	No further action	TPH	Total petroleum hydrocarbons
Caltrans	California Department of Transportation	PAH	Polycyclic aromatic hydrocarbons	TSCA	Toxic Substances Control Act
Cal/EPA	California Environmental Protection Agency	PA/SI	Preliminary assessment/site inspection	USCG	U.S. Coast Guard
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PCB	Polychlorinated biphenyls	UST	Underground storage tank
DDT	Dichlorodiphenyltrichloroethane	RI	Remedial investigation	VOC	Volatile organic compounds
FS	Feasibility study	ROD	Record of decision	Water Board	Cal/EPA San Francisco Bay Regional Water Quality Control Board
Metals	Chromium, arsenic, beryllium, thallium, lead, manganese, nickel, and cadmium	SVOC	Semivolatile organic compounds	YBI	Yerba Buena Island



Legend:

- Shape indicates current ongoing activity, activities below this point are anticipated as of this update.
- Shading indicates activity completed
- Caltrans property
- Indicates RI or RI Addendum
- MARSSIM Survey
- Indicates FS
- Indicates PP/ROD
- Indicates RD/RA
- Indicates Site Closure

- Notes:**
- AM Action memorandum
 - Caltrans California Department of Transportation
 - CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 - EE/CA Engineering evaluation / cost analysis
 - ESD Explanation of significant differences
 - NFA No further action
 - FS Feasibility study
 - GWM Groundwater monitoring
 - LUC Land use control
 - MARSSIM Multi-Agency Radiation Survey and Site Investigation Manual
 - PA/SI Preliminary assessment/site inspection
 - PCB Polychlorinated biphenyl
 - PP Proposed plan
 - RA Remedial action
 - RCA Radiological containment area
 - RD Remedial design
 - RI Remedial investigation
 - ROD Record of decision
 - SWDA Solid waste disposal area
 - TI Treasure Island
 - TSCA Toxic Substances Control Act
 - WP Work plan

Flow chart refers to the potential overall site strategy. These strategies represent an ongoing closure process; therefore, they and any related schedules are subject to change. Specific sites may be completed earlier.

Sites 1 and 3 received NFA concurrence from agencies March 20, 2002.

Sites 2, 18, and 23 were recommended for NFA in the PA/SI.

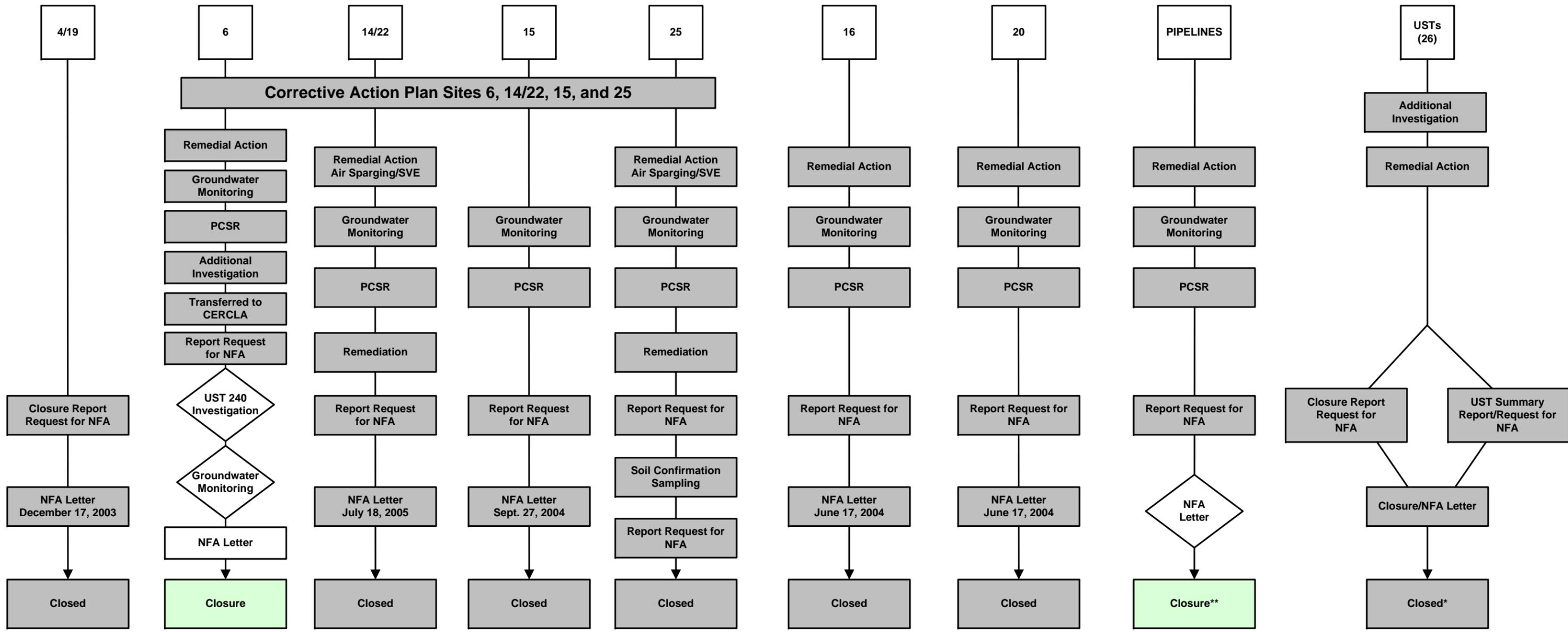
Sites 5 and 17 were merged into Site 24 by letter dated January 17, 2001.

Because of Caltrans activities in the vicinity of Sites 8, 11, and 29, which may result in the removal of known contamination, standard CERCLA schedules are based on Caltrans' quarterly schedule. The Navy finalized the interim RI reports for these sites.

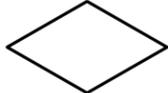
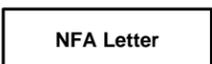
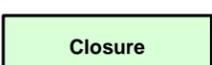


Naval Station Treasure Island
 Department of the Navy, BRAC PMO West, San Diego, CA

FIGURE 2
CERCLA PROGRAM SITE STRATEGY
FLOW CHART
 Site Management Plan 2011



Legend:

-  Shape indicates current ongoing activity, activities below this point are anticipated as of this date.
-  Shading indicates activity completed
-  Report Request for NFA Indicates Report and Request for No Further Action
-  NFA Letter Indicates No Further Action Concurrence Letter
-  Closure Indicates Site Closure

- Notes:**
- Caltrans California Department of Transportation.
 - FOSET Finding of suitability for early transfer
 - FOST Finding of suitability to transfer
 - NFA No further action
 - PA/SI Preliminary assessment/site inspection
 - PCSR Post-construction summary report
 - SVE Soil vapor extraction
 - TI Treasure Island
 - USCG United States Coast Guard
 - UST Underground storage tank
 - YBI Yerba Buena Island

Flow chart refers to the potential overall site strategy. These strategies represent an ongoing closure process; therefore, they, and any related schedules, are subject to change. Specific sites may be completed earlier.

* Work has been completed at 16 USTs on Tt, including 240A, 240B, and 248A through 248D (Site 6) and 143A through 143I and 2B (Site 25). These tanks were proposed for closure in their respective site closure reports; however, further investigations are planned for the areas surrounding the former UST 240A and 240B.

** Additional investigation is being planned for pipeline Site YF3 and USCG (UST 238).



Naval Station Treasure Island
Department of the Navy, BRAC PMO West, San Diego, CA

**FIGURE 3
PETROLEUM PROGRAM SITE
STRATEGY FLOW CHART**

Site Management Plan 2011

PETROLEUM PROCESS MILESTONES		2003				2004				2005				2006				2007				2008				2009				2010				2011				2012			
		Jan	Apr	Jul	Oct																																				
Site 4/19	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 6	Additional Investigation																																								
	Corrective Action Plan																																								
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	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 14/22	Site Investigation																																								
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	Closure Summary Report																																								

Notes:

- UST = Underground storage tank
- USCG = US Coast Guard
- ✓ = Site completion
- ➔ = Schedule extends beyond 2012

* Timelines refer to overall schedule. Specific milestones may be completed at a different date.

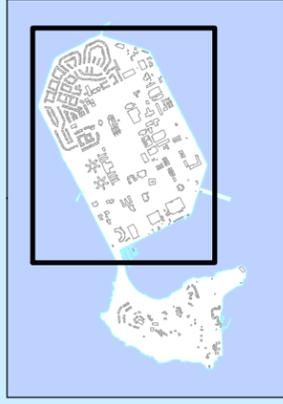
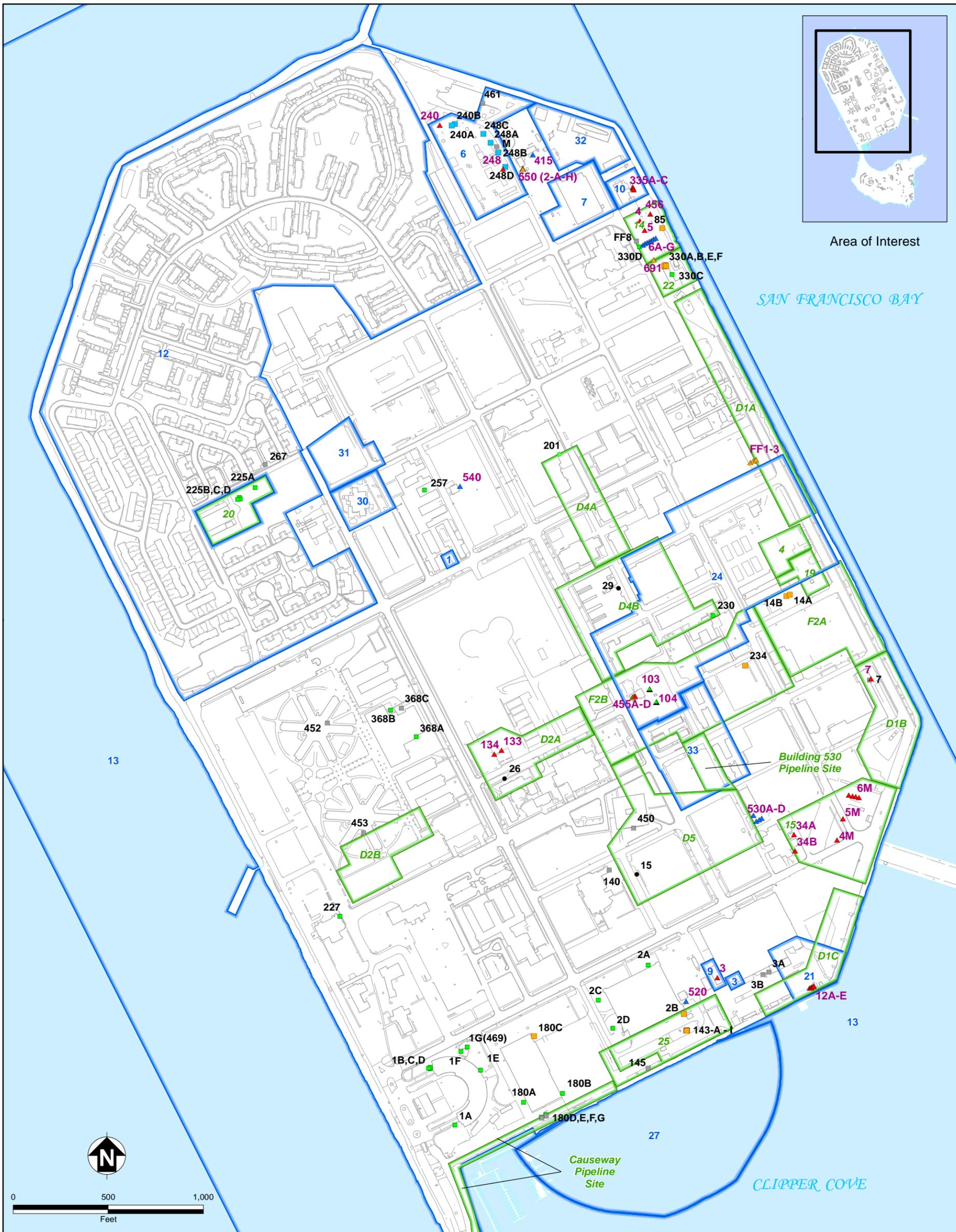
- 1 USTs 240A, 240B, 248A through 248D are associated with Installation Restoration (IR) Site 6 and still require closure before Site 6 can be closed.
- 2 Additional investigation required for UST 238 is on hold until Caltrans completes work in the area.
- 3 Additional investigation is being planned for pipeline sites YF3 and USCG.



Naval Station Treasure Island
Department of the Navy BRAC PMO West, San Diego, CA

FIGURE 5
TIMELINE TO CLOSURE
PETROLEUM PROGRAM

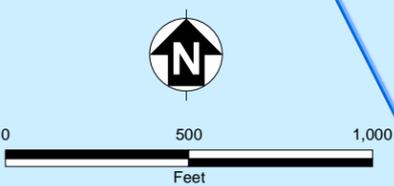
Site Management Plan 2011



Area of Interest

SAN FRANCISCO BAY

CLIPPER COVE



ABOVEGROUND STORAGE TANKS
(labeled in purple)

- ▲ Closed-in-Place
- ▲ Active
- ▲ Inactive
- ▲ Removed

UNDERGROUND STORAGE TANKS
(labeled in black)

- Closed
- Closed via Inactive Fuel Lines CAP
- Further Investigation
- NFA Concurrence
- NFA via Inactive Fuel Lines CAP
- NFA Requested
- Never Existed

INVESTIGATION SITES:

- Petroleum Program Sites
- CERCLA Program Sites

Notes:
 AST Aboveground Storage Tank
 CAP Corrective Action Plan
 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 NFA No further action
 UST Underground Storage Tank

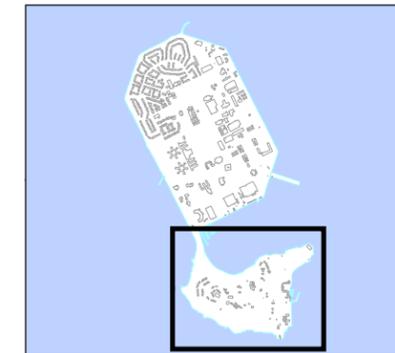
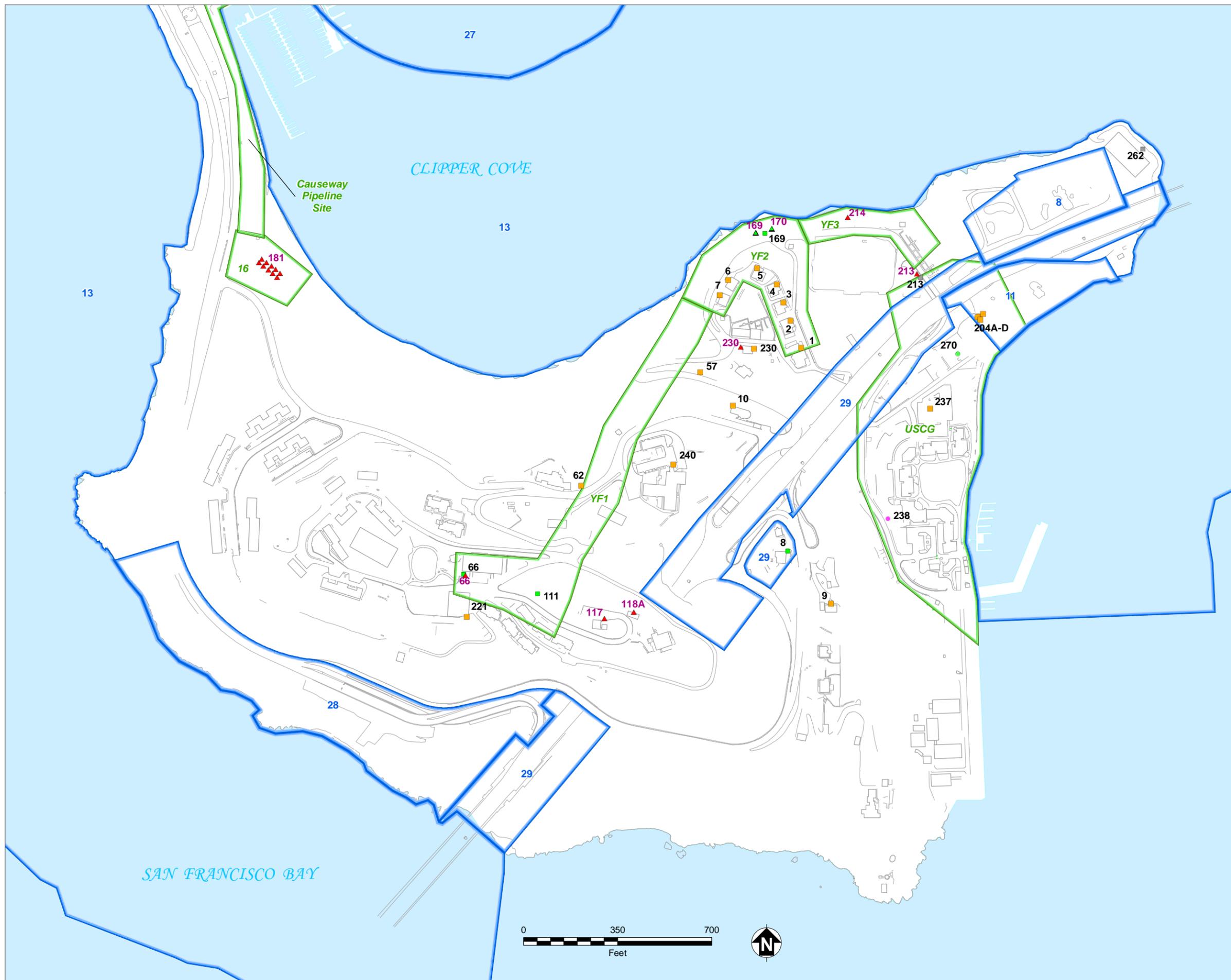
UST and AST point locations are not actual USTs or ASTs drawn to scale or shape for the purpose of this figure. The point locations are used to show relative locations of USTs and ASTs.



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FIGURE 6
UNDERGROUND STORAGE TANKS
LOCATION MAP
TREASURE ISLAND

Site Management Plan 2011



Area of Interest

INVESTIGATION SITES

- Petroleum Program Sites
- CERCLA Program Sites

ABOVEGROUND STORAGE TANKS (labeled in purple)

- ▲ Closed-in-Place
- ▲ Active
- ▲ Inactive
- ▲ Removed

UNDERGROUND STORAGE TANKS (labeled in black)

- Closed
- Closed via Inactive Fuel Lines CAP
- Further Investigation
- NFA Concurrence
- NFA via Inactive Fuel Lines CAP
- NFA Requested
- Never Existed

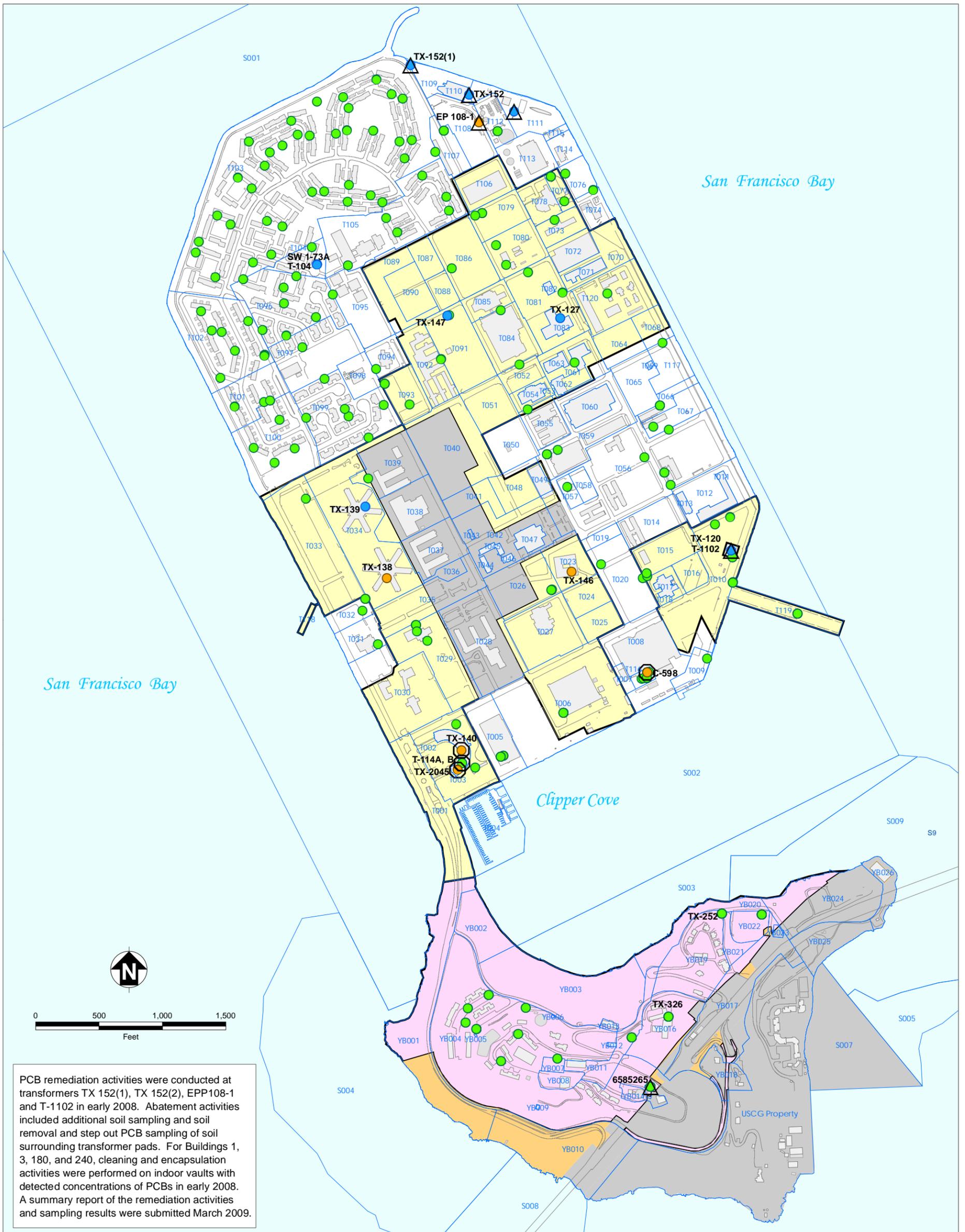
Notes:
 AST Aboveground Storage Tank
 CAP Corrective Action Plan
 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 NFA No Further Action
 USCG United States Coast Guard
 UST Underground Storage Tank
 YBI Yerba Buena Island

UST and AST point locations are not actual USTs or ASTs drawn to scale or shape for the purpose of this figure. The point locations are used to show relative locations of USTs and ASTs.



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FIGURE 7
UNDERGROUND STORAGE TANKS
LOCATION MAP
YERBA BUENA ISLAND
 Site Management Plan 2011



PCB remediation activities were conducted at transformers TX 152(1), TX 152(2), EPP108-1 and T-1102 in early 2008. Abatement activities included additional soil sampling and soil removal and step out PCB sampling of soil surrounding transformer pads. For Buildings 1, 3, 180, and 240, cleaning and encapsulation activities were performed on indoor vaults with detected concentrations of PCBs in early 2008. A summary report of the remediation activities and sampling results were submitted March 2009.

- TI FOST Property (FOST 1)
- YBI FOST Property (FOST 2)
- YBI FOST Property (FOST 3)
- Previously Transferred Property
- EBS Parcel
- Building
- Road Edge or Similar Landscape Feature

- cm² Centimeter squared
- EBS Environmental baseline survey
- FOST Finding of suitability to transfer
- mg/kg Milligrams per kilogram
- NFA No Further Action
- PCB Polychlorinated biphenyls
- TI Treasure Island
- TSCA Toxic Substances Control Act
- USCG United States Coast Guard
- YBI Yerba Buena Island
- µg Micrograms per kilogram

ELECTRICAL EQUIPMENT SAMPLING LOCATIONS

- Above Criteria for Low Occupancy
- Below Criteria for Low Occupancy and Above Criteria for High Occupancy
- Below Criteria for High and Low Occupancy
- Remediated Location, NFA Concurrence Received
- Remediation by Encapsulation, Inspections Required

1. All white areas are untransferred property. This also includes the submerged area south of Parcel 1.

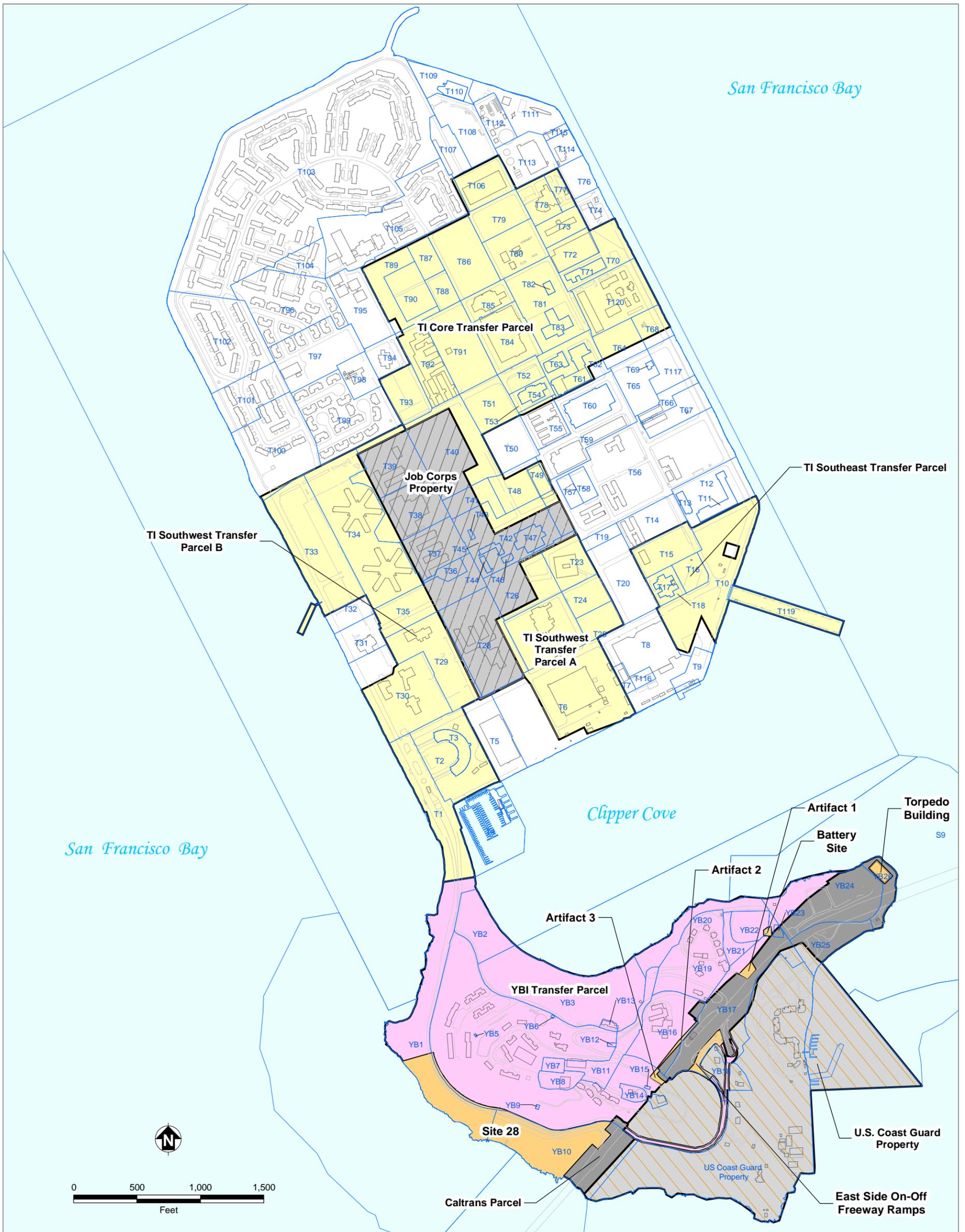
Comparison Criteria
 Low Occupancy Criteria = 25 mg/kg or 100 µg/100 cm²
 High Occupancy Criteria = 1 mg/kg or 10 µg/100 cm²



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**FIGURE 8
 PCB PROGRAM STATUS**

Site Management Plan 2011



- TI FOST Property (FOST 1)
- YBI FOST Property (FOST 2)
- YBI FOST Property (FOST 3)
- Caltrans Property
- Job Corps Property
- U.S. Coast Guard Property
- EBS Parcel
- Building
- Appurtenance
- Road Edge

Notes:
 Caltrans California Department of Transportation
 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 EBS Environmental baseline survey
 FOST Finding of suitability to transfer
 PCB Polychlorinated biphenyls
 TI Treasure Island
 YBI Yerba Buena Island

1. All white areas are untransferred property. This also includes the submerged area south of Parcel 1.

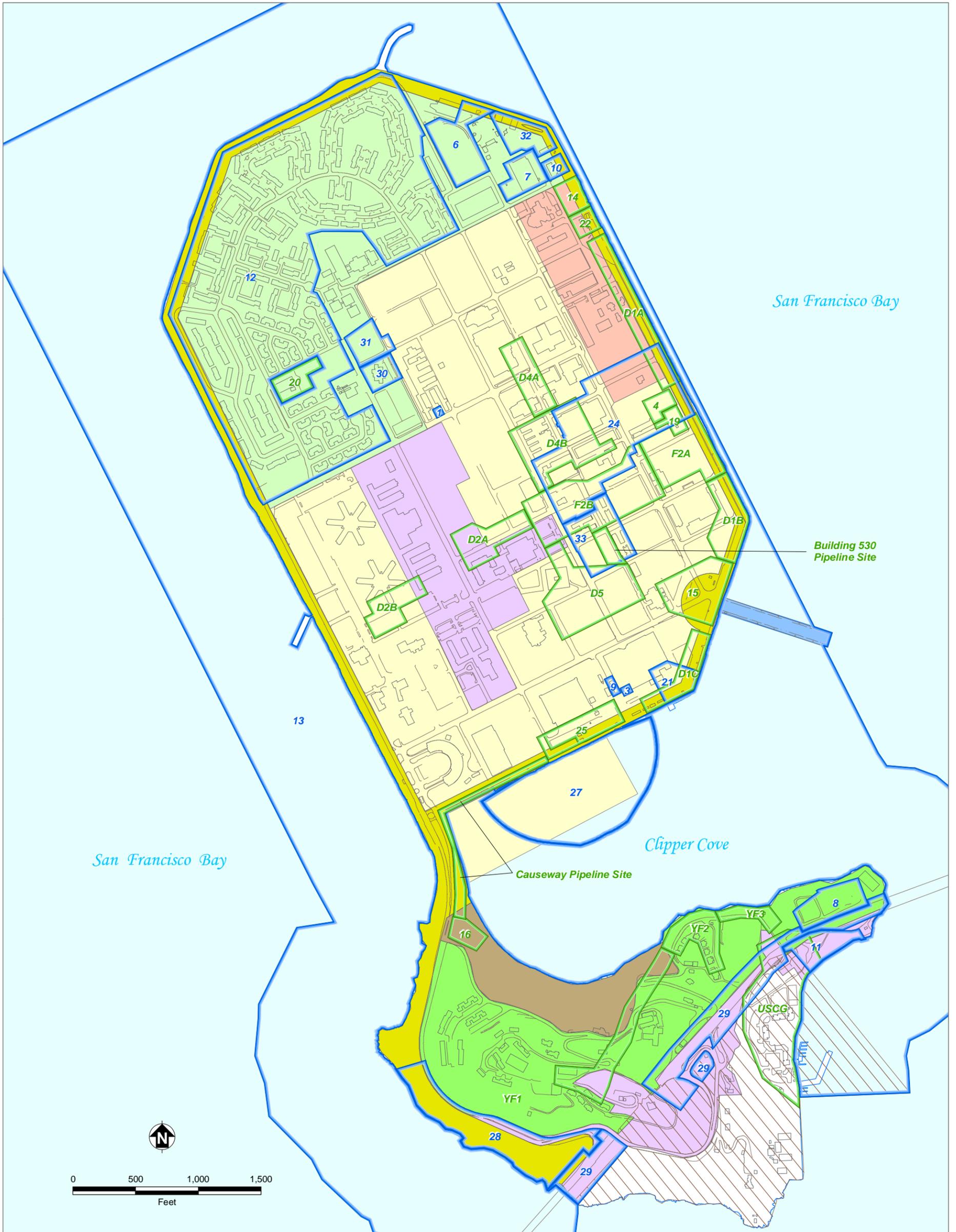
Source:
 Navy. 2006. Final FOST for Property on TI. February 15.
 Navy. 2006. Final FOST for Property on YBI. March 22.



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**FIGURE 9
 TRANSFER AND EBS PARCELS**

Site Management Plan 2011



LAND USE AREAS

- Institutional
- Institutional / Publicly Oriented Uses
- Publicly Oriented Uses
- Residential / Publicly Oriented Uses
- Residential / Open Space / Publicly Oriented Uses
- Shoreline Open Space
- Hillside Open Space
- Maritime / Open Space / Publicly Oriented Uses

- U.S. Coast Guard Property
- Petroleum Program Site
- CERCLA Program Site
- Building
- Road Edge

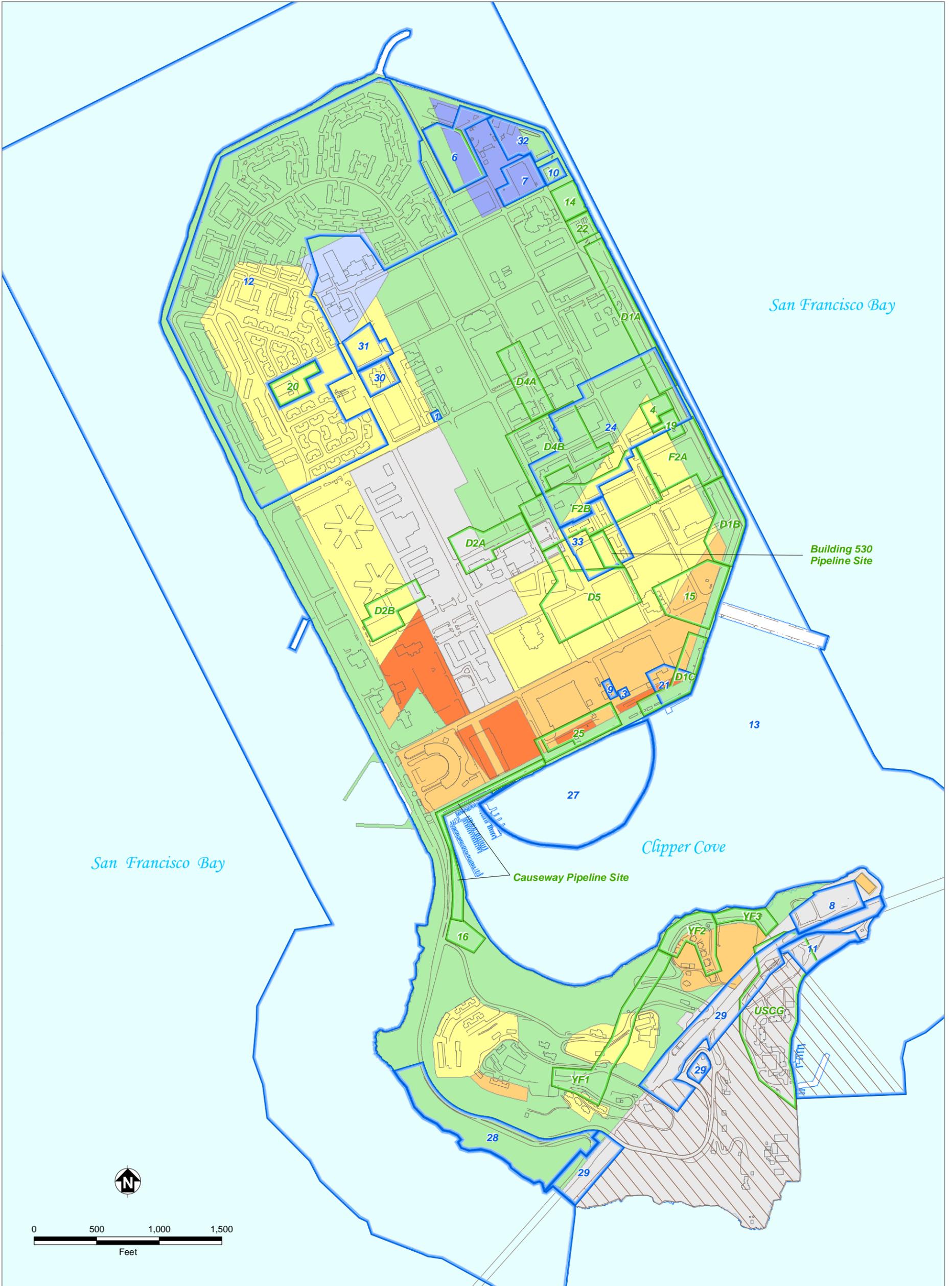
Notes:
 CCSF City and County of San Francisco
 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 USCG United States Coast Guard

The draft reuse plan (CCSF 1996) defines publicly oriented uses as hotels; one or more theme park attractions, which may integrate the continuing film production activities; destination entertainment activities; and active and spectator recreational areas. Although there are no plans to place residences in many of the publicly oriented use areas, the draft reuse plan leaves open the possibility of employee housing.



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FIGURE 10
1996 PLANNED REUSE AREAS,
CERCLA AND PETROLEUM
INVESTIGATION SITES
 Site Management Plan 2011



Conceptual Land Plan

- Zone O: Open Space & Compatible Uses
- Zone R: Residential & Community Facilities
- Zone C: Commercial & Cultural - Mixed Use
- Zone M: Residential - Mixed Use
- Zone E: Civic, Institutional & Schools
- Zone S: Public Services
- Zone P: Public (Federal Use)

- U.S.Coast Guard Property
- Petroleum Program Site
- CERCLA Program Site
- Building
- Road Edge

Notes:
 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 USCG United States Coast Guard

Source: SMWM (September 2008)



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FIGURE 11
2008 CONCEPTUAL LAND PLAN,
CERCLA AND PETROLEUM
INVESTIGATION SITES
 Site Management Plan 2011

APPENDIX A
SITE SUMMARY INFORMATION

[CERCLA Program](#)

[Petroleum Program](#)

[Compliance and Basewide Programs](#)

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CERCLA PROGRAM

SITE 1 – MEDICAL CLINIC

Site 1, the Medical Clinic, is located near the middle of Treasure Island (TI) and was used for medical support services for personnel at Naval Station Treasure Island (NAVSTA TI). The Medical Clinic occupied the center wing of Building 257. The X-ray department of the Medical Clinic operated until the early 1970s. The wooden floor of Building 257 is elevated approximately 3 feet above the ground surface by concrete footings. A continuous concrete slab was poured beneath the building and was probably constructed as a mat foundation for the concrete footings. The slab was covered by approximately 3 to 12 inches of soil. During operation of the clinic, developer and corrosive fixer solutions leaked from the x-ray equipment, leaked through the wooden floor, and seeped into the soil under the building. During the 1995 Phase II Remedial Investigation (RI), a 4-foot area of high acidity below the floor was identified during field screening, which indicated the lateral extent of contamination by silver in soils. The soils were removed and disposed of in a Class 1 landfill. During this and subsequent site inspections, it was determined that contamination was limited to soil above the concrete slab and was not released into the environment.

Transfer Category	2006 TI Finding of Suitability to Transfer (FOST) property (FOST 1)
Regulatory Classification	Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
Acreage	0.14
Source of Concern	X-ray photo processing lab
Contaminants of Concern	Silver
Interim Actions	None
Current Status	Received site closure concurrence from the Department of Toxic Substances Control (DTSC) on March 20, 2002. No further documentation for supplemental site inspection (SI) report is required.
Underground Storage Tanks (UST)/Aboveground Storage Tanks (AST)	None
Site Completion	Closed

SITE 3 – PCB EQUIPMENT STORAGE AREA

Site 3, the Polychlorinated Biphenyls (PCB) Equipment Storage Area, is adjacent to the south side of Building 3, about 150 feet from the shore in the southeastern corner of TI. The area is paved with about 6 inches of asphalt and was used to store and, in some instances, repair transformers used at NAVSTA TI to supply electricity to the various facilities. Some of the transformer units are known to have contained transformer fluids that contained PCBs.

Transformer fluids that contained PCBs have spilled as recently as the mid-1980s, and although they were reportedly cleaned up, no records of the cleanup are available. No PCBs were present in subsurface soils collected during the Phase I RI in 1992; only low concentrations of PCBs were detected during wipe sampling of the walls and floor of the storage area for the 1987 preliminary assessment/site inspection (PA/SI).

Transfer Category	Upcoming FOST
Regulatory Classification	CERCLA
Acreage	0.15
Source of Concern	Storage and repair area for PCB equipment
Contaminants of Concern	PCBs
Interim Actions	None
Current Status	Received site closure concurrence from DTSC on March 20, 2002. No further documentation for supplemental SI report is required.
USTs/ASTs	None
Site Completion	Closed

SITE 6 – FIRE TRAINING SCHOOL

Site 6, the former Department of the Navy (Navy) firefighting training school, was used for nearly 50 years (1944 to 1992) for various firefighting training activities. The training school formerly included 23 buildings, 6 USTs, and a central training yard that consisted of burn areas lined with asphalt and concrete. Fires fueled with diesel and gasoline, magnesium, and wood were set in various mockups in the training yard and were extinguished with a mixture of water, biodegradable soap, and industrial talc. Approximately 19,000 gallons of gasoline and 32,000 gallons of diesel fuels were used each year for the firefighting training. Wastewater and unburned gasoline and diesel were collected in a concrete collector trench (installed in about 1949) situated around the perimeter of the training school yard. Wastewater and unburned gasoline and diesel that collected in the trench passed through on-site oil-water separators (OWS). No historical information has been discovered that discusses disposal of wastes before the perimeter concrete collector trench and the on-site OWSs were constructed. Wastewater generated and treated at the site was discharged to the NAVSTA TI wastewater treatment plant (WWTP), constructed in 1968, and waste diesel and gasoline fuels were disposed of at an off-base location. Before 1973, the wastewater that flowed to the concrete collector trench was discharged to San Francisco Bay (Bay) without treatment. Approximately 14,000 gallons of petroleum residue was generated per year at the training school.

All buildings have been removed from the site. Four 1,500-gallon USTs (240A, 240B, 248A, and 248B) that contained gasoline and diesel for firefighting training were present in the northern and eastern portions of the training yard. USTs 240A and 240B were removed in 1992, and USTs 248A and 248B were removed in 1995. Two 1,000-gallon USTs (248C and 248D) previously used to store waste fuel were removed in 2002. One known AST (248), located near UST 248D, was removed prior to 1995. UST M, a previously suspected UST for coolant, was reported in Shaw Environmental, Inc.'s (Shaw) "Final Facilitywide Underground Storage Tank Summary Report Update," dated August 25, 2004, as never having been installed, based on document reviews and discussions with Navy personnel. Petroleum remedial activities were conducted at Site 6 between May and December 2002. Remedial activities included excavation of USTs and excavation of petroleum-contaminated soils near the USTs, pipelines, and OWS components throughout the site. Remediation also included evaluation and excavation of free product near USTs 240A and 240B. In October 2002, during petroleum remedial excavation activities at the UST 248 area, burn surfaces were identified in the vicinity of the former Building 464 foundation. Results from shallow soil samples collected in this area included dioxins and furans above the soil screening levels. The excavation was subsequently expanded to include removal of burn debris and soot-discolored areas. Results from confirmation samples included dioxins and furans above the screening levels, causing Site 6 to be transferred to the CERCLA program on September 18, 2003.

Further investigation and delineation of dioxins and furans detected in soil was conducted under the CERCLA Program as part of the environmental baseline survey (EBS) data gaps investigation in 2003. Based on investigation results, the Base Realignment and Closure (BRAC) Cleanup Team (BCT) agreed to a boundary revision for the CERCLA site at the June 7, 2005 BCT meeting. The boundary revision included a portion of Parcel T112 to the east and north of the WWTP area where dioxins were detected in shallow soil samples. On January 24, 2007, a second boundary revision was submitted separating Site 6 (CERCLA Program) and Site 6A (Petroleum Program). DTSC did not concur with the request to modify the boundary.

Other investigations included a soil gas sampling program completed in October 2004 to evaluate volatile organic compounds (VOC) in soil gas near former USTs 240A and 240B. Groundwater at Site 6 continues to be monitored semi-annually under the Basewide Petroleum Sites Groundwater Monitoring Program.

During 2008, Site 6 was used as a temporary excavated soil staging and loading area, including the radiological control area (RCA) for the Site 12 non-time critical removal action (NTCRA). Prior to use for staging and loading activities, a baseline radiological survey was conducted. While staging and loading activities were ongoing, engineering controls were developed, air monitoring equipment was installed, and a surveillance program for health and safety was in place. In addition to engineering controls, best management practices, such as keeping soil stockpiles covered to prevent releases, were used. The soil staging and loading area activities included temporary stockpiling and loading of soil into bins at which point they were characterized and shipped off-site to a licensed disposal facility. The waste shipped off-site includes both chemical and low level radiologically impacted soil (radium-226). Soils are no longer stockpiled at Site 6. Low level radiological waste that has been characterized and placed in sealed bins is stored in the RCA while awaiting off-site disposal. Once the Site 12 NTCRA has been completed, a Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) Final Status Survey (FSS) will be conducted at Site 6.

To address the concerns expressed by the California Environmental Protection Agency (Cal/EPA) San Francisco Bay Regional Quality Control Board (Regional Water Board), the Navy is planning to conduct additional investigations in the vicinity of the formerly removed USTs (240 series). In 2010, the Navy completed a CERCLA data gap investigation to further evaluate the nature and extent of chemicals in soil, soil gas, and groundwater. The Navy is currently preparing a combined RI/FS. The RI/FS Report will incorporate comments received on the 2007 proposed boundary revision request and the 2010 data gap investigation results.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	4.54
Sources of Concern	USTs, firefighting training area, OWSs
Contaminants of Concern	Dioxins and furans, total petroleum hydrocarbons (TPH), VOCs, polycyclic aromatic hydrocarbons (PAH)
Interim Actions	<ul style="list-style-type: none"> • USTs removed in 1992, 1995, and 2002. • Floating product removal action completed in 2002.
Current Status	<ul style="list-style-type: none"> • RI/FS is being prepared. Additional investigation of removed USTs (240 series) is planned. • Annual groundwater monitoring continues.
USTs/ASTs	<ul style="list-style-type: none"> • AST 248 and USTs 240A, 240B, 248A, 248B, 248C, and 248D: all are removed and awaiting no further action (NFA) concurrence. • Previously suspected UST M received concurrence on NFA December 2, 2003.
Estimated Site Completion	CERCLA Closure: November 2015

SITE 7 – PESTICIDE STORAGE AREA

Site 7 is located north of 13th Street, between Avenue M and the Bay, in the northeast corner of TI. At Site 7, Building 62, the pesticide storage building, has been used to store and handle a variety of liquid substances in the past, including pesticides, chlorinated herbicides, paint, and other unidentified fluids. Building 62 was constructed on a raised pier foundation, with the wooden floor of the building approximately 3 feet above ground surface. The pesticide storage area was on a raised wood floor in the north end of the building. Pesticides and chlorinated herbicides were mixed and prepared for use from about 1955 until at least the early 1960s. It was reported that excess pesticide and paint fluids may have been disposed of by pouring them directly onto the ground. Information on the total volume of waste fluids disposed of on site is not available.

The Dames and Moore PA/SI (1988) reported that, between 1968 and 1976, sludge from the adjacent WWTP was spread on the ground in an area measuring about 250 feet by 100 feet southwest of Building 62 and northeast of the corner of Avenue M and 13th Street. Soils to the west of Building 62 were investigated during the Phase I RI and the supplemental SI, and NFA was recommended. The total volume of sludge spread at this site and at Site 8 was estimated to be 10 to 15 cubic yards per month, totaling 960 to 1,440 cubic yards. Part of the new WWTP was constructed in the area where the sludge was reportedly spread. Boring logs for geotechnical borings advanced as part of the expansion of the WWTP did not indicate that sludge was encountered.

The Phase I RI Report (1992), the Phase IIB RI Report (1997), and a supplemental SI (2002) included an investigation of the soils outside and beneath the building. A subsequent request for closure was submitted as a letter report to the DTSC October 3, 2005, and concurrence with NFA was granted November 1, 2005.

Transfer Category	Upcoming FOST
Regulatory Classification	CERCLA
Acreage	2.22
Source of Concern	Pesticide storage; WWTP sludge
Contaminants of Concern	Metals, pesticides, and herbicides
Interim Actions	None
Current Status	<ul style="list-style-type: none">• Supplemental SI report was submitted for NFA October 18, 2002.• Letter report requesting closure following discussions of Site 32 results submitted October 3, 2005.• Received site closure concurrence from DTSC on November 1, 2005.
USTs/ASTs	None
Site Completion	Closed

SITE 8 – ARMY POINT SLUDGE DISPOSAL AREA

Site 8, the Army Point Sludge Disposal Area, was used for approximately 8 years, between 1968 and 1976, for disposal of sludge from the WWTP on TI. Prior to 1968, the site contained buildings used as barracks for enlisted personnel. Waste sludge was transported from the WWTP and was spread on the ground between the foundations of former buildings at Site 8 to dewater the sludge. The same type of waste sludge was disposed of at Site 7. The final disposition of the sludge is not known; the dried sludge may have been allowed to decay in place or may have been removed. Given the shallow depth of sandstone and shale bedrock at the site, on-site burial is unlikely.

Because the site was identified in the PA, an SI was completed in 1990 to assess subsurface soils potentially impacted by chemicals in the waste sludge deposited in the eastern portion of the site. Based on SI report conclusions, further investigation of the site was warranted to characterize the lateral and vertical extent of contamination. In 1997, the draft RI report included results of additional investigations conducted during Phase I and Phase IIB of the RIs completed in 1992 and 1995. The RI report noted potential beryllium and lead contamination at the site; however, concentrations of beryllium and lead were within the target risk range or below the point of departure. Pesticides/PCBs and semivolatile organic compounds (SVOC) were determined to not be contaminants of concern.

In June 2001, independent of the Navy's Installation Restoration (IR) Program, California Department of Transportation (Caltrans) collected soil samples at 13 discrete surface soil locations on Yerba Buena Island (YBI) as part of the San Francisco–Oakland Bay Bridge (Bay Bridge) construction project. Results of Caltrans' soil sampling conducted within the Site 8 boundaries indicated that concentrations of lead ranged from less than 50 to 170 milligrams per kilogram. Based on the Caltrans sampling report, the Navy concluded that existing data were sufficient to characterize the lateral and vertical distribution of lead in soils at Site 8. In December 2001, the Navy completed a validation study to confirm results of the screening-level ecological risk assessment included in the 1997 RI report for the Peregrine Falcon (*Falco peregrinus*). The study concluded that no unacceptable risk was posed to the falcon at Sites 8, 11, 28, and 29. The surface soil on the site may be contaminated by lead and other metals as a result of vehicle emissions, as well as bridge and ramp painting and maintenance. In 2002, additional lead investigations were conducted to fully delineate the extent and magnitude of lead in surface soils at Sites 8, 11, and 29; collect additional soils data for comparison to the validation study results; and provide additional data, if needed, for the human health risk assessment (HHRA) presented in the 1997 RI report for Sites 8, 11, and 29.

The Navy owned the property comprising the ramps and areas beneath the bridge until 2001, when the Federal Highway Administration (FHWA) transferred the bridge right-of-way and ramps from the Navy to Caltrans. Caltrans is now using this area during construction of the new eastern span of the Bay Bridge. Two footings for the Bay Bridge have been installed within the site boundaries of Site 8; the area of site surface soils disturbed by Caltrans construction activity was estimated by visual inspection in April 2005. The actual footing areas were excavated to a depth of 80 feet.

Two boundary changes have occurred at Site 8; the first, presented in October 2004 to the BCT, eliminated the northwest corner of Site 8 to allow for transfer of the property as part of the YBI parcel, independent of regulatory closure of Site 8. The second, made in June 2005, eliminated overlap between CERCLA Site 8 and Site 29. Field inspections of Site 8 were

performed in April and October of 2006 to verify removal of contaminated soil by Caltrans and to document ongoing construction activities.

The Navy finalized the Interim RI Report for Sites 8 and 29 in March 2009. The Navy is currently in discussion with Caltrans regarding completion of the CERCLA site closeout process when bridge construction is complete. The schedule in [Appendix B](#) is based on Caltrans' quarterly schedule, which indicates bridge construction activities will be complete in 2015. Once Bay Bridge construction activities are complete, an RI addendum will need to be prepared for the site to continue with the CERCLA process.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	On Caltrans-owned property
Regulatory Classification	CERCLA
Acreage	3.12
Source of Concern	WWTP sludge disposal area; lead-based paint (LBP) from the Bay Bridge
Contaminants of Concern	SVOCs and metals
Interim Actions	None
Current Status	<ul style="list-style-type: none"> • Interim RI report (for Sites 8 and 29) was submitted in March 2009. • Navy is discussing site closeout with Caltrans.
USTs/ASTs	None
Estimated Site Completion	January 2020

SITE 9 – FOUNDRY

Site 9 is adjacent to the southern corner of Building 3, about 150 feet from the shore, in the southeastern corner of TI. The site, which contains Building 41 (the Foundry), has been used for multiple operations since the early 1940s. The indices of TI buildings from 1943 and 1947 list Building 41 as a forge and foundry; metals are the most likely contaminant sources from the foundry. Building 41 was listed as a paint shop from at least 1952 to 1981. One floor drain and sump, representing a possible discharge point, was observed next to the paint booth when Building 41 was inspected during the Phase I RI. Paints used at this facility are known to have contained lead- and zinc/chromium-based pigments. In addition, two concrete trenches, apparently remaining from a hydraulic lifting system, are present in the large middle room and are evidence that vehicle maintenance may have been performed there. A 30-gallon storage tank, presumably used to contain hydraulic oil for use with the hydraulic lift, is located in a concrete-lined pit at the eastern end of one trench. From 1981 to 1987, the building was used as a welding training school by the Navy Technical Training Center. In 1994, the building was used for small-boat maintenance, primarily body work. It is believed that the outdoor areas have been paved for most of the building's existence.

The RI report was finalized in March 2005. The RI concluded the Navy should pursue closure of Site 9 through a no action record of decision (ROD). A proposed plan (PP) outlining the no action ROD was submitted for public comment September 29, 2006 and a public meeting was held October 17, 2006. The public comment period closed October 31, 2006. A no action ROD was signed October 2, 2007.

Transfer Category	Upcoming FOST
Regulatory Classification	CERCLA
Acreage	0.28
Source of Concern	Potential spills or disposal of hazardous materials; potential discharge of wastes to the floor drain and sump in Building 41; potential release of hazardous constituents from oily waste contained in concrete-lined trenches from a former hydraulic lift system inside Building 41.
Contaminants of Concern	Iron, benzo(a)pyrene, dibenz(a,h)anthracene
Interim Actions	None
Current Status	No action ROD signed on October 2, 2007.
USTs/ASTs	AST 3; removed
Estimated Site Completion	Closed

SITE 10 – BUS PAINTING SHOP

Site 10 includes Building 335, the Bus Painting Shop, and is located in the northeastern section of TI, north of 13th Street and between Avenue N and the Bay. Building 335 was constructed during the mid-1940s and operated as a bus painting shop through the 1950s. The building may have also been used for paint mixing for an unspecified period. Handling practices reported at similar facilities on NAVSTA TI indicate that waste paints, thinners, and solvents may have been released onto the ground near Building 335. Building 335 was also reportedly used for storing, mixing, and handling of pest control solutions (pesticides and chlorinated herbicides) during an unspecified time period. Pest control solution residues were reportedly washed from containers and spraying equipment. It was also reported that Building 335 housed a self-service steam rack used to clean vehicles, drums, garbage cans, and related equipment. A floor drain was reportedly used in the building and was connected to the storm water sewer system, thus potentially conveying contaminants directly into the Bay. An inspection of the building in March 1994 revealed a cement-patched area that may have been the former location of the floor drain.

Petroleum Program investigations revealed dioxin-contaminated surface soil along the eastern boundary of Site 10 associated with a shallow burn layer. An exploratory investigation of the dioxins in soils was conducted in the fall of 2005, and impacted soils were removed.

The RI report was finalized in March 2005. The RI concluded the Navy should pursue closure of Site 10 through a no action ROD. A PP outlining the no action ROD was submitted for public comment September 29, 2006, and a public meeting was held October 17, 2006. The public comment period closed October 31, 2006. A no action ROD was signed October 2, 2007.

Transfer Category	Upcoming FOST
Regulatory Classification	CERCLA
Acreage	0.68
Source of Concern	Maintenance yard; pesticide storage; paint mixing
Contaminants of Concern	Iron, benzo(a)pyrene, dibenz(a,h)anthracene
Interim Actions	Dioxin-impacted soils removed 2005.
Current Status	No Action ROD signed October 2, 2007.
USTs/ASTs	ASTs 335A, 335B, 335C removed
Estimated Site Completion	Closed

SITE 11 – YBI LANDFILL

Site 11, the YBI Landfill, is an approximately 200-foot by 600-foot former marsh area on the southern side of the eastern tip of YBI. This site was identified as a disposal area in a 1935 topographic map. The exact dates of sanctioned landfill operation have not been established. Signs in the area currently prohibit dumping. The types and amounts of waste disposed of at the site are not well documented. During a site visit in April 1994, buried concrete debris was observed in an eroded section of land near the beach at the easternmost extent of the landfill area. This buried debris is evidence that land filling had occurred in that area. The material disposed of at the site is solid wastes from operations at YBI and TI, although the exact nature of the material is unknown. Miscellaneous household waste was noted in test pits installed during the Phase I RI. During evaluation of the extent of the landfill, construction debris was found in numerous trenches and test pits completed in 2002. Petroleum-contaminated sand was found in the landfill underlying a burn layer. Groundwater contamination has been detected at the site and appears to originate from the buried materials.

In December 2001, the Navy completed a validation study to confirm results of the screening level ecological risk assessment included in the 1997 RI Report for the Peregrine Falcon (*Falco peregrinus*). The study concluded that no unacceptable risk was posed to the falcon at Sites 8, 11, 28, and 29.

In 2002, additional lead investigations were conducted to fully delineate the extent and magnitude of lead in surface soils at Sites 8, 11, and 29; collect additional soils data for comparison to the validation study results; and provide additional data, if needed, for the HHRA in the 1997 RI Report for Sites 8, 11, and 29.

Additional sources of contamination at the landfill include five USTs (270 and 204A through 204D) and a fuel pipeline. UST 270, which was not within the landfill area, has been removed. The other four USTs, 204A through 204D, were located in the south-central portion of the site and were removed in September 2003. The Regional Water Board concurred that NFA was required with respect to the USTs in a letter dated June 17, 2004. The U.S. Coast Guard (USCG) Petroleum Program Site extends into the Site 11 boundary, and the USTs and fuel lines formerly located within the USCG site may be sources of contamination. Further investigations at the USCG site are pending.

The surface soil on the site may be contaminated by lead and other metals as a result of vehicle emissions, as well as bridge and ramp painting and maintenance. In June 2005, a boundary change was made to eliminate the overlap between Site 11 and Site 29. Construction activities associated with the new Bay Bridge have greatly altered the landfill surface, which is currently being used by Caltrans as a laydown area for bridge construction materials. The Final Interim RI report for Site 11 was submitted January 27, 2010. The Navy is currently in discussion with Caltrans regarding completion of the CERCLA site closeout process when bridge construction is complete. The schedule in [Appendix B](#) is based on Caltrans' quarterly schedule which indicates bridge construction activities will be complete in 2015. Once Bay Bridge construction activities are complete, an RI addendum will need to be prepared for the site to continue with the CERCLA process.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	On Caltrans-owned property
Regulatory Classification	CERCLA; UST
Acreage	2.46
Source of Concern	Landfill solid waste (unknown type); USTs and fuel pipeline; LBP from the Bay Bridge
Contaminants of Concern	TPHs, PAHs, VOCs, and metals
Interim Actions	None
Current Status	<ul style="list-style-type: none"> • Interim RI report (Site 11) was submitted January 27, 2010. • Navy is discussing site closeout with Caltrans.
USTs/ASTs	USTs 270, 204A through 204D removed
Estimated Site Completion	<ul style="list-style-type: none"> • CERCLA closeout: July 2020 • USTs 204A through 204D received regulatory concurrence from the Regional Water Board June 17, 2004 (NFA). • UST 270 received regulatory concurrence from the Regional Water Board February 10, 2004 (closed).

SITE 12 – OLD BUNKER AREA

Site 12, the Old Bunker Area, is located on the northwestern portion of TI and occupies about 93 acres of the island. Site 12 is currently the TI housing area. Site 12 is a flat area, consisting of grassy lawns, paved roads, and residential housing units with back yards. The area was used for military housing since about 1968. Site 20, a petroleum site, is located within the Site 12 area and encompasses 1.6 acres that is fully encircled by Site 12.

Solid Waste Disposal Areas

Several ammunition bunkers were located within Site 12 before the area was developed as military housing. As early as 1945, nine large ammunition bunkers and 12 smaller bunkers were visible along the northern end of TI. These bunkers were constructed in 1944 as reinforced concrete structures covered by sand, with a chert rock and clay surface. A backfilled blast wall, the same height as the bunkers, existed along the open side of the structures. Observations documented during soil trenching and boring activities, before the 1965 housing foundations were excavated, indicated that the areas between and around the bunkers were used for incineration and disposal of solid waste. Both trench-type disposal units and general land-surface areas were used to dispose of materials such as loose rubbish, bottles, wire rope, paper, and steel. These areas have been divided into four identified solid waste disposal areas (SWDA): SWDAs 1207/1209, 1231/1233, and A&B occur along the shoreline, and the fourth is in the central portion of Site 12, at Bigelow Court.

Hazardous material from portions of the 4 SWDAs was removed in 1999, 2000, and 2001, but some hazardous material remains in soil in and adjacent to these areas. An engineering evaluation/cost analysis (EE/CA) for a NTCRA at the SWDAs was finalized October 12, 2006 followed by a public meeting October 24, 2006.

A NTCRA began in May 2007 at three SWDAs along the shoreline. The Navy is currently excavating and screening soils for chemical and radiological contaminants. During the NTCRA, low level radiological items, containing radium-226, have been found within the SWDAs. All items located have been removed and disposed of properly. Soil that may have been impacted by these items was screened prior to shipment off-site by an appropriate disposal contractor. Confirmation samples are being collected in the SWDA areas once excavations are completed. When all removal action activities are complete, the Navy will conduct a residual risk evaluation for the SWDAs that will be included in the removal action completion report and/or the FS. In addition, FSS of the SWDAs will be performed in accordance with MARSSIM (Revision 1 August 2000, with June 2001 updates). The Navy estimates that the NTCRA field activities will be completed in 2012.

Bigelow Court

Bigelow Court, located in the central portion of Site 12, was identified as a SWDA during sampling activities in 2001. There was a removal action on the eastern side of Bigelow Court in 2000 as a part of a larger removal action in Halyburton Court. Bigelow Court was included in the 2006 EE/CA, though the removal action was delayed until 2011.

Halyburton Court

Review of historical records and aerial photographs also helped identify an area within the interior of Site 12 as a former storage yard, located in the vicinity of what is currently referred to as Halyburton Court. This former storage yard differs from the SWDAs because waste was not intentionally disposed of in this area. Results from sampling in 2000 indicated soils in the former storage yard area contained PCBs and PAHs at concentrations in excess of the action levels protective of human health. Based on these results, the Navy performed a removal action in the former storage yard area between 2000 and 2001. Because PCBs were left in place beneath the buildings in Halyburton Court, an investigation of PCBs in soil, soil gas, and indoor air was conducted during December 2005 and July 2006. After further evaluation, the Navy determined the proposed removal action would not significantly reduce the risk at Halyburton Court, and the EE/CA, specifically for Halyburton Court, was cancelled. The risk in the area is evaluated as part of the Site 12 RI Report.

Investigation of Arsenic in Groundwater

Investigations at the site identified elevated concentrations of arsenic in groundwater in the vicinity of Buildings 1311 and 1313. In addition to the elevated arsenic concentrations in groundwater, elevated TPH concentrations in soil and groundwater have been reported. A 1971 report indicated an oil tank was buried underground in the vicinity of Buildings 1311 and 1313. The report also indicated the UST was to be removed during grading of the site for housing construction. There is no documentation of removal or closure of the UST. A technical memorandum published in 2001 attributed the elevated arsenic concentrations to the reducing environment created by the biodegradation of TPH at the site. A bench scale treatability study of arsenic in groundwater has been completed. A pilot scale treatability study was conducted while also addressing free product that was observed in the area. Review of historical drawings indicated former buildings in the area may have had associated USTs. Geophysical surveys performed in 2009 identified several anomalies. Groundwater wells have been installed and have been monitored for TPH. Soil gas sampling was conducted in November 2010 near Building 1313. Based on the presence of TPH with arsenic, the Navy ceased pilot study activities in 2011 and further action in this area will be addressed in an RI/FS.

Remedial Investigation

As part of the RI, the Navy performed a soil-gas investigation in the fall of 2008. The technical memorandum reporting the results of the soil gas investigation was finalized in early 2009. A human health risk evaluation technical memorandum was prepared in August 2010 to document human health risks from soil at each exposure unit and to determine a path forward for sampling of backyards. The RI report for Site 12, excluding the SWDAs, is currently being prepared.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	93.2
Source of Concern	Incinerator; debris disposal areas; former storage yard
Contaminants of Concern	PCBs, PAHs, dioxins, TPH, metals, Radium-226, and debris
Interim Actions	<ul style="list-style-type: none"> • Soil removal action conducted at SWDA 1207/1209 between June and August 1999. • Soil removal action conducted at SWDA A&B, November 1999. • Soil removal action conducted north of Mariner Drive Petroleum Area to remove PAHs in shallow soil in 2001. • Soil removal action conducted at former storage yard at Halyburton Court in 2000 to 2001.
Current Status	<ul style="list-style-type: none"> • NTCRA of SWDAs is underway (with MARSSIM survey). • NTCRA Work Plan for Bigelow Court is being prepared. • RI report is being prepared.
USTs/ASTs	One previously suspected UST received NFA concurrence from the Regional Water Board December 2, 2003.
Estimated Site Completion	January 2021

SITE 13 – STORM WATER OUTFALLS/OFFSHORE SEDIMENTS

Site 13 comprises the offshore areas around the perimeter of NAVSTA TI and Clipper Cove. It excludes Site 27, the former skeet range located in the Clipper Cove, and a submerged parcel that has been reassigned to the USCG. In 1992, the Navy collected data to assess whether chemicals were moving off shore via the storm water outfalls. Based on the results of this storm water investigation, it was determined that chemicals may have been released to the offshore areas and that further investigation of Site 13 was warranted. A second investigation was therefore conducted in 1996 to further characterize the sources, extent, and potential toxicity of chemical contamination in the offshore sediments. The results of these two offshore investigations indicated that metals, PCBs, PAHs, dichlorodiphenyltrichloroethane (DDT), and other organic compounds were the chemicals most frequently detected in the sediment samples.

In 2001 and 2002, two additional investigations were conducted of the sediments adjacent to possible onshore source areas at Sites 11 and 12, where burned solid waste or PCB-contaminated material may have been deposited. Offshore samples were collected and analyzed for TPH and PCBs. Concentrations of metals, PCBs, and TPH in the offshore sediments were not found to be elevated. These studies indicated that no additional investigation was needed. A PP for Site 13 was prepared and released to the public on April 1, 2004. Results of four offshore sediment investigations were used to conduct an ecological risk assessment, which concluded the offshore sediments at Site 13 do not pose an unacceptable risk to the environment. Following a public meeting that presented the no-action alternative, a ROD was drafted and signed April 7, 2005.

Transfer Category	Upcoming FOST
Regulatory Classification	CERCLA
Acreage	520
Source of Concern	Storm drains, storm water outfalls
Contaminants of Concern	Metals, PAHs, PCBs, DDT, and TPH
Interim Actions	None
Current Status	No action ROD signed on April 7, 2005.
USTs/ASTs	None
Site Completion	Closed

SITE 21 – VESSEL WASTE OIL RECOVERY AREA

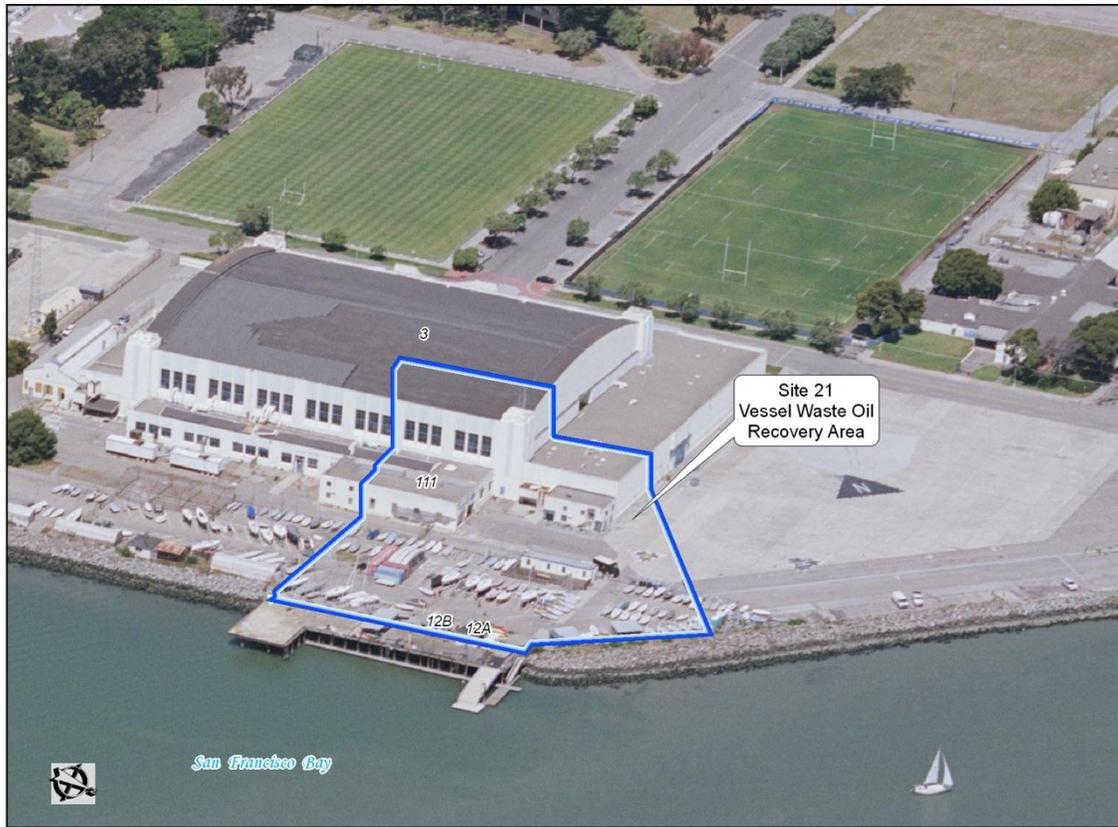
Site 21, the Vessel Waste Oil Recovery Area, is along the southeastern edge of TI, adjacent to Clipper Cove. Site 21 was originally a 400-foot-long by 75-foot-wide area along the shoreline. The site boundary has since been expanded to include the open area between Building 3 and the shoreline.

The vessel waste oil recovery area operated between 1946 and 1995. Waste oil from ships was unloaded into cylindrical steel shells called “donuts.” From the “donuts” the waste oil was transferred to an onshore oil-water separation facility at Site 21. The separation facility consisted of five aboveground tanks, each with a capacity of 2,000 gallons. These tanks were removed in 1995. The separation system was maintained on a paved area that was reportedly heavily stained, but little staining is still visible. Analytical data from the sampling of monitoring wells at Site 21 demonstrated no pattern of elevated levels of TPH in groundwater.

Building 3, near the waste oil recovery area, was used for various activities, including aircraft maintenance. A dip tank to clean aircraft parts was reportedly located at the southeastern corner of Building 3. No records are available that describe the types and quantities of chemicals used or disposed of during parts cleaning operations; however, use of the solvents tetrachloroethene (PCE) and trichloroethene (TCE) as degreasing agents for cleaning metal parts was widespread at the time of Navy operations. Contamination of groundwater at Site 21 is believed to be from small spills of PCE and TCE in the dip tank area during former parts cleaning operations.

Most of the smaller buildings in the area of Site 21, such as Buildings 289, 290, and 325, serve as storage areas.

A treatability study, to evaluate cleanup alternatives for contaminated groundwater at Site 21, was ongoing between August 2005 and August 2010. The treatability study report was completed in March 2011. One additional year of groundwater monitoring is in progress. An RI report for Site 21, finalized in February 2007, recommended a FS be conducted using data collected from treatability studies of in situ treatment technologies. The Focused FS (FFS) was submitted in February 2009. At the request of the BCT, the Navy is conducting a soil gas investigation at the site and will prepare a HHRA addendum to present the results of the soil gas sampling. A PP was prepared in October 2011, and a public meeting was held November 2, 2011, to outline the Navy’s preferred alternative of institutional controls for the site. A ROD/Remedial Action Plan (RAP) is currently being prepared and will incorporate the most recent treatability study and soil gas sampling results.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	--
Regulatory Classification	CERCLA, UST
Acreage	2
Source of Concern	OWS; ASTs; petroleum, oil, lubricants lines; dip tank
Contaminants of Concern	VOCs and TPH
Interim Actions	Treatability study for VOC source area
Current Status	<ul style="list-style-type: none"> • Treatability study is complete. • Soil gas investigation is underway. • Groundwater monitoring continues. • PP/Draft RAP is complete. • ROD/RAP being prepared.
USTs/ASTs	ASTs 12A through 12E removed
Estimated Site Completion	June 2012

SITE 24 – DRY CLEANING FACILITY

Site 24 is located on the southeastern part of TI and extends from the central portion of the island east, toward the Bay. Site 24 encompasses two former CERCLA sites, Sites 05 (the Old Boiler Plant) and 17 (ASTs 103 and 104), which are located along the southwest boundary of Site 24. Petroleum sites within Site 24 include Site 04/19, the former Hydraulic Training School/Refuse Transfer Area; Inactive Fuel Line sites D1A, D4B, F2B, and a small portion of Site F2A; Building 530 Fuel Line Site; and former UST 230.

Other Sites within the Site 24 Boundary

Former Sites 5 and 17 were incorporated into Site 24 for further investigation. Site 5 included Building 102, a boiler plant operated from 1943 through 1968 when it was demolished. Various chemicals may have been used during the boiler operations to prevent scaling. Typical chemicals used to prevent scaling include morphaline, caustic soda, sulfite, and brine. It is reported that building debris, including asbestos-containing materials (ACM), were buried where the building stood. Pipeline trenching in 1987 uncovered the buried debris, including asbestos insulation. The debris was not removed, but instead backfilled and covered with asphalt. Following recommendations in the 1988 PA/SI to further evaluate the area, ground-penetrating radar (GPR) was used to delineate the disposal area. Soil samples were collected from borings and a test pit and analyzed for asbestos. No asbestos was observed during field activities and no asbestos was detected in the soil samples collected. It was decided in January 2001 that the CERCLA constituents within the Site 5 boundary will be considered a part of Site 24 and will be evaluated in the Site 24 RI report. The petroleum-related constituents were evaluated as part of Fuel Line Site F2B, which has since been closed by the Regional Water Board.

Site 17 contains the area surrounding ASTs 103 and 104. The ASTs are each 200,000-gallon-capacity diesel fuel storage tanks, approximately 20 feet in diameter, and 20 feet high. They are surrounded by a concrete paved area and a 4-foot-high berm built sometime after 1983. A small pump house, Building 105, is situated between the two tanks. The ASTs were installed before 1943, decommissioned in 1993, and emptied and cleaned in 1996, but have not yet been dismantled. Historical releases in the area have been documented. A second possible source of contamination is waste oil, possibly containing PCBs, which was reportedly spread at least once around the base of both ASTs for weed and dust control. This practice was discontinued when the area was paved after 1983. The ASTs were investigated and closed as part of Fuel Line Site F2B.

Former Petroleum Program Sites 4 and 19 are also within the Site 24 boundary. In December 2003, the Regional Water Board concurred NFA is required for petroleum contamination at Sites 4 and 19. In addition, former fuel pipelines D1, D2, D4, and F2 traversed portions of Site 24. Fuel leaks associated with the fuel lines have been addressed under the Petroleum Program. A removal action was completed along former fuel line F2 along 5th Street. The Regional Water Board concurred that NFA was required at fuel lines F2A and F2B. A boundary change for Site 24 proposed in March 2005 adjusted the boundary to completely encompass Building 99 and an associated VOC plume (discussed below), as well as reduce overlap with the F2 fuel line sites and the Site 33. The BCT concurred in November 2005.

Building 99 VOC Plume

Building 99 is located in the northwestern section of Site 24. It was used as a laundry facility from 1942 to 1977 and as a dry cleaning facility for an unknown interval within that period. Waste solvents used during dry cleaning operations were discharged to soil and groundwater beneath the floor of Building 99 from leaks or spills. The volume of solvents that was released to the ground is unknown. Building 99 was later used for meat processing and as a print shop, and most recently as an office and workshop for film sets.

The Navy conducted an investigation from April through July 2003 to delineate the horizontal and vertical extent of a plume of VOCs in groundwater that originates from Building 99 within Site 24. A treatability study was conducted in the source area under Building 99, through March 2004, to evaluate anaerobic in situ bioremediation (ISB) as a potential remedial option to treat high VOC concentrations at the site. The treatability study was expanded in late 2004 and early 2005 to evaluate the effectiveness of the ISB treatment to address low VOC concentrations in the more mobile portions of the plume. The expanded treatability study in the plume area successfully reduced VOC concentrations to below the treatability study cleanup goal of 100 micrograms per liter total VOCs in most areas of the plume. The treatability study was expanded again in 2008 to investigate the potential presence of dense nonaqueous-phase liquids in the vicinity of Building 99 and to test reversal of the injection and extraction pump system to optimize bioorganism circulation and degradation. The treatability study report for Phase II and the work plan for Phase III are being prepared. The purpose of the Phase III efforts is to promulgate the enhanced degradation of chlorinated ethenes in groundwater areas of low and medium concentrations to reduce or eliminate a continuing source for soil gas contamination, via a vapor intrusion pathway, and potentially reduce the need for land use controls (LUCs).

The Final RI/FFS was submitted July 3, 2008. At the request of the BCT, the Navy is conducting a soil gas investigation at the site.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	--
Regulatory Classification	Petroleum; CERCLA; UST
Acreage	20.46
Source of Concern	Solvent spills and leaks within Building 99; petroleum, oil, lubricants
Contaminants of Concern	Petroleum, oil, lubricants, chlorinated solvents
Interim Actions	Treatability study for VOC source and plume areas
Current Status	<ul style="list-style-type: none"> Expanded treatability study (in situ bioremediation) in progress. Soil gas investigation is underway.
USTs/ASTs	<ul style="list-style-type: none"> UST 230 closed by the Regional Water Board in 1997. ASTs 103, 104 received NFA concurrence from the Regional Water Board May 9, 2005. ASTs 455A-D (boiler additives) are noted as inactive.
Estimated Site Completion	September 2020

SITE 27 – CLIPPER COVE SKEET RANGE

Site 27, located in Clipper Cove, is situated directly between TI and YBI. Between 1979 and 1989, a portion of Clipper Cove was used as a naval skeet range. Naval personnel fired lead shot over the water as clay skeet targets were launched from the shoreline. In 1993, the Clipper Cove Skeet Range was identified as a potential environmental concern, based on the Regional Water Board Order No. 93-130 “Site Cleanup Requirements for NAVSTA TI Skeet Range.” In October 1993, the BCT agreed to comply with the Regional Water Board Order requirements through the CERCLA process and include the Clipper Cove Skeet Range in the Navy’s IR Program as Site 27 (Remedial Project Manager/BCT Meeting Minutes October 1993). In 1996, samples were collected at Site 27 to define the vertical and horizontal extent of lead shot, lead, and PAHs in the offshore sediments and overlying surface water. Additional investigation of lead and PAHs in the onshore soils of Site 27 was conducted under the EBS data gaps investigation in 2004. In September 2005, a hydrographic study was conducted to evaluate sedimentation rates and deposition in Clipper Cove. The results indicated steady-state conditions and sediment thickness may not be protective of diving ducks within 150 feet of the shoreline; therefore, an additional sediment investigation to characterize the distribution of lead shot in near-shore sediments was conducted in March 2008. The investigation indicated that lead shot is covered by only 1 foot of sediment in some near-shore locations. A revised FS report was finalized August 13, 2010.

The Navy prepared a site boundary change technical memorandum to exclude the upland portion of the site in support of property transfer. The boundary change was finalized on August 20, 2010. The PP/Draft RAP was finalized in June 2011 and a public meeting was held on June 14, 2011. A ROD/RAP is currently being prepared.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	18.77
Source of Concern	Skeet range
Contaminants of Concern	Lead shot, lead, and PAHs
Interim Actions	None
Current Status	ROD/RAP is being prepared.
USTs/ASTs	None
Estimated Site Completion	August 2013

SITE 28 – WEST SIDE ON/OFF RAMPS

Site 28 is located in the western portion of YBI and is bounded to the west by the Bay, to the east by Treasure Island Road, and to the south by Site 29. The Navy owned the property comprising the ramps and the area beneath the bridge until 2001, when the FHWA transferred the bridge right-of-way and ramps from the Navy to Caltrans; however, the boundary change in June 2005 excluded the west side on/off ramps from Site 28. Apart from the roads running through Site 28, most of the site is steeply sloped to the southwest toward the Bay and densely vegetated with trees and brush.

The Bay Bridge connects San Francisco with Oakland and other East Bay cities and crosses NAVSTA TI through a tunnel on YBI. Treasure Island Road has been in operation since the Bay Bridge was constructed in 1936.

Site 28 was not included in the IR Program until after the 1992 draft Phase I RI reporting period. An initial soil investigation was conducted in 1993 by Blaine Technical Services, Inc., a subcontractor to Seaworkers, Inc. The investigation was conducted in connection with health and safety concerns for workers performing seismic improvements to the on/off ramps in areas possibly containing elevated concentrations of metals in airborne dust. Additional investigations performed as part of the primary Phase IIB RI were reported in the draft 1997 RI report. In December 2001, the Navy completed a validation study to confirm results of the screening-level ecological risk assessment included in the 1997 RI report for the Peregrine Falcon (*Falco peregrinus*). The study concluded that no unacceptable risk was posed to the falcon at Sites 8, 11, 28, and 29. The surface soil on the site may be contaminated by lead and other metals as a result of vehicle emissions, as well as bridge and ramp painting and maintenance.

The Navy finalized the RI report with recommendations for NFA. An NFA PP and public comment period were completed by April 29, 2010. A NFA ROD was signed on November 22, 2010. Although Site 28 has a NFA ROD and no LUCs will be included as part of the CERCLA remedy, use of the property will be restricted due to placement in the Tidelands Trust.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	FOST Site 28 Parcel (YBI FOST 3)
Regulatory Classification	CERCLA
Acreage	10.53
Source of Concern	LBP from the Bay Bridge
Contaminants of Concern	Lead
Interim Actions	None
Current Status	<ul style="list-style-type: none"> • NFA PP was finalized in May 2010. • NFA ROD was signed November 22, 2010.
USTs/ASTs	None
Estimated Site Completion	December 2011 (1 year allocated for transfer/tidelands trust exchange)

SITE 29 – EAST SIDE ON/OFF RAMPS

Site 29 is located below and parallel to the Bay Bridge from the northeastern portion of YBI westward to the YBI tunnel, with a portion of the site on the western side of the YBI tunnel. The western and central portions of the site are mostly covered by pavement or concrete associated with the bridge and the on- and off-ramps. The Navy owned the property comprising the ramps and the area beneath the bridge until 2001, when the FHWA transferred the bridge right-of-way and ramps from the Navy to Caltrans. The Bay Bridge and west side on/off ramps border the southern portion of Site 28 and were included in Site 29 based on the boundary change made in June 2005. The remainder of the site, on the east side of the YBI tunnel, is steeply sloped to the southwest and vegetated with trees and brush. The YBI on/off ramps have been in operation since the Bay Bridge was constructed in 1936. The Bay Bridge connects San Francisco with Oakland and other East Bay cities and crosses NAVSTA TI through a tunnel on YBI. The surface soil on the site may be contaminated by lead and other metals from vehicle emissions, as well as bridge and ramp painting and maintenance

Site 29 was not included in the IR Program until after the 1992 draft Phase I RI reporting period. While Site 29 was not investigated during the Phase I RI, samples for the Site 11 RI (adjacent to Site 29) were collected within the Site 29 boundary. Additional investigations performed as part of the primary Phase IIB RI were reported in the draft 1997 RI report. In December 2001, the Navy completed a validation study to confirm results of the screening-level ecological risk assessment included in the 1997 RI report for the Peregrine Falcon (*Falco peregrinus*). The study concluded that no unacceptable risk was posed to the falcon at Sites 8, 11, 28, and 29.

Petroleum Program investigations have overlapped with the Site 29 boundaries. The former fuel pipelines YF3 and USCG were investigated in 1997, and additional borings were drilled in 2000 and 2001 for further delineation of the extent of contamination along the former fuel pipelines. The Regional Water Board has requested the Navy to perform additional investigation along this section of the pipeline. Removed UST 270, formerly within the Site 29 boundaries, was investigated from 1995 to 1997. The Navy received an NFA closure letter from the Regional Water Board for UST 270 in 2004.

An SI was performed by Caltrans in 2001 to chemically characterize soil and groundwater for potential contaminants that may be encountered during construction activities. In 2002, additional lead investigations were conducted to fully delineate the extent and magnitude of lead in surface soils at Sites 8, 11, and 29; collect additional soils data for comparison to the validation study results; and provide additional data, if needed, for the HHRA presented in the 1997 RI report for Sites 8, 11, and 29. Field inspections of Site 29 were performed in April and October of 2006 to verify removal of contaminated soil by Caltrans and to document ongoing construction activities.

The Navy finalized the interim RI report for Sites 8 and 29 in March 2009, and is discussing site closeout with Caltrans. The schedule in [Appendix B](#) is based on Caltrans' quarterly schedule. After bridge construction is complete, an RI addendum will need to be prepared for the site. In December 2010, the Navy finalized a site boundary change technical memorandum to exclude the Bay Bridge on/off-ramp in support of property transfer. In December 2011, the Navy finalized another site boundary change technical memorandum to exclude the three "artifacts" from Site 29 in support of property transfer.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	On Caltrans-owned property On Caltrans temporary construction easement property
Regulatory Classification	CERCLA, UST
Acreage	15.13
Source of Concern	LBP from the Bay Bridge, fuel line
Contaminants of Concern	Lead and SVOCs
Interim Actions	None
Current Status	<ul style="list-style-type: none"> - Interim RI report (for Sites 8 and 29) was submitted in March 2009. - Navy is discussing site closeout with Caltrans.
USTs/ASTs	<ul style="list-style-type: none"> • UST Quarters 8: removed, received NFA concurrence from the Regional Water Board October 3, 1997. • UST 213, previously suspected, never existed: received NFA concurrence from the Regional Water Board December 2, 2003.
Estimated Site Completion	January 2020

SITE 30 – DAYCARE CENTER

Site 30, Daycare Center, is located south of the Treasure Island Elementary School, at the corner of Avenue D and 11th Street. The site was undeveloped until the Navy's former daycare center was built in 1985. After NAVSTA TI closed, the Treasure Island Daycare Center was leased to the City of San Francisco under a finding of suitability to lease (FOSL) on July 29, 1997. The current daycare center opened on March 17, 2003.

As part of the EBS to support the leasing of the daycare center, the Navy reviewed a 1989 as-built drawing of the water lines in the area; the drawing noted the comment "buried trash" along 11th Street. In 2002, a series of investigations identified various types of wastes, including buried burned debris associated with historical practices that contained lead at concentrations that exceeded the site soil screening level. Based on these findings, in July 2002, the Navy completed a time-critical removal action. Additional burned debris was found, and analytical results for soil samples showed the presence of dioxins, lead, arsenic, and vanadium. The Navy continued to investigate in an effort to delineate the extent of the burned debris and dioxin contamination. Some of the soil containing burned debris was not accessible and could not be removed. In January 2003, the Navy therefore installed a 6-inch concrete pad adjacent to the daycare center to cover the 1,400-square-foot area around and between the locations that contain elevated concentrations of dioxin in the subsurface soil. The concrete pad serves as a protective barrier to prevent contact with the soil. The site was designated as a CERCLA site in September 2002. The Site 30 boundary adjacent to Site 31 was modified in February 2005 to exclude the sidewalks on the south side of 11th Street.

A groundwater investigation was conducted in May 2004. Samples were analyzed for VOCs, SVOCs, metals, TPH, pesticides, PCBs, and dioxins. No chemicals were detected above TI groundwater screening values. The RI report was finalized in February 2006. The FS was finalized in November 2006. The PP was finalized September 18, 2008 and the public meeting was held on October 7, 2008. The ROD was finalized August 5, 2009. LUC inspection and reporting is ongoing.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	1.46
Source of Concern	Burn debris disposal area
Contaminants of Concern	Dioxins and metals
Interim Actions	Time-critical removal actions in July 2002 and agency-approved concrete cap installed January 2003.
Current Status	LUC inspection and reporting is ongoing.
USTs/ASTs	None
Estimated Site Completion	October 2012

SITE 31 – FORMER SOUTH STORAGE YARD

Site 31, the asphalt-covered playground south of the Treasure Island Elementary School, referred to as the Former South Storage Yard, is located at the corner of Avenue E and 13th Street. According to historical aerial photographs, Site 31 was used during the 1970s as a storage yard; however, the nature of, and operations at the storage yard are unknown. In the late 1970s, the area was paved over and developed as a playground for the elementary school. Based on the FOSL and the restrictions identified therein, the Navy entered into a lease agreement with the San Francisco Unified School District on May 13, 1996 for the elementary school and associated playground.

In 2002, the Navy investigated the area because of its former use as a storage yard and because of the reference to an “old trash dump” noted on a 1989 as-built drawing for the 11th Street water line replacement project. An initial investigation identified the presence of construction and burned debris. The initial investigation also identified concentrations of lead, PCBs, and DDT in soil that were elevated above the site screening levels. These chemicals may have been associated with fuel leaks or other releases from the machinery, electrical equipment, and paint that were stored in the former storage yard area. The site was designated as a CERCLA site in September 2003. The Site 31 boundary, adjacent to Site 30, was modified in April 2005 to include the sidewalks on the south side of 11th Street.

An additional soil investigation in 2003 identified concentrations of TPH as diesel and motor oil, PAHs, and dioxins at the site. The asphalt currently serves as a protective barrier to prevent contact with the soil beneath the playground. A groundwater investigation was conducted in May 2004. Samples were analyzed for VOCs, SVOCs, metals, TPH, pesticides, PCBs, and dioxins. None of these chemicals were detected above TI groundwater screening values.

The RI report was finalized in July 2006. The FS report was finalized in March 2007. The PP was finalized September 18, 2008 and the public meeting was held on October 7, 2008. The ROD was finalized on August 5, 2009. A final soil remediation work plan was submitted January 28, 2010. The soil remediation field work (referred to as Phase I) began in February 2010, and continued through July 2010. Radium-226 has also been detected at the site. The Navy is currently preparing the Phase II Soil Remediation Work Plan for both Sites 31 and 33 that includes radiological characterization and remediation procedures.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	2.02
Source of Concern	Storage yard, burn debris disposal
Contaminants of Concern	Lead, dioxins, PAHs, PCBs, TPH, and radium-226
Interim Actions	None
Current Status	Phase II Soil Remediation Work Plan is being prepared.
USTs/ASTs	None
Estimated Site Completion	October 2012

SITE 32 – FORMER TRAINING AND STORAGE AREA

Site 32, the Former Training and Storage Area, consists of portions of EBS Parcels T111 and T115, is east of the WWTP on Avenue M and includes Buildings 462 and 463. The area has been used as a parking area for vehicles and forklifts, a storage area for hazardous materials and hazardous wastes, a tear gas training area, and as storage for former training facilities. A concrete pad, located north of Building 463, formerly held an electrical transformer. Historically, the site was also used for radiological decontamination training. The Damage Control School was relocated from the northwestern area (Site 2) to the northeastern area of the base in March of 1970. The new training complex consisted of Buildings 461, 462, 463, and the exercise area containing the U.S.S Pandemonium mockup. Training activities at the complex are discussed in more detail in the “Final Treasure Island Naval Station Historical Radiological Assessment” by Weston Solutions, Inc., published February 2006. The “Historical Radiological Assessment” evaluated past operations in the vicinity and determined that radiological issues were not a concern. Building 445 is located within Parcel T115 and was historically used for forklift maintenance, boat motor storage, general shop activities, and administrative offices. The Site 32 area was designated for investigation because fluid that contained PCBs was known to have been released from the former transformer and to assess the possibility of contamination associated with historical site usage.

Initial investigations, under the EBS data gaps investigation, were conducted at the site in April 2003. Additional investigations were conducted between September and November 2003. Soil and groundwater samples were collected. Soil samples from the initial investigation contained concentrations of PCBs, TPH as diesel and motor oil, dioxins, and pesticides. There were no detections in groundwater above screening criteria. The site was designated as a CERCLA site on April 6, 2004. An adjustment to the boundary between Sites 6 and 32 was made in June 2005. Additional trenching activities were performed at Site 32 in October 2005 to investigate the nature and extent of dioxins in shallow soils. An RI Report has been completed that recommends the completion of an FS. A Toxic Substances Control Act (TSCA) PCB remediation, which was an interim removal action that also addressed arsenic, was completed at Site 32 in March 2010. A year of post removal action groundwater monitoring is underway. A post-construction summary report was finalized in July 2011. Both the PP/Draft RAP was finalized September 16, 2011, and a public meeting was held on September 28, 2011. A ROD/RAP is being prepared.



Aerial photographs taken by Air Flight Service on May 15, 2009.

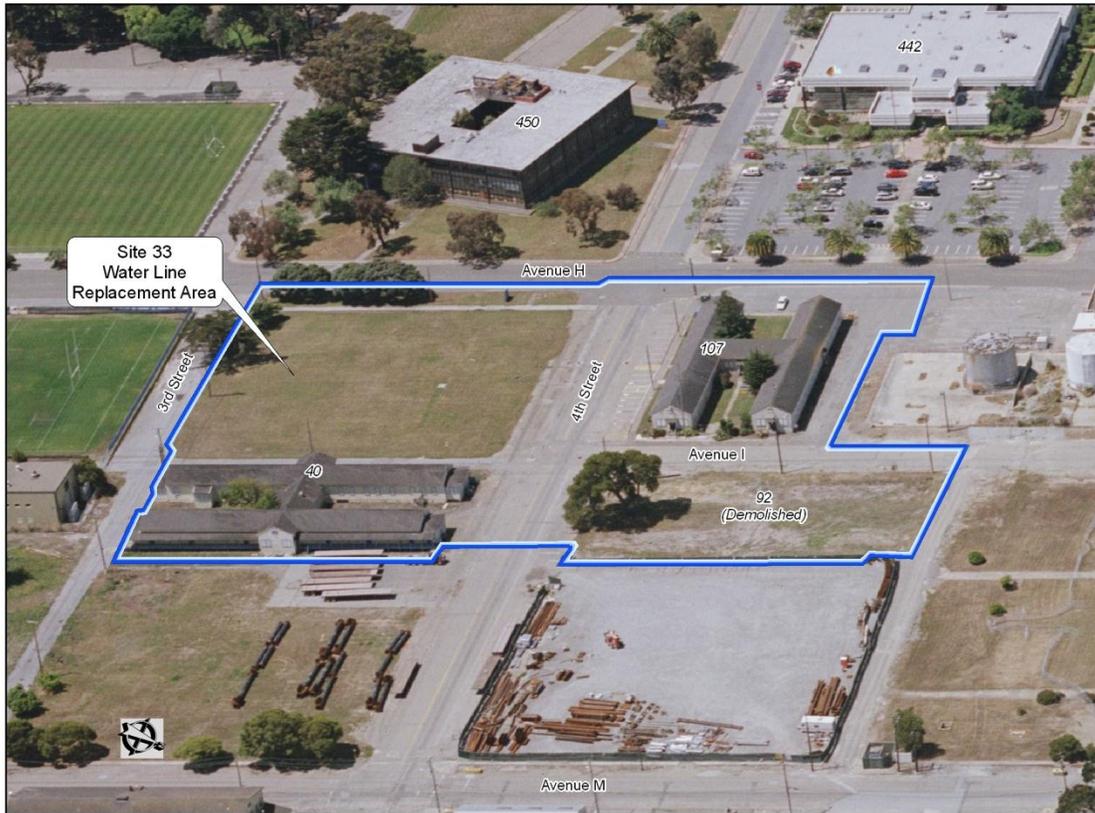
Transfer Category	--
Regulatory Classification	CERCLA
Acreage	2.60
Source of Concern	Transformer, storage area
Contaminants of Concern	PCBs, TPH, dioxins, pesticides, arsenic
Interim Actions	TSCA soil removal in 2010.
Current Status	<ul style="list-style-type: none"> • ROD/RAP is being prepared. • Groundwater monitoring is underway.
USTs/ASTs	None
Estimated Site Completion	April 2014

SITE 33 – WATER LINE REPLACEMENT AREA

Site 33, the Water Line Replacement Area, is located south of Site 24. The area was identified on historical as-built drawings, which showed locations where crews observed debris in the trench for the water line during extensive repairs in the 1980s. In addition, areas of debris were identified near Building 530 (Parcel T015) during removal of a petroleum pipeline. Most of the areas of debris are within the footprint of the former Lake of the Nations, constructed for the Golden Gate International Exposition of 1939 and 1940.

Initial investigations, under the EBS data gaps investigation, were conducted at the site in April 2003. Additional investigations were conducted between September and November 2003. Soil and groundwater samples were collected. Soil samples contained concentrations of dioxins and metals. An additional groundwater investigation was conducted in the summer 2005. Groundwater samples contained concentrations of copper, lead, mercury, nickel, silver, and zinc. The site was designated as a CERCLA site on April 6, 2004. The RI Report was finalized on April 30, 2010. An Explanation of Significant Differences (ESD) was finalized on May 24, 2011, to complete the RA for Site 33 under the Site 31 ROD.

The Navy is currently preparing the Phase II Soil Remediation Work Plan for both Sites 31 and 33 that includes radiological characterization and remediation procedures. The potential for incidental radium-226 contamination exists due to the presence of debris at the site.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	4.89
Source of Concern	Debris disposal area
Contaminants of Concern	Arsenic and lead
Interim Actions	None
Current Status	Phase II Soil Remediation Work Plan is being prepared.
USTs/ASTs	None
Estimated Site Completion	October 2012

PETROLEUM PROGRAM

SITE 4/19 – HYDRAULIC TRAINING SCHOOL/REFUSE TRANSFER AREA

Site 4 is located approximately 200 feet north of 5th Street, between Avenues M and N. Sites 4 and 19 are generally referred to as Site 4/19. Site 4 is known as the Hydraulic Training School and includes a paved, fenced area that formerly contained about fifteen 55-gallon drums of waste oil (mainly transmission oil). Waste oil released from drums stored at the site is the primary potential contaminant. Waste oil leaks or spills stained the underlying concrete pavement and an adjacent earthen area. Several hundred square feet of surface area has been affected. The site also includes an eastern lot, referred to as the investigation-derived waste storage area.

Site 19, located just south of Site 4, is known as the Refuse Transfer Area. The site was used to hold and transfer refuse beginning in 1953; it is unknown when operations ceased. Little information exists regarding disposal practices before 1970. Previous environmental assessments have found small isolated areas of oil, grease and petroleum hydrocarbons in surface soils.

The closure report requesting NFA was submitted on December 15, 2003, and Regional Water Board concurrence was received. Additional investigation of PAHs in soils was conducted under the EBS data gaps investigation in 2004.

Transfer Category	Portion of 2010 FOST Parcel 5
Regulatory Classification	Petroleum Program
Acreage	1.72
Source of Concern	Storage area; spill area; maintenance yard; transfer facility
Contaminants of Concern	Petroleum, oil, lubricants
Interim Actions	None
Current Status	NFA concurrence received from Regional Water Board on December 17, 2003.
USTs/ASTs	None
Site Completion	Closed

SITE 6 – FIRE TRAINING SCHOOL

Site 6, the former Navy firefighting training school, was used for nearly 50 years (1944 to 1992) for various firefighting training activities. The training school formerly included 23 buildings, 6 USTs, and a central training yard, which consisted of burn areas lined with asphalt and concrete. Fires fueled with diesel and gasoline, magnesium, and wood were set in various mockups in the training yard and were extinguished with a mixture of water, biodegradable soap, and industrial talc. Approximately 19,000 gallons of gasoline and 32,000 gallons of diesel fuels were used each year for the firefighting training. Wastewater and unburned gasoline and diesel were collected in a concrete collector trench (installed in about 1949) situated around the perimeter of the training school yard. Wastewater and unburned gasoline and diesel collected in the trench passed through on-site oil water separators (OWS). No historical information has been discovered that discusses disposal of wastes before the perimeter concrete collector trench and the on-site OWSs were constructed. Wastewater generated and treated at the site was discharged to the NAVSTA TI wastewater treatment plant (WWTP), constructed in 1968, and waste diesel and gasoline fuels were disposed of at an off-base location. Before 1973, the wastewater that flowed to the concrete collector trench was discharged to the Bay without treatment. Approximately 14,000 gallons of petroleum residue was generated per year at the training school.

All buildings have been removed from the site. Four 1,500-gallon USTs (240A, 240B, 248A, and 248B) that contained gasoline and diesel for firefighting training were present within the northern and eastern portions of the training yard. USTs 240A and 240B were removed in 1992, and USTs 248A and 248B were removed in 1995. Two 1,000-gallon USTs (248C and 248D), previously used to store waste fuel, were removed in 2002. One known AST (248), located near UST 248D, was removed prior to 1995. UST M, a previously suspected UST for coolant, was reported in Shaw Environmental, Inc.'s (Shaw) "Final Facilitywide Underground Storage Tank Summary Report Update," dated August 25, 2004, as never having been installed, based on document reviews and discussions with Navy personnel. Petroleum remedial activities were conducted at Site 6 between May and December 2002. Remedial activities included excavation of USTs and excavation of petroleum-contaminated soils near the USTs, pipelines, and OWS components throughout the site. Remediation also included evaluation and excavation of free product near USTs 240A and 240B. In October 2002, during petroleum remedial excavation activities at the UST 248 area, burn surfaces were identified in the vicinity of the former Building 464 foundation. Shallow soil samples collected in this area had dioxin and furan concentrations above the soil screening levels. The excavation was subsequently expanded to include removal of burn debris and soot-discolored areas. Results from confirmation samples found dioxins and furans above the screening levels, causing Site 6 to be transferred to the CERCLA program on September 18, 2003.

Further investigation and delineation of dioxins and furans detected in soil was conducted under the CERCLA Program as part of the EBS data gaps investigation in 2003. Based on investigation results, the BCT agreed to a boundary revision for the CERCLA site at the June 7, 2005 BCT meeting. The boundary revision included a portion of Parcel T112 to the east and north of the WWTP area where dioxins were detected in shallow soil samples. On January 24, 2007, a second boundary revision was submitted separating Site 6 (CERCLA Program) and Site 6A (Petroleum Program). DTSC did not concur with the request to modify the boundary. Other investigations include a soil gas sampling program completed in October 2004 to evaluate VOC in soil gas near former USTs 240A and 240B. Groundwater at Site 6 continues to be monitored semi-annually under the Basewide Petroleum Sites Groundwater Monitoring Program.

During 2008, Site 6 was used as a temporary excavated soil staging and loading area, including the radiological control area (RCA) for the Site 12 non-time critical removal action (NTCRA). Prior to use for staging and loading activities, a baseline radiological survey was conducted. While staging and loading activities were ongoing, engineering controls were developed, air monitoring equipment was installed, and a surveillance program for health and safety was in place. In addition to engineering controls, best management practices, such as keeping soil stockpiles covered to prevent releases, were used. The soil staging and loading area activities included temporary stockpiling and loading of soil into bins at which point they were characterized and shipped off-site to a licensed disposal facility. The waste shipped offsite included both chemical and low level radiologically impacted soil (radium-226). Soils are no longer stockpiled at Site 6. Low level radiological waste that has been characterized and placed in sealed bins is stored in the RCA while awaiting off-site disposal. Once the Site 12 NTCRA has been completed, a MARSSIM FSS will be conducted at Site 6.

To address the concerns expressed by the Regional Water Board, the Navy is planning to conduct additional investigations in the vicinity of the formerly removed USTs (240 series). In 2010, the Navy completed a CERCLA data gap investigation to further evaluate the nature and extent of chemicals in soil, soil gas, and groundwater. The Navy is currently preparing a combined RI/FS. The RI Report will incorporate comments received on the 2007 proposed boundary revision request and the 2010 data gap investigation results.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	--
Regulatory Classification	Petroleum; CERCLA
Acreage	3.45
Sources of Concern	USTs, firefighting training area, OWSs
Contaminants of Concern	Petroleum
Interim Actions	<ul style="list-style-type: none"> • USTs removed in 1992, 1995, and 2002. • Floating product removal action completed in 2002.
Current Status	<ul style="list-style-type: none"> • Groundwater monitoring continues. • Additional investigation of removed USTs (240 series) is being planned under a Corrective Action Plan.
USTs/ASTs	<ul style="list-style-type: none"> • AST 240, 248 and USTs 240A, 240B, 248A, 248B, 248C, and 248D all are removed and awaiting NFA concurrence. • Previously suspected UST M received concurrence on NFA December 2, 2003.
Estimated Site Completion	December 2012

SITE 14/22 – NEW FUEL FARM/NAVY EXCHANGE SERVICE STATION

Site 14/22 is located along the shoreline in the northeastern portion of TI. It served as a fuel storage area and gas station for more than 50 years. Fuel storage and dispensing activities at Site 14/22 resulted in releases of diesel, waste oil, and gasoline into the environment. Based on available information about the site history and operations, the suspected sources of gasoline, diesel, and petroleum contamination at Site 14/22 include the tanks and associated piping, a gasoline pumphouse (Building 85), and the service station (Building 330). A full-scale treatment system including air sparging and soil vapor extraction, installed in the area of the former USTs, has been dismantled. The system operated for 3 years and was effective in removing TPH. A soil cleanup action, including large-scale soil excavation, was completed at Site 14/22 in 2004.

Transfer Category	Upcoming FOST
Regulatory Classification	Petroleum; UST
Acreage	2.18
Source of Concern	ASTs and USTs; petroleum pipelines; vehicle maintenance
Contaminants of Concern	Petroleum, oil, lubricants, VOCs
Interim Actions	UST/AST removals completed, 1997 pipeline removal action completed, in situ groundwater treatment system completed, large-scale shallow soil excavation completed in 2004.
Current Status	NFA concurrence received from Regional Water Board on July 18, 2005.
USTs/ASTs	<ul style="list-style-type: none"> • USTs 85, 330A through 330F removed. • ASTs 4, 5, and 456 removed. • ASTs 6A through 6G abandoned in place. • AST 672 active. • USTs 330C and 330D received closure July 22, 1996. • USTs 85, 330A, 330B, 330E, and 330F received NFA concurrence July 18, 2005, and are awaiting a closure letter.
Site Completion	Closed

SITE 15 – OLD FUEL FARM

Site 15 is located on the southeastern shore of TI at the intersection of Avenues M, N, and California Avenue. The site was the original fuel storage and distribution facility for NAVSTA TI, which consisted of two large-capacity ASTs (4M and 5M), four smaller-capacity ASTs (collectively identified as AST 6M), a gasoline pump house (Building 84), a diesel pump house (Building 86), and a diesel oil clarifier (Building 85). In 1943, ASTs 4M, 5M, and 6M were relocated to the New Fuel Farm (Site 14). In 1945, Building 85 was moved to the New Fuel Farm, and Building 86 was demolished; Building 84 was demolished in 1961. Two smaller former diesel ASTs (ASTs 34A and 34B) were located near Building 34. Former fuel AST 34A was located on concrete mounts east of Building 34, and former fuel AST 34B was apparently located on a concrete pad next to an emergency generator southeast of Building 34. Investigations at Building 34 in 1985 revealed soil suspected of containing oil or petroleum hydrocarbons. No impact to groundwater has been identified in the area of Building 34.

Fuel lines, where found, were removed during remedial activities in 1997 and 1998. Preliminary remediation wells were installed in 2001 to assess TPH contamination in the eastern subarea, along fuel line D1 and approximately 400 feet west and downgradient of Building 34 within Site 15. The remediation wells were not effective at recovering free product because of the nature of TPH contamination at Site 15. The Navy excavated several areas of PAH-contaminated shallow soil in 2002, and continued monitoring groundwater at the site from 2001 until 2004. The site received concurrence from the Regional Water Board that NFA was required in September 2004.

Transfer Category	2006 TI FOST (FOST 1), Upcoming FOST, and Portion on Job Corps Property
Regulatory Classification	Petroleum
Acreage	4.87
Source of Concern	ASTs; petroleum/pipelines
Contaminants of Concern	Petroleum, oil, lubricants
Interim Actions	Tank removals completed and excavation of petroleum contamination completed.
Current Status	NFA concurrence received from Regional Water Board in September 2004.
USTs/ASTs	ASTs 4M, 5M, 6M, 34A, 34B; removed
Site Completion	Closed

SITE 16 – CLIPPER COVE TANK FARM

Site 16, the Clipper Cove Tank Farm, is located on the eastern side of the isthmus that joins YBI and TI, adjacent to the causeway. Ten 17,000-gallon ASTs, reported to have stored aviation gasoline and automotive diesel fuel at Site 16, were in use from at least 1943 until they were dismantled in the 1960s. Sludge was removed from the ASTs during their dismantling, with unknown quantities of sludge reportedly deposited on bare ground east of the former AST locations. No documentation of removal and disposal of the sludge during the 1960s has been found. Based on the investigation at the site, it appears that at least some portion of the sludge was left on the surface to degrade and leach into the underlying soils. In 2001, contaminated surface soil was excavated by the Navy and disposed of off-site. The area has a picnic table and is currently unpaved and covered with shrubs and trees.

Transfer Category	2006 YBI FOST (FOST 2)
Regulatory Classification	Petroleum
Acreage	1.22
Source of Concern	ASTs
Contaminants of Concern	Petroleum, oil, lubricants
Interim Actions	Tank removal action completed; soil excavation completed.
Current Status	NFA concurrence received from Regional Water Board on June 17, 2004.
USTs/ASTs	10 ASTs removed
Site Completion	Closed

SITE 20 – AUTO HOBBY SHOP/TRANSPORTATION CENTER

Site 20, the Auto Hobby Shop and Transportation Center, is located on the northwestern side of TI. Site 20 is fully encircled by Site 12. The area was used as the NAVSTA TI transportation center from 1943 to 1950. The transportation center included the transportation building (Building 194), garage and repair shop (Building 284), and storage or barracks (Building 225 and 267). In approximately 1961, Building 225 was converted to an Auto Hobby Shop, the garage portion of Building 224 was demolished, and the filling station became Building 370 (east of Building 225) until it was demolished in 1976. Four known USTs (225A through 225D) were located at Site 20, east of Building 225 at the site of the former service station; all four were removed in 1988. Approximately 2,200 cubic yards of soil surrounding the former USTs was excavated in 1990 and was aerated adjacent to the excavation. The Navy later disposed of the aerated soils at an off-site, permitted landfill. In 2001, soil was removed in the vicinity of the former USTs and in two areas of surface contamination. The Navy received concurrence on NFA for USTs at Site 20 on May 5, 2004, and received an overall site closure on June 17, 2004.

Transfer Category	--
Regulatory Classification	Petroleum; UST
Acreage	1.63
Source of Concern	Maintenance yard; USTs
Contaminants of Concern	Petroleum, oils, lubricants, VOCs
Interim Actions	UST corrective action completed; soil excavation completed.
Current Status	NFA concurrence letter received for USTs 225A through 225D; overall site closure letter received on June 17, 2004.
USTs/ASTs	USTs 225A through 225D removed
Site Completion	Closed

SITE 25 – SEAPLANE MAINTENANCE AREA

Site 25 was previously used for vehicle and seaplane maintenance activities. Based on available information about the history and operations at the site, the suspected sources of gasoline, diesel, and petroleum contamination at Site 25 are (1) the suspected USTs, (2) the former fuel pump house (Building 143), (3) the former airplane and vehicle maintenance, (4) the causeway pipeline (between Sites 16 and 25), and (5) the former auxiliary boiler (Building 520) and associated AST. The seaplane maintenance area consists of a total of 11 buildings that were used for or associated with storing and maintaining seaplanes. Pipelines between Sites 16 and 25 have been removed. An in situ groundwater treatment system, including soil vapor extraction and air sparging, operated at the site until April 28, 2005.

The Navy submitted the “Final Site 25 Closure Report and Request for No Further Action” on December 7, 2005. Following correspondence with the Regional Water Board, a final letter from the Regional Water Board dated August 29, 2006, did not concur with closure and NFA request for the site. Additional groundwater monitoring was conducted at the site. In early 2009 soil samples were collected to confirm post-treatment concentrations of TPH. Results of the soil samples were presented in the Final Addendum to the Closure Report Site 25, submitted January 29, 2010, requesting NFA concurrence and closure of the suspected USTs 2B and 143A through 143I. At the request of the Water Board, the Navy conducted a targeted soil gas investigation in late 2010 and early 2011. The Navy submitted a technical memorandum to report the soil gas investigation results and vapor intrusion pathway evaluation and request site closure on March 7, 2011. The Regional Water Board provided concurrence on the Navy’s recommendation for NFA at the site in a letter dated October 28, 2011.



Aerial photographs taken by Air Flight Service on May 15, 2009.

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), portion on upcoming FOST property
Regulatory Classification	Petroleum; UST
Acreage	3.26
Source of Concern	USTs; petroleum pipelines
Contaminants of Concern	Petroleum, oil, lubricants
Interim Actions	Groundwater monitoring
Current Status	NFA concurrence received from Regional Water Board on October 28, 2011.
USTs/ASTs	USTs 2B, 145, 143A-I suspected
Estimated Site Completion	Closed

UST SITES (SITE 26)

USTs have been used at NAVSTA TI to store fuels and oils for package heaters or boilers at individual buildings, backup power generators, gas stations, firefighter training activities, and aviation. The tanks were filled either through underground pipeline or by tanker truck. In addition, a number of USTs were used to store waste oil. Most of the USTs were installed in the 1940s. The USTs were removed from service over time as the specific uses of the buildings changed; many of the USTs were out of service by the 1980s.

The Navy began investigating known and suspected USTs in the early 1980s because of California's UST operating regulations. In addition to tanks mentioned previously, numerous tanks were outside of site boundaries and were reported as individual closure efforts. The Navy submitted the facilitywide UST summary report (October 2003), which assigns each tank identified to one of three categories:

- **Known underground storage tanks:** USTs that are known to have existed.
- **Suspected underground storage tanks:** USTs that are suspected to have existed but that were removed previously or that may have been abandoned.
- **Previously suspected underground storage tanks:** USTs that were once thought to have existed but that are now suspected to have never existed based on further investigation.

Regulatory concurrence on closure or NFA has been achieved for 79 known, suspected, or previously suspected USTs at NAVSTA TI. USTs with known releases to the environment are closed pursuant to Title 23 of the *California Code of Regulations*. If the UST was used to store heating oil and had a capacity of less than 1,100 gallons, or if no release occurred, the Navy requests NFA and submits a letter to the Regional Water Board for concurrence. For sites that have received NFA concurrence, the Navy demonstrated to the Regional Water Board that NFA is required. For sites that received regulatory closure, the Navy has completed all site investigations and remedial actions related to the UST site.

All USTs on Navy property have been removed from service; the only active USTs on TI and YBI are operated by the USCG at its facility on YBI. The current status of all known and suspected USTs on TI and YBI are summarized below as well as shown on [Figures 6 and 7](#), respectively.

Previously Suspected Tanks with No Further Action Concurrence

Regulatory concurrence for NFA was received December 2, 2003, for 16 previously suspected tanks located at NAVSTA TI.

Letter Date	TI UST	YBI UST
December 2, 2003	3A, 3B, 7, 145, 180F, 180G, 267, 368C, 450, 452, 453, 461, FF8, and M	213, 262

Known or Suspected Tanks with Regulatory Closure or No Further Action Concurrence

The Regional Water Board issued concurrence for NFA on 24 tanks on TI and 19 tanks on YBI. Regulatory closure has been received for 25 tanks on TI and 5 tanks on YBI.

USTs with NFA Concurrence		
Letter Date	TI UST	YBI UST
July 23, 2002	--	1 through 7, 9, 10, 62, 240
September 5, 2003	234	57
February 12 ⁶ , 2004	15, 26, 29	--
June 17, 2004	140	204A, 204B, 204C, 204D, 221, 230, 237
September 21, 2004	227	--
May 9, 2005	14A, 14B	--
July 18, 2005	85, 330A, 330B, 330E, 330F	--
October 11, 2005	180C	--
October 28, 2011	143A, 143B, 143C, 143D, 143E, 143F, 143G, 143H, 143I, 2B	--
Closed USTs		
Letter Date	TI UST	YBI UST
July 22, 1996	1B, 1C, 1D, 1F, 2A, 2D, 180A, 180B, 330C, 330D	111, 169
October 3, 1997	180D, 180E, 230, 257	8 [QTR8, QR08]
July 7, 2000	1G [469]	--
February 25, 2002	1A, 1E, 2C, 368A	--
October 23, 2002	--	66
December 17, 2003	368B	--
February 10, 2004	201	270
May 5, 2004	225A, 225B, 225C, 225D	--

⁶ This date is approximate; the date on the letter is illegible.

Tanks Requiring Regulatory Closure or NFA Concurrence

Six USTs on TI and one UST on YBI still require regulatory closure.

The Final Closure Report for Site 6, submitted December 16, 2005, requested tank closure for six USTs: 240A, 240B, and 248A through 248D. The tank on YBI (UST 238) requires additional investigation.

Tanks Requiring Additional Investigation Prior to Closure or NFA Concurrence

Further investigation of Site UST 238 on YBI is on hold until Caltrans completes work in the area.

Tanks Proposed for Closure

Work has been completed at six USTs on TI at Site 6, including: 240A, 240B, and 248A through 248D. These tanks were proposed for closure in the Site 6 closure reports and are undergoing additional investigation.

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), various FOST parcels in upcoming FOST
Regulatory Classification	Petroleum
Acreage	Not applicable
Source of Concern	USTs, ASTs
Contaminants of Concern	Petroleum
Interim Actions	None
Current Status	The following tanks have been proposed for closure: <ul style="list-style-type: none">• Site 6 (240A, 240B, 248A, 248B, 248C, and 248D)
USTs/ASTs	Not Applicable
Estimated Site Completion	Various

INACTIVE FUEL PIPELINE SITES

Fuel pipelines once traversed NAVSTA TI. Six main fuel lines were installed on TI as early as the 1940s and transported gasoline, diesel, bunker C fuel, and other petroleum products. [Figure 7](#) shows the fuel pipeline sites. Reports indicate that some fuel lines were inactive as early as 1945. The remaining fuel lines were reportedly removed from service in 1989. Three major fuel lines were installed in 1944 to carry fuel oil from storage tanks to steam boilers on YBI and have been inactive since 1980. A majority of the pipeline system has been removed or abandoned in place. Portions of the pipeline system where additional corrective actions are expected include the YF3 and USCG sites. Investigations for outstanding environmental issues at Inactive Fuel Line YF3, identified under the Petroleum Program, are currently being planned.

Closed Fuel Lines

The fuel lines listed below on TI and YBI have received regulatory closure.

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), and various FOST parcels in an upcoming FOST
Regulatory Classification	Petroleum
Acreage	Not applicable
Source of Concern	Pipeline
Contaminants of Concern	Petroleum
Interim Actions	Pipeline removal action completed; floating product removal completed.
Current Status	<ul style="list-style-type: none"> • Regional Water Board letter received March 11, 2003, concurs with NFA at Causeway Pipeline. • Regional Water Board letter received July 9, 2003, concurs with NFA at Building 530 Pipeline. • Regional Water Board letter received February 12, 2004, concurs with NFA at Pipeline Sites D1A, D1C, D2A, D2B, D4A, D4B, D5, and YF1 and USTs 26, 29, and 15. • Requests additional investigation at Pipeline Site YF3 and USCG Site. • Regional Water Board agrees to postpone investigations at the YF3 and USCG sites until after Caltrans has completed construction in the area. • Additional investigations for YF3 are being planned. • Regional Water Board letter received June 17, 2004, concurs with NFA at YF2. • Regional Water Board letter received May 9, 2005, concurs with NFA at F2A. • Regional Water Board letter received July 20, 2005, concurs with NFA for shallow soil at D1B. • Regional Water Board letter received August 22, 2005, concurs with NFA at F2A/F2B. • Regional Water Board letter dated May 15, 2006, concurs with NFA at D1B.
USTs/ASTs	USTs associated with the pipelines, removed
Estimated Site Completion	May 2006, with the exception of USCG (December 2014) and YF3 (June 2015) sites

COMPLIANCE AND BASEWIDE PROGRAMS

Polychlorinated Biphenyls Program

Residential Lead-Based Paint Program

Radiological Program

Asbestos-Containing Material Program

Groundwater Monitoring Program

Regulatory Interaction Support

Community Relations Program

Transfer Related

POLYCHLORINATED BIPHENYLS PROGRAM

PCB contamination has been investigated and remediated at NAVSTA TI under CERCLA and TSCA regulations and guidelines (Figure 8). PCBs exist at various locations and concentrations at NAVSTA TI. A remedial program was initiated at NAVSTA TI for electrical equipment, such as high-voltage primary transformers that contained dielectric fluid that may contain PCBs. Transformers were inventoried under the program, and several transformers identified as containing PCBs were removed between 1995 and 1996. A 1995 EBS documented spills and stains potentially related to PCBs. The Navy conducted an additional evaluation by reviewing aerial photographs and historical information on building usage.

The Navy performed investigations of all known former PCB-containing equipment within the proposed FOST-area in May 2004 to confirm that property is suitable for transfer. The Navy also sampled all non-FOST footprint equipment locations that exhibited suspicious staining, and sampled the remaining (unstained) equipment locations in non-FOST areas in summer 2006. A summary report of FOST and non-FOST PCB sample results was published in February 2008. PCB abatement was performed at some sampled equipment locations in spring 2008 and a final summary report of activities was submitted March 9, 2009. A removal action was completed at Site 32 under the TSCA PCB remediation program in early 2010.

PCBs have been investigated under CERCLA at the following IR sites: Site 3 (PCB Equipment Storage Area), Site 7 (Pesticide Storage Area), Site 9 (Foundry), Site 10 (Bus Painting Shop), Site 11 (YBI Landfill), Site 12 (Old Bunker Area), Site 21 (Vessel Waste Oil Recovery Area), Site 24 (Dry Cleaning Facility), Site 31 (Former South Storage Yard), and Site 32 (Former Training and Storage Area).

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), various FOST parcels (upcoming FOST)
Regulatory Classification	TSCA and CERCLA
Source of Concern	Transformers and fluid-filled electrical equipment and past disposal activities
Contaminants of Concern	PCBs
Interim Actions	None
Current Status	None
USTs/ASTs	Not applicable
Estimated Site Completion	October 2012

RESIDENTIAL LEAD-BASED PAINT PROGRAM

The Residential Lead-Based Paint Hazard Reduction Act of 1992, Title X of the Housing and Community Development Act (Public Law No. 102-550), applies at NAVSTA TI. As part of Title X, Congress amended the 1971 Lead-Based Paint Poisoning Prevention Act (42 *United States Code* [USC] Sections 4801-4846) and added a new Title IV to TSCA. Under this law, certain federally owned housing constructed before 1960 must be inspected for LBP, and LBP hazards must be abated. In addition, federally owned housing constructed after 1960 and before 1978 must be inspected for LBP hazards and the results disclosed to prospective property recipients (42 USC Section 4822).

LBP may be present on the interior and exterior surfaces of nonresidential buildings at NAVSTA TI because many were constructed before 1978. Public Works Center Norfolk began inspecting the family housing at NAVSTA TI for LBP in 1995. In October 1999, Engineering Field Activity West documented a completed LBP assessment and a “mini” risk assessment of facilities on NAVSTA TI. Facilities were selected under the implementing regulations for Title X of the Housing and Community Development Act. Pursuant to Title X, not all facilities require an inspection for LBP.

To date, LBP at all pre-1978 residential housing on TI and YBI has been assessed. LBP at all pre-1960 YBI residential housing has been abated, and hazard reduction measures were put in place to protect the residents. Friction surfaces, such as window sashes, were stripped to the original wood surface and repainted. All other interior and exterior surfaces containing LBP were covered with a 20-year encapsulating paint. To ensure all hazard reduction measures remain protective, a re-evaluation survey is conducted every 2 years per the recommended U.S. Department of Housing and Urban Development (HUD) schedule. LBP in residential housing on YBI was re-evaluated between April and May 2004 and again between May and July 2006. As required by the HUD guidelines, the survey included (1) a 100 percent visual survey, (2) two composite dust samples for 100 percent of all pre-1960 housing, and (3) two composite dust samples from a representative sample of the post-1960 housing. Another LBP re-evaluation of the residential housing on YBI and TI began in 2009. Residential housing on both TI and YBI must be re-evaluated again in 2011 or within 1 year of transfer, whichever occurs first. LBP maintenance was conducted during the winter of 2006 at Quarters 2 through 7, 240, 83, and 61.

Soil samples were also collected to evaluate the status of drip line and mid-yard areas at representative TI and YBI residential buildings. Based on the analytical results, soil abatement of the planter boxes and drip line areas was conducted in accordance with Title X, HUD, and Navy Policy at Quarters 1 through 7, 10, and Buildings 62, 83, 205, and 230 on YBI. HUD guidelines state only bare soils may pose a hazard, and soils covered by grass, concrete, or asphalt are protective. Any future disturbance of the grass, concrete, or asphalt at these buildings will require further soil evaluation for lead. The Navy will either abate or require the transferee to abate any LBP hazards found in existing residential facilities within 1 year of being transferred. If an existing residential facility is scheduled for demolition or nonresidential use, it will not be inspected or abated for LBP. Building demolition should be conducted according to applicable laws and regulations.

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), various FOST parcels in an upcoming FOST
Regulatory Classification	Title X Housing and Community Development Act, Title IV TSCA
Source of Concern	House paint/LBP
Contaminants of Concern	Lead
Interim Actions	<ul style="list-style-type: none"> • LBP risk assessment on TI and YBI residential housing buildings completed. • Interior, exterior, and soil abatement on pre-1960 YBI residential housing buildings completed. • LBP maintenance conducted during winter of 2006 at Quarters 2-7, 240, 83, and 61.
Current Status	<ul style="list-style-type: none"> • Re-evaluation completed in 2009, report finalized on March 9, 2011. • Re-evaluation will also occur within 1 year of transfer.
USTs/ASTs	Not applicable
Estimated Site Completion	Within 1 year of transfer

RADIOLOGICAL PROGRAM

Site 2 (Parcel T102), the Radiation Training Area, was located near the intersection of 12th Street and Avenue A on the northeastern side of TI. This area contained a ship mockup used for radiation training. Operations in this area began in the early 1950s and ceased in 1969 when the school moved to its current location in Building 371 (Parcel T111). Radiation sources were identified as potential contaminants from the radioactive water generated during training. The 1988 PA/SI recommended this site not be carried forward in an RI. The site is considered closed under the CERCLA program.

The Navy conducted a basewide Historical Radiological Assessment (HRA) to document use of radioactive materials and to present a comprehensive history of radiological operations conducted by the Navy at NAVSTA TI. In the first phase of the HRA, the Navy reviewed documents and conducted interviews to identify all historical radiological sites on NAVSTA TI and to determine if there is a need to conduct a Phase II survey. Results of the first phase of the HRA are reported in the *Final Naval Station Treasure Island Historical Radiological Assessment* dated February 10, 2006. Five sites were identified for further evaluation: Building 233, Building 233 drain lines, Site 12 SWDAs, and Buildings 343 and 344. Three additional sites will be evaluated as necessary to further characterize them relative to historical radiological disposal activities. Sites 30, 31, and 33 will be evaluated due to the presence of buried debris at the sites. Furthermore, a HRA Supplemental Technical Memorandum is currently being prepared for TI to update the conceptual site model relative to identification of new disposal areas and potential radiological operations.

Building 233 (Parcel T66), the Radiation Detection, Indication, and Computation Instrument Calibration School, is located on Avenue M between 3rd and 4th Streets on the eastern side of TI. In 1950, a spill of radium sulfate was reported in one of the laboratories located in Building 233. Students unknowingly tracked the radiological material throughout the building before the spill was discovered. The U.S. Naval Radiological Defense Laboratory decontaminated and cleaned up the building. Although the floor was decontaminated, the Navy must verify that the 1950 cleanup meets current standards. The Navy worked with DTSC and Department of Public Health to complete a survey of Building 233 by May 2006. A radiological assessment of Building 233 was conducted and a final survey report was issued in January 2007. The demolition of the building was completed in 2011 and the Navy is completing the characterization, remediation, and FSS for the building footprint and surrounding parking lot in accordance with MARSSIM (Revision 1 August 2000, with the June 2001 updates).

A NTCRA began in May 2007 at three Site 12 SWDAs along the shoreline. The Navy is currently excavating and screening soils for chemical and radiological contaminants. During the NTCRA, low level radiological items, containing radium-226, have been found within the SWDAs. All items located have been removed and disposed of properly. Soil that may have been impacted by these items was screened prior to shipment off-site by an appropriate disposal contractor. Confirmation samples are being collected in the SWDA areas once excavations are completed. The Navy estimates that the removal action work will be completed in 2012. Final status surveys of the SWDAs will be performed in accordance with MARSSIM (Revision 1 August 2000, with the June 2001 updates). A MARSSIM FSS will be conducted at Site 6 once the Site 12 NTCRA has been completed or after the site ceases to be used for radiological bin

storage. A detailed schedule of the radiological investigation is included in the CERCLA Sites 6, 12, and 31 schedules (see [Appendix B](#)).

A radiological status survey for Buildings 343 and 344 and Building 233 drain lines was conducted in September 2007. In 2008, FSS Reports were prepared for Buildings 343 and 344. The Buildings 343 and 344 and the Building 233 Drain Lines Scoping Survey Reports were finalized in the fall 2008. DTSC and California Department of Public Health provided free release for Buildings 343 and 344 in 2008.

Building 233 was demolished in January 2011 and a MARSSIM FSS is being conducted.

Transfer Category	--
Regulatory Classification	MARSSIM
Source of Concern	Radium sulfate spill and historical radiological operations
Contaminants of Concern	Radium-226, radiological materials
Interim Actions	<ul style="list-style-type: none"> • 1950 cleanup at Building 233 • Building 233 was demolished in January 2011
Current Status	<ul style="list-style-type: none"> • NTCRA of Site 12 SWDAs is underway • FSS for the Site 12 SWDAs is being planned. • Building 233 FSS is being conducted. • Supplemental HRA Technical Memorandum is being prepared.
USTs/ASTs	Not applicable
Estimated Site Completion	May 2014 for Site 12; November 2012 for Building 233

ASBESTOS-CONTAINING MATERIAL PROGRAM

Beginning in 1995, several surveys to identify the presence of ACM have been completed at NAVSTA TI. The Navy conducted an asbestos survey of 108 major nonresidential buildings at NAVSTA TI and compiled the results in an asbestos survey report in 1995. In 1997, Radian, Inc. completed a more comprehensive asbestos survey for a total of 212 nonresidential buildings, including an inspection of the 108 buildings previously surveyed, to estimate scope and costs for abating damaged, friable asbestos. In 1998, the Supervisor of Shipbuilding, Conversion, and Repair, Portsmouth, Virginia, Environmental Detachment, Vallejo (SSPORTS) performed an asbestos survey of underground steam utility lines and miscellaneous facilities. Results of the survey of underground steam utility lines indicated that ACM-wrapped pipes exist only within a portion of the property, as discussed further in the FOST. Remedies for ACM were implemented.

Friable, accessible ACM identified during surveys was remediated beginning with 38 buildings in 1998 by Allied Technology Group, Inc. (ATG). ATG remediated an additional 20 buildings in 1998. In 1999, SSSPORTS remediated friable ACM found in residences at both YBI and TI. In 2002, Mendalian Construction, Inc. covered the crawlspaces to prevent access, posted ACM signs at seven barracks on TI, and abated and removed ACM from six quarters on YBI. All known damaged, friable, or accessible ACM has been abated within the TI and YBI FOST areas, and remaining ACM does not pose a threat to human health.

Notices and restrictions related to asbestos were identified in the FOST for both TI and YBI dated February 15, 2006, and March 23, 2006, respectively. A re-evaluation of ACM began in 2009 and the report was finalized March 9, 2011. An additional re-evaluation of ACM is planned in 2011 or within one year of transfer, whichever occurs first.

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), various FOST parcels in an upcoming FOST
Regulatory Classification	Clean Air Act
Source of Concern	ACM
Contaminants of Concern	Friable, accessible ACM
Interim Actions	<ul style="list-style-type: none">• 1998 remediation of 38 buildings• 1998 remediation of 20 buildings• 1999 remediation of residences• 2002 remediation of crawl spaces, barracks and six quarters on YBI
Current Status	<ul style="list-style-type: none">• 2008 ACM re-evaluation report finalized March 9, 2011.• ACM to be reassessed within 1 year of transfer
USTs/ASTs	Not applicable
Estimated Site Completion	Transfer

GROUNDWATER MONITORING PROGRAM

The purpose of the groundwater monitoring program is to evaluate sites with known or suspected impacts to groundwater using data collected from a network of monitoring wells as well as data from other environmental investigations. The principal objective at the identified groundwater sites was to determine whether receptors at the terminus of the groundwater pathway—aquatic life at the shoreline along NAVSTA TI—are being exposed to concentrations of contaminants that exceed applicable toxicity criteria for (1) protection of saltwater life, or (2) protection of humans who consume fish. Potential impacts to groundwater because of releases of hazardous substances and petroleum related chemicals from operations when NAVSTA TI was an active base are being studied under the facility-wide groundwater monitoring program.

It was reported in 2004, in support of environmental restoration activities, that 346 groundwater monitoring and remediation wells were being maintained at NAVSTA TI (181 monitoring wells and 165 remediation wells). In a limited number of cases, wells from inactive sites were used as downgradient, crossgradient, or upgradient wells to collect data for an active investigation area. In 2011, 35 wells from various sites, predominately closed petroleum program sites, were decommissioned.

Currently, only groundwater at Sites 6 and 12 is monitored as the petroleum program sites have received NFA concurrence, or active remediation is ongoing at CERCLA sites. Contaminants defined as hazardous under CERCLA have been detected at elevated concentrations in samples from Sites 6 and 12. Information collected from groundwater monitoring will be used in the RI and FS studies and included, as appropriate, in the RI, FS, and closure reports for Sites 6 and 12. Groundwater monitoring results are reported annually and will be used in assessing risk in decision documents such as an RI report or petroleum closure reports.

Groundwater monitoring at Sites 21 and 24 occurs through the treatability study projects being conducted at the sites, and will continue for one year after the completion of the treatability studies. One year of post-removal action groundwater monitoring is planned for Site 32 in 2011.

REGULATORY INTERACTION SUPPORT

The Navy provides support for regulatory interaction for the entire TI environmental program. Included in the regulatory interaction support are the following deliverables.

BCT Meetings and Minutes

As part of the regulatory interaction support, the Navy holds monthly meetings with the members of the BCT to discuss current topics, issues, and decisions that pertain to the environmental restoration program for TI. To document decisions, actions, processes, and discussions, the BCT prepares meeting minutes for public viewing. The minutes are reviewed by all members and revised based on any comments received. Final minutes are stored in the information repositories. The minutes are an important tracking tool for the BCT.

Site Management Plan

The Navy prepares and delivers annual updates of this site management plan to identify site closure schedules and strategies and to aid in the management of the 33 associated IR sites. The IR sites are at various stages in the environmental restoration process. The current status and strategies at each site are discussed in this document, as well as discussions of the current basewide issues that must be addressed before the installation may be transferred for development. The schedules provided in [Appendix B](#) update the initial schedules produced in the 1992 Federal Facility Site Remediation Agreement (FFSRA), and supplement the IR sites not identified at the time of the FFSRA.

COMMUNITY RELATIONS PROGRAM

The Navy provides direction and support for community relations activities on site-specific and basewide levels. Included in the community relations support are the following deliverables.

Restoration Advisory Board Meetings and Minutes

The Navy hosts Restoration Advisory Board (RAB) meetings regularly as a means to communicate, share, and present current information on the environmental restoration program to the RAB and community members. Fact sheets, meeting minutes, telephone conferences and meetings are used to provide a method for the RAB to have input on the environmental restoration process at NAVSTA TI. Meeting transcripts and minutes are prepared for public viewing. The minutes are reviewed by all members of the RAB and revised based on any comments received. The final minutes are included in the information repositories and on the Navy's website.

Community Relations Plan

The community relations plan (CRP) identifies community interest in the investigation and cleanup of contaminated soil, sediments, and groundwater at NAVSTA TI, and outlines community relations activities to inform and involve the community. The original CRP for NAVSTA TI was issued in 1997, and a final CRP was issued in 2002 and updated in 2006. An update, including interviews of community members, was finalized in the summer 2008.

The purpose of the CRP is to identify the NAVSTA TI community, describe community outreach activities conducted in support of the IR Program, identify community interest in and concern about environmental activities at NAVSTA TI, facilitate two-way communication with the surrounding community and other interested parties, and meet all public involvement regulatory requirements for the environmental cleanup program at NAVSTA TI.

Newsletters

Two newsletters, typically for Fall and Winter, are prepared for each year and distributed to the TI community mailing list, which consists of up to 1,200 addresses. Additional copies are made available to the Information Repositories and at the RAB meetings. The TI community mailing list is updated semi-annually.

Fact Sheets and Work Notices

Fact sheets and work notices are prepared on as needed basis dependent on commencement or completion of significant milestones such as an upcoming field investigation or an RI report. Fact sheets and work notices are distributed to the entire TI community mailing list and the DTSC mailing list.

The General Environmental Fact Sheet provides a brief summary and current status of all Navy environmental programs for NAVSTA TI. The General Environmental Fact Sheet is updated semi-annually.

Public Notices

Public Notices are prepared on an as-needed basis for announcement of significant milestones such as announcement of public review and comment periods for PPs, and completion of significant documentation such as a ROD/RAP and a FOST. Public notices are typically published as an in-column ad in the *San Francisco Chronicle* newspaper.

Information Repository Support

On a bi-monthly basis, the Navy conducts inspections and updates to the TI Information Repositories located at Building 1 on TI and at the San Francisco Main Public Library. Monthly updates include organizing, indexing the documents, and providing updates of the index and document availability.

TRANSFER RELATED

A basewide EBS was conducted in 1994. In 2005, the Navy updated the EBS with a supplemental EBS (SEBS) based on progress made under the Navy's environmental programs and in preparation for two FOST documents that summarize how the requirements and notifications for hazardous substances, petroleum products and derivatives, and other regulated material have been met for parcels on TI and YBI. The TI FOST (FOST 1) for four parcels and YBI FOST (FOST 2) for one parcel were finalized in 2006.

During 2011, the Navy prepared a third FOST (YBI FOST 3) for five parcels on YBI to support property transfer to the City. YBI FOST 3 is currently being finalized.

Through the BRAC process, the Navy intends to transfer parcels on YBI that were identified in YBI FOSTs 2 and 3, by deed, to the City of San Francisco in early 2012. Parcels identified in TI FOST 1 are planned to be transferred by deed to the City of San Francisco at a later date.

APPENDIX B
ENVIRONMENTAL SCHEDULE

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TABLE B-1: SITE INVENTORY

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Site	Program	Status
Site 1	CERCLA	Closed – Received agency concurrence on March 20, 2002.
Site 2	CERCLA	Closed – Site recommended for NFA in 1988 Final PA/SI.
Site 3	CERCLA	Closed – Received agency concurrence on March 20, 2002.
Site 4/19	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated December 17, 2003.
Site 5	Petroleum	Closed – Merged into Site 24 by letter dated January 17, 2001.
Site 6	CERCLA	Active – Transferred from Petroleum Program on September 18, 2003.
Site 7	CERCLA	Closed – Received agency concurrence on November 1, 2005.
Site 8	CERCLA	Active – On hold.
Site 9	CERCLA	Closed – No Action ROD signed October 2, 2007.
Site 10	CERCLA	Closed – No Action ROD signed October 2, 2007.
Site 11	CERCLA	Active – On hold.
Site 12	CERCLA	Active – No Action ROD signed April 7, 2005.
Site 13	CERCLA	Closed
Site 14/22	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated July 18, 2005.
Site 15	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated September 2004.
Site 16	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated June 17, 2004.
Site 17	Petroleum	Closed – Merged into Site 24 by letter dated January 17, 2001.
Site 18	CERCLA	Closed – Site recommended for NFA in 1988 Final PA/SI.
Site 20	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated June 17, 2004.
Site 21	CERCLA	Active
Site 23	CERCLA	Closed – Site recommended for NFA in 1988 Final PA/SI.
Site 24	CERCLA	Active
Site 25	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated October 28, 2011.
Site 26	Petroleum	Closed – See UST Sites.
Site 27	CERCLA	Active
Site 28	CERCLA	Closed – No Action ROD signed November 22, 2010.
Site 29	CERCLA	Active
Site 30	CERCLA	Active
Site 31	CERCLA	Active
Site 32	CERCLA	Active
Site 33	CERCLA	Active
Site USCG	Petroleum	Active
Pipeline Sites	Petroleum	With the exception of Pipeline Sites USCG and YF3, all pipeline sites have received concurrence letters and are closed.
UST Sites	Petroleum	With the exception of UST 238 on YBI, and the USTs associated with Site 6, all USTs have received concurrence letters and are closed.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
December 2011**

ID		Task Name	Duration	Start	Finish	Predecessors
1		CERCLA PROGRAM	6624 days	Wed 3/20/02	Sun 1/31/21	
2		EBS DATA GAP INVESTIGATION COMPLETED	502 days	Wed 4/2/03	Tue 2/22/05	
22		SITE 1 - Closed	1 day	Wed 3/20/02	Wed 3/20/02	
23		SITE 3 - Closed	1 day	Wed 3/20/02	Wed 3/20/02	
24		SITE 7 - Closed	944 days	Fri 8/16/02	Tue 11/1/05	
28		SITE 13 - Closed	724 days	Tue 11/5/02	Sat 5/21/05	
61		SITES 9 AND 10 - Closed	1471 days	Sun 4/6/03	Thu 11/1/07	

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
December 2011**

ID	Task Name	Duration	Start	Finish	Predecessors
116	SITE 6 (CERCLA)	4365 days	Mon 5/12/03	Wed 11/4/15	
117	NATURE AND EXTENT DELINEATION FOR SITE 6 CERCLA	562 days	Mon 5/12/03	Tue 6/7/05	
123	REMEDIAL INVESTIGATION FOR SITE 6	923 days	Sun 10/31/04	Wed 6/20/07	
134	REVISED REMEDIAL INVESTIGATION REPORT FOR SITE 6	2115 days	Mon 2/2/09	Mon 11/17/14	
135	Navy to award contract for Site 6 Data Gap Investigation and RI Report	58 edays	Mon 2/2/09	Wed 4/1/09	
136	Scoping Meeting Site 6 Data Gap Investigation	0 edays	Wed 6/3/09	Wed 6/3/09	
137	Data Gap Investigation Work Plan	459 days	Mon 5/18/09	Fri 8/20/10	
147	Conduct Data Gap Field Investigation	25 edays	Mon 8/23/10	Fri 9/17/10	
148	Data Gap Investigation Lab Analysis and Validation	30 edays	Fri 9/17/10	Sun 10/17/10	147
149	RI/FS Report for Site 6	450 days	Wed 1/19/11	Fri 4/13/12	
150	Prepare Site 6 Internal Draft RI/FS Report	247 edays	Wed 1/19/11	Fri 9/23/11	148
151	Navy Review of Site 6 Internal Draft RI/FS Report	59 edays	Fri 9/23/11	Mon 11/21/11	150
152	Site 6 Draft RI/FS Report	32 edays	Mon 11/21/11	Fri 12/23/11	151
153	Agency Review of Site 6 Draft RI/FS Report	30 edays	Fri 12/23/11	Sun 1/22/12	152
154	Preliminary RTCs on Site 6 Draft RI/FS Report	28 edays	Sun 1/22/12	Sun 2/19/12	153
155	Meeting to Discuss Preliminary RTCs on Site 6 Draft RI/FS Report	0 edays	Sun 2/19/12	Sun 2/19/12	154
156	Site 6 Internal Final RI/FS Report	30 edays	Sun 2/19/12	Tue 3/20/12	155
157	Navy Review of Site 6 Internal Final RI/FS Report	10 edays	Tue 3/20/12	Fri 3/30/12	156
158	Site 6 Final RI/FS Report	14 edays	Fri 3/30/12	Fri 4/13/12	157
159	Site 6 Radiological Control Area (RCA) Final Status Survey Work Plan	276 days	Mon 12/31/12	Thu 10/3/13	
160	Navy Award Contract for Final Status Survey Work Plan for Site 6 RCA	60 edays	Mon 12/31/12	Fri 3/1/13	
161	Prepare Internal Draft Site 6 RCA Final Status Survey Work Plan	30 edays	Fri 3/1/13	Sun 3/31/13	160
162	Navy Review of Internal Draft Site 6 RCA Final Status Survey Work Plan	14 edays	Sun 3/31/13	Sun 4/14/13	161
163	Revise Internal Draft Site 6 RCA Final Status Survey Work Plan	14 edays	Sun 4/14/13	Sun 4/28/13	162
164	Navy RASO Review Internal Draft Site 6 RCA Final Status Survey Work Plan	60 edays	Sun 4/28/13	Thu 6/27/13	163
165	Draft Site 6 RCA Final Status Survey Work Plan	7 edays	Thu 6/27/13	Thu 7/4/13	164
166	Agency Review of Site 6 RCA Final Status Survey Work Plan	30 edays	Thu 7/4/13	Sat 8/3/13	165
167	Internal Final Site 6 RCA Final Status Survey Work Plan	33 edays	Sat 8/3/13	Thu 9/5/13	166
168	Navy Review of Internal Final Site 6 RCA Final Status Survey Work Plan	14 edays	Thu 9/5/13	Thu 9/19/13	167
169	Final Site 6 RCA Final Status Survey Work Plan	14 edays	Thu 9/19/13	Thu 10/3/13	168
170	Final Status Survey Field Work at Site 6 RCA	30 edays	Thu 10/3/13	Sat 11/2/13	169
171	Site 6 Radiological Control Area (RCA) Final Status Survey Report	380 days	Sat 11/2/13	Mon 11/17/14	
172	Prepare Internal Draft Site 6 RCA Final Status Survey Report	60 edays	Sat 11/2/13	Wed 1/1/14	170

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
December 2011**

ID	Task Name	Duration	Start	Finish	Predecessors
173	Navy BRAC Review Internal Draft Site 6 RCA Final Status Survey Report	14 edays	Wed 1/1/14	Wed 1/15/14	172
174	Revise Internal Draft Site 6 RCA Final Status Survey Report	14 edays	Wed 1/15/14	Wed 1/29/14	173
175	Navy RASO Review Internal Draft Site 6 RCA Final Status Survey Report	60 edays	Wed 1/29/14	Sun 3/30/14	174
176	Prepare Draft Site 6 RCA Final Status Survey Report	14 edays	Sun 3/30/14	Sun 4/13/14	175
177	Agency Review Draft Site 6 RCA Final Status Survey Report	60 edays	Sun 4/13/14	Thu 6/12/14	176
178	Prepare Preliminary Responses to Agency Comments on Site 6 RCA Final Status Survey Report	60 edays	Thu 6/12/14	Mon 8/11/14	177
179	Prepare Internal Final Site 6 RCA Final Status Survey Report	10 edays	Mon 8/11/14	Thu 8/21/14	178
180	Navy Review Internal Final Site 6 RCA Final Status Survey Report	14 edays	Thu 8/21/14	Thu 9/4/14	179
181	Prepare Final Site 6 RCA Final Status Survey Report	14 edays	Thu 9/4/14	Thu 9/18/14	180
182	Concur with Site 6 RCA Final Status Survey Report	60 edays	Thu 9/18/14	Mon 11/17/14	181
183	PP/DRAFT RAP FOR SITE 6	383 days	Tue 3/6/12	Sun 3/24/13	
184	Navy to Award Contract for Site 6 PP/Draft RAP and ROD	60 edays	Tue 3/6/12	Sat 5/5/12	
185	Prepare Internal Draft PP/Draft RAP for Site 6	90 edays	Sat 5/5/12	Fri 8/3/12	184
186	BCT Scoping Meeting for Site 6 PP/ROD/RAP	0 edays	Tue 6/5/12	Tue 6/5/12	185SS+31 edays
187	Navy Technical Review of Internal Draft PP/Draft RAP for Site 6	31 edays	Fri 8/3/12	Mon 9/3/12	185
188	Incorporate Navy Technical Comments on Internal Draft PP/Draft RAP for Site 6	14 edays	Mon 9/3/12	Mon 9/17/12	187
189	Navy Legal Review of Internal Draft PP/Draft RAP for Site 6	29 edays	Mon 9/17/12	Tue 10/16/12	188
190	Prepare Draft PP/Draft RAP for Site 6	14 edays	Tue 10/16/12	Tue 10/30/12	189
191	Agency Review of Draft PP/Draft RAP for Site 6	30 edays	Tue 10/30/12	Thu 11/29/12	190
192	Prepare Preliminary RTCs on Draft PP/Draft RAP for Site 6	28 edays	Thu 11/29/12	Thu 12/27/12	191
193	Meeting to Discuss Preliminary RTCs on Draft PP/Draft RAP for Site 6	0 edays	Thu 12/27/12	Thu 12/27/12	192
194	Prepare Internal Final PP/Draft RAP for Site 6	31 edays	Thu 12/27/12	Sun 1/27/13	193
195	Navy Review of Internal Final PP/Draft RAP for Site 6	10 edays	Sun 1/27/13	Wed 2/6/13	194
196	Prepare Final PP/Draft RAP for Site 6	14 edays	Wed 2/6/13	Wed 2/20/13	195
197	Public Notice of Final PP/Draft RAP for Site 6	0 edays	Wed 2/20/13	Wed 2/20/13	196
198	Public Comment Period of Final PP/Draft RAP for Site 6	32 edays	Wed 2/20/13	Sun 3/24/13	197
199	Finalize Administrative Record for Final PP/Draft RAP for Site 6	0 edays	Sun 3/24/13	Sun 3/24/13	198
200	Public Meeting for Final PP/Draft RAP for Site 6	0 edays	Thu 3/7/13	Thu 3/7/13	198SS+15 edays
201	ROD/RAP FOR SITE 6	325 days	Sun 1/27/13	Wed 12/18/13	
202	Prepare Internal Draft ROD/RAP for Site 6	91 edays	Sun 1/27/13	Sun 4/28/13	195SS
203	BCT Scoping Meeting for ROD/RAP for Site 6	0 edays	Tue 2/26/13	Tue 2/26/13	202SS+30 edays
204	Navy Technical Review of Internal Draft ROD/RAP for Site 6	30 edays	Sun 4/28/13	Tue 5/28/13	202
205	Incorporate Navy Technical Comments on Internal Draft ROD/RAP for Site 6	14 edays	Tue 5/28/13	Tue 6/11/13	204
206	Navy Legal Review of Internal Draft ROD/RAP for Site 6	30 edays	Tue 6/11/13	Thu 7/11/13	205

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
207	Prepare Draft ROD/RAP for Site 6	14 edays	Thu 7/11/13	Thu 7/25/13	206
208	Agency Review of Draft ROD/RAP for Site 6	31 edays	Thu 7/25/13	Sun 8/25/13	207
209	Prepare Preliminary RTCs on Draft ROD/RAP for Site 6	28 edays	Sun 8/25/13	Sun 9/22/13	208
210	Meeting to Discuss Preliminary RTCs on Draft ROD/RAP for Site 6	0 edays	Sun 9/22/13	Sun 9/22/13	209
211	Prepare Internal Final ROD/RAP for Site 6	30 edays	Sun 9/22/13	Tue 10/22/13	210
212	Navy Review of Internal Final ROD/RAP for Site 6	12 edays	Tue 10/22/13	Sun 11/3/13	211
213	Prepare Final ROD/RAP for Site 6	14 edays	Sun 11/3/13	Sun 11/17/13	212
214	ROD/RAP Signed for Site 6	31 edays	Sun 11/17/13	Wed 12/18/13	213
215	Public Notice of Signing ROD/RAP for Site 6	0 edays	Wed 12/18/13	Wed 12/18/13	214
216	REMEDIAL DESIGN FOR SITE 6 (IF NECESSARY)	305 days	Wed 7/24/13	Sun 5/25/14	
217	Navy to award contract for Site 6 Remedial Design	60 edays	Wed 7/24/13	Sun 9/22/13	211SS-60 edays
218	Internal Draft RD for Site 6	91 edays	Sun 9/22/13	Sun 12/22/13	217
219	BCT Scoping Meeting for Site 6 RD	0 edays	Tue 10/22/13	Tue 10/22/13	218SS+30 edays
220	Navy Review of Internal Draft RD for Site 6	30 edays	Sun 12/22/13	Tue 1/21/14	218
221	Draft RD for Site 6	13 edays	Tue 1/21/14	Mon 2/3/14	220
222	Agency Review of Draft RD for Site 6	30 edays	Mon 2/3/14	Wed 3/5/14	221
223	Preliminary RTCs on Draft RD - Site 6	28 edays	Wed 3/5/14	Wed 4/2/14	222
224	Meeting to Discuss Preliminary RTCs on Draft RD - Site 6	0 edays	Wed 4/2/14	Wed 4/2/14	223
225	Internal Final for Site 6 RD	29 edays	Wed 4/2/14	Thu 5/1/14	224
226	Navy Review of Internal Final for Site 6 RD	10 edays	Thu 5/1/14	Sun 5/11/14	225
227	Final RD for Site 6	14 edays	Sun 5/11/14	Sun 5/25/14	226
228	REMEDIAL ACTION FOR SITE 6 (IF NECESSARY)	382 days	Thu 9/18/14	Mon 10/5/15	
229	Navy to award contract for Site 6 Remedial Action	60 edays	Thu 9/18/14	Mon 11/17/14	182FS-60 edays
230	Remediation Field Work Site 6	150 edays	Mon 11/17/14	Thu 4/16/15	229,182
231	REMEDIAL ACTION REPORTS	172 days	Thu 4/16/15	Mon 10/5/15	
232	Internal Draft RA Reports for Site 6	32 edays	Thu 4/16/15	Mon 5/18/15	230
233	BCT Scoping Meeting for Site 6 RA Reports	0 edays	Thu 4/30/15	Thu 4/30/15	232SS+14 edays
234	Navy Review of Internal Draft RA Reports for Site 6	15 edays	Mon 5/18/15	Tue 6/2/15	232
235	Draft RA Reports for Site 6	7 edays	Tue 6/2/15	Tue 6/9/15	234
236	Agency Review of Site 6 Draft RA Reports	30 edays	Tue 6/9/15	Thu 7/9/15	235
237	Preliminary RTCs on Draft RA - Site 6	28 edays	Thu 7/9/15	Thu 8/6/15	236
238	Meeting to Discuss Preliminary RTCs on Draft RA for Site 6	0 edays	Thu 8/6/15	Thu 8/6/15	237
239	Internal Final RA Reports for Site 6	32 edays	Thu 8/6/15	Mon 9/7/15	238
240	Navy Review of Internal Final RA Reports for Site 6	14 edays	Mon 9/7/15	Mon 9/21/15	239

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID		Task Name	Duration	Start	Finish	Predecessors
241		Final RA Reports for Site 6	14 edays	Mon 9/21/15	Mon 10/5/15	240
242		SITE COMPLETION FOR SITE 6	30 edays	Mon 10/5/15	Wed 11/4/15	241

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID		Task Name	Duration	Start	Finish	Predecessors
243		SITE 8	5481 days	Thu 12/2/04	Sun 1/5/20	
244		INTERIM REMEDIAL INVESTIGATION FOR SITES 8 & 29	1544 days	Thu 12/2/04	Fri 3/27/09	
268		CALTRANS BRIDGE CONSTRUCTION PROJECT	2523 days	Mon 11/3/08	Wed 9/30/15	
269		REMAINING CERCLA ITEMS (IF NECESSARY)	1528 days	Wed 9/30/15	Fri 12/6/19	
270		SITES 8 & 29 RI ADDENDUM (IF NECESSARY)	186 days	Wed 9/30/15	Sun 4/3/16	
281		FEASIBILITY STUDY FOR SITES 8 & 29 (IF NECESSARY)	350 days	Tue 2/9/16	Tue 1/24/17	
295		PP/DRAFT RAP FOR SITES 8 & 29	320 days	Sat 12/31/16	Thu 11/16/17	
312		ROD/RAP SITES 8 & 29	320 days	Sat 9/23/17	Thu 8/9/18	
327		REMEDIAL DESIGN FOR SITES 8 & 29 (IF NECESSARY)	276 days	Thu 5/17/18	Sun 2/17/19	
339		REMEDIAL ACTION FOR SITES 8 & 29 (IF NECESSARY)	292 days	Sun 2/17/19	Fri 12/6/19	
350		SITE COMPLETION FOR SITES 8 & 29	30 edays	Fri 12/6/19	Sun 1/5/20	349

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or Sunday default to the following business day.

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ID		Task Name	Duration	Start	Finish	Predecessors
351		SITE 11	5118 days	Thu 7/13/06	Thu 7/16/20	
352		INTERIM REMEDIAL INVESTIGATION FOR SITE 11	1294 days	Thu 7/13/06	Wed 1/27/10	
369		CALTRANS BRIDGE CONSTRUCTION PROJECT	2523 days	Mon 11/3/08	Wed 9/30/15	
370		REMAINING CERCLA ITEMS (IF NECESSARY)	1751 days	Wed 9/30/15	Thu 7/16/20	
371		SITE 11 RI ADDENDUM (IF NECESSARY)	186 days	Wed 9/30/15	Sun 4/3/16	
382		FEASIBILITY STUDY FOR SITE 11 (IF NECESSARY)	291 days	Tue 2/9/16	Sat 11/26/16	
395		PP/DRAFT RAP FOR SITE 11	323 days	Thu 11/3/16	Fri 9/22/17	
412		ROD/RAP FOR SITE 11	322 days	Fri 7/28/17	Fri 6/15/18	
427		REMEDIAL DESIGN FOR SITE 11 (IF NECESSARY)	310 days	Fri 6/15/18	Sun 4/21/19	426
439		REMEDIAL ACTION FOR SITE 11 (IF NECESSARY)	421 days	Sun 4/21/19	Mon 6/15/20	
452		SITE COMPLETION FOR SITE 11	31 edays	Mon 6/15/20	Thu 7/16/20	451

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
453	SITE 12	6282 days	Wed 5/7/03	Sun 1/31/21	
454	✓ ADDITIONAL INVESTIGATION FOR COMMON AREAS	95 days	Wed 5/7/03	Fri 9/19/03	
462	✓ HALYBURTON COURT SOIL GAS/INDOOR AIR SAP ADDENDUM	692 days	Fri 1/7/05	Wed 12/20/06	
473	✓ HALYBURTON COURT INDOOR AIR EVALUATION TECHNICAL MEMORANDUM SITE 12	1186 days	Mon 12/1/03	Fri 7/13/07	
479	✓ ARSENIC IN GROUNDWATER TECHNICAL MEMORANDUM SITE 12	268 days	Thu 1/1/04	Tue 1/11/05	
488	✓ ARSENIC IN GROUNDWATER PILOT STUDY	1905 days	Mon 12/11/06	Tue 2/28/12	
498	REMEDIAL INVESTIGATION FOR SITE 12	2758 days	Sun 6/20/04	Sun 3/25/12	
499	✓ Navy to award contract for Site 12 RI Scoping, HHRA WP, Tech Memos	54 edays	Sun 6/20/04	Fri 8/13/04	
500	✓ Risk Assessment / RI Scoping Work Plan	539 days	Sat 8/14/04	Fri 4/7/06	
511	✓ Soil Gas Investigation	506 days	Mon 1/28/08	Wed 6/17/09	
528	✓ Site 12 HHRA Technical Memorandum	489 days	Wed 6/17/09	Mon 10/18/10	
534	Site 12 RI Report	1357 days	Mon 7/7/08	Sun 3/25/12	
535	✓ Navy to award contract for Site 12 RI Report	60 edays	Mon 7/7/08	Fri 9/5/08	
536	✓ Prepare Site 12 Internal Draft RI Report	121 edays	Mon 11/1/10	Wed 3/2/11	533
537	✓ Navy Technical Review of Site 12 Internal Draft RI Report	26 edays	Wed 3/2/11	Mon 3/28/11	536
538	✓ Prepare Site 12 Draft RI Report	74 edays	Mon 3/28/11	Fri 6/10/11	537
539	✓ Agency Review Site 12 Draft RI Report	77 edays	Fri 6/10/11	Fri 8/26/11	538
540	✓ Prepare Preliminary RTCs for Site 12 Draft RI Report	118 edays	Fri 8/26/11	Thu 12/22/11	539
541	Agency Review RTCs for Site 12 Draft RI Report	40 edays	Thu 12/22/11	Tue 1/31/12	540
542	BCT Meeting to Discuss RTCs for Site 12 Draft RI Report	0 edays	Tue 1/31/12	Tue 1/31/12	541
543	Prepare Site 12 Internal Final RI Report	30 edays	Tue 1/31/12	Thu 3/1/12	542
544	Navy Review Site 12 Internal Final RI Report	10 edays	Thu 3/1/12	Sun 3/11/12	543
545	Site 12 Final RI Report	14 edays	Sun 3/11/12	Sun 3/25/12	544
546	✓ NON-TIME CRITICAL INTERIM REMOVAL ACTION WORK PLANS FOR SITE 12 SWDAs	441 days	Thu 12/1/05	Thu 2/15/07	
576	NON-TIME CRITICAL REMOVAL ACTION FOR SITE 12 SWDAs	2133 days	Thu 3/30/06	Mon 1/30/12	
577	✓ Navy to award contract for Site 12 for Removal Action Work Plan and Removal Action	176 edays	Thu 3/30/06	Fri 9/22/06	
578	✓ Site 12 Remedial Action Work Plan (RAWP)	165 days	Fri 9/22/06	Tue 3/6/07	
586	Non-Time Critical Removal Action of Site 12 SWDAs	1799 edays	Mon 2/26/07	Mon 1/30/12	585FS-8 edays
587	✓ Non-Time Critical Removal Action Summary Open House	0 edays	Sat 10/24/09	Sat 10/24/09	
588	SWDA FINAL STATUS SURVEYS	1301 days	Mon 9/19/11	Sun 4/12/15	
589	SWDA A&B UNIT 1 - FINAL STATUS SURVEY (FSS)	677 days	Mon 9/19/11	Sat 7/27/13	
617	SWDA A&B UNIT 2 - FINAL STATUS SURVEY (FSS)	677 days	Sun 1/1/12	Fri 11/8/13	
645	SWDA A&B UNIT 3 - FINAL STATUS SURVEY (FSS)	677 days	Sat 4/14/12	Thu 2/20/14	

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ID	Task Name	Duration	Start	Finish	Predecessors
673	SWDA A&B UNIT 4 - FINAL STATUS SURVEY (FSS)	677 days	Fri 7/27/12	Wed 6/4/14	
701	SWDA A&B UNIT 5 - FINAL STATUS SURVEY (FSS)	677 days	Thu 11/8/12	Tue 9/16/14	
729	SWDA BAYSIDE - FINAL STATUS SURVEY (FSS)	677 days	Wed 2/20/13	Mon 12/29/14	
757	SWDA NORTH POINT - FINAL STATUS SURVEY (FSS)	677 days	Tue 6/4/13	Sun 4/12/15	
785	SITE 12 RADIOLOGICAL CHARACTERIZATION (NON-SWDA AREAS)	724 days	Mon 1/2/12	Thu 12/26/13	
786	Site 12 Radiological Characterization Work Plan (Non-SWDA Areas)	362 days	Mon 1/2/12	Sat 12/29/12	
787	Navy Contract Site 12 Radiological Characterization Work Plan (Non-SWDA Areas)	90 edays	Mon 1/2/12	Sun 4/1/12	
788	Prepare Internal Draft Site 12 (Non-SWDAs) Radiological Characterization Work Plan	60 edays	Sun 4/1/12	Thu 5/31/12	787
789	Navy BRAC Review Internal Draft Site 12 (Non-SWDAs) Radiological Characterization Work	14 edays	Thu 5/31/12	Thu 6/14/12	788
790	Revise Internal Draft Site 12 (Non-SWDAs) Radiological Characterization Work Plan	14 edays	Thu 6/14/12	Thu 6/28/12	789
791	Navy RASO Review Internal Draft Site 12 (Non-SWDAs) Radiological Characterization Work	60 edays	Thu 6/28/12	Mon 8/27/12	790
792	Prepare Draft Site 12 (Non-SWDAs) Radiological Characterization Work Plan	14 edays	Mon 8/27/12	Mon 9/10/12	791
793	Agency Review Draft Site 12 (Non-SWDAs) Radiological Characterization Work Plan	30 edays	Mon 9/10/12	Wed 10/10/12	792
794	Responses to Agency Comments on Draft Site 12 (Non-SWDA) Radiological Characterization Work Plan	28 edays	Wed 10/10/12	Wed 11/7/12	793
795	Prepare Internal Final Site 12 (Non-SWDAs) Radiological Characterization Work Plan	14 edays	Wed 11/7/12	Wed 11/21/12	794
796	Navy Review Internal Final Site 12 (Non-SWDAs) Radiological Characterization Work Plan	10 edays	Wed 11/21/12	Sat 12/1/12	795
797	Prepare Final Site 12 (Non-SWDAs) Radiological Characterization Work Plan	14 edays	Sat 12/1/12	Sat 12/15/12	796
798	Concurrence on Final Site 12 (Non-SWDAs) Radiological Characterization Work Plan	14 edays	Sat 12/15/12	Sat 12/29/12	797
799	Site 12 Radiological Characterization Field Work (Non-SWDA Areas)	60 edays	Sat 12/29/12	Wed 2/27/13	798
800	Site 12 Radiological Characterization Report (Non-SWDA Areas)	302 days	Wed 2/27/13	Thu 12/26/13	
801	Prepare Internal Draft Site 12 (Non-SWDAs) Characterization Report	60 edays	Wed 2/27/13	Sun 4/28/13	799
802	Navy BRAC Review Internal Draft Site 12 (Non-SWDAs) Characterization Report	14 edays	Sun 4/28/13	Sun 5/12/13	801
803	Revise Internal Draft Site 12 (Non-SWDAs) Characterization Report	14 edays	Sun 5/12/13	Sun 5/26/13	802
804	Navy RASO Review Internal Draft Site 12 (Non-SWDAs) Characterization Report	60 edays	Sun 5/26/13	Thu 7/25/13	803
805	Prepare Draft Site 12 (Non-SWDAs) Characterization Report	14 edays	Thu 7/25/13	Thu 8/8/13	804
806	Agency Review Draft Site 12 (Non-SWDAs) Characterization Report	60 edays	Thu 8/8/13	Mon 10/7/13	805
807	Prepare Preliminary Responses to Agency Comments on Draft Site 12 (Non-SWDAs) Characterization Report	28 edays	Mon 10/7/13	Mon 11/4/13	806
808	Prepare Internal Final Site 12 (Non-SWDAs) Characterization Report	14 edays	Mon 11/4/13	Mon 11/18/13	807
809	Navy Review Internal Final Site 12 (Non-SWDAs) Characterization Report	10 edays	Mon 11/18/13	Thu 11/28/13	808
810	Prepare Final Site 12 (Non-SWDAs) Characterization Report	14 edays	Thu 11/28/13	Thu 12/12/13	809
811	Concurrence on Final Site 12 (Non-SWDAs) Characterization Report	14 edays	Thu 12/12/13	Thu 12/26/13	810
812	NON-TIME CRITICAL INTERIM REMOVAL ACTION FOR SITE 12 BIGELOW COURT	1698 days	Mon 6/9/08	Fri 2/1/13	
813	EE/CA/DRAFT RAP FOR SITE 12 HALYBURTON COURT (CANCELLED)	631 days	Mon 6/9/08	Mon 3/1/10	

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
831	AM/INTERIM RAP FOR SITE 12 HALYBURTON COURT (CANCELLED)	328 days	Sat 1/16/10	Fri 12/10/10	
848	REMOVAL ACTION WORK PLAN (RAWP) FOR SITE 12 BIGELOW COURT	688 days	Thu 7/8/10	Sun 5/27/12	
849	✓ Navy to award contract for Site 12 for RAWP and Removal Action for Bigelow Court	60 edays	Thu 7/8/10	Mon 9/6/10	
850	✓ Internal Draft Site 12 RAWP Bigelow Court	77 edays	Mon 9/6/10	Mon 11/22/10	849
851	✓ Navy BRAC Review of Internal Draft Site 12 RAWP Bigelow Court	22 edays	Mon 11/22/10	Tue 12/14/10	850
852	✓ Incorporate Navy Technical Review of Internal Draft Site 12 RAWP Bigelow Court	41 edays	Tue 12/14/10	Mon 1/24/11	851
853	Navy RASO Review of Internal Draft Site 12 RAWP Bigelow Court	361 edays	Mon 1/24/11	Fri 1/20/12	852
854	Prepare Draft Site 12 RAWP Bigelow Court	39 edays	Fri 1/20/12	Tue 2/28/12	853
855	Agency and Public Review of Draft Site 12 RAWP Bigelow Court	28 edays	Tue 2/28/12	Tue 3/27/12	854
856	Prepare Internal Final Site 12 RAWP Bigelow Court	42 edays	Tue 3/27/12	Tue 5/8/12	855
857	Navy Review Internal Final Site 12 RAWP Bigelow Court	7 edays	Tue 5/8/12	Tue 5/15/12	856
858	Prepare and Submit Final Site 12 RAWP Bigelow Court	12 edays	Tue 5/15/12	Sun 5/27/12	857
859	NON-TIME CRITICAL REMOVAL ACTION OF SITE 12 BIGELOW COURT	90 edays	Sun 5/27/12	Sat 8/25/12	858
860	POST-CONSTRUCTION REMOVAL ACTION REPORT FOR SITE 12 BIGELOW COURT	160 days	Sat 8/25/12	Fri 2/1/13	
861	Prepare Internal Draft Bigelow Court Post-Construction Report	30 edays	Sat 8/25/12	Mon 9/24/12	859
862	Navy Review Internal Draft Bigelow Court Post-Construction Report	14 edays	Mon 9/24/12	Mon 10/8/12	861
863	Prepare Draft Bigelow Court Post-Construction Report	14 edays	Mon 10/8/12	Mon 10/22/12	862
864	Agency Review Draft Bigelow Court Post-Construction Report	30 edays	Mon 10/22/12	Wed 11/21/12	863
865	Prepare Preliminary Responses to Agency Comments on Bigelow Court Post-Construction Report	14 edays	Wed 11/21/12	Wed 12/5/12	864
866	Prepare Internal Final Bigelow Court Post-Construction Report	30 edays	Wed 12/5/12	Fri 1/4/13	865
867	Navy Review Internal Final Bigelow Court Post-Construction Report	14 edays	Fri 1/4/13	Fri 1/18/13	866
868	Prepare Final Bigelow Court Post-Construction Report	14 edays	Fri 1/18/13	Fri 2/1/13	867
869	BAYSIDE/NORTH POINT NON-TIME CRITICAL REMOVAL ACTION	215 days	Fri 8/19/11	Wed 3/21/12	
870	Post-Construction Summary Report (Removal Action)	215 days	Fri 8/19/11	Wed 3/21/12	
871	✓ Prepare Internal Draft Bayside/North Point SWDA Post-Construction Summary Report	60 edays	Fri 8/19/11	Tue 10/18/11	
872	Navy Review Internal Draft Bayside/North Point SWDA Post-Construction Summary Report	59 edays	Tue 10/18/11	Fri 12/16/11	871
873	Prepare Draft Bayside/North Point SWDA Post-Construction Summary Report	30 edays	Fri 12/16/11	Sun 1/15/12	872
874	Agency Review Draft Bayside/North Point SWDA Post-Construction Summary Report	25 edays	Sun 1/15/12	Thu 2/9/12	873
875	Prepare Preliminary Responses to Agency Comments on Draft Bayside/North Point SWDA Post-Construction	24 edays	Thu 2/9/12	Sun 3/4/12	874
876	Prepare Internal Final Bayside/North Point SWDA Post-Construction Summary Report	11 edays	Sun 3/4/12	Thu 3/15/12	875
877	Navy Review Internal Final Bayside/North Point SWDA Post-Construction Summary Report	4 edays	Thu 3/15/12	Mon 3/19/12	876
878	Prepare Final Bayside/North Point SWDA Post-Construction Summary Report	2 edays	Mon 3/19/12	Wed 3/21/12	877
879	SITE 12 BACKYARD FIELD INVESTIGATION (IF NECESSARY)	274 days	Fri 11/5/10	Sat 8/6/11	

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ID	Task Name	Duration	Start	Finish	Predecessors
892	FEASIBILITY STUDY FOR SITE 12	702 days	Mon 6/13/11	Wed 5/15/13	
893	Navy to award contract for Site 12 FS	60 edays	Mon 6/13/11	Fri 8/12/11	
894	Pre-FS Sampling (Work Plan, SAP, Field Work)	240 edays	Mon 1/9/12	Wed 9/5/12	893FS+150 days
895	Internal Draft FS for Site 12	90 edays	Mon 8/6/12	Sun 11/4/12	894FS-30 edays
896	BCT Scoping Meeting Site 12 FS	0 edays	Wed 9/5/12	Wed 9/5/12	895SS+30 edays
897	Navy Technical Review of Internal Draft Site 12 FS	21 edays	Sun 11/4/12	Sun 11/25/12	895
898	Incorporate Navy Technical Comments on Site 12 Internal Draft FS	14 edays	Sun 11/25/12	Sun 12/9/12	897
899	Navy Legal Review of Internal Draft Site 12 FS	30 edays	Sun 12/9/12	Tue 1/8/13	898
900	Draft FS for Site 12	14 edays	Tue 1/8/13	Tue 1/22/13	899
901	Agency Review of Draft FS for Site 12	30 edays	Tue 1/22/13	Thu 2/21/13	900
902	Preliminary RTCs on Draft FS for Site 12	28 edays	Thu 2/21/13	Thu 3/21/13	901
903	Meeting to Discuss Preliminary RTCs on Draft FS for Site 12	1 eday	Thu 3/21/13	Fri 3/22/13	902
904	Internal Final for Site 12 FS	30 edays	Fri 3/22/13	Sun 4/21/13	903
905	Navy Review of Internal Final for Site 12 FS	10 edays	Sun 4/21/13	Wed 5/1/13	904
906	Final FS for Site 12	14 edays	Wed 5/1/13	Wed 5/15/13	905
907	PP/DRAFT RAP FOR SITE 12	320 days	Mon 1/30/17	Sat 12/16/17	
908	Prepare Internal Draft PP/Draft RAP for Site 12	90 edays	Mon 1/30/17	Sun 4/30/17	780SS+734 edays
909	BCT Scoping Meeting for Site 12 PP/ROD/RAP	0 edays	Thu 2/9/17	Thu 2/9/17	908SS+10 edays
910	Navy Technical Review of Internal Draft PP/Draft RAP for Site 12	30 edays	Sun 4/30/17	Tue 5/30/17	908
911	Incorporate Navy Technical Review Comments on Internal Draft PP/Draft RAP for Site 12	14 edays	Tue 5/30/17	Tue 6/13/17	910
912	Navy Legal Review of Internal Draft PP/Draft RAP for Site 12	30 edays	Tue 6/13/17	Thu 7/13/17	911
913	Prepare Draft PP/RAP for Site 12	14 edays	Thu 7/13/17	Thu 7/27/17	912
914	Agency Review of Draft PP/Draft RAP for Site 12	30 edays	Thu 7/27/17	Sat 8/26/17	913
915	Prepare Preliminary RTCs for Draft PP/Draft RAP for Site 12	28 edays	Sat 8/26/17	Sat 9/23/17	914
916	Meeting to Discuss Preliminary RTCs on Draft PP/Draft RAP for Site 12	0 edays	Sat 9/23/17	Sat 9/23/17	915
917	Prepare Internal Final PP/RAP for Site 12	30 edays	Sat 9/23/17	Mon 10/23/17	916
918	Navy Review of Internal Final PP/RAP for Site 12	10 edays	Mon 10/23/17	Thu 11/2/17	917
919	Prepare Final PP/Draft RAP for Site 12	14 edays	Thu 11/2/17	Thu 11/16/17	918
920	Public Notice of Final PP/Draft RAP for Site 12	0 edays	Thu 11/16/17	Thu 11/16/17	919
921	Public Comment Period of Final PP/Draft RAP for Site 12	30 edays	Thu 11/16/17	Sat 12/16/17	920
922	Finalize Administrative Record for Final PP/Draft RAP for Site 12	0 edays	Sat 12/16/17	Sat 12/16/17	921
923	Public Meeting for Final PP/Draft RAP for Site 12	0 edays	Sat 12/16/17	Sat 12/16/17	922
924	ROD/RAP FOR SITE 12	320 days	Mon 10/23/17	Sat 9/8/18	
925	Prepare Internal Draft ROD/RAP for Site 12	90 edays	Mon 10/23/17	Sun 1/21/18	918SS

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
926	BCT Working Meeting for ROD/RAP for Site 12	0 edays	Wed 11/22/17	Wed 11/22/17	925SS+30 edays
927	Navy Technical Review of Internal Draft of ROD/RAP for Site 12	30 edays	Sun 1/21/18	Tue 2/20/18	925
928	Incorporate Navy Technical Review Comments on Internal Draft ROD/RAP for Site 12	14 edays	Tue 2/20/18	Tue 3/6/18	927
929	Navy Legal Review Internal Draft of ROD/RAP for Site 12	30 edays	Tue 3/6/18	Thu 4/5/18	928
930	Prepare Draft ROD/RAP for Site 12	14 edays	Thu 4/5/18	Thu 4/19/18	929
931	Agency Review of Draft ROD/RAP for Site 12	30 edays	Thu 4/19/18	Sat 5/19/18	930
932	Prepare Preliminary RTCs on Draft ROD/RAP for Site 12	28 edays	Sat 5/19/18	Sat 6/16/18	931
933	Meeting to Discuss RTCs on Draft ROD/RAP for Site 12	0 edays	Sat 6/16/18	Sat 6/16/18	932
934	Prepare Internal Final ROD/RAP for Site 12	30 edays	Sat 6/16/18	Mon 7/16/18	932
935	Navy Review of Internal Final ROD/RAP for Site 12	10 edays	Mon 7/16/18	Thu 7/26/18	934
936	Prepare Final ROD/RAP for Site 12	14 edays	Thu 7/26/18	Thu 8/9/18	935
937	ROD/RAP for Site 12 Signature	30 edays	Thu 8/9/18	Sat 9/8/18	936
938	Public Notice of Signing ROD/RAP for Site 12	0 edays	Sat 9/8/18	Sat 9/8/18	937
939	REMEDIAL DESIGN FOR SITE 12	288 days	Sat 6/16/18	Sun 3/31/19	
940	Navy to award contract for Site 12 Remedial Design	60 edays	Sat 6/16/18	Wed 8/15/18	934SS
941	Internal Draft RD for Site 12	90 edays	Wed 8/15/18	Tue 11/13/18	934,940
942	BCT Working Meeting for Site 12 RD	0 edays	Fri 9/14/18	Fri 9/14/18	941SS+30 edays
943	Navy Review of Internal Draft RD for Site 12	21 edays	Tue 11/13/18	Tue 12/4/18	941
944	Draft RD for Site 12	14 edays	Tue 12/4/18	Tue 12/18/18	943
945	Agency Review of Draft RD for Site 12	30 edays	Tue 12/18/18	Thu 1/17/19	944
946	Prepare Preliminary RTCs on Draft RD for Site 12	28 edays	Thu 1/17/19	Thu 2/14/19	945
947	BCT Meeting to discuss Preliminary RTCs on Draft RD for Site 12	0 edays	Thu 2/14/19	Thu 2/14/19	946
948	Internal Final for Site 12 RD	21 edays	Thu 2/14/19	Thu 3/7/19	947
949	Navy Review of Internal Final for Site 12 RD	10 edays	Thu 3/7/19	Sun 3/17/19	945,948
950	Final RD for Site 12	14 edays	Sun 3/17/19	Sun 3/31/19	949
951	REMEDIAL ACTION FOR SITE 12	702 days	Wed 1/30/19	Fri 1/1/21	
952	Navy to Award Contract for Remedial Action for Site 12	60 edays	Wed 1/30/19	Sun 3/31/19	950FS-60 edays
953	Remediation Field Work Site 12	500 edays	Sun 3/31/19	Wed 8/12/20	952
954	REMEDIAL ACTION REPORTS FOR SITE 12	142 days	Wed 8/12/20	Fri 1/1/21	
955	Internal Draft RA Reports for Site 12	30 edays	Wed 8/12/20	Fri 9/11/20	953
956	BCT Working Meeting for Site 12 RA Reports	0 edays	Thu 8/27/20	Thu 8/27/20	955SS+15 edays
957	Navy Review of Internal Draft RA Reports for Site 12	14 edays	Fri 9/11/20	Fri 9/25/20	955
958	Draft RA Reports for Site 12	7 edays	Fri 9/25/20	Fri 10/2/20	957
959	Agency Review of Site 12 Draft RA Reports	30 edays	Fri 10/2/20	Sun 11/1/20	958

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID		Task Name	Duration	Start	Finish	Predecessors
960		Internal Final RA Reports for Site 12	33 edays	Sun 11/1/20	Fri 12/4/20	959
961		Navy Review of Internal Final RA Reports for Site 12	14 edays	Fri 12/4/20	Fri 12/18/20	960
962		Final RA Reports for Site 12	14 edays	Fri 12/18/20	Fri 1/1/21	961
963		SITE COMPLETION FOR SITE 12	30 edays	Fri 1/1/21	Sun 1/31/21	962

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
964	SITE 21	5319 days	Tue 7/1/03	Sat 7/21/18	
965	REMEDIAL INVESTIGATION FOR SITE 21	1151 days	Tue 7/1/03	Tue 2/20/07	
981	TREATABILITY STUDY FOR SITE 21	2247 days	Wed 12/15/04	Mon 3/7/11	
1004	FEASIBILITY STUDY FOR SITE 21	938 days	Tue 9/5/06	Tue 3/31/09	
1019	SITE 21 SOIL GAS INVESTIGATION	508 days	Sun 6/13/10	Wed 11/2/11	
1028	SITE 21 SOIL GAS INVESTIGATION FIELD WORK / DATA ANALYSIS	56 edays	Wed 11/9/11	Wed 1/4/12	1027FS+7 edays
1029	SITE 21 SOIL GAS HHRA ADDENDUM	149 days	Tue 12/20/11	Thu 5/17/12	
1030	Prepare Internal Draft Soil Gas HHRA Addendum for Site 21	55 edays	Tue 12/20/11	Mon 2/13/12	1028FS-15 edays
1031	Navy Review of Internal Draft Site 21 Soil Gas HHRA Addendum	7 edays	Tue 2/14/12	Tue 2/21/12	1030FS+1 eday
1032	Draft Site 21 Soil Gas HHRA Addendum	18 edays	Tue 2/21/12	Sat 3/10/12	1031
1033	Agency Review Draft Site 21 Soil Gas HHRA Addendum	24 edays	Sun 3/11/12	Wed 4/4/12	1032FS+1 eday
1034	Prepare Preliminary Responses to Agency Comments on Draft Site 21 Soil Gas HHRA Addendum	23 edays	Thu 4/5/12	Sat 4/28/12	1033FS+1 eday
1035	Prepare Internal Final Site 21 Soil Gas HHRA Addendum	10 edays	Sun 4/29/12	Wed 5/9/12	1034FS+1 eday
1036	Navy Review Internal Final Site 21 Soil Gas HHRA Addendum	5 edays	Thu 5/10/12	Tue 5/15/12	1035FS+1 eday
1037	Final Site 21 Soil Gas HHRA Addendum	1 eday	Wed 5/16/12	Thu 5/17/12	1036FS+1 eday
1038	PP/DRAFT RAP FOR SITE 21	678 days	Mon 1/4/10	Sun 11/13/11	
1054	ROD/RAP FOR SITE 21	259 days	Mon 9/5/11	Mon 5/21/12	
1055	Prepare Internal Draft ROD/RAP for Site 21	84 edays	Mon 9/5/11	Mon 11/28/11	1048
1056	Navy Technical Review of Site 21 Internal Draft ROD/RAP	11 edays	Mon 11/28/11	Fri 12/9/11	1055
1057	Incorporate Navy Technical Comments on Site 21 Internal Draft ROD/RAP	7 edays	Fri 12/9/11	Fri 12/16/11	1056
1058	Navy Legal Review of Site 21 Internal Draft ROD/RAP	26 edays	Fri 12/16/11	Wed 1/11/12	1057
1059	Draft ROD/RAP for Site 21	13 edays	Wed 1/11/12	Tue 1/24/12	1058
1060	Agency Review of Draft ROD/RAP for Site 21	28 edays	Tue 1/24/12	Tue 2/21/12	1059
1061	Preliminary RTCs on Draft ROD/RAP for Site 21	19 edays	Tue 2/21/12	Sun 3/11/12	1060
1062	Resolve and Concur on RTCs for Draft ROD/RAP for Site 21	13 edays	Sun 3/11/12	Sat 3/24/12	1061
1063	Internal Final ROD/RAP for Site 21	14 edays	Sat 3/24/12	Sat 4/7/12	1062
1064	Navy Review of Internal Final ROD/RAP for Site 21	7 edays	Sat 4/7/12	Sat 4/14/12	1063
1065	Final ROD/RAP for Site 21	7 edays	Sat 4/14/12	Sat 4/21/12	1064,1033SS
1066	Site 21 ROD/RAP Signature	30 edays	Sat 4/21/12	Mon 5/21/12	1065
1067	Public Notice of Signing ROD/RAP	0 edays	Mon 5/21/12	Mon 5/21/12	1066
1068	SITE COMPLETION FOR SITE 21 (if remedial action is not necessary)	31 edays	Mon 5/21/12	Thu 6/21/12	1067
1069	REMEDIAL DESIGN FOR SITE 21 (IF NECESSARY)	307 days	Sat 3/24/12	Fri 1/25/13	
1070	Navy to award contract for Site 21 Remedial Design	60 edays	Sat 3/24/12	Wed 5/23/12	1063SS

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
1071	Internal Draft RD for Site 21	90 edays	Wed 5/23/12	Tue 8/21/12	1070
1072	Navy Review of Internal Draft RD for Site 21	30 edays	Tue 8/21/12	Thu 9/20/12	1071
1073	BCT Scoping Meeting for Site 21 RD	0 edays	Thu 9/20/12	Thu 9/20/12	1072
1074	Draft RD for Site 21	14 edays	Thu 9/20/12	Thu 10/4/12	1073
1075	Agency Review of Draft RD for Site 21	30 edays	Thu 10/4/12	Sat 11/3/12	1074
1076	Preliminary RTCs on Draft RD for Site 21	28 edays	Sat 11/3/12	Sat 12/1/12	1075
1077	Meeting to Discuss Preliminary RTCs on Draft RD for Site 21	1 eday	Sat 12/1/12	Sun 12/2/12	1076
1078	Internal Final for Site 21 RD	30 edays	Sun 12/2/12	Tue 1/1/13	1077
1079	Navy Review of Internal Final for Site 21 RD	10 edays	Tue 1/1/13	Fri 1/11/13	1078
1080	Final RD for Site 21	14 edays	Fri 1/11/13	Fri 1/25/13	1079
1081	REMEDIAL ACTION FOR SITE 21 (IF NECESSARY)	2027 days	Sun 12/2/12	Thu 6/21/18	
1082	Navy to Award Contract for Site 21 Remedial Action	60 edays	Sun 12/2/12	Thu 1/31/13	1078SS
1083	Remediation Field Work Site 21/Groundwater Monitoring	1825 edays	Thu 1/31/13	Tue 1/30/18	1082
1084	REMEDIAL ACTION REPORTS (IF NECESSARY)	142 days	Tue 1/30/18	Thu 6/21/18	
1085	Internal Draft RA Reports for Site 21	30 edays	Tue 1/30/18	Thu 3/1/18	1083
1086	Navy Review of Site 21 Internal Draft RA Reports	14 edays	Thu 3/1/18	Thu 3/15/18	1085
1087	BCT Scoping Meeting for Site 21 RA Reports	0 edays	Thu 3/15/18	Thu 3/15/18	1086
1088	Draft RA Reports for Site 21	7 edays	Thu 3/15/18	Thu 3/22/18	1087
1089	Agency Review of Site 21 Draft RA Reports	30 edays	Thu 3/22/18	Sat 4/21/18	1088
1090	Internal Final RA Reports for Site 21	33 edays	Sat 4/21/18	Thu 5/24/18	1089
1091	Navy Review of Internal Final RA Reports for Site 21	14 edays	Thu 5/24/18	Thu 6/7/18	1090
1092	Final RA Reports for Site 21	14 edays	Thu 6/7/18	Thu 6/21/18	1091
1093	SITE COMPLETION FOR SITE 21 (IF NECESSARY)	30 edays	Thu 6/21/18	Sat 7/21/18	1092

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or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
1094	SITE 24	6366 days	Tue 1/21/03	Sun 1/10/21	
1095	✓ PLUME DELINEATION INVESTIGATION	146 days	Mon 2/3/03	Wed 7/23/03	
1102	✓ REMEDIAL INVESTIGATION/FOCUSED FEASIBILITY STUDY FOR SITE 24	1301 days	Sun 10/31/04	Thu 7/3/08	
1129	✓ PILOT STUDY FOR SITE 24	673 days	Tue 1/21/03	Thu 6/9/05	
1145	EXPANDED TREATABILITY STUDY FOR SITE 24	3391 days	Fri 3/26/04	Fri 10/18/13	
1146	✓ Draft Plans for Expanded Treatability Study Site 24	234 edays	Fri 3/26/04	Mon 11/15/04	1139FS+1 day
1147	✓ Install Expanded Treatability Study System Site 24	121 edays	Mon 11/15/04	Wed 3/16/05	1146
1148	Operate, Monitor and Investigate Expanded Treatability Study System Site 24	2455 edays	Thu 3/17/05	Tue 12/6/11	1147FS+1 day
1149	✓ Prepare Final Report of Expanded Treatability Study System Site 24 (Phase II)	333 days	Fri 12/31/10	Wed 11/30/11	
1159	✓ Prepare Final Work Plan of Expanded Treatability Study System Site 24 (Phase III)	317 days	Sun 12/19/10	Tue 11/1/11	
1169	📅 Operate, Monitor and Investigate Expanded Treatability Study System Site 24 (Phase III)	510 edays	Tue 11/1/11	Mon 3/25/13	1168
1170	Prepare Final Reports of Expanded Treatability Study System Site 24 (Phase III)	207 days	Mon 3/25/13	Fri 10/18/13	
1171	Prepare Site 24 Internal Draft Expanded Treatability Study Report (Phase III)	109 edays	Mon 3/25/13	Fri 7/12/13	1169
1172	Navy Review of Site 24 Internal Draft Expanded Treatability Study Report (Phase III)	17 edays	Fri 7/12/13	Mon 7/29/13	1171
1173	Site 24 Draft Expanded Treatability Study Report (Phase III)	7 edays	Mon 7/29/13	Mon 8/5/13	1172
1174	Agency Review of Site 24 Draft Expanded Treatability Study Report (Phase III)	25 edays	Mon 8/5/13	Fri 8/30/13	1173
1175	Preliminary RTCs on Draft Expanded Treatability Study Report for Site 24 (Phase III)	20 edays	Fri 8/30/13	Thu 9/19/13	1174
1176	Resolve Preliminary RTCs on Draft Expanded Treatability Study Report for Site 24 (Phase III)	1 eday	Thu 9/19/13	Fri 9/20/13	1175
1177	Internal Final Site 24 Expanded Treatability Study Report (Phase III)	10 edays	Fri 9/20/13	Mon 9/30/13	1176
1178	Navy Review Internal Final Site 24 Expanded Treatability Study Report (Phase III)	7 edays	Mon 9/30/13	Mon 10/7/13	1177
1179	Final Site 24 Expanded Treatability Study Report (Phase III)	11 edays	Mon 10/7/13	Fri 10/18/13	1178
1180	✓ SITE 24 SOIL GAS INVESTIGATION WORK PLAN	271 days	Fri 2/4/11	Wed 11/2/11	
1189	SITE 24 SOIL GAS INVESTIGATION FIELD WORK / DATA ANALYSIS	56 edays	Wed 11/9/11	Wed 1/4/12	1027FS+7 edays
1190	PP/DRAFT RAP FOR SITE 24	2455 days	Mon 8/20/07	Fri 5/9/14	
1191	✓📅 Navy to award contract for Site 24 PP/ROD/RAP	60 edays	Mon 8/20/07	Fri 10/19/07	
1192	✓ Prepare Internal Draft PP/Draft RAP for Site 24	90 edays	Fri 10/29/10	Thu 1/27/11	1160SS-67 edays
1193	📅 Navy Technical Review of Internal Draft PP/Draft RAP for Site 24	30 edays	Fri 9/20/13	Sun 10/20/13	1177SS
1194	Incorporate Navy Technical Comments on Internal Draft PP/Draft RAP for Site 24	14 edays	Sun 10/20/13	Sun 11/3/13	1193
1195	Navy Legal Review of Internal Draft PP/Draft RAP for Site 24	30 edays	Sun 11/3/13	Tue 12/3/13	1194
1196	Prepare Draft PP/Draft RAP for Site 24	14 edays	Tue 12/3/13	Tue 12/17/13	1195
1197	Agency Review of Draft PP/Draft RAP for Site 24	30 edays	Tue 12/17/13	Thu 1/16/14	1196
1198	Prepare Preliminary RTCs on Draft PP/Draft RAP for Site 24	28 edays	Thu 1/16/14	Thu 2/13/14	1197
1199	Meeting to Discuss Preliminary RTCs on Draft PP/Draft RAP for Site 24	1 eday	Thu 2/13/14	Fri 2/14/14	1198

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ID	Task Name	Duration	Start	Finish	Predecessors
1200	Prepare Internal Final PP/Draft RAP for Site 24	30 edays	Fri 2/14/14	Sun 3/16/14	1199
1201	Navy Review of Internal Final PP/Draft RAP for Site 24	10 edays	Sun 3/16/14	Wed 3/26/14	1200
1202	Prepare Final PP/Draft RAP for Site 24	14 edays	Wed 3/26/14	Wed 4/9/14	1201
1203	Public Notice of PP/Draft RAP for Site 24	0 edays	Wed 4/9/14	Wed 4/9/14	1202
1204	Public Comment Period for PP/Draft RAP for Site 24	30 edays	Wed 4/9/14	Fri 5/9/14	1203
1205	Finalize Administrative Record for PP/Draft RAP for Site 24	0 edays	Fri 5/9/14	Fri 5/9/14	1204
1206	Public Meeting for PP/Draft RAP for Site 24	1 eday	Thu 4/24/14	Fri 4/25/14	1204SS+15 edays
1207	ROD/RAP FOR SITE 24	326 days	Tue 10/15/13	Sat 9/6/14	
1208	Prepare Internal Draft ROD/RAP for Site 24	90 edays	Tue 10/15/13	Mon 1/13/14	1201SS
1209	Navy Technical Review of Internal Draft ROD/RAP for Site 24	32 edays	Mon 1/13/14	Fri 2/14/14	1208
1210	Incorporate Navy Technical Comments on Internal Draft ROD/RAP for Site 24	14 edays	Fri 2/14/14	Fri 2/28/14	1209
1211	Navy Legal Review of Internal Draft ROD/RAP for Site 24	30 edays	Fri 2/28/14	Sun 3/30/14	1210
1212	Prepare Draft ROD/RAP for Site 24	14 edays	Sun 3/30/14	Sun 4/13/14	1211
1213	Agency Review of Draft ROD/RAP for Site 24	30 edays	Sun 4/13/14	Tue 5/13/14	1212
1214	Prepare Preliminary RTCs on Draft ROD/RAP for Site 24	28 edays	Tue 5/13/14	Tue 6/10/14	1213
1215	Meeting to Discuss Preliminary RTCs on Draft ROD/RAP for Site 24	0 edays	Tue 6/10/14	Tue 6/10/14	1214
1216	Prepare Internal Final ROD/RAP for Site 24	31 edays	Tue 6/10/14	Fri 7/11/14	1215
1217	Navy Review of Internal Final ROD/RAP for Site 24	10 edays	Fri 7/11/14	Mon 7/21/14	1216
1218	Prepare Final ROD/RAP for Site 24	14 edays	Mon 7/21/14	Mon 8/4/14	1217
1219	ROD/RAP Signature for Site 24	33 edays	Mon 8/4/14	Sat 9/6/14	1218
1220	Public Notice of Signing ROD/RAP for Site 24	0 edays	Sat 9/6/14	Sat 9/6/14	1219
1221	REMEDIAL DESIGN FOR SITE 24	311 days	Sat 5/17/14	Tue 3/24/15	
1222	Navy to award contract for Site 24 RD	60 edays	Sat 5/17/14	Wed 7/16/14	1216SS-24 days
1223	Internal Draft RD for Site 24	90 edays	Wed 7/16/14	Tue 10/14/14	1216,1222
1224	BCT Scoping Meeting for Site 24 RD	0 edays	Sat 8/16/14	Sat 8/16/14	1223SS+31 edays
1225	Navy Review of Internal Draft RD for Site 24	32 edays	Tue 10/14/14	Sat 11/15/14	1223
1226	Draft RD for Site 24	14 edays	Sat 11/15/14	Sat 11/29/14	1225
1227	Agency Review of Draft RD for Site 24	30 edays	Sat 11/29/14	Mon 12/29/14	1226
1228	Preliminary RTCs on Draft RD for Site 24	28 edays	Mon 12/29/14	Mon 1/26/15	1227
1229	Meeting to Discuss Preliminary RTCs on Draft RD for Site 24	1 eday	Mon 1/26/15	Tue 1/27/15	1228
1230	Internal Final for Site 24 RD	32 edays	Tue 1/27/15	Sat 2/28/15	1229
1231	Navy Review of Internal Final for Site 24 RD	10 edays	Sat 2/28/15	Tue 3/10/15	1230
1232	Final RD for Site 24	14 edays	Tue 3/10/15	Tue 3/24/15	1231
1233	REMEDIAL ACTION FOR SITE 24	2175 days	Tue 1/27/15	Sun 1/10/21	

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ID	Task Name	Duration	Start	Finish	Predecessors
1234	Navy to Award Contract for Remedial Action at Site 24	60 edays	Tue 1/27/15	Sat 3/28/15	1230SS
1235	Remediation Field Work Site 24/Groundwater Monitoring	1825 edays	Sat 3/28/15	Thu 3/26/20	1234
1236	FIVE YEAR REVIEW (IF NECESSARY)	290 edays	Thu 3/26/20	Sun 1/10/21	1235
1237	REMEDIAL ACTION REPORT FOR SITE 24	142 days	Thu 3/26/20	Sat 8/15/20	
1238	Internal Draft RA Report for Site 24	30 edays	Thu 3/26/20	Sat 4/25/20	1235
1239	BCT Scoping Meeting for Site 24 RA Report	0 edays	Sat 4/25/20	Sat 4/25/20	1238SS+30 edays
1240	Navy Review of Internal Draft RA Report for Site 24	14 edays	Sat 4/25/20	Sat 5/9/20	1238
1241	Draft RA Report for Site 24	7 edays	Sat 5/9/20	Sat 5/16/20	1240
1242	Agency Review of Site 24 Draft RA Report	30 edays	Sat 5/16/20	Mon 6/15/20	1241
1243	Internal Final RA Report for Site 24	33 edays	Mon 6/15/20	Sat 7/18/20	1242
1244	Navy Review of Internal Final RA Report for Site 24	14 edays	Sat 7/18/20	Sat 8/1/20	1243
1245	Final RA Report for Site 24	14 edays	Sat 8/1/20	Sat 8/15/20	1244
1246	SITE COMPLETION FOR SITE 24	30 edays	Sat 8/15/20	Mon 9/14/20	1245

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
1247	SITE 27	5188 days	Wed 5/7/03	Sat 2/3/18	
1248	FEASIBILITY STUDY FOR SITE 27	1192 days	Wed 5/7/03	Sun 2/25/07	
1266	✓ ADDITIONAL INVESTIGATION AT SITE 27	792 days	Fri 4/28/06	Fri 6/27/08	
1284	✓ FEASIBILITY STUDY (REV 2)	776 days	Fri 6/27/08	Fri 8/13/10	
1294	✓ SITE 27 BOUNDARY CHANGE LETTER	140 days	Sat 4/3/10	Fri 8/20/10	3274FF
1295	✓ PP/DRAFT RAP FOR SITE 27	731 days	Wed 7/1/09	Sat 7/2/11	
1313	ROD/RAP FOR SITE 27	336 days	Mon 5/9/11	Mon 4/9/12	
1314	✓ Prepare Internal Draft ROD/RAP for Site 27	91 edays	Mon 5/9/11	Mon 8/8/11	1307SS
1315	✓ Navy Technical Review of Internal Draft ROD/RAP for Site 27	29 edays	Mon 8/8/11	Tue 9/6/11	1314
1316	✓ Incorporate Navy Technical Comments on Internal Draft ROD/RAP for Site 27	14 edays	Tue 9/6/11	Tue 9/20/11	1315
1317	✓ Navy Legal Review of Internal Draft ROD/RAP for Site 27	30 edays	Tue 9/20/11	Thu 10/20/11	1316
1318	✓ Prepare Draft ROD/RAP for Site 27	15 edays	Thu 10/20/11	Fri 11/4/11	1317
1319	📅 Agency Review of Draft ROD/RAP for Site 27	45 edays	Fri 11/4/11	Mon 12/19/11	1318
1320	Prepare Preliminary RTCs on Draft ROD/RAP for Site 27	28 edays	Mon 12/19/11	Mon 1/16/12	1319
1321	Meeting to Discuss Preliminary RTCs on Draft ROD/RAP for Site 27	0 edays	Mon 1/16/12	Mon 1/16/12	1320
1322	Prepare Internal Final ROD/RAP for Site 27	30 edays	Mon 1/16/12	Wed 2/15/12	1321
1323	Navy Review of Internal Final ROD/RAP for Site 27	10 edays	Wed 2/15/12	Sat 2/25/12	1322
1324	Prepare Final ROD/RAP for Site 27	14 edays	Sat 2/25/12	Sat 3/10/12	1323
1325	ROD/RAP Signature for Site 27	30 edays	Sat 3/10/12	Mon 4/9/12	1324
1326	Public Notice of Signing ROD/RAP for Site 27	0 edays	Mon 4/9/12	Mon 4/9/12	1325
1327	REMEDIAL DESIGN FOR SITE 27	307 days	Wed 11/30/11	Tue 10/2/12	
1328	📅 Navy to award contract for Site 27 Remedial Design	60 edays	Wed 11/30/11	Sun 1/29/12	1322SS-47 edays
1329	Internal Draft RD for Site 27	90 edays	Sun 1/29/12	Sat 4/28/12	1328
1330	BCT Scoping Meeting Site 27 RD	1 eday	Tue 2/28/12	Wed 2/29/12	1329SS+30 edays
1331	Navy Review of Internal Draft RD for Site 27	30 edays	Sat 4/28/12	Mon 5/28/12	1329
1332	Draft RD for Site 27	14 edays	Mon 5/28/12	Mon 6/11/12	1331
1333	Agency Review of Draft RD for Site 27	30 edays	Mon 6/11/12	Wed 7/11/12	1332
1334	Preliminary RTCs on Draft Site 27 RD	28 edays	Wed 7/11/12	Wed 8/8/12	1333
1335	Meeting to Discuss Preliminary RTCs on Draft Site 27 RD	1 eday	Wed 8/8/12	Thu 8/9/12	1334
1336	Internal Final for Site 27 RD	30 edays	Thu 8/9/12	Sat 9/8/12	1335
1337	Navy Review of Internal Final for Site 27 RD	14 edays	Sat 9/8/12	Sat 9/22/12	1336
1338	Final RD for Site 27	10 edays	Sat 9/22/12	Tue 10/2/12	1337
1339	REMEDIAL ACTION FOR SITE 27	363 days	Fri 8/3/12	Thu 8/1/13	

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ID		Task Name	Duration	Start	Finish	Predecessors
1340		Navy to award contract for Site 27 Remedial Action	60 edays	Fri 8/3/12	Tue 10/2/12	1338FS-60 edays
1341		Remediation Field Work Site 27	161 edays	Tue 10/2/12	Tue 3/12/13	1338
1342		REMEDIAL ACTION REPORTS FOR SITE 27	142 days	Tue 3/12/13	Thu 8/1/13	
1343		Internal Draft RA Reports for Site 27	30 edays	Tue 3/12/13	Thu 4/11/13	1341
1344		BCT Scoping Meeting for Site 27 RA Reports	0 days	Wed 3/27/13	Wed 3/27/13	1343SS+15 edays
1345		Navy Review of Internal Draft RA Reports for Site 27	14 edays	Thu 4/11/13	Thu 4/25/13	1343
1346		Draft RA Reports for Site 27	7 edays	Thu 4/25/13	Thu 5/2/13	1345
1347		Agency Review of Site 27 Draft RA Reports	30 edays	Thu 5/2/13	Sat 6/1/13	1346
1348		Internal Final RA Reports for Site 27	33 edays	Sat 6/1/13	Thu 7/4/13	1347
1349		Navy Review of Internal Final RA Reports for Site 27	14 edays	Thu 7/4/13	Thu 7/18/13	1348
1350		Final RA Reports for Site 27	14 edays	Thu 7/18/13	Thu 8/1/13	1349
1351		FIVE YEAR REVIEW SITE 27	300 edays	Sun 4/9/17	Sat 2/3/18	1325FS+1826 edays
1352		SITE COMPLETION FOR SITE 27	30 edays	Thu 8/1/13	Sat 8/31/13	1350

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ID		Task Name	Duration	Start	Finish	Predecessors
1353	i	SITE 28	2553 days	Thu 12/2/04	Sat 12/31/11	
1354	✓	REMEDIAL INVESTIGATION FOR SITES 8, 28, 29	1549 days	Thu 12/2/04	Wed 4/1/09	
1378	✓	NFA PP/DRAFT RAP FOR SITE 28	1031 days	Thu 8/2/07	Sat 5/29/10	
1395	✓	NFA ROD/RAP FOR SITE 28	235 days	Thu 4/1/10	Mon 11/22/10	
1409		SITE COMPLETION FOR SITE 28 (1 year allocated for transfer/tidelands trust exchange)	404 edays	Mon 11/22/10	Sat 12/31/11	1408

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID		Task Name	Duration	Start	Finish	Predecessors
1410		SITE 29	5375 days	Tue 4/19/05	Sun 1/5/20	
1411		INTERIM REMEDIAL INVESTIGATION FOR SITES 8 & 29	1438 days	Tue 4/19/05	Fri 3/27/09	
1435		SITE 29 (ON-OFF RAMPS) BOUNDARY CHANGE LETTER	287 edays	Wed 3/10/10	Wed 12/22/10	3282FF
1436		SITE 29 ARTIFACT BOUNDARY CHANGE TECHNICAL MEMORANDUM	118 edays	Thu 9/1/11	Wed 12/28/11	
1437		CALTRANS BRIDGE CONSTRUCTION PROJECT	2523 days	Mon 11/3/08	Wed 9/30/15	
1438		REMAINING CERCLA ITEMS (IF NECESSARY)	1558 days	Wed 9/30/15	Sun 1/5/20	
1439		SITES 8 & 29 RI ADDENDUM (IF NECESSARY)	186 days	Wed 9/30/15	Sun 4/3/16	
1450		FEASIBILITY STUDY FOR SITES 8 & 29 (IF NECESSARY)	350 days	Tue 2/9/16	Tue 1/24/17	
1464		PP/DRAFT RAP FOR SITES 8 & 29	320 days	Sat 12/31/16	Thu 11/16/17	
1481		ROD/RAP FOR SITES 8 & 29	320 days	Sat 9/23/17	Thu 8/9/18	
1496		REMEDIAL DESIGN FOR SITES 8 & 29 (IF NECESSARY)	276 days	Thu 5/17/18	Sun 2/17/19	
1508		REMEDIAL ACTION FOR SITES 8 & 29 (IF NECESSARY)	292 days	Sun 2/17/19	Fri 12/6/19	
1519		SITE COMPLETION FOR SITES 8 & 29	30 edays	Fri 12/6/19	Sun 1/5/20	1518

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
1520	SITE 30	4173 days	Sun 3/16/03	Wed 3/4/15	
1521	✓ SITE 30 DATA AND FIELD ACTIVITY REPORT	108 days	Sun 3/16/03	Mon 7/28/03	
1527	✓ GROUNDWATER MONITORING FOR SITES 30/31	160 days	Thu 1/1/04	Thu 8/12/04	
1540	✓ REMEDIAL INVESTIGATION FOR SITE 30	518 days	Thu 7/8/04	Fri 2/17/06	
1554	✓ FEASIBILITY STUDY FOR SITE 30	498 days	Mon 7/4/05	Tue 11/14/06	
1568	✓ PP FOR SITE 30	804 days	Sun 8/6/06	Sat 10/18/08	
1587	✓ ROD/RAP FOR SITE 30	622 days	Wed 1/30/08	Tue 10/13/09	
1601	✓ SITE 30 LAND USE CONTROL WORK PLAN	660 days	Wed 2/11/09	Thu 12/2/10	
1612	✓ 2011 SITE 30 LUC INSPECTION AND REPORTING	104 days	Fri 3/4/11	Fri 6/17/11	
1620	2012 SITE 30 LUC INSPECTION AND REPORTING	102 days	Sat 3/3/12	Wed 6/13/12	
1621	Prepare Draft 2012 Site 30 LUC Inspection Report	30 edays	Sat 3/3/12	Mon 4/2/12	1613SS+365 edays
1622	Navy Review Draft 2012 Site 30 LUC Inspection Report	14 edays	Mon 4/2/12	Mon 4/16/12	1621
1623	2012 Site 30 LUC Inspection BCT Presentation	0 edays	Wed 4/4/12	Wed 4/4/12	1622SS+2 edays
1624	Prepare Draft 2012 Site 30 LUC Inspection Report	14 edays	Mon 4/16/12	Mon 4/30/12	1622
1625	Agency Review Draft 2012 Site 30 LUC Inspection Report	30 edays	Mon 4/30/12	Wed 5/30/12	1624
1626	Prepare Responses to Agency Comments on Draft 2012 Site 30 LUC Inspection Report and Prepare Internal Final	7 edays	Wed 5/30/12	Wed 6/6/12	1625
1627	Navy Review Internal Final 2012 Site 30 LUC Inspection Report	3 edays	Wed 6/6/12	Sat 6/9/12	1626
1628	Final 2012 Site 30 LUC Inspection Report	4 edays	Sat 6/9/12	Wed 6/13/12	1627
1629	2013 SITE 30 LUC INSPECTION AND REPORTING	162 days	Wed 1/2/13	Thu 6/13/13	
1630	Navy Award Contract for 2013 - 2014/Five Year Review	60 edays	Wed 1/2/13	Sun 3/3/13	1621SS+305 edays
1631	Prepare Draft 2013 Site 30 LUC Inspection Report	30 edays	Sun 3/3/13	Tue 4/2/13	1621SS+365 edays
1632	Navy Review Draft 2013 Site 30 LUC Inspection Report	14 edays	Tue 4/2/13	Tue 4/16/13	1631
1633	2013 Site 30 LUC Inspection BCT Presentation	0 edays	Wed 4/3/13	Wed 4/3/13	1632SS+1 eday
1634	Prepare Draft 2013 Site 30 LUC Inspection Report	14 edays	Tue 4/16/13	Tue 4/30/13	1632
1635	Agency Review Draft 2013 Site 30 LUC Inspection Report	30 edays	Tue 4/30/13	Thu 5/30/13	1634
1636	Prepare Responses to Agency Comments on Draft 2013 Site 30 LUC Inspection Report and Prepare Internal Final	7 edays	Thu 5/30/13	Thu 6/6/13	1635
1637	Navy Review Internal Final 2013 Site 30 LUC Inspection Report	3 edays	Thu 6/6/13	Sun 6/9/13	1636
1638	Final 2013 Site 30 LUC Inspection Report	4 edays	Sun 6/9/13	Thu 6/13/13	1637
1639	2014 SITE 30 LUC INSPECTION AND REPORTING	102 days	Mon 3/3/14	Fri 6/13/14	
1640	Prepare Draft 2014 Site 30 LUC Inspection Report	30 edays	Mon 3/3/14	Wed 4/2/14	1631SS+365 edays
1641	Navy Review Draft 2014 Site 30 LUC Inspection Report	14 edays	Wed 4/2/14	Wed 4/16/14	1640
1642	2014 Site 30 LUC Inspection BCT Presentation	0 days	Wed 4/2/14	Wed 4/2/14	1641SS
1643	Prepare Draft 2014 Site 30 LUC Inspection Report	14 edays	Wed 4/16/14	Wed 4/30/14	1641

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
1644	Agency Review Draft 2014 Site 30 LUC Inspection Report	30 edays	Wed 4/30/14	Fri 5/30/14	1643
1645	Prepare Responses to Agency Comments on Draft 2014 Site 30 LUC Inspection Report and Prepare Internal Final	7 edays	Fri 5/30/14	Fri 6/6/14	1644
1646	Navy Review Internal Final 2014 Site 30 LUC Inspection Report	3 edays	Fri 6/6/14	Mon 6/9/14	1645
1647	Final 2014 Site 30 LUC Inspection Report	4 edays	Mon 6/9/14	Fri 6/13/14	1646
1648	FIVE-YEAR REVIEW	263 days	Fri 6/13/14	Wed 3/4/15	
1649	Prepare Draft Site 30 Five Year Review	30 edays	Fri 6/13/14	Sun 7/13/14	1647
1650	Navy Review Draft Site 30 Five Year Review	14 edays	Sun 7/13/14	Sun 7/27/14	1649
1651	Incorporate Navy Technical Review Comments Internal Draft Site 30 Five Year Review	14 edays	Sun 7/27/14	Sun 8/10/14	1650
1652	Navy Legal Review of Internal Draft Site 30 Five Year Review	30 edays	Sun 8/10/14	Tue 9/9/14	1651
1653	Site 30 Five Year Review BCT Presentation	0 days	Wed 3/4/15	Wed 3/4/15	1652FS+3 edays
1654	Prepare Draft Site 30 Five Year Review	14 edays	Tue 9/9/14	Tue 9/23/14	1652
1655	Agency Review Draft Site 30 Five Year Review	30 edays	Tue 9/23/14	Thu 10/23/14	1654
1656	Prepare Responses to Agency Comments and Final Site 30 Five Year Review	28 edays	Thu 10/23/14	Thu 11/20/14	1655
1657	BCT Meeting Presentation Final Site 30 Five Year Review	0 edays	Thu 11/20/14	Thu 11/20/14	1656
1658	Internal Final Site 30 Five Year Review	30 edays	Thu 11/20/14	Sat 12/20/14	1656
1659	Navy Review of Internal Final Site 30 Five Year Review	10 edays	Sat 12/20/14	Tue 12/30/14	1658
1660	Finalize Site 30 Five Year Review	14 edays	Tue 12/30/14	Tue 1/13/15	1659
1661	RADIOLOGICAL EVALUATION (IF NECESSARY)	113 edays	Thu 5/31/12	Fri 9/21/12	1796
1662	SITE COMPLETION FOR SITE 30	30 edays	Fri 9/21/12	Sun 10/21/12	1661

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
1663	SITE 31	3234 days	Wed 6/11/03	Sat 10/20/12	
1664	✓ ADDITIONAL INVESTIGATION FOR SITE 31	67 days	Wed 6/11/03	Fri 9/12/03	
1676	✓ GROUNDWATER MONITORING FOR SITES 30/31	155 days	Thu 1/1/04	Thu 8/5/04	
1689	✓ REMEDIAL INVESTIGATION FOR SITE 31	665 days	Thu 7/8/04	Fri 7/14/06	
1712	✓ FEASIBILITY STUDY FOR SITE 31	600 days	Wed 7/20/05	Tue 3/13/07	
1726	✓ PP FOR SITE 31	804 days	Sun 8/6/06	Sat 10/18/08	
1745	✓ ROD/RAP FOR SITE 31	629 days	Wed 1/23/08	Tue 10/13/09	
1758	✓ REMEDIAL ACTION WORK PLAN AND REMEDIAL ACTION FOR SITE 31	575 days	Wed 7/2/08	Thu 1/28/10	
1771	REMEDIAL ACTION FOR SITE 31	993 days	Mon 2/1/10	Sat 10/20/12	
1772	REMEDICATION FIELD WORK SITE 31	993 days	Mon 2/1/10	Sat 10/20/12	
1773	✓ Site 31 Field Work (Phase 1)	162 edays	Mon 2/1/10	Tue 7/13/10	1770FS+4 edays
1774	✓ Explanation of Significant Differences (ESD) for Site 31 ROD/RAP to include Site 33	353 days	Sat 6/5/10	Tue 5/24/11	
1785	Site 31 Phase 2 Remedial Action Field Work Plan (Including Site 33)	539 days	Sat 7/3/10	Fri 12/23/11	
1786	✓ Navy Award Contract for RA Work Plan for Site 31	60 edays	Sat 7/3/10	Wed 9/1/10	
1787	✓ Internal Draft RA Work Plan for Site 31	44 edays	Wed 9/1/10	Fri 10/15/10	1786
1788	✓ Navy Review of Internal Draft RA Work Plan for Site 31	21 edays	Fri 10/15/10	Fri 11/5/10	1787
1789	✓ Revise Internal Draft RA Work Plan for Site 31	100 edays	Mon 11/15/10	Wed 2/23/11	1788
1790	✓ Navy RASO Review Internal Draft RA Work Plan for Site 31	230 edays	Wed 2/23/11	Tue 10/11/11	1789
1791	✓ Draft RA Work Plan for Site 31	21 edays	Tue 10/11/11	Tue 11/1/11	1790
1792	✓ Agency Review of Site 31 Draft RA Work Plan	29 edays	Tue 11/1/11	Wed 11/30/11	1791
1793	Internal Final RA Work Plan for Site 31	13 edays	Wed 11/30/11	Tue 12/13/11	1792
1794	Navy Review of Internal Final RA Work Plan for Site 31	9 edays	Tue 12/13/11	Thu 12/22/11	1793
1795	Final RA Work Plan for Site 31	1 eday	Thu 12/22/11	Fri 12/23/11	1794
1796	Site 31 Field Work (Phase 2)	160 edays	Fri 12/23/11	Thu 5/31/12	1795
1797	Remedial Action Completion Report (RACR) for Site 31	187 days	Mon 4/16/12	Sat 10/20/12	
1798	Internal Draft RACR for Site 31	29 edays	Mon 4/16/12	Tue 5/15/12	1796FS-45 edays
1799	Navy Review of Internal Draft RACR for Site 31	30 edays	Tue 5/15/12	Thu 6/14/12	1798
1800	Draft RACR for Site 31	13 edays	Fri 6/15/12	Thu 6/28/12	1799FS+1 eday
1801	Agency Review of Site 31 Draft RACR	29 edays	Thu 6/28/12	Fri 7/27/12	1800
1802	Internal Final RACR for Site 31	29 edays	Sat 7/28/12	Sun 8/26/12	1801FS+1 eday
1803	Navy Review of Internal Final RACR for Site 31	10 edays	Sun 8/26/12	Wed 9/5/12	1802
1804	Final RACR for Site 31	13 edays	Fri 9/7/12	Thu 9/20/12	1803FS+2 edays
1805	Agency review and concurrence with Final RACR for Site 31	30 edays	Thu 9/20/12	Sat 10/20/12	1804

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ID	Task Name	Duration	Start	Finish	Predecessors
1806	SITE 31 GAMMA WALK OVER SURVEY REPORT	187 days	Mon 4/16/12	Sat 10/20/12	
1807	Prepare Internal Draft Site 31 Gamma Walk Over Survey Report	29 edays	Mon 4/16/12	Tue 5/15/12	1796FS-45 edays
1808	Navy BRAC Review Internal Draft Site 31 Gamma Walk Over Survey Report	19 edays	Wed 5/16/12	Mon 6/4/12	1807FS+1 eday
1809	Prepare Revised Internal Draft Site 31 Gamma Walk Over Survey Report	6 edays	Mon 6/4/12	Sun 6/10/12	1808
1810	Navy RASO Review Internal Draft Site 31 Gamma Walk Over Survey Report	29 edays	Mon 6/11/12	Tue 7/10/12	1809FS+1 eday
1811	Prepare Draft Site 31 Gamma Walk Over Survey Report	6 edays	Wed 7/11/12	Tue 7/17/12	1810FS+1 eday
1812	Agency Review Draft Site 31 Gamma Walk Over Survey Report	27 edays	Wed 7/18/12	Tue 8/14/12	1811FS+1 eday
1813	Prepare Preliminary Responses to Agency Comments on Draft Site 31 Gamma Walk Over Survey Report	6 edays	Wed 8/15/12	Tue 8/21/12	1812FS+1 eday
1814	Prepare Internal Final Site 31 Gamma Walk Over Survey Report	14 edays	Wed 8/22/12	Wed 9/5/12	1813FS+1 eday
1815	Navy Review Internal Final Site 31 Gamma Walk Over Survey Report	9 edays	Thu 9/6/12	Sat 9/15/12	1814FS+1 eday
1816	Prepare Final Site 31 Gamma Walk Over Survey Report	5 days	Sun 9/16/12	Thu 9/20/12	1815
1817	CDPH Survey - Field	1 eday	Thu 9/20/12	Fri 9/21/12	1816
1818	Agency Concurrence Letter for Closing Condition	29 edays	Fri 9/21/12	Sat 10/20/12	1817
1819	SITE COMPLETION FOR SITE 31	0 edays	Sat 10/20/12	Sat 10/20/12	1818

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ID		Task Name	Duration	Start	Finish	Predecessors
1820		SITE 32	3441 days	Wed 9/15/04	Wed 4/9/14	
1821	✓	REMEDIAL INVESTIGATION FOR SITE 32	1454 days	Wed 9/15/04	Thu 10/30/08	
1843	✓	PCB SOIL ABATEMENT T111 / SITE 32 REMOVAL ACTION (see PCB Program)	1070 days	Fri 8/8/08	Wed 7/13/11	2338SS
1844	✓	POST-CONSTRUCTION HHRA REVIEW	141 edays	Tue 4/13/10	Wed 9/1/10	
1845	✓	PP/DRAFT RAP FOR SITE 32	209 days	Mon 3/21/11	Mon 10/17/11	
1858		ROD/RAP FOR SITE 32	204 days	Fri 8/19/11	Sat 3/10/12	
1859	✓	Prepare Internal Draft ROD/RAP for Site 32	68 edays	Fri 8/19/11	Wed 10/26/11	1852SS
1860	✓	Navy Technical Review of Internal Draft ROD/RAP for Site 32	14 edays	Wed 10/26/11	Wed 11/9/11	1859
1861	✓	Incorporate Navy Technical Comments on Internal Draft ROD/RAP for Site 32	8 edays	Wed 11/9/11	Thu 11/17/11	1860
1862	✓	Navy Legal Review of Internal Draft ROD/RAP for Site 32	20 edays	Thu 11/17/11	Wed 12/7/11	1861
1863		Prepare Draft ROD/RAP for Site 32	13 edays	Wed 12/7/11	Tue 12/20/11	1862
1864		Agency Review of Draft ROD/RAP for Site 32	28 edays	Tue 12/20/11	Tue 1/17/12	1863
1865		Preliminary RTCs for Draft ROD/RAP for Site 32	19 edays	Tue 1/17/12	Sun 2/5/12	1864
1866		Meeting to Discuss Preliminary RTCs for Draft ROD/RAP for Site 32	0 edays	Sun 2/5/12	Sun 2/5/12	1865
1867		Prepare Internal Final ROD/RAP for Site 32	13 edays	Sun 2/5/12	Sat 2/18/12	1866
1868		Navy Review of Internal Final ROD/RAP for Site 32	7 edays	Sat 2/18/12	Sat 2/25/12	1867
1869		Prepare Final ROD/RAP for Site 32	7 edays	Sat 2/25/12	Sat 3/3/12	1868
1870		ROD/RAP Signature for Site 32	7 days	Sun 3/4/12	Sat 3/10/12	1869
1871		Public Notice of Signing ROD/RAP for Site 32	0 edays	Sat 3/10/12	Sat 3/10/12	1870
1872		RADIOLOGICAL EVALUATION (IF NECESSARY)	730 edays	Sat 3/10/12	Mon 3/10/14	1871
1873		SITE COMPLETION FOR SITE 32	30 edays	Mon 3/10/14	Wed 4/9/14	1872

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ID	Task Name	Duration	Start	Finish	Predecessors
1874	SITE 33	3111 days	Tue 12/2/03	Sat 10/20/12	
1875	✓ REMEDIAL INVESTIGATION FOR SITE 33	2207 days	Tue 12/2/03	Fri 4/30/10	
1906	✓ EXPLANATION OF SIGNIFICANT DIFFERENCES (ESD) FOR SITE 31 ROD/RAP TO INCLUDE SITE 33	353 edays	Sat 6/5/10	Tue 5/24/11	1775SS
1907	REMEDIATION FIELD WORK SITE 33	791 days	Sat 7/3/10	Fri 8/31/12	
1908	Site 33 Phase 2 Remedial Action Field Work Plan (Including Site 31)	539 days	Sat 7/3/10	Fri 12/23/11	
1909	✓ Navy Award Contract for RA Work Plan for Site 33	60 edays	Sat 7/3/10	Wed 9/1/10	
1910	✓ Internal Draft RA Work Plan for Site 33	44 edays	Wed 9/1/10	Fri 10/15/10	1909
1911	✓ Navy Review of Internal Draft RA Work Plan for Site 33	21 edays	Fri 10/15/10	Fri 11/5/10	1910
1912	✓ Revise Internal Draft RA Work Plan for Site 33	100 edays	Mon 11/15/10	Wed 2/23/11	1911
1913	✓ Navy RASO Review Internal Draft RA Work Plan for Site 33	230 edays	Wed 2/23/11	Tue 10/11/11	1912
1914	✓ Draft RA Work Plan for Site 33	21 edays	Tue 10/11/11	Tue 11/1/11	1913
1915	✓ Agency Review of Site 33 Draft RA Work Plan	29 edays	Tue 11/1/11	Wed 11/30/11	1914
1916	Internal Final RA Work Plan for Site 33	13 edays	Wed 11/30/11	Tue 12/13/11	1915
1917	Navy Review of Internal Final RA Work Plan for Site 33	9 edays	Tue 12/13/11	Thu 12/22/11	1916
1918	Final RA Work Plan for Site 33	1 eday	Thu 12/22/11	Fri 12/23/11	1917
1919	Site 33 Field Work	74 edays	Fri 12/23/11	Tue 3/6/12	1918
1920	Remedial Action Completion Report (RACR) for Site 33	187 days	Sun 2/26/12	Fri 8/31/12	
1921	Internal Draft RACR for Site 33	29 edays	Sun 2/26/12	Mon 3/26/12	1919FS-9 edays
1922	Navy Review of Internal Draft RACR for Site 33	30 edays	Mon 3/26/12	Wed 4/25/12	1921
1923	Draft RACR for Site 33	13 edays	Thu 4/26/12	Wed 5/9/12	1922FS+1 eday
1924	Agency Review of Site 33 Draft RACR	29 edays	Wed 5/9/12	Thu 6/7/12	1923
1925	Internal Final RACR for Site 33	29 edays	Fri 6/8/12	Sat 7/7/12	1924FS+1 eday
1926	Navy Review of Internal Final RACR for Site 33	9 edays	Sun 7/8/12	Tue 7/17/12	1925FS+1 eday
1927	Final RACR for Site 33	13 edays	Thu 7/19/12	Wed 8/1/12	1926FS+2 edays
1928	Agency review and concurrence with Final RACR for Site 31	30 edays	Wed 8/1/12	Fri 8/31/12	1927
1929	SITE 33 GAMMA WALK OVER SURVEY REPORT	187 days	Mon 4/16/12	Sat 10/20/12	
1930	Prepare Internal Draft Site 33 Gamma Walk Over Survey Report	29 edays	Mon 4/16/12	Tue 5/15/12	1919FS+41 edays
1931	Navy BRAC Review Internal Draft Site 33 Gamma Walk Over Survey Report	19 edays	Wed 5/16/12	Mon 6/4/12	1930FS+1 eday
1932	Prepare Revised Internal Draft Site 33 Gamma Walk Over Survey Report	6 edays	Mon 6/4/12	Sun 6/10/12	1931
1933	Navy RASO Review Internal Draft Site 33 Gamma Walk Over Survey Report	29 edays	Mon 6/11/12	Tue 7/10/12	1932FS+1 eday
1934	Prepare Draft Site 33 Gamma Walk Over Survey Report	6 edays	Wed 7/11/12	Tue 7/17/12	1933FS+1 eday
1935	Agency Review Draft Site 33 Gamma Walk Over Survey Report	27 edays	Wed 7/18/12	Tue 8/14/12	1934FS+1 eday
1936	Prepare Preliminary Responses to Agency Comments on Draft Site 33 Gamma Walk Over Survey Report	6 edays	Wed 8/15/12	Tue 8/21/12	1935FS+1 eday

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
1937	Prepare Internal Final Site 33 Gamma Walk Over Survey Report	14 edays	Wed 8/22/12	Wed 9/5/12	1936FS+1 eday
1938	Navy Review Internal Final Site 33 Gamma Walk Over Survey Report	9 edays	Thu 9/6/12	Sat 9/15/12	1937FS+1 eday
1939	Prepare Final Site 33 Gamma Walk Over Survey Report	5 days	Sun 9/16/12	Thu 9/20/12	1938
1940	CDPH Survey - Field	1 eday	Thu 9/20/12	Fri 9/21/12	1939
1941	Agency Concurrence Letter for Closing Condition	29 edays	Fri 9/21/12	Sat 10/20/12	1940
1942	SITE COMPLETION FOR SITE 33	0 edays	Sat 10/20/12	Sat 10/20/12	1941

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID		Task Name	Duration	Start	Finish	Predecessors
1943		PETROLEUM PROGRAM	4502 days	Wed 6/26/02	Mon 6/22/15	
1944	✓	SITE 4/19 - Closed	248 days	Wed 2/5/03	Wed 12/17/03	
1954	✓	SITES 14/22 - Closed	876 days	Wed 6/26/02	Mon 7/18/05	
1971	✓	SITE 15 - Closed	454 days	Tue 2/4/03	Tue 9/28/04	
1989	✓	SITE 16 - Closed	228 days	Sat 8/2/03	Thu 6/17/04	
1998	✓	SITE 20 - Closed	285 days	Tue 5/13/03	Thu 6/17/04	
2008	✓	SITE 25 - Closed	2886 days	Wed 5/28/03	Fri 10/28/11	
2047	✓	SITE 227 - Closed	173 days	Sat 1/24/04	Tue 9/21/04	
2058	✓	UST SITE 180C - Closed	492 days	Sun 2/15/04	Tue 10/11/05	
2066	✓	F2A/F2B - Closed	646 days	Thu 5/1/03	Mon 8/22/05	
2083	✓	SITE YF2 - Closed	73 days	Tue 3/9/04	Thu 6/17/04	
2090	✓	D1B (3rd Street) Closed	911 days	Thu 5/1/03	Sun 5/14/06	

All start and finish dates on Saturday
or Sunday default to the following business day.

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ID	Task Name	Duration	Start	Finish	Predecessors
2103	SITE 6	3351 days	Tue 4/8/03	Tue 12/25/12	
2104	POST-CONSTRUCTION REPORT FOR SITE 6	261 days	Tue 4/8/03	Thu 4/1/04	
2111	Groundwater Monitoring for Site 6	339 edays	Wed 5/28/03	Sat 5/1/04	
2112	Additional Investigation: Soil Vapor Sampling	45 edays	Mon 7/12/04	Thu 8/26/04	
2113	CLOSURE SUMMARY REPORT FOR SITE 6	255 days	Sat 3/26/05	Tue 12/6/05	
2120	Receipt of Water Board Letter of Non-Concurrence with NFA at Site 6	0 edays	Mon 5/15/06	Mon 5/15/06	
2121	Site 6 Groundwater Monitoring	210 edays	Thu 6/1/06	Thu 12/28/06	
2122	Prepare Revised Site 6 Boundary Paper	215 edays	Fri 6/23/06	Wed 1/24/07	
2123	Agency Review Revised Site 6 Boundary Paper	86 days	Wed 1/24/07	Thu 4/19/07	2122
2124	Evaluate Site 6 Path Forward	60 edays	Thu 4/19/07	Mon 6/18/07	2123
2125	ADDITIONAL INVESTIGATION USTs 240	590 days	Wed 3/16/11	Fri 10/26/12	
2126	Navy to Award Contract for Additional Investigation of USTs 240	90 edays	Wed 3/16/11	Tue 6/14/11	
2127	Additional Investigation of USTs 240 Work Plan	203 days	Tue 7/19/11	Tue 2/7/12	
2128	Internal Draft Additional Investigation of USTs 240 Work Plan	94 edays	Tue 7/19/11	Fri 10/21/11	2126FS+35 edays
2129	Navy Review Internal Draft Additional Investigation of USTs 240 Work Plan	39 edays	Fri 10/21/11	Tue 11/29/11	2128
2130	Draft Additional Investigation of USTs 240 Work Plan	14 edays	Tue 11/29/11	Tue 12/13/11	2129
2131	Agency Review Draft Additional Investigation of USTs 240 Work Plan	30 edays	Tue 12/13/11	Thu 1/12/12	2130
2132	Prepare Internal Final Additional Investigation of USTs 240 Work Plan	14 edays	Thu 1/12/12	Thu 1/26/12	2131
2133	Navy Review Internal Final Additional Investigation of USTs 240 Work Plan	7 edays	Thu 1/26/12	Thu 2/2/12	2132
2134	Prepare Final Additional Investigation of USTs 240 Work Plan	5 edays	Thu 2/2/12	Tue 2/7/12	2133
2135	Additional Investigation of USTs 240 Work Plan / Field Work	60 edays	Tue 2/7/12	Sat 4/7/12	2134
2136	Additional Investigation of USTs 240 Post-Construction Summary Report (PCSR)	142 days	Mon 5/7/12	Wed 9/26/12	
2137	Internal Draft Additional Investigation of USTs 240 PCSR	30 edays	Mon 5/7/12	Wed 6/6/12	2135FS+30 edays
2138	Navy Review Internal Draft Additional Investigation of USTs 240 PCSR	14 edays	Wed 6/6/12	Wed 6/20/12	2137
2139	Prepare Draft Additional Investigation of USTs 240 PCSR	7 edays	Wed 6/20/12	Wed 6/27/12	2138
2140	Agency Review Draft Additional Investigation of USTs 240 PCSR	30 edays	Wed 6/27/12	Fri 7/27/12	2139
2141	Prepare Internal Final Additional Investigation of USTs 240 PCSR	33 edays	Fri 7/27/12	Wed 8/29/12	2140
2142	Navy Review Internal Final Additional Investigation of USTs 240 PCSR	14 edays	Wed 8/29/12	Wed 9/12/12	2141
2143	Prepare Final Additional Investigation of USTs 240 PCSR	14 edays	Wed 9/12/12	Wed 9/26/12	2142
2144	Receive Water Board Concurrence Letter for Closure of USTs at Site 06	30 edays	Wed 9/26/12	Fri 10/26/12	2143
2145	UST 248 CLOSURE	90 days	Wed 9/26/12	Tue 12/25/12	
2146	UST 248 Request for Closure	60 edays	Wed 9/26/12	Sun 11/25/12	148,2143
2147	UST 248 Closure Receive Water Board Concurrence Letter	30 edays	Sun 11/25/12	Tue 12/25/12	2146

All start and finish dates on Saturday or Sunday default to the following business day.

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ID	Task Name	Duration	Start	Finish	Predecessors
2148	USCG	853 days	Wed 8/1/12	Tue 12/2/14	
2149	 Navy to Award Contract for Additional Investigation and Reporting at USCG	60 edays	Wed 8/1/12	Sun 9/30/12	
2150	USCG Additional Investigation Work Plan	172 days	Sun 9/30/12	Thu 3/21/13	
2151	Prepare Internal Draft USCG Additional Investigation Work Plan	60 edays	Sun 9/30/12	Thu 11/29/12	2149
2152	Navy Review Internal Draft USCG Additional Investigation Work Plan	14 edays	Thu 11/29/12	Thu 12/13/12	2151
2153	Prepare Draft USCG Additional Investigation Work Plan	7 edays	Thu 12/13/12	Thu 12/20/12	2152
2154	Agency Review Draft USCG Additional Investigation Work Plan	30 edays	Thu 12/20/12	Sat 1/19/13	2153
2155	Prepare Response to Agency Comments and Internal Final USCG Additional Investigation Work Plan	33 edays	Sat 1/19/13	Thu 2/21/13	2154
2156	Navy Review Internal Final USCG Additional Investigation Work Plan	14 edays	Thu 2/21/13	Thu 3/7/13	2155
2157	Prepare Final USCG Additional Investigation Work Plan	14 edays	Thu 3/7/13	Thu 3/21/13	2156
2158	USCG Additional Investigation Field Work and Sample Analysis	60 edays	Thu 3/21/13	Mon 5/20/13	2157
2159	Prepare USCG Additional Investigation Report	142 days	Mon 5/20/13	Wed 10/9/13	
2160	Prepare Internal Draft USCG Additional Investigation Report	30 edays	Mon 5/20/13	Wed 6/19/13	2158
2161	Navy Review Internal Draft USCG Additional Investigation Report	14 edays	Wed 6/19/13	Wed 7/3/13	2160
2162	Prepare Draft USCG Additional Investigation Report	7 edays	Wed 7/3/13	Wed 7/10/13	2161
2163	Agency Review Draft USCG Additional Investigation Report	30 edays	Wed 7/10/13	Fri 8/9/13	2162
2164	Prepare Response to Agency Comments and Internal Final USCG Additional Investigation Report	33 edays	Fri 8/9/13	Wed 9/11/13	2163
2165	Navy Review Internal Final USCG Additional Investigation Report	14 edays	Wed 9/11/13	Wed 9/25/13	2164
2166	Prepare Final USCG Additional Investigation Report	14 edays	Wed 9/25/13	Wed 10/9/13	2165
2167	USCG CAP Addendum	142 days	Wed 10/9/13	Fri 2/28/14	
2168	Prepare Internal Draft USCG CAP Addendum	30 edays	Wed 10/9/13	Fri 11/8/13	2166
2169	Navy Review Internal Draft USCG CAP Addendum	14 edays	Fri 11/8/13	Fri 11/22/13	2168
2170	Prepare Draft USCG CAP Addendum	7 edays	Fri 11/22/13	Fri 11/29/13	2169
2171	Agency Review Draft USCG CAP Addendum	30 edays	Fri 11/29/13	Sun 12/29/13	2170
2172	Prepare Response to Agency Comments and Internal Final USCG CAP Addendum	33 edays	Sun 12/29/13	Fri 1/31/14	2171
2173	Navy Review Internal Final USCG CAP Addendum	14 edays	Fri 1/31/14	Fri 2/14/14	2172
2174	Prepare Final USCG CAP Addendum	14 edays	Fri 2/14/14	Fri 2/28/14	2173
2175	USCG CAP Addendum Implementation	120 edays	Fri 2/28/14	Sat 6/28/14	2174
2176	USCG Post-Construction Summary Report	142 days	Sat 6/28/14	Mon 11/17/14	
2177	Internal Draft USCG Post-Construction Summary Report	30 edays	Sat 6/28/14	Mon 7/28/14	2175
2178	Navy Review of Internal Draft USCG Post-Construction Summary Report	14 edays	Mon 7/28/14	Mon 8/11/14	2177
2179	Draft USCG Post-Construction Summary Report	7 edays	Mon 8/11/14	Mon 8/18/14	2178
2180	Agency Review of Draft USCG Post-Construction Summary Report	30 edays	Mon 8/18/14	Wed 9/17/14	2179

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ID	Task Name	Duration	Start	Finish	Predecessors
2181	Prepare Response to Agency Comments and Internal Final USCG Post-Construction Summary Report	33 edays	Wed 9/17/14	Mon 10/20/14	2180
2182	Navy Review Internal Final USCG Post-Construction Summary Report	14 edays	Mon 10/20/14	Mon 11/3/14	2181
2183	Final USCG Post-Construction Summary Report	14 edays	Mon 11/3/14	Mon 11/17/14	2182
2184	Site USCG Closure Received Water Board Concurrence Letter	15 edays	Mon 11/17/14	Tue 12/2/14	2183
2185	YF3	1539 days	Tue 4/5/11	Mon 6/22/15	
2186	YF3 ADDITIONAL INVESTIGATION	510 days	Tue 4/5/11	Mon 8/27/12	
2187	Navy to Award Contract for Additional Investigation and Reporting	55 edays	Tue 4/5/11	Mon 5/30/11	
2188	YF3 Additional Investigation Work Plan	268 days	Mon 5/30/11	Wed 2/22/12	
2189	Prepare Internal Draft YF3 Additional Investigation Work Plan	57 edays	Mon 5/30/11	Tue 7/26/11	2187
2190	Navy Review Internal Draft YF3 Additional Investigation Work Plan	30 edays	Tue 7/26/11	Thu 8/25/11	2189
2191	Prepare Draft YF3 Additional Investigation Work Plan	111 edays	Thu 8/25/11	Wed 12/14/11	2190
2192	Agency Review Draft YF3 Additional Investigation Work Plan	30 edays	Wed 12/14/11	Fri 1/13/12	2191
2193	Prepare Response to Agency Comments and Internal Final YF3 Additional Investigation Work Plan	33 edays	Fri 1/13/12	Wed 2/15/12	2192
2194	Navy Review Internal Final YF3 Additional Investigation Work Plan	4 edays	Wed 2/15/12	Sun 2/19/12	2193
2195	Prepare Final YF3 Additional Investigation Work Plan	3 edays	Sun 2/19/12	Wed 2/22/12	2194
2196	YF3 Additional Investigation Field Work and Sample Analysis	45 edays	Wed 2/22/12	Sat 4/7/12	2195
2197	Prepare YF3 Additional Investigation Summary Report	142 days	Sat 4/7/12	Mon 8/27/12	
2198	Prepare Internal Draft YF3 Additional Investigation Summary Report	30 edays	Sat 4/7/12	Mon 5/7/12	2196
2199	Navy Review Internal Draft YF3 Additional Investigation Summary Report	14 edays	Mon 5/7/12	Mon 5/21/12	2198
2200	Prepare Draft YF3 Additional Investigation Summary Report	7 edays	Mon 5/21/12	Mon 5/28/12	2199
2201	Agency Review Draft YF3 Additional Investigation Summary Report	30 edays	Mon 5/28/12	Wed 6/27/12	2200
2202	Prepare Response to Agency Comments and Internal Final YF3 Additional Investigation Summary Report	33 edays	Wed 6/27/12	Mon 7/30/12	2201
2203	Navy Review Internal Final YF3 Additional Investigation Summary Report	14 edays	Mon 7/30/12	Mon 8/13/12	2202
2204	Prepare Final YF3 Additional Investigation Summary Report	14 edays	Mon 8/13/12	Mon 8/27/12	2203
2205	YF3 CAP Addendum	202 days	Mon 12/30/13	Sun 7/20/14	
2206	Navy to award funding for YF3 CAP Addendum	60 edays	Mon 12/30/13	Fri 2/28/14	
2207	Prepare Internal Draft YF3 CAP Addendum	30 edays	Fri 2/28/14	Sun 3/30/14	2206
2208	Navy Review Internal Draft YF3 CAP Addendum	14 edays	Sun 3/30/14	Sun 4/13/14	2207
2209	Prepare Draft YF3 CAP Addendum	7 edays	Sun 4/13/14	Sun 4/20/14	2208
2210	Agency Review Draft YF3 CAP Addendum	30 edays	Sun 4/20/14	Tue 5/20/14	2209
2211	Prepare Response to Agency Comments and Internal Final YF3 CAP Addendum	33 edays	Tue 5/20/14	Sun 6/22/14	2210
2212	Navy Review Internal Final YF3 CAP Addendum	14 edays	Sun 6/22/14	Sun 7/6/14	2211
2213	Prepare Final YF3 CAP Addendum	14 edays	Sun 7/6/14	Sun 7/20/14	2212

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ID	Task Name	Duration	Start	Finish	Predecessors
2214	CAP Addendum Implementation	180 days	Sun 7/20/14	Fri 1/16/15	
2215	Navy to award funding for YF3 CAP implementation	60 edays	Sun 7/20/14	Thu 9/18/14	2213
2216	CAP Addendum Implementation	120 edays	Thu 9/18/14	Fri 1/16/15	2215
2217	YF3 Post-Construction Summary Report	142 days	Fri 1/16/15	Sun 6/7/15	
2218	Internal Draft YF3 Post-Construction Summary Report	30 edays	Fri 1/16/15	Sun 2/15/15	2216
2219	Navy Review of Internal Draft YF3 Post-Construction Summary Report	14 edays	Sun 2/15/15	Sun 3/1/15	2218
2220	Draft YF3 Post-Construction Summary Report	7 edays	Sun 3/1/15	Sun 3/8/15	2219
2221	Agency Review of Draft YF3 Post-Construction Summary Report	30 edays	Sun 3/8/15	Tue 4/7/15	2220
2222	Prepare Response to Agency Comments and Internal Final YF3 Post-Construction Summary Report	33 edays	Tue 4/7/15	Sun 5/10/15	2221
2223	Navy Review Internal Final YF3 Post-Construction Summary Report	14 edays	Sun 5/10/15	Sun 5/24/15	2222
2224	Final YF3 Post-Construction Summary Report	14 edays	Sun 5/24/15	Sun 6/7/15	2223
2225	Site YF3 Closure Received Water Board Concurrence Letter	15 edays	Sun 6/7/15	Mon 6/22/15	2224

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID		Task Name	Duration	Start	Finish	Predecessors
2226		USTs	3748 days	Sun 5/25/03	Sat 3/8/14	
2227		Tanks 204A and 204B (YBI) Removal	86 days	Sun 5/25/03	Wed 9/24/03	
2236		USTs 237/238 & 204 A-D Post-Construction Summary Report	130 days	Sun 11/23/03	Mon 5/24/04	
2243	 	Site USTs 237, 204A-D Closure Received Water Board Concurrence Letter	2227 edays	Sun 1/11/04	Mon 2/15/10	2242
2244		USTs 140, 221, & 230 Post-Construction Summary Report	87 days	Sun 1/11/04	Tue 5/11/04	
2251	 	Site USTs 140, 221, & 230 Closure Received Water Board Concurrence Letter	37 edays	Tue 5/11/04	Thu 6/17/04	2250
2252	 	UST 238 (Additional investigation pending Caltrans project completion)	158 edays	Tue 10/1/13	Sat 3/8/14	

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ID		Task Name	Duration	Start	Finish	Predecessors
2253		COMPLIANCE PROGRAM	3248 days	Mon 9/1/03	Mon 12/31/12	
2254		POLYCHLORINATED BIPHENYLS (PCBs)	2710 days	Mon 9/1/03	Wed 7/13/11	
2255		PCB EQUIPMENT	2710 days	Mon 9/1/03	Wed 7/13/11	
2256		Historical Records Review Results	1 day	Tue 9/2/03	Tue 9/2/03	
2257		Site Survey	31 days	Mon 9/1/03	Tue 10/14/03	
2263		PCB Sampling and Analysis Plan (FOST Area)	109 days	Fri 12/5/03	Thu 5/6/04	
2272		PCB Sampling (FOST Area)	79 days	Fri 4/30/04	Tue 8/17/04	
2281		PCB Summary Report (FOST and FOSET Areas)	1264 days	Mon 5/24/04	Fri 2/1/08	
2299		PCB Sampling and Analysis Plan (FOSET Area)	139 days	Thu 12/29/05	Tue 5/16/06	
2308		PCB Sampling (FOSET Area)	74 days	Tue 5/16/06	Sun 7/30/06	
2317		PCB Work Plan	352 days	Tue 12/19/06	Wed 12/5/07	
2326		PCB Field Work	153 days	Mon 12/17/07	Sun 5/18/08	
2329		PCB Field Activity Report (FAR)	247 days	Sat 7/5/08	Mon 3/9/09	
2337		PCB Soil Abatement T111/Site 32 Work Plan	313 days	Fri 8/8/08	Wed 6/17/09	
2346	 	PCB Soil Abatement T111/Site 32 Field Work	284 edays	Wed 6/17/09	Sun 3/28/10	2345
2347		T111/Site 32 Post Construction Summary Report (PCSR) for Soil Removal	442 days	Tue 4/27/10	Wed 7/13/11	

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ID		Task Name	Duration	Start	Finish	Predecessors
2355		RESIDENTIAL LEAD-BASED PAINT (LBP)	3192 days	Tue 11/18/03	Mon 12/31/12	
2356		YBI Residential Lead-Based Paint Reevaluation (2004)	134 days	Wed 3/24/04	Mon 9/27/04	
2365		YBI Lead-Based Paint in Soil (2005)	420 days	Tue 11/18/03	Mon 5/30/05	
2386		YBI Residences Lead-Based Paint Reevaluation (2006)	365 days	Tue 11/1/05	Wed 11/1/06	
2396	 	TI Residences Lead-Based Paint Reevaluation (2008/2009)	959 days	Thu 7/24/08	Wed 3/9/11	
2404		TI and YBI Residences Lead-Based Paint Reevaluation (within one year of transfer, if needed)	363 days	Tue 1/3/12	Mon 12/31/12	
2405		Navy to Award Contract for LBP Reevaluation	60 edays	Tue 1/3/12	Sat 3/3/12	2403FS+300 edays
2406		Final LBP Reevaluation Work plan	100 edays	Sat 3/3/12	Mon 6/11/12	2405
2407		Fieldwork for LBP Reevaluation	30 edays	Mon 6/11/12	Wed 7/11/12	2406
2408		Lab Analysis and Data Evaluation of LBP Reevaluation Data	60 edays	Wed 7/11/12	Sun 9/9/12	2407
2409		Internal Draft LBP Reevaluation Summary Report	45 edays	Sun 9/9/12	Wed 10/24/12	2408
2410		Navy Review Internal Draft LBP Reevaluation Summary Report	14 edays	Wed 10/24/12	Wed 11/7/12	2409
2411		Internal Final LBP Reevaluation Summary Report	14 edays	Wed 11/7/12	Wed 11/21/12	2410
2412		Navy Review of Internal Final LBP Reevaluation Summary Report	7 edays	Wed 11/21/12	Wed 11/28/12	2411
2413		Final LBP Reevaluation Summary Report	33 edays	Wed 11/28/12	Mon 12/31/12	2412

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
2414	RADIOLOGICAL PROGRAM	3052 days	Sat 4/17/04	Wed 11/28/12	
2415	Building 233 and Vicinity	3052 days	Sat 4/17/04	Wed 11/28/12	
2416	✓ Building 233 Asbestos Abatement and RAD Removal	924 days	Sat 4/17/04	Wed 1/31/07	
2439	✓ Final Status Survey of Building 233	1080 days	Sun 7/18/04	Mon 9/10/07	
2456	✓ Building 233 Demolition Work Plan	192 days	Tue 1/12/10	Fri 7/23/10	
2460	✓ Building 233 Pre-Demolition Survey	104 edays	Fri 7/23/10	Thu 11/4/10	2459
2461	✓ Building 233 Demolition	31 edays	Mon 12/6/10	Thu 1/6/11	2460FS+14 edays
2462	Building 233 Footprint Characterization, Remediation, and Final Status Survey Work Plan	542 days	Tue 6/29/10	Thu 12/22/11	
2463	✓ Prepare Internal Draft Building 233 Footprint and Vicinity Final Status Survey Work Plan	63 edays	Tue 6/29/10	Tue 8/31/10	
2464	✓ Navy BRAC Review Internal Draft Building 233 Footprint and Vicinity Final Status Survey Work Plan	20 edays	Tue 8/31/10	Mon 9/20/10	2463
2465	✓ Prepare Revised Internal Draft Building 233 Footprint and Vicinity Final Status Survey	21 edays	Mon 9/20/10	Mon 10/11/10	2464
2466	✓ Navy RASO Review Internal Draft Building 233 Footprint and Vicinity Final Status Survey	332 edays	Tue 10/12/10	Fri 9/9/11	2465
2467	✓ Prepare Draft Building 233 Footprint and Vicinity Final Status Survey Work Plan	42 edays	Fri 9/9/11	Fri 10/21/11	2466
2468	✓ Agency Review Draft Building 233 Footprint and Vicinity Final Status Survey Work Plan	28 edays	Fri 10/21/11	Fri 11/18/11	2467
2469	✓ Prepare Preliminary Responses to Agency Comments on Draft Building 233 Footprint and Vicinity Final	7 edays	Fri 11/18/11	Fri 11/25/11	2468
2470	Prepare Internal Final Building 233 Footprint and Vicinity Final Status Survey Work Plan	7 edays	Fri 11/25/11	Fri 12/2/11	2469
2471	Navy Review Internal Final Building 233 Footprint and Vicinity Final Status Survey Work Plan	13 edays	Fri 12/2/11	Thu 12/15/11	2470
2472	Prepare Final Building 233 Footprint and Vicinity Final Status Survey Work Plan	7 edays	Thu 12/15/11	Thu 12/22/11	2471
2473	Building 233 Footprint Characterization, Remediation, and Final Status Survey Field Work	120 edays	Tue 12/27/11	Wed 4/25/12	2472FS+5 edays
2474	 Building 233 Characterization, Remediation, and Final Status Survey Report	216 days	Thu 4/26/12	Wed 11/28/12	
2475	 Prepare Internal Draft Building 233 Footprint Final Status Survey Report	43 edays	Thu 4/26/12	Fri 6/8/12	2473FS+1 eday
2476	Navy BRAC Review Internal Draft Building 233 Footprint Final Status Survey Report	21 edays	Fri 6/8/12	Fri 6/29/12	2475
2477	Prepare Revised Internal Draft Building 233 Footprint Final Status Survey	12 edays	Sat 6/30/12	Thu 7/12/12	2476FS+1 eday
2478	Navy RASO Review Internal Draft Building 233 Footprint Final Status Survey	20 edays	Fri 7/13/12	Thu 8/2/12	2477FS+1 eday
2479	Prepare Draft Building 233 Footprint Final Status Survey Report	21 edays	Fri 8/3/12	Fri 8/24/12	2478FS+1 eday
2480	Agency Review Draft Building 233 Footprint Final Status Survey Report	14 edays	Sat 8/25/12	Sat 9/8/12	2479FS+1 eday
2481	Prepare Preliminary Responses to Agency Comments on Draft Building 233 Footprint Final Status Survey Report	10 edays	Sun 9/9/12	Wed 9/19/12	2480FS+1 eday
2482	Prepare Internal Final Building 233 Footprint Final Status Survey Report	10 edays	Wed 9/19/12	Sat 9/29/12	2481
2483	Navy Review Internal Final Building 233 Footprint Final Status Survey Report	3 edays	Sat 9/29/12	Tue 10/2/12	2482
2484	 Prepare Final Building 233 Footprint Final Status Survey Report	4 edays	Tue 10/2/12	Sat 10/6/12	2483
2485	CDPH Concurrence Letter for Free Release	51 edays	Mon 10/8/12	Wed 11/28/12	2484FS+2 edays
2486	 Building 233 Site Completion	0 edays	Wed 11/28/12	Wed 11/28/12	2485
2487	✓ Historical Radiological Assessment (HRA)	514 days	Sat 7/3/04	Fri 2/10/06	

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
December 2011**

ID		Task Name	Duration	Start	Finish	Predecessors
2500		Further Radiological Investigation Areas (Site 12 SWDAs; Bldg 343, Bldg 344; and Sanitary Sewer and Drainage System at Bldg 233)	305 days	Mon 10/16/06	Fri 8/17/07	
2510		Further Radiological Investigation Field Activities for Buildings 233, 343, 344	423 edays	Tue 9/4/07	Fri 10/31/08	
2511		Summary Report of Further Radiological Investigation for Buildings 233, 343, 344	401 days	Thu 9/27/07	Fri 10/31/08	
2536		HRA Supplemental Technical Memorandum for TI	251 days	Thu 10/27/11	Wed 7/4/12	
2537		Prepare Internal Draft TI HRA Tech Memo	95 edays	Thu 10/27/11	Mon 1/30/12	
2538		Navy BRAC/RASO Review Internal Draft TI HRA Tech Memo	30 edays	Mon 1/30/12	Wed 2/29/12	2537
2539		Prepare Draft TI HRA Tech Memo	14 edays	Wed 2/29/12	Wed 3/14/12	2538
2540		Agency Review Draft TI HRA Tech Memo	30 edays	Wed 3/14/12	Fri 4/13/12	2539
2541		Prepare Reponses to Agency Comments on Draft TI HRA Tech Memo	28 edays	Fri 4/13/12	Fri 5/11/12	2540
2542		Prepare Internal Final TI HRA Tech Memo	30 edays	Fri 5/11/12	Sun 6/10/12	2541
2543		Navy Review Internal Final TI HRA Tech Memo	10 edays	Sun 6/10/12	Wed 6/20/12	2542
2544		Final TI HRA Tech Memo	14 edays	Wed 6/20/12	Wed 7/4/12	2543

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID		Task Name	Duration	Start	Finish	Predecessors
2545		ASBESTOS-CONTAINING MATERIAL PROGRAM	1621 days	Thu 7/24/08	Mon 12/31/12	
2546		Basewide Asbestos Survey and Abatement (2009)	959 days	Thu 7/24/08	Wed 3/9/11	
2554		Basewide Asbestos Survey and Abatement (within one year of transfer, if needed)	363 days	Tue 1/3/12	Mon 12/31/12	
2555		Navy to Award Contract for Basewide Asbestos Survey and Abatement	60 edays	Tue 1/3/12	Sat 3/3/12	
2556		Final Basewide Asbestos Survey and Abatement Work plan	100 edays	Sat 3/3/12	Mon 6/11/12	2555
2557		Fieldwork for Basewide Asbestos Survey and Abatement	30 edays	Mon 6/11/12	Wed 7/11/12	2556
2558		Lab Analysis and Data Evaluation of Basewide Asbestos Survey and Abatement Data	60 edays	Wed 7/11/12	Sun 9/9/12	2557
2559		Internal Draft Basewide Asbestos Survey and Abatement Summary Report	45 edays	Sun 9/9/12	Wed 10/24/12	2558
2560		Navy review Internal Draft Basewide Asbestos Survey and Abatement Summary Report	14 edays	Wed 10/24/12	Wed 11/7/12	2559
2561		Internal Final Basewide Asbestos Survey and Abatement Summary Report	14 edays	Wed 11/7/12	Wed 11/21/12	2560
2562		Navy review of Internal Final Basewide Asbestos Survey and Abatement Summary Report	7 edays	Wed 11/21/12	Wed 11/28/12	2561
2563		Final Basewide Asbestos Survey and Abatement Summary Report	33 edays	Wed 11/28/12	Mon 12/31/12	2562

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
2564	BASEWIDE TASKS	4024 days	Mon 9/1/03	Sun 2/15/15	
2565	GROUNDWATER MONITORING PROGRAM	2762 days	Thu 1/11/07	Sun 8/3/14	
2566	✓ 2006 Groundwater Status Report Site 12	377 days	Thu 1/11/07	Wed 1/23/08	
2574	✓ 2006 Groundwater Status Report Sites 6A and 25	438 days	Sun 2/11/07	Thu 4/24/08	
2582	✓ 2007 Groundwater Status Report Site 12	288 days	Mon 3/24/08	Tue 1/6/09	
2590	✓ 2007 Groundwater Status Report Sites 6 and 25	289 days	Mon 3/24/08	Wed 1/7/09	
2598	✓ 2008 Basewide Groundwater Monitoring Program Sampling and Analysis Plan (SAP)	212 days	Sat 6/14/08	Mon 1/12/09	
2607	✓ 2008 Groundwater Status Report Sites 6 and 12	348 days	Thu 3/19/09	Tue 3/2/10	
2615	✓ 2009 Annual Groundwater Status Report Sites 6 and 12	291 days	Mon 1/4/10	Thu 10/21/10	
2623	✓ 2010 Sites 6 and 12 Quarterly Groundwater Monitoring	586 days	Sat 1/23/10	Wed 8/31/11	
2637	2011 Sites 6 and 12 Groundwater Monitoring	572 days	Fri 10/1/10	Tue 4/24/12	
2638	✓ Navy to contract Groundwater Monitoring for Sites 6 and 12	60 edays	Fri 10/1/10	Tue 11/30/10	
2639	✓ 2011 Groundwater Monitoring for Sites 6 and 12	296 days	Thu 2/24/11	Fri 12/16/11	
2644	2011 Annual Groundwater Monitoring Report for Sites 6 and 12	130 days	Fri 12/16/11	Tue 4/24/12	
2645	Prepare Internal Draft Annual Groundwater Monitoring Report for Sites 6 and 12	30 edays	Fri 12/16/11	Sun 1/15/12	2643
2646	Navy Review Internal Draft Annual Groundwater Monitoring Report for Sites 6 and 12	14 edays	Sun 1/15/12	Sun 1/29/12	2645
2647	Prepare Draft Annual Groundwater Monitoring Report for Sites 6 and 12	7 edays	Sun 1/29/12	Sun 2/5/12	2646
2648	BCT Review Draft Annual Groundwater Monitoring Report for Sites 6 and 12	30 edays	Sun 2/5/12	Tue 3/6/12	2647
2649	Prepare Internal Final Annual Groundwater Monitoring Report for Sites 6 and 12	21 edays	Tue 3/6/12	Tue 3/27/12	2648
2650	Navy Review Internal Final Quarterly Groundwater Monitoring Work Plan for Sites 6 and 12	14 edays	Tue 3/27/12	Tue 4/10/12	2649
2651	Prepare Final Annual Groundwater Monitoring Report for Sites 6 and 12	14 edays	Tue 4/10/12	Tue 4/24/12	2650
2652	2011 Sites 21, 24, and 32 Quarterly Groundwater Monitoring	649 days	Tue 9/14/10	Sat 6/23/12	
2653	✓ Quarterly Groundwater Monitoring Work Plan for Sites 21, 24, and 32	171 days	Tue 9/14/10	Fri 3/4/11	
2661	2011 Quarterly Groundwater Monitoring for Sites 21, 24, and 32	313 days	Wed 3/9/11	Sun 1/15/12	
2662	✓ First Quarter Groundwater Monitoring Sites 21, 24, and 32	27 edays	Wed 3/9/11	Tue 4/5/11	2660
2663	✓ Second Quarter Groundwater Monitoring Sites 21, 24, and 32	17 edays	Mon 6/27/11	Thu 7/14/11	2662FS+90 days
2664	✓ Third Quarter Groundwater Monitoring Sites 21, 24, and 32	17 edays	Mon 10/3/11	Thu 10/20/11	2663SS+99 days
2665	Fourth Quarter Groundwater Monitoring Sites 21, 24, and 32, and First Quarter Site 24	14 edays	Sun 1/1/12	Sun 1/15/12	2664SS+90 days
2666	2011 Annual Groundwater Monitoring Report for Sites 21, 24, and 32	130 days	Tue 2/14/12	Sat 6/23/12	
2667	Prepare Internal Draft Annual Groundwater Monitoring Report for Sites 21, 24, and 32	30 edays	Tue 2/14/12	Thu 3/15/12	2665FS+30 days
2668	Navy Review Internal Draft Annual Groundwater Monitoring Report for Sites 21, 24, and 32	14 edays	Thu 3/15/12	Thu 3/29/12	2667
2669	Prepare Draft Annual Groundwater Monitoring Report for Sites 21, 24, and 32	7 edays	Thu 3/29/12	Thu 4/5/12	2668
2670	BCT Review Draft Annual Groundwater Monitoring Report for Sites 21, 24, and 32	30 edays	Thu 4/5/12	Sat 5/5/12	2669

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
December 2011**

ID	Task Name	Duration	Start	Finish	Predecessors
2671	Prepare Internal Final Annual Groundwater Monitoring Report for Sites 21, 24, and 32	21 edays	Sat 5/5/12	Sat 5/26/12	2670
2672	Navy Review Internal Final Quarterly Groundwater Monitoring Work Plan for Sites 21, 24, and 32	14 edays	Sat 5/26/12	Sat 6/9/12	2671
2673	Prepare Final Annual Groundwater Monitoring Report for Sites 21, 24, and 32	14 edays	Sat 6/9/12	Sat 6/23/12	2672
2674	2012 Sites 6 and 12 Groundwater Monitoring	467 days	Mon 2/13/12	Fri 5/24/13	
2675	2012 Groundwater Monitoring for Sites 6 and 12	277 days	Mon 2/13/12	Thu 11/15/12	
2676	First Quarter Groundwater Monitoring Site 6	7 edays	Mon 2/13/12	Mon 2/20/12	
2677	Second Quarter Groundwater Monitoring Site 6 / Semiannual Monitoring Site 12	7 edays	Sat 5/12/12	Sat 5/19/12	2676SS+90 days
2678	Third Quarter Groundwater Monitoring Site 6	7 edays	Fri 8/10/12	Fri 8/17/12	2677SS+90 days
2679	Fourth Quarter Groundwater Monitoring Site 6 / Semiannual Monitoring Site 12	7 edays	Thu 11/8/12	Thu 11/15/12	2678SS+90 days
2680	2012 Annual Groundwater Monitoring Report for Sites 6 and 12	160 days	Sat 12/15/12	Fri 5/24/13	
2681	Prepare Internal Draft Annual Groundwater Monitoring Report for Sites 6 and 12	60 edays	Sat 12/15/12	Wed 2/13/13	2679FS+30 edays
2682	Navy Review Internal Draft Annual Groundwater Monitoring Report for Sites 6 and 12	14 edays	Wed 2/13/13	Wed 2/27/13	2681
2683	Prepare Draft Annual Groundwater Monitoring Report for Sites 6 and 12	7 edays	Wed 2/27/13	Wed 3/6/13	2682
2684	BCT Review Draft Annual Groundwater Monitoring Report for Sites 6 and 12	30 edays	Wed 3/6/13	Fri 4/5/13	2683
2685	Prepare Internal Final Annual Groundwater Monitoring Report for Sites 6 and 12	21 edays	Fri 4/5/13	Fri 4/26/13	2684
2686	Navy Review Internal Final Quarterly Groundwater Monitoring Work Plan for Sites 6 and 12	14 edays	Fri 4/26/13	Fri 5/10/13	2685
2687	Prepare Final Annual Groundwater Monitoring Report for Sites 6 and 12	14 edays	Fri 5/10/13	Fri 5/24/13	2686
2688	2012 Sites 21, 24, and 32 Quarterly Groundwater Monitoring	474 days	Mon 2/13/12	Fri 5/31/13	
2689	2012 Quarterly Groundwater Monitoring for Sites 21, 24, and 32	284 days	Mon 2/13/12	Thu 11/22/12	
2690	First Quarter Groundwater Monitoring Sites 21, 24, and 32	14 edays	Mon 2/13/12	Mon 2/27/12	
2691	Second Quarter Groundwater Monitoring Sites 21, 24, and 32	14 edays	Sat 5/12/12	Sat 5/26/12	2690SS+90 days
2692	Third Quarter Groundwater Monitoring Sites 21, 24, and 32	14 edays	Fri 8/10/12	Fri 8/24/12	2691SS+90 days
2693	Fourth Quarter Groundwater Monitoring Sites 21, 24, and 32, and First Quarter Site 24	14 edays	Thu 11/8/12	Thu 11/22/12	2692SS+90 days
2694	2012 Annual Groundwater Monitoring Report for Sites 21, 24, and 32	160 days	Sat 12/22/12	Fri 5/31/13	
2695	Prepare Internal Draft Annual Groundwater Monitoring Report for Sites 21, 24, and 32	60 edays	Sat 12/22/12	Wed 2/20/13	2693FS+30 edays
2696	Navy Review Internal Draft Annual Groundwater Monitoring Report for Sites 21, 24, and 32	14 edays	Wed 2/20/13	Wed 3/6/13	2695
2697	Prepare Draft Annual Groundwater Monitoring Report for Sites 21, 24, and 32	7 edays	Wed 3/6/13	Wed 3/13/13	2696
2698	BCT Review Draft Annual Groundwater Monitoring Report for Sites 21, 24, and 32	30 edays	Wed 3/13/13	Fri 4/12/13	2697
2699	Prepare Internal Final Annual Groundwater Monitoring Report for Sites 21, 24, and 32	21 edays	Fri 4/12/13	Fri 5/3/13	2698
2700	Navy Review Internal Final Quarterly Groundwater Monitoring Work Plan for Sites 21, 24, and 32	14 edays	Fri 5/3/13	Fri 5/17/13	2699
2701	Prepare Final Annual Groundwater Monitoring Report for Sites 21, 24, and 32	14 edays	Fri 5/17/13	Fri 5/31/13	2700
2702	2013 Sites 6, 12, 21, 24, 32 Quarterly Groundwater Monitoring	1099 days	Mon 8/1/11	Sun 8/3/14	

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
December 2011**

ID	Task Name	Duration	Start	Finish	Predecessors
2725	REGULATORY INTERACTION SUPPORT	2796 days	Sun 4/8/07	Wed 12/3/14	
2726	SITE MANAGEMENT PLAN (ANNUAL UPDATES)	2334 days	Sun 4/8/07	Wed 8/28/13	
2727	Site Management Plan (2007 Annual Update)	257 days	Sun 4/8/07	Fri 12/21/07	
2738	Site Management Plan (2008 Annual Update)	205 days	Tue 5/6/08	Thu 11/27/08	
2749	Site Management Plan (2009 Annual Update)	511 days	Tue 5/6/08	Tue 9/29/09	
2759	Site Management Plan (2010 Annual Update)	270 days	Tue 2/2/10	Fri 10/29/10	
2768	Site Management Plan (2011 Annual Update)	311 days	Sun 2/20/11	Wed 12/28/11	
2777	Site Management Plan (2012 Annual Update)	189 days	Mon 2/20/12	Mon 8/27/12	
2778	Prepare Internal Draft Site Management Plan	35 edays	Mon 2/20/12	Mon 3/26/12	
2779	Navy Review Internal Draft Site Management Plan	35 edays	Mon 3/26/12	Mon 4/30/12	2778
2780	Incorporate Navy Review Comments for Draft Site Management Plan	7 edays	Mon 4/30/12	Mon 5/7/12	2779
2781	BCT Review Draft Site Management Plan	30 edays	Mon 5/7/12	Wed 6/6/12	2780
2782	Prepare Preliminary RTCs on Draft Site Management Plan	21 edays	Wed 6/6/12	Wed 6/27/12	2781
2783	Prepare Internal Final Site Management Plan	36 edays	Wed 6/27/12	Thu 8/2/12	2782
2784	Navy Review Internal Final Site Management Plan	11 edays	Thu 8/2/12	Mon 8/13/12	2783
2785	Prepare Final Site Management Plan	14 edays	Mon 8/13/12	Mon 8/27/12	2784
2786	Site Management Plan (2013 Annual Update)	189 days	Wed 2/20/13	Wed 8/28/13	
2795	Site Management Plan (2014 Annual Update)	189 days	Wed 2/20/13	Wed 8/28/13	
2804	BCT MEETINGS/MINUTES	2521 days	Tue 1/8/08	Wed 12/3/14	
2805	BCT Meetings 2008	331 days	Tue 1/8/08	Wed 12/3/08	
2818	BCT Meetings 2009	329 days	Wed 1/7/09	Wed 12/2/09	
2831	BCT Meetings 2010	329 days	Wed 1/6/10	Wed 12/1/10	
2844	BCT Meetings 2011	336 days	Wed 1/5/11	Wed 12/7/11	
2845	BCT Meeting #1	0 edays	Wed 1/5/11	Wed 1/5/11	
2846	BCT Meeting #2	0 edays	Wed 2/2/11	Wed 2/2/11	
2847	BCT Meeting #3	0 edays	Wed 3/2/11	Wed 3/2/11	
2848	BCT Meeting #4	0 edays	Wed 4/6/11	Wed 4/6/11	
2849	BCT Meeting #5	0 edays	Wed 5/4/11	Wed 5/4/11	
2850	BCT Meeting #6	0 edays	Wed 6/1/11	Wed 6/1/11	
2851	BCT Meeting #7	0 edays	Wed 7/6/11	Wed 7/6/11	
2852	BCT Meeting #8	0 edays	Wed 8/3/11	Wed 8/3/11	
2853	BCT Meeting #9	0 edays	Wed 9/7/11	Wed 9/7/11	
2854	BCT Meeting #10	0 edays	Wed 10/5/11	Wed 10/5/11	

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
2855	✓ BCT Meeting #11	0 edays	Wed 11/2/11	Wed 11/2/11	
2856	✓ BCT Meeting #12	0 edays	Wed 12/7/11	Wed 12/7/11	
2857	BCT Meetings 2012	336 days	Wed 1/4/12	Wed 12/5/12	
2870	BCT Meetings 2013	336 days	Wed 1/2/13	Wed 12/4/13	
2883	BCT Meetings 2014	336 days	Wed 1/1/14	Wed 12/3/14	
2896	COMMUNITY RELATIONS PROGRAM	2860 days	Thu 4/19/07	Sun 2/15/15	
2897	✓ COMMUNITY RELATIONS PLAN (2007/2008)	309 days	Thu 7/26/07	Fri 5/30/08	
2908	RAB MEETINGS/MINUTES	2128 days	Tue 2/17/09	Tue 12/16/14	
2909	✓ RAB Meetings/Minutes 2009	302 days	Tue 2/17/09	Tue 12/15/09	
2916	✓ RAB Meetings/Minutes 2010	308 days	Tue 2/16/10	Tue 12/21/10	
2923	✓ RAB Meetings/Minutes 2011	301 days	Tue 2/15/11	Tue 12/13/11	
2924	✓ RAB Meeting #1	0 edays	Tue 2/15/11	Tue 2/15/11	
2925	✓ RAB Meeting #2	0 edays	Tue 4/19/11	Tue 4/19/11	
2926	✓ RAB Meeting #3	0 edays	Tue 6/21/11	Tue 6/21/11	
2927	✓ RAB Meeting #4	0 edays	Tue 8/16/11	Tue 8/16/11	
2928	✓ RAB Meeting #5	0 edays	Tue 10/18/11	Tue 10/18/11	
2929	✓ RAB Meeting #6	0 edays	Tue 12/13/11	Tue 12/13/11	
2930	RAB Meetings/Minutes 2012	301 days	Tue 2/21/12	Tue 12/18/12	
2935	RAB Meetings/Minutes 2013	273 days	Tue 3/19/13	Tue 12/17/13	
2940	RAB Meetings/Minutes 2014	273 days	Tue 3/18/14	Tue 12/16/14	
2945	TI TIMES	2860 days	Thu 4/19/07	Sun 2/15/15	
2946	✓ TI Times #13 Spring/Summer 2007	130 days	Thu 4/19/07	Mon 8/27/07	
2954	✓ TI Times #14 Summer 2008	189 days	Fri 1/18/08	Fri 7/25/08	
2962	✓ TI Times #15 Winter 2009	191 days	Sun 11/2/08	Tue 5/12/09	
2970	✓ TI Times #16 Spring 2010	184 days	Wed 10/21/09	Fri 4/23/10	
2978	✓ TI Times #17 Summer 2011	368 days	Sat 7/17/10	Wed 7/20/11	
2986	TI Times #18 Winter 2011	124 days	Tue 10/18/11	Sun 2/19/12	
2987	Prepare Internal Draft TI Times #18	62 edays	Tue 10/18/11	Mon 12/19/11	2985FS+90 edays
2988	Navy Review Internal Draft TI Times #18	14 edays	Mon 12/19/11	Mon 1/2/12	2987
2989	Respond to Navy Comments and Prepare Draft TI Times #18	10 edays	Mon 1/2/12	Thu 1/12/12	2988
2990	BCT Review of Draft TI Times #18	14 edays	Thu 1/12/12	Thu 1/26/12	2989
2991	Respond to BCT Comments and Prepare Internal Final TI Times #18	10 edays	Thu 1/26/12	Sun 2/5/12	2990
2992	Navy Review Internal Final TI Times #18	7 edays	Sun 2/5/12	Sun 2/12/12	2991

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**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
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ID	Task Name	Duration	Start	Finish	Predecessors
2993	Prepare Final TI Times #18	7 edays	Sun 2/12/12	Sun 2/19/12	2992
2994	TI Times #19 Spring 2012	107 days	Sat 5/19/12	Mon 9/3/12	
3002	TI Times #20 Fall 2012	107 days	Fri 11/2/12	Sun 2/17/13	
3010	TI Times #21 Spring 2013	107 days	Sat 5/18/13	Mon 9/2/13	
3018	TI Times #22 Fall 2013	107 days	Fri 11/1/13	Sun 2/16/14	
3026	TI Times #23 Spring 2014	107 days	Sat 5/17/14	Mon 9/1/14	
3034	TI Times #24 Fall 2014	107 days	Fri 10/31/14	Sun 2/15/15	

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
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ID		Task Name	Duration	Start	Finish	Predecessors
3042		TRANSFER RELATED	3237 days	Mon 9/1/03	Fri 12/21/12	
3043	<input checked="" type="checkbox"/>	SEBS/FOST EXECUTION SCHEDULE	1207 days	Mon 9/1/03	Fri 6/1/07	
3187	<input checked="" type="checkbox"/>	FINAL SEBS	388 days	Fri 2/27/04	Fri 7/8/05	
3208	<input checked="" type="checkbox"/>	TREASURE ISLAND FOST (FOST 1)	624 days	Fri 2/27/04	Thu 3/2/06	
3222	<input checked="" type="checkbox"/>	YERBA BUENA ISLAND FOST (FOST 2)	716 days	Tue 11/18/03	Wed 3/22/06	
3267	<input checked="" type="checkbox"/>	SITE 27 BOUNDARY CHANGE TECHNICAL MEMORANDUM	139 days	Sat 4/3/10	Fri 8/20/10	
3275	<input checked="" type="checkbox"/>	SITE 29 BOUNDARY CHANGE TECHNICAL MEMORANDUM	274 days	Wed 3/24/10	Wed 12/22/10	
3283	<input checked="" type="checkbox"/>	SITE 29 ARTIFACTS BOUNDARY CHANGE TECHNICAL MEMORANDUM	98 days	Wed 9/21/11	Wed 12/28/11	
3291		FOST 3	723 days	Mon 1/11/10	Wed 1/4/12	
3292	<input checked="" type="checkbox"/>	Navy to award contract for FOST 3	52 edays	Mon 1/11/10	Thu 3/4/10	
3293	<input checked="" type="checkbox"/>	Prepare Internal Draft FOST 3	158 edays	Thu 3/4/10	Mon 8/9/10	3292
3294	<input checked="" type="checkbox"/>	Navy Review of Internal Draft FOST 3	24 edays	Mon 8/9/10	Thu 9/2/10	3293
3295	<input checked="" type="checkbox"/>	Respond to Navy Comments and Prepare Draft FOST 3	26 edays	Thu 9/2/10	Tue 9/28/10	3294
3296	<input checked="" type="checkbox"/>	Agency/Public Review of Draft FOST 3	36 edays	Tue 9/28/10	Wed 11/3/10	3295
3297	<input checked="" type="checkbox"/>	Prepare Preliminary RTCs for Draft FOST 3	35 edays	Wed 11/3/10	Wed 12/8/10	3296
3298	<input checked="" type="checkbox"/>	BCT Review of Preliminary RTCs on Draft FOST 3	28 edays	Wed 12/8/10	Wed 1/5/11	3297
3299	<input checked="" type="checkbox"/>	BCT Meeting to Discuss Preliminary RTCs on Draft FOST 3	0 edays	Wed 1/5/11	Wed 1/5/11	3298
3300	<input checked="" type="checkbox"/>	Incorporate comments from BCT on review of Draft RTCs and prepare Internal Final FOST 3	16 edays	Wed 1/5/11	Fri 1/21/11	3299
3301	<input checked="" type="checkbox"/>	Navy Review of Internal Final FOST 3	36 days	Fri 1/21/11	Wed 2/2/11	3300
3302	<input checked="" type="checkbox"/>	Incorporate comments from Navy on review of Internal Final FOST 3	270 edays	Wed 2/2/11	Sun 10/30/11	3301
3303	<input checked="" type="checkbox"/>	Revise Draft YBI FOST 3 for Navy Review	11 edays	Sun 10/30/11	Thu 11/10/11	3302
3304	<input checked="" type="checkbox"/>	Navy Review of Revised Draft YBI FOST 3	7 edays	Thu 11/10/11	Thu 11/17/11	3303
3305	<input checked="" type="checkbox"/>	Incorporate Comments from Navy on Revised Draft YBI FOST 3 and Submit to BCT	1 eday	Thu 11/17/11	Fri 11/18/11	3304
3306	<input checked="" type="checkbox"/>	BCT Review of Revised Draft YBI FOST 3	14 edays	Fri 11/18/11	Fri 12/2/11	3305
3307	<input checked="" type="checkbox"/>	Respond to BCT Comments and Prepare Internal Final YBI FOST 3	7 edays	Fri 12/2/11	Fri 12/9/11	3306
3308	<input checked="" type="checkbox"/>	Navy Review of Internal Final YBI FOST 3	3 edays	Fri 12/9/11	Mon 12/12/11	3307
3309		Respond to Navy Review Comments and Prepare Final YBI FOST 3	18 edays	Mon 12/12/11	Fri 12/30/11	3308
3310		Sign and Distribute Final YBI FOST 3	5 edays	Fri 12/30/11	Wed 1/4/12	3309
3311		Complete Legal Descriptions for YBI FOST 3 property	0 edays	Wed 1/4/12	Wed 1/4/12	3310
3312		FOSTs 1 AND 2 ADDENDUM (CANCELLED)	428 days	Mon 2/14/11	Mon 4/16/12	
3324		FOST 4	142 edays	Wed 8/1/12	Fri 12/21/12	

All start and finish dates on Saturday or Sunday default to the following business day.

APPENDIX C
RESPONSES TO COMMENTS

RESPONSE TO REGULATORY AGENCY COMMENTS ON THE DRAFT 2011 SITE MANAGEMENT PLAN, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

This document presents the Navy's responses to comments from the Department of Toxic Substances Control (DTSC); AMEC on behalf of the Treasure Island Development Authority (TIDA), and Terraphase Engineering Inc. (Terraphase), on the "*Draft 2011 Site Management Plan [SMP], Naval Station Treasure Island, San Francisco, California,*" dated April 2011. The comments addressed below were received via email from Remedios Sunga, DTSC, on May 2, 2011; Gary Foote, AMEC, on May 26, 2011; and William Carson, Terraphase, on June 9, 2011.

RESPONSES TO DTSC COMMENTS (VIA MS. SUNGA)

1. Comment: Figure 1 Table:

- a. Please reconcile with Site 9 COCs on Site Summary on Page A-9.**
- b. Please reconcile with Site 10 COCs on Site Summary on Page A-10.**
- c. Isn't PCB a COC at Site 17?**
- d. Site 29 COCs in the Site Summary on page A-27 includes SVOCs.**
- e. Please reconcile with Site 31 COCs on Site Summary on page A-31.**
- f. The removal action at Site 32 also addressed arsenic.**
- g. Please change to arsenic and lead per the Site 33 Site Summary on page A-35.**
- h. Site 26/UST Sites should be included (see Figure 3).**

Response:

- a. The chemicals of concern (COCs) listed for Site 9 in the table on [Figure 1](#) have been reconciled.
- b. The COCs listed for Site 10 in the table on [Figure 1](#) have been reconciled.
- c. Polychlorinated biphenyls (PCBs) were added to the COC list for Site 17 in the table on [Figure 1](#).
- d. Semivolatile organic compounds (SVOCs) have been added to COC list for Site 29 in the table on [Figure 1](#).
- e. The COCs listed for Site 31 in the table on [Figure 1](#) have been reconciled.
- f. Arsenic has been added as a COC for Site 32 to the table on [Figure 1](#) and the [Appendix A](#) Site Summary Sheet for Site 32.
- g. The COCs for Site 33 have been changed from metals to arsenic and lead in the table on [Figure 1](#).
- h. "Site 26" has been included in the table on [Figure 1](#).

2. **Comment:** **Figure 2 – CERCLA Program Site Strategy:**

- a. **CDPH will require a FSS/MARSSIM Survey at Site 6.**
- b. **Include arsenic treatability study.**
- c. **Depending on the results of the recent rad survey, CDPH may require a FSS/MARSSIM Survey at Site 31.**
- d. **PP/ROD are not needed for Site 33.**
- e. **RD/RA at Site 33 is a current activity.**

- Response:
- a. A Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) survey has been added as a step in the flow chart for Site 6 on [Figure 2](#).
 - b. Due to the co-existence of total petroleum hydrocarbons (TPH) and arsenic in the Building 1311/1313 area, the arsenic treatability study will not continue. Treatment of TPH and arsenic will be evaluated as part of the Site 12 Remedial Investigation (RI) and Feasibility Study (FS) reports. The arsenic treatability study will therefore not be included on [Figure 2](#).
 - c. The Navy is currently preparing the Phase II Soil Remediation Work Plan for both Sites 31 and 33 that includes radiological characterization and remediation procedures, which will be followed up by a gamma walk over survey.
 - d. The flow chart for Site 33 on [Figure 2](#) was revised to exclude a Proposed Plan/Record of Decision (PP/ROD) step.
 - e. The flow chart for Site 33 on [Figure 2](#) was revised to indicate remedial design/remedial action (RD/RA) as the current activity.

3. **Comment:** **Figure 4 – Timeline to Closure CERCLA Program:**

- a. **Include FSS/MARSIMM and SWDA Removal Action.**
- b. **The RI/FS for Site 24 on Figure 2 Flow Chart are separate activities.**
- c. **Include Time-Critical Removal Action.**

- Response:
- a. A “MARSSIM Survey” was added under Sites 6 and 12 on [Figure 4](#). A line item for the Solid Waste Disposal Area (SWDA) removal action already exists on [Figure 4](#).
 - b. The flow chart for Site 24 on [Figure 2](#) has been updated to show a combined RI/focused FS.
 - c. At this time, a time-critical removal action is not scheduled for Site 30 and therefore has not been included on the timeline to closure on [Figure 4](#).

4. **Comment:** **Figure 10 – 1996 Planned Reuse Areas, CERCLA and Petroleum Investigation Sites:** Please include the LUC areas or include a new figure.

Response: Site 30 is the only area that is currently undergoing land use control (LUC) inspections and therefore it was not included on Figure 10 and a new figure was not included in this version of the SMP.

5. **Comment:** **Site 8 Site Summary Sheet, Page A-8:** Please include an explanation of the significant delay in the schedule, i.e., bridge construction should be completed before CERCLA work can resume.

Response: An explanation of the delay was included above the aerial photo of Site 8.

6. **Comment:** **Site 11 Site Summary Sheet, Page A-12:** Please include an explanation of the significant delay in the schedule, i.e., bridge construction should be completed before CERCLA work can resume.

Response: An explanation of the delay was included above the aerial photo of Site 11.

7. **Comment:** **Site 12 Site Summary Sheet, Page A-13:** Please discuss the next CERCLA phase for the chemical contamination after the completion report and risk evaluation. Has the SWDA RI been completed?

Response: The text was updated to incorporate this request.

8. **Comment:** **Site 12 Site Summary Sheet, Page A-14:**

- a. Please clarify this statement. Was the EECA cancelled or discontinued? Wasn't the 2000-2001 removal action performed under this EECA.
- b. Please clarify this statement. The pilot study has been implemented and the results are being evaluated.
- c. Please specify that the RI Report does not include the SWDAs.

Response: a. The statement was clarified to read: *“After further evaluation, the Navy determined the proposed removal action would not significantly reduce the risk at Halyburton Court, and the Engineering Evaluation/Cost Analysis (EE/CA), specifically for Halyburton Court, was cancelled.”*

The 2000-2001 Halyburton Court removal activities were performed under the “Final Project Plans, Former Storage Yard Removal Action – PCB Contaminated Soil Removal Action, Halyburton Court Area,” dated December 20, 2001. The EE/CA referred to in the draft SMP would have been an additional evaluation for Halyburton Court.

- b. The statement was clarified to read: “A pilot scale treatability study was conducted while also addressing free product that was observed in the area. Review of historical drawings indicated former buildings in the area may have had associated underground storage tanks (USTs). Geophysical surveys performed in 2009 identified several anomalies. Groundwater wells have been installed and have been monitored for TPH. Soil gas sampling was conducted in November 2010 near Building 1313. Based on the presence of TPH with arsenic, the Navy ceased pilot study activities in 2011 and further action in this area will be addressed in an RI/FS.”
- c. The text has been updated to read: “The RI report for Site 12, excluding the SWDAs, is currently being prepared.”

9. **Comment:** Site 12 Site Summary Sheet, Page A-15: Status of arsenic pilot study and free product work should be included.

Response: The Navy ceased treatability study activities at Site 12 in 2011 and will consider further action in this area in an RI/FS; thus, the pilot study and free product investigation are not included in the current status for this site.

10. **Comment:** Site 21 Site Summary Sheet, Page A-17, Last Paragraph: At the request of the ~~Water Board~~, the Navy is conducting a soil gas investigation at the site. Replace “Water Board” with “BCT.”

Response: The text was revised as suggested.

11. **Comment:** Site 21 Site Summary Sheet, Page A-18: Is the Groundwater Monitoring still ongoing?

Response: The Navy is still conducting groundwater monitoring at Site 21; the current status was updated.

12. **Comment:** Site 24 Site Summary Sheet, Page A-20:

- a. **Please discuss the purpose or objectives of Phase III treatability study.**
- b. Last Paragraph: Delete ~~Water Board~~,

Response: a. The following statement was added to the Site 24 Site Summary Sheet in [Appendix A](#): “The purpose of the Phase III efforts is to promulgate the enhanced degradation of chlorinated ethenes in groundwater areas of low and medium concentrations to reduce or eliminate a continuing source for soil gas contamination, via a vapor intrusion pathway, and potentially reduce the need for LUCs.”

- b. “San Francisco Bay Regional Water Quality Control Board (Water Board)” was replaced with “Base Realignment and Closure Cleanup Team (BCT).”

13. **Comment:** **Site 28 Site Summary Sheet, Page A-24: Please discuss that the ROD requires a Tidelands Trust Exchange.**

Response: The following text has been added to the Site 28 Summary Sheet in [Appendix A](#): “Although Site 28 has a no further action (NFA) ROD and no LUCs will be included as part of the CERCLA remedy, use of the property will be restricted due to placement in the Tidelands Trust.”

14. **Comment:** **Site 29 Site Summary Sheet, Page A-26:**

- a. **An RI Addendum may be required when work resumes at Site 29. Please include a discussion on an RI Addendum similar to Sites 8 and 11.**
- b. **Please provide more information on the artifacts and explain why a tech memo will be prepared to exclude the artifacts.**

Response: a, b. The last paragraph was modified to read:

“The Navy finalized an interim RI report for Sites 8 and 29 in March 2009, and is discussing site closeout with Caltrans. The schedule in Appendix B is based on Caltrans’ quarterly schedule. After bridge construction is complete, an RI addendum will need to be prepared for the site. In December 2010, the Navy finalized a site boundary change technical memorandum to exclude the San Francisco-Oakland Bay Bridge (Bay Bridge) on/off-ramp in support of property transfer. In December 2011, the Navy finalized another site boundary change technical memorandum to exclude the three ‘artifacts’ from Site 29 in support of property transfer.”

15. **Comment:** **Site 29 Site Summary Sheet, Page A-27: Please include an explanation of the significant delay in the schedule, i.e., bridge construction should be completed before CERCLA work can resume.**

Response: See the Navy’s response to [DTSC Comments #5, #6, and #14](#).

16. **Comment:** **Site 30 Site Summary Sheet, Page A-28: Please discuss the land use covenant requirement in the ROD and the instrument that may be used, i.e., covenant to restrict use of property (CRUP) between the Navy and DTSC, or including the restrictions in the transfer deed.**

Response: As part of the remedy for Site 30, inspections of the site are required (as currently being conducted and scheduled through 2014) and land use controls may be implemented to restrict the use of property. The exact restriction(s) details at Site 30 are undetermined at this time and will be identified prior to property transfer.

17. Comment: Site 30 Site Summary Sheet, Page A-29:

- a. The COCs in Figure 1 includes lead and copper.**
- b. The current status of the CRUP should be included.**

Response: a. Metals were added as COCs for Site 30, as indicated in [Figure 1](#).

b. As noted above, the land use restriction(s) details for Site 30 have not yet been determined and therefore that status of the covenant to restrict use of property (CRUP) was not included at this time. It will be included in the Site 30 summary sheet in future SMP documents prior to property transfer.

18. Comment: Site 31 Site Summary Sheet, Page A-30: Please discuss the RAWP Addendum and the purposes of the Addendum.

Response: The Navy is preparing the Phase II Soil Remediation Work Plan, inclusive of a gamma walk over survey, and not an addendum. This information has been added to the Sites 31 and 33 summary sheets and schedules.

19. Comment: Site 31 Site Summary Sheet, Page A-31:

- a. Please change BaP to PAHs, and add PCB and TPH as shown in the table of Figure 1.**
- b. Please include the status of the RWAP Addendum.**

Response: a. The text was revised as suggested.

b. The Navy is preparing a Phase II Soil Remediation Work Plan, inclusive of a gamma walk over survey, and not an addendum. This following statement was added to the Site 31 summary sheet.

“A final soil remediation work plan was submitted January 28, 2010. The soil remediation field work (referred to as Phase I) began in February 2010, and continued through July 2010. Radium-226 has also been detected at the site. The Navy is currently preparing the Phase II Soil Remediation Work Plan for both Sites 31 and 33 that includes radiological characterization and remediation procedures.”

20. Comment: Site 32 Site Summary Sheet, Page A-32: Please discuss the preparation of the PP/ROD/RAP as this activity will start in 2011 as shown in Figure 4.

Response: A discussion of the PP and ROD/Remedial Action Plan (RAP) was added to the text.

21. **Comment:** Site 32 Site Summary Sheet, Page A-28:

- a. **The soil removal also addressed arsenic.**
- b. **The TSCA soil removal is an interim action.**
- c. **Please include the status of the PP/ROD/RAP.**

Response: a-c. The text was revised as suggested.

22. **Comment:** Site 33 Site Summary Sheet, Page A-34: Please discuss the RWAP Addendum.

Response: The Navy is preparing a Phase II Soil Remediation Work Plan, inclusive of a gamma walk over survey, and not an addendum. This following statement was added to the Sites 31 and 33 summary sheets.

“The Navy is currently preparing the Phase II Soil Remediation Work Plan for both Sites 31 and 33 that includes radiological characterization and remediation procedures.”

23. **Comment:** Site 33 Site Summary Sheet, Page A-35: Please include the RWAP Addendum.

Response: See the Navy’s response to [DTSC Comment #22](#).

24. **Comment:** Polychlorinated Biphenyls Program Summary Sheet, Page A-50:

- a. **Please refer to Figure 8 for the PCB locations.**
- b. **Please include the status of the land use controls and other restrictions in areas with remaining PCB concentrations.**
- c. **Site close out requires completion of the legal instrument in restricting land use and other activities in areas with residual PCBs.**

Response:

- a. A reference to [Figure 8](#) was added to the text.
- b. Currently there are no land use controls in place for areas with remaining PCB concentrations. The status will be included in future SMP documents.
- c. Land use controls will be used as the legal instrument to restrict land use in areas where remaining elevated PCB concentrations and would be implemented when the property transfers. This information will be included in future SMP documents.

25. **Comment:** Residential Lead-Based Paint Summary Sheet, Page A-51:

- a. **Please update this statement if it refers to the 2009 re-evaluation with a 2011 final report. This 2009 final report should include a figure showing the lead-based locations. This figure and a summary table should be included in the SMP and referenced here.**
- b. **Please specify that building demolition should be conducted according to applicable laws and regulations. Soil sampling and remediation may also be required prior to re-development.**

Response:

- a. The 2009 lead-based paint (LBP) re-evaluation was contracted and started in 2008, but the actual re-evaluation was performed in 2009. The following statement was updated: “A re-evaluation of asbestos-containing materials (ACM) began in 2009 and the report was finalized March 9, 2011. “

The Petroleum, PCB, ACM, and Residential LBP Program schedules are included for planning purposes. The Navy will provide the reference to the appropriate document in the SMP.

- b. The following sentences have been added as suggested to the end of the last paragraph:

“Building demolition should be conducted according to applicable laws and regulations.”

26. **Comment:** Residential Lead-Based Paint Summary Sheet, Page A-52: The final report is dated February 2011 with consultants signatures on 2/28/2011

Response: The date provided in the SMP reflects the distribution date as noted on the Navy cover letter.

27. **Comment:** Radiological Program Summary Sheet, Page A-53:

- a. **Please discuss that the HRA also identified potential radiological contamination at Sites 30, 31 and 33, and include a separate paragraph discussing the rad evaluation at these sites.**
- b. **Please discuss the use of Site 6 for storage of excavated soil from Site 12, and the need for rad survey at Site after its use as storage.**

Response:

- a. The text was revised as suggested.
- b. The text was revised as suggested.

28. **Comment:** **Radiological Program Summary Sheet, Page A-54:**

- a. **Please include the Building 233 demolition.**
- b. **Please include the FSS Work Plan for the SWDAs, and the rad evaluation at Site 31. Will this be included in the RAWP Addendum?**

Response:

- a. The text was revised as suggested.
- b. The FSS work plan, with respect to the planned FSS for the SWDAs, is already included in the text. For Site 31, the Phase II Soil Remediation Work Plan and field work encompass the current plan for the radiological work to be performed at the site.

29. **Comment:** **Asbestos-Containing Material Program Summary Sheet, Page A-55:**

- a. **Please update this statement if it refers to the 2009 re-evaluation with a 2011 final report. This 2009 final report should include a figure showing the asbestos locations. This figure and summary table should be included in the SMP and referenced here.**
- b. **The final report is dated February 2011 with consultants signatures on 2/24/2011 and 2/28/2011. Per this report the work was conducted on April 15 to June 23, 2009**

Response:

- a. The 2009 ACM re-evaluation was contracted and started in 2008, but the actual re-evaluation was performed in 2009. The following statement was updated to reflect this. *“A re-evaluation of ACM began in 2009 and the report was finalized March 9, 2011.”*

The Petroleum, PCB, ACM, and Residential LBP Program schedules are included for planning purposes. The Navy will provide the reference to the appropriate document in the SMP.

- b. The date provided in the SMP reflects the distribution date as noted on the Navy cover letter.

30. **Comment:** **Groundwater Monitoring Program Summary Sheet, Page A-56:**

- a. **Please discuss the ongoing well removal. The number of monitoring and remediation wells should be updated in the Final SMP.**
- b. **Please discuss the one year of monitoring at Site 32.**

Response:

- a. The text was revised as suggested.
- b. The text was revised as suggested.

31. **Comment:** Regulatory Interaction Support Summary Sheet, Page A-57:
- a. Please discuss that the final meeting minutes are compiled in an annual report.
 - b. The four operating units should be discussed in the Introduction section.
- Response:
- a. Past compilations of the final meeting minutes have been inconsistent. The final minutes will be provided individually for meetings in 2010 and 2011. No change was incorporated into the text.
 - b. Text referring to the four operable units was removed because the term is not used throughout the document.
32. **Comment:** Community Relations Program Summary Sheet, Page A-58 (Fact Sheets), Add Text
- a. Section Title: Fact Sheets *and Work Notices*
 - b. 1st Paragraph: Fact sheets *and work notices*
 - c. 1st Paragraph, Last Sentence: TI community mailing list *and the DTSC mailing list.*
- Response:
- a-c. These changes have been implemented as suggested.
33. **Comment:** Community Relations Program Summary Sheet, Page A-59 (Public Notices), Add Text: 1st Paragraph, End of 1st Sentence: “..... and completion of significant documentation such as a *ROD and a FOST.*
- Response:
- The text was revised as suggested.
34. **Comment:** Transfer Related Summary Sheet, Page A-60: Please discuss the FOST 1 and 2 Addendum and the purpose of the addendum.
- Response:
- In November 2011, the Findings of Suitability to Transfer (FOST) 1 and 2 Addendum was cancelled; therefore, the document has been deleted from the final 2011 SMP.
35. **Comment:** Site 12 Schedule, Page B-8: Please clarify that the RI does not include the SWDAs.
- Response:
- This information was added to the Site 12 Summary Sheet in [Appendix A](#) and the schedule in [Appendix B](#).
36. **Comment:** Site 12 Schedule, Page B-9: Will there be an RI for the SWDAs?
- Response:
- There will not be a separate RI for the SWDAs. However, human health risk assessments (HHRA) will be performed for each SWDA area to characterize post-removal action conditions and the HHRAs will be included in the Site 12 FS.

37. **Comment:** Site 12 Schedule, Page B-10: **Does this include the SWDAs?**
- Response: The FS for Site 12 will likely reference the non-time critical removal action for the SWDAs as well as the post-removal action HHRA. It is expected that the SWDAs will not require further intrusive remedial/removal action following the current work.
38. **Comment:** Site 27 Schedule, Page B-23: **Please add Five-Year Reviews.**
- Response: Five-year reviews were added to the schedule for Site 27 in [Appendix B](#).
39. **Comment:** Site 30 Schedule, Page B-27: **Please add CRUP for Site 30.**
- Response: As noted in the Navy's responses to [DTSC Comments #16 and #17](#), the restriction details are yet to be determined. Therefore the status of the CRUP was not included at this time. It will be added to the Site 30 schedule in future SMP documents.
40. **Comment:** Sites 31/33 Schedule, Page B-29: **Site completion or closure may be delayed since rad surveys and FSS may be required at Sites 31 and 33.**
- Response: The Navy understands that the current site closure strategy could change with the added radiological component. The Navy has included the current requirements for the path forward of these site in the SMP.
41. **Comment:** Sites 31/33 Schedule, Page B-33: **Please include the rad work at Site 31 (work instruction, FSS if required) since this was not included in the Site 31 schedule.**
- Response: The Phase 2 Soil Remediation Work Plan and field work encompass the current plan for the radiological work to be performed at Site 31. As noted in the Navy's response to [DTSC Comment #40](#), the Navy has updated the final 2011 SMP with the current path forward requirements.

RESPONSES TO TIDA COMMENTS (VIA MR. FOOTE, AMEC)

1. **Comment:** **Under the Radiological Program, the discussion of the status of the Building 233 demo needs to be updated. It currently says: "The Navy worked with DTSC and Department of Public Health to complete a survey of Building 233 by May 2006. A radiological assessment of Building 233 was conducted and a final survey report was issued in January 2007. A work plan for the demolition of the building is being prepared." Obviously, this is out of date.**

Also, I'll reiterate the importance of sticking to the schedules for sites with time-sensitive milestones with respect to transfer (i.e., Site 21, Site 33 and Building 233). According to the schedules in Appendix B of the Draft SMP, the agency review period for the Draft Building 233 Footprint and Vicinity Final Status Survey Work Plan was scheduled

to begin on May 11 and I don't believe this document has been distributed to agencies yet. Also, the Appendix B schedules show the agency review period for the Draft Site 31/33 Phase 2 Remedial Action Work Plan as starting on May 20. Again, we have not seen this draft report. The schedules, as shown, indicate that certain key transfer milestones will be met. However, if the schedules are already slipping, it raises concerns about meeting the milestones.

Response: The text under the Radiological Program Summary Sheet for Building 233 in [Appendix A](#) has been updated.

The Navy understands the importance of meeting the schedules set forth in the SMP, specifically with respect to the time-sensitive milestones of Site 21, Site 33, and Building 233 that are associated with closing conditions for the initial property conveyance at TI. The Navy will continue to strive to meet these deadlines going forward.

RESPONSES TO TIDA COMMENTS (VIA MR. CARSON, TERRAPHASE)

- 1. Comment: I'll reiterate the importance of sticking to the schedules for sites with time-sensitive milestones with respect to transfer (i.e., Site 21, Site 33, and Building 233).**

Response: As noted above in the Navy's response to [TIDA Comment #1](#), the Navy is aware of the importance of meeting the schedules set forth in the SMP.