



**Final**

## **2013 Site Management Plan**

### **Naval Station Treasure Island San Francisco, California**

**December 20, 2013**

Prepared for:

**Base Realignment and Closure  
Program Management Office West  
Naval Facilities Engineering Command  
San Diego, California**

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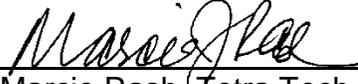
**2013 Site Management Plan  
Naval Station Treasure Island  
San Francisco, California**

**Contract Number N62473-11-D-2205**

**Prepared for:  
DEPARTMENT OF THE NAVY**

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**REVIEW AND APPROVAL**

Project Manager:  Date: December 20, 2013  
Marcie Rash, Tetra Tech EM Inc.

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## ACRONYMS AND ABBREVIATIONS

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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
CDPH	California Department of Public Health
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	Contaminant of concern
CRP	Community relations plan
CRUP	Covenant to Restrict Use of Property
DDT	Dichlorodiphenyltrichloroethane
DTSC	Department of Toxic Substances Control
EBS	Environmental baseline survey
ed	Elapsed day
EE/CA	Engineering evaluation/cost analysis
EPA	U.S. Environmental Protection Agency
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
HHRA	Human health risk assessment
HRA	Historical radiological assessment
HRASTM	Historical radiological assessment supplemental technical memorandum
HUD	U.S. Department of Housing and Urban Development
IC	Institutional control
IR	Installation Restoration

## ACRONYMS AND ABBREVIATIONS (CONTINUED)

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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
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)
PCSR	Post-construction summary report
PP	Proposed plan
RA	Remedial action
RAB	Restoration Advisory Board
RACR	Remedial action completion report
RAP	Remedial action plan
RAWP	Removal action work plan
RASO	Radiological Affairs Support Office
RCA	Radiologically controlled area
RD	Remedial design
RI	Remedial investigation
ROD	Record of decision
RTC	Response to comments
SEBS	Supplemental environmental baseline survey
SFUSD	San Francisco Unified School District
Shaw	Shaw Environmental, Inc.
SI	Site inspection
SLERA	Screening-level ecological risk assessment
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.

## **ACRONYMS AND ABBREVIATIONS (CONTINUED)**

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TI	Treasure Island
TIDA	Treasure Island Development Authority
TICD	Treasure Island Community Development
TPH	Total petroleum hydrocarbon
TSCA	Toxic Substances Control Act
USC	United States Code
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
WWII	World War II
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 California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC) with input from the Department of the Navy (Navy). 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 NAVSTA TI Basewide Environmental Cleanup Program; as a result, the strategies and related schedules are subject to change.

The Department of Defense developed the Installation Restoration (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, which are summarized below. The current program status for each site is included on [Table 1](#).

<b>CERCLA Program Status</b>			
<b>Closed (12 Sites)</b>		<b>Open (12 Sites)</b>	
<b>No Action</b>	28	<b>Undergoing Investigation or Remediation</b>	6, 12, 21, 24, 27, 30, 31, 32, 33
<b>No Further Action (NFA)</b>	1, 2, 3, 7, 9, 10, 13, 18, 23	<b>On-hold Pending Completion of San Francisco-Oakland Bay Bridge (Bay Bridge) East Span Seismic Safety Project by California Department of Transportation (Caltrans)</b>	8, 11, 29
<b>Other (merged into Site 24)</b>	5, 17		

The Petroleum Program includes nine petroleum sites along with numerous underground storage tanks (UST) and fuel lines throughout TI and YBI. Since 1987, many sites have been closed or are currently undergoing evaluation. The following table summarizes the Petroleum Program, though the current program status for each site is included on [Table 1](#) and in [Appendix A](#).

Petroleum Program Status			
Closed		Open	
<b>Petroleum Sites</b> (8 Sites)	4/19, 14/22, 15, 16, 20, 25	<b>Petroleum Sites</b> (1 Site)	6
<b>UST and Pipeline Sites</b>	Various (see <a href="#">Appendix A</a> for details)	<b>UST and Pipeline Sites</b> (4 Sites)	Pipeline Sites YF3 and U.S. Coast Guard (USCG), and USTs 238 and 240

This document is organized into two main sections (including this introduction), followed by tables, figures, and 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 2](#) 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 3](#). A summary of Petroleum Program closeout status is provided in [Table 4](#). The NAVSTA TI IR 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 [Table 1](#).

The steps for site closure under the CERCLA and Petroleum Programs are illustrated as flowcharts on [Figures 2 and 3](#), respectively. [Figure 4](#) presents the specific closure strategy flowchart for Site 12. [Figures 5 and 6](#) 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 7 and 8](#), respectively. The status of the PCB program is shown on [Figure 9](#). Environmental restrictions, transfer parcels and environmental baseline survey (EBS) parcels are depicted on [Figure 10](#). The reuse scenarios from the 1996 draft reuse plan are shown on [Figure 11](#). The April 2011 TI/YBI Redevelopment Project Conceptual Land Plan, prepared for the Treasure Island Development Authority, is shown on [Figure 12](#).

## 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. The BCT consists of the Navy, DTSC, the Cal/EPA San Francisco Bay Regional Water Quality Control Board (Water Board), and the U.S. Environmental Protection Agency (EPA). California Department of Public Health (CDPH) works with DTSC to provide technical support on the radiological program. Other agencies and organizations also provide support to the BCT and the environmental program, including the Treasure Island Development Authority (TIDA), the Treasure Island Community Development (TICD), the Restoration Advisory Board (RAB), the RAB technical focus group, and other public groups. 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 2](#) presents the standard production and review periods for both primary and secondary documents. [Table 3](#) summarizes completion dates, by site, for each step of the CERCLA closure process. These dates reflect the site-specific schedules in [Appendix B](#). [Table 4](#) summarizes the current closure status of sites in the Petroleum Program.

The assumptions below were used in development of 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.
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), records of decision (ROD), 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, 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 line site USCG are impacted from continued Bay Bridge construction activities performed by the 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 2](#)):

- 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 (60-business day) period to develop internal draft documents.
  - A 30-day (20-business day) period will be provided for the Navy (including Navy legal reviews of FS, PP, ROD, and FOST documents and Navy Radiological Affairs Support Office (RASO) reviews of documents with radiological components) to review internal draft documents.
  - A 14-day (10-business day) period will be included for the Navy to distribute draft documents to the regulatory agencies.
  - A 30-day (20-business day) period will be provided for the regulatory agencies to review draft documents and submit written comments.
  - A 28-day (22-business 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 (20-business 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 (7-business day) period will be included for the Navy to review internal final documents.
  - A 14-day (10-business day) period will be included for the Navy to distribute final documents.
  - A 14-day (10-business 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 2](#)):
- The Navy will be allowed at least a 30-day (20-business day) period to prepare internal draft documents.
  - A 14-day (10-business day) period will be provided for the Navy (including Navy RASO review of documents with radiological components) to review internal draft documents.
  - A 7-day (5-business day) period will be included for the Navy to distribute draft documents to the regulatory agencies.

- A 30-day (20-business 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 (23-business 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 (10-business day) period will be included for the Navy to review internal final documents.
  - A 14-day (10-business day) period will be included for the Navy to distribute final documents.
  - A 14-day (10-business 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. For removal actions (such as a non-time-critical removal action [NTCRA]) other than an emergency response action, the Navy will provide the regulatory agencies with a removal action work plan (RAWP) at least 45 days prior to initiation of the response action. The RAWP will not be subject to the general requirements for primary and secondary documents noted above. The regulatory agencies will have a 14-day (10-business day) period to review and provide comments or notice of concurrence on the RAWP to the Navy. The Navy will provide responses to agency review comments no less than 10 days prior to initiation of the response action.
  9. 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 Water Board, and EPA, the City of San Francisco and its contractors, the 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.
  10. Time for laboratory analysis and data validation is included in the dates specified for field work.
  11. The current site evaluation criteria will not change significantly to delay the documents or field investigations.
  12. For planning purposes, unless otherwise noted, the durations of the field investigations are assumed to be (1) 90 days (60-business days) for a single-phase event; and (2) 180 days (120-business days) for a multiple-phase event, up to three phases.

13. For planning purposes, the remedial action (RA) field durations are assumed to be (1) 90 days (60-business days) for a small to medium RA with no groundwater concerns, (2) 250 days (179-business days) for a large RA with no groundwater concerns, and (3) 365 days (260-business days) for an RA with groundwater concerns.

**TABLE 1: CERCLA AND PETROLEUM RELATED SITE INFORMATION**

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

<b>IR Site Number</b>	<b>Site Name</b>	<b>Historical Use</b>	<b>Contaminants of Potential Concern</b>	<b>Open or Closed Site</b>	<b>Status of CERCLA and Petroleum Phase</b>
1	Medical Clinic	On site X-ray and photo processing laboratory.	Silver	Closed	Site closed with regulatory agency concurrence March 20, 2002.
2	Radiation Training Area	Area used for Navy radiation decontamination training from mid-1950s to 1969.	Radionuclides	Closed	NFA recommended in 1988 PA/SI report. A radiological survey is being planned to support the PA/SI.
3	PCB Equipment Storage Area	Area was used to store and repair transformers.	PCBs	Closed	Site closed with regulatory agency concurrence March 20, 2002.
5	Old Boiler Plant	Provided steam heat to nonresidential buildings.	Petroleum	Closed	CERCLA contaminants merged into Site 24 by DTSC letter dated January 17, 2001.
6	Fire Training School	Area used for Navy firefighter training for nearly 50 years.	Dioxins and furan, TPH, VOCs, and PAHs	Open	RI/FS Report was finalized in October 2012. PP/Draft RAP is being prepared and the RCA FSS is being planned. Annual groundwater monitoring continues.
7	Pesticide Storage Area	Area was used to store pesticides, herbicides, and paint.	Metals, pesticides, and herbicides	Closed	Site closed with regulatory agency concurrence on November 1, 2005.
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	Open	Interim RI Report was submitted March 2009. Navy is discussing site closeout with Caltrans. Once bridge construction activities are complete, the site will continue with the CERCLA process starting with an RI addendum.
9	Foundry	Area used as a forge and foundry, paint shop, and welding school.	Iron and benzo(a)pyrene, dibenz(a,h)anthracene	Closed	No Action ROD signed on October 2, 2007.
10	Bus Painting Shop	Shop used for bus painting, paint mixing, and storage of pest control solutions.	Iron and benzo(a)pyrene, dibenz(a,h)anthracene	Closed	No Action ROD signed on October 2, 2007.

**TABLE 1: CERCLA AND PETROLEUM RELATED SITE INFORMATION (CONTINUED)**

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

IR Site Number	Site Name	Historical Use	Contaminants of Potential Concern	Open or Closed Site	Status of CERCLA and Petroleum Phase
11	YBI Landfill	Area was used as a landfill for various debris.	TPH, PAH, VOCs, and metals	Open	Interim RI report was submitted January 27, 2010. Navy is discussing site closeout with Caltrans. Once bridge construction activities are complete, the site will continue with the CERCLA process starting with an RI addendum.
12	Old Bunker Area	Area housed ammunition bunkers, former equipment storage areas, refuse areas, and solid waste incineration areas. Military housing construction and earthwork spread contaminants randomly in the subsurface across the site.	PCBs, PAH, dioxins, TPH, metals, radium-226, and debris	Open	NTCRA in SWDAs is in progress. RI Report was finalized in June 2012. FS is being finalized. Radiological surveys for areas outside the SWDAs are in process.
13	Stormwater Outfalls / Offshore Sediments	Stormwater system conveys water from surface and building drains to San Francisco Bay without treatment. Offshore sediments may be contaminated from onshore sites.	Metals, PAH, PCBs, DDT, and TPH	Closed	No Action ROD signed on April 7, 2005.
17	Tanks 103/104	Two 200,000-gallon ASTs contained diesel.	Petroleum, oils and lubricants	Closed	CERCLA contaminants merged into IR Site 24 by DTSC letter dated January 17, 2001.
18	Possible asbestos contamination on YBI was incorporated into asbestos investigations	Abandoned steam piping was exposed due to a landslide in the early 1980s.	Asbestos	Closed	NFA recommended in 1988 PA/SI Report.

**TABLE 1: CERCLA AND PETROLEUM RELATED SITE INFORMATION (CONTINUED)**

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

IR Site Number	Site Name	Historical Use	Contaminants of Potential Concern	Open or Closed Site	Status of CERCLA and Petroleum Phase
21	Vessel Waste Oil Recovery Area	Area was used as an oil/water separator facility and for aircraft maintenance.	VOCs, TPH	Open	Groundwater treatability study is complete. Groundwater monitoring continues. ROD/RAP was signed on February 19, 2013. A LUC RD/RAWP was finalized October 11, 2013. A RACR will be prepared.
23	YBI fuel line rupture/land slide	A fuel line ruptured during a small landslide in the 1980s.	Petroleum	Closed	NFA recommended in 1988 PA/SI report.
24	Dry Cleaning Facility	Area was used as a laundry and dry cleaning facility for at least 35 years.	Petroleum, oil, lubricants, and chlorinated solvents	Open	An FS addendum is being prepared. Annual groundwater monitoring continues.
27	Clipper Cove Skeet Range	Skeet range operated for until 1989.	Lead shot, lead, and PAH	Open	ROD signed March 28, 2012. RD/RAWP was completed in 2013. Remedial action was completed November 29, 2013 and a RACR and LUC RD Addendum will be prepared.
28	West Side On/Off Ramp	Maintenance of ramps included using lead-based paint.	Lead	Closed	NFA ROD was signed November 22, 2010.
29	East Side On/Off Ramp	Maintenance of ramps included using lead-based paint.	Lead and SVOCs	Open	Interim RI Report was submitted March 2009. Navy is discussing site closeout with Caltrans. Once bridge construction activities are complete, the site will continue with the CERCLA process starting with an RI addendum.
30	Daycare Center	Area was undeveloped until 1985, when Daycare Center was constructed. Burned debris was possibly used to backfill utility trenches.	Dioxins and metals	Open	ROD signed August 5, 2009. LUC inspection and reporting is ongoing. A radiological survey work plan is being prepared.
31	Former South Storage Yard	Area appears in aerial photos to have been used as a storage yard during the 1970s.	Lead, dioxins, PAH, TPH, and radium-226	Open	Remedial action is underway and will be followed by a FSS.

**TABLE 1: CERCLA AND PETROLEUM RELATED SITE INFORMATION (CONTINUED)**

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

IR Site Number	Site Name	Historical Use	Contaminants of Potential Concern	Open or Closed Site	Status of CERCLA and Petroleum Phase
32	Former Training and Storage Area	Area was used for hazardous materials storage area, and for tear gas training area and storage. Area currently contains a transformer pad.	PCBs, TPH, dioxins, pesticides, and arsenic	Open	PP was issued September 2011. Radiological survey is being conducted for former U.S.S Pandemonium site. ROD/RAP on hold pending survey results.
33	Water Line Replacement Area	Debris was observed in water line trench during extensive historical repairs.	Arsenic and lead	Open	ESD to incorporate Site 33 into the Site 31 ROD was finalized in May 2011. RA is being completed, including radium-226 screening. A RACR is being prepared.
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	Closed	NFA concurrence letter received from Water Board dated December 17, 2003.
6	Fire Training School	Area was used for Navy firefighting training for nearly 50 years.	Dioxins and furans, TPH, VOCs, PAHs	Open	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 corrective action is complete.
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	Closed	NFA concurrence letter received from Water Board dated July 18, 2005.
15	Old Fuel Farm	Original fuel storage and distribution facility, much of which was moved to New Fuel Farm by 1945.	Petroleum, oil, lubricants	Closed	NFA concurrence letter received from Water Board dated September 2004.
16	Clipper Cove Tank Farm	Area stored aviation gasoline and automotive diesel for more than 20 years.	Petroleum, oil, lubricants	Closed	NFA concurrence letter received from Water Board dated June 17, 2004.

**TABLE 1: CERCLA AND PETROLEUM RELATED SITE INFORMATION (CONTINUED)**

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

<b>IR Site Number</b>	<b>Site Name</b>	<b>Historical Use</b>	<b>Contaminants of Potential Concern</b>	<b>Open or Closed Site</b>	<b>Status of CERCLA and Petroleum Phase</b>
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	Closed	NFA concurrence letter received from Water Board dated June 17, 2004.
25	Seaplane Maintenance Area	Three areas are used for storing and maintaining vehicles and seaplanes.	Petroleum, oil, lubricants	Closed	NFA concurrence letter received from Water Board dated October 28, 2011.
Pipeline Sites		Inactive fuel pipelines.	Petroleum	Open	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	Open	Various NFA concurrence letters received; NFA concurrence will be requested for USTs at Site 6 in 2016; UST 238 on YBI awaits completion of Caltrans activities.

**TABLE 1: CERCLA AND PETROLEUM RELATED SITE INFORMATION (CONTINUED)**

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

## Notes:

AST	Aboveground storage tank	RA	Remedial action
Caltrans	California Department of Transportation	RACR	Remedial Action Completion Report
CERCLA <sup>a</sup>	Comprehensive Environmental Response, Compensation, and Liability Act	RAP	Remedial Action Plan
DDT	Dichlorodiphenyltrichloroethane	RAWP	Remedial Action Work Plan
DTSC	Department of Toxic Substances Control	RCA	Radiologically controlled area
ESD	Explanation of Significant Differences	RD	Remedial Design
FS	Feasibility Study	RI	Remedial Investigation
FSS	Final Site Survey	ROD	Record of Decision
IR	Installation Restoration	SI	Site inspection
LUC	Land use control	SVOC	Semivolatile organic compound
NFA	No Further Action	SWDA	Solid waste disposal area
NTCRA	Non-time-critical removal action	TPH	Total petroleum hydrocarbon
PA	Preliminary Assessment	USCG	U.S. Coast Guard
PAH	Polycyclic aromatic hydrocarbons	UST	Underground storage tank
PCB	Polychlorinated biphenyl	VOC	Volatile organic compound
PP	Proposed Plan	YBI	Yerba Buena Island

**TABLE 2: DOCUMENT PRODUCTION AND REVIEW PERIODS**

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

FFSRA Guidelines		Revised Production and Review Periods <sup>a,b</sup>	
<b>Primary Documents<sup>c</sup></b>			
N/A	----	Scoping Meeting	---- <sup>d</sup>
Internal Draft	90 ed	Internal Draft	60 d / 90 ed
Navy Review	15 ed	Navy Review	20 d / 30 ed <sup>e</sup>
N/A	----	Revise Internal Draft	----
N/A	----	Navy Legal Review	----
Draft	15 ed	Draft	10 d / 14 ed
Agency Review	60 ed	Agency Review	20 d / 30 ed
N/A	----	Preliminary Draft RTCs	22 d / 28 ed <sup>g</sup>
N/A	----	Working Meeting	---- <sup>d</sup>
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	20 d / 30 ed
Navy Review	7 ed	Navy Review	7 d / 10 ed
Final	7 ed	Final	10 d / 14 ed <sup>h</sup>
<b>Total:</b>	<b>330 ed</b>	<b>Total:</b>	<b>169 d / 290 ed</b>
<b>Secondary Documents<sup>i</sup></b>			
Internal Draft	60 ed	Internal Draft	20 d / 30 ed
Navy Review	7 ed	Navy Review	10 d / 14 ed <sup>e</sup>
Draft	7 ed	Draft	5 d / 7 ed
Agency Review	30 ed	Agency Review	20 d / 30 ed
N/A	----	Working Meeting	---- <sup>d</sup>
Draft Final	30 ed	Draft Final	----
Agency Review	30 ed	Agency Review	----
Internal Final	46 ed	Internal Final	23 d / 33 ed
Navy Review	7 ed	Navy Review	10 d / 14 ed
Final	7 ed	Final	10 d / 14 ed <sup>h</sup>
<b>Total:</b>	<b>224 ed</b>	<b>Total:</b>	<b>98 d / 142 ed</b>

## Notes:

- a The revised document production and review periods were approved by the BCT 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.
- b RAWPs will be submitted for review at least 45 days prior to initiation of the response action. The regulatory agencies will have a 14-day review period to provide comments or notice of concurrence. The Navy will provide RTCs no less than 10 days prior to initiation of the response action.
- c Primary documents include RI reports, EE/CAs, action memoranda, FSs, RDs, PPs, and ROD/RAPs. FOSTs will also follow the primary document schedule.
- d 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.
- e Primary or secondary documents with radiological components require a 30-day review by the Navy's RASO.
- f The 14-day revised internal draft and Navy legal review is required for FSs, PPs, and ROD/RAPs.
- g The 28-day schedule includes drafting the RTCs, review of responses by Navy, and distribution for agency review.
- h Agencies have a 14-day period to approve or comment on final documents. Documents automatically become final if no written comments are received within the 14-day comment period.
- i 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.
- d Business day (or working day)
- ed Elapsed day (or calendar day, as opposed to a working day)
- N/A Not applicable
- RTC Response to comment

**TABLE 3: 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
<b>Site 6 (CERCLA)</b>		<b>Site 24</b>	
✓ RI/FS	10/25/12	FS Addendum	10/07/14
FSS	02/20/15	FSS (Lot 69 and Bldg 342)	06/05/15
PP/ROD/RAP	11/24/14	PP/ROD/RAP	06/12/15
RD/RA	11/22/16	RD/RA	05/17/17
<b>Site 12</b>		<b>Site 27</b>	
FS	03/18/14	RD/RA	07/24/14
FSS	06/05/15	LUC RD Addendum	11/13/14
PP/ROD/RAP	10/07/15		
RD/RA	04/04/18		
RAD/CERCLA FS Addendum	03/10/17	<b>Site 30</b>	
RAD/CERCLA PP/ROD/RAP	06/28/18	FSS	06/05/15
RAD/CERCLA RD/RA	12/12/20		
<b>Site 21</b>		<b>Site 31</b>	
PP/ROD/RAP	02/19/13	FSS	07/31/14
✓ LUC RD/RAWP	10/11/13	RA	09/01/14
✓ LUC RA	09/29/14	<b>Site 32</b>	
		FSS	08/29/14
		PP/ROD/RAP	02/24/15
		<b>Site 33</b>	
		RD/RA	05/08/14

Notes:

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

RD/RA end date is considered the date the RACR is completed.

✓ Complete

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

FS Feasibility study

FSS Final Status Survey

LUC Land use covenant

PP Proposed plan

RA Remedial action

RACR Remedial action completion report

Rad Radiological

RAP Remedial action plan

RAWP Remedial action work plan

RD Remedial design

RI Remedial investigation

ROD Record of decision

**TABLE 4: 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.	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.	February 10, 2004	Regional Water Board NFA <sup>1</sup> 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.	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.	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.	December 17, 2003	Regional Water Board UST case closure letter.

<sup>1</sup> 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 NFA concurrence, the Navy has demonstrated to the Regional Water Board that NFA is required. For UST sites that have received regulatory closure, the Navy has completed all site investigations and RA related to the UST site.

**TABLE 4: 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.	TBD	Petroleum program investigations completed, report requesting NFA concurrence submitted, concurrence with NFA not granted. <sup>2</sup> Ongoing groundwater monitoring at the site. Navy is preparing the UST 240 PCSR and will be requesting regulatory closure for USTs 240 and 248 in 2013.
Sites 14/22	38D9610	Removed ASTs (4, 5, 6A, 6B, 6C, 6E, 6F, and 6G, and 456)  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.	July 18, 2005	Regional Water Board NFA concurrence letter. ASTs 6A, through 6G were originally closed as "existing decommissioned" ASTs, but were removed in February 2012.
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.	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.	May 5, 2004	Regional Water Board UST case closure letter.

<sup>2</sup> 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 4: 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.	TBD	Regional Water Board did not concur with NFA and requested additional investigation. <sup>3</sup> 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.	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.	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.	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.

<sup>3</sup> 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 4: 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. Final Addendum to Closure Report Site 25 Request for No Further Action, Naval Station Treasure Island. January 29, 2010. Shaw. 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.	October 28, 2011	Petroleum program investigations completed, report requesting NFA concurrence submitted, concurrence with NFA not granted. <sup>4</sup> 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.	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.	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.	August 19, 2005	Because tanks are not present, a case closure letter is not required. (The Regional Water Board also previously concurred NFA required for USTs and ASTs in a May 9, 2005 letter.)

<sup>4</sup> 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 4: 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.	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.	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 4: 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. GPR was inconclusive in search for the tank; further investigation on hold until completion of the Bay Bridge project. <sup>5</sup>
Pipeline YF3	--	None	Pipeline NFA	--	TBD	Regional Water Board letter received February 12, 2004, requested additional investigation. The Navy is conducting a SLERA and will prepare an addendum to the CAP.
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.	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.	June 17, 2004	Regional Water Board NFA concurrence letter.

<sup>5</sup> 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 4: 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 CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech.	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.	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.	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.	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.	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.	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.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline YF1	--	None	Pipeline NFA	Final Closure Report Site 04/19 Request for No Further Action Naval Station Treasure Island. December 2003. Tetra Tech.	February 10, 2004	Regional Water Board NFA concurrence letter.
Site 4/19	--	None	Site NFA	Final Facilitywide Underground Storage Tank Summary Report, Naval Station Treasure Island. October 2003. Tetra Tech.	December 17, 2003	Regional Water Board NFA concurrence letter.
Facilitywide UST	--	16 previously suspected USTs	UST NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech.	December 2, 2003	Regional Water Board NFA concurrence letter.

**TABLE 4: PETROLEUM SITE SUMMARY (CONTINUED)**

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

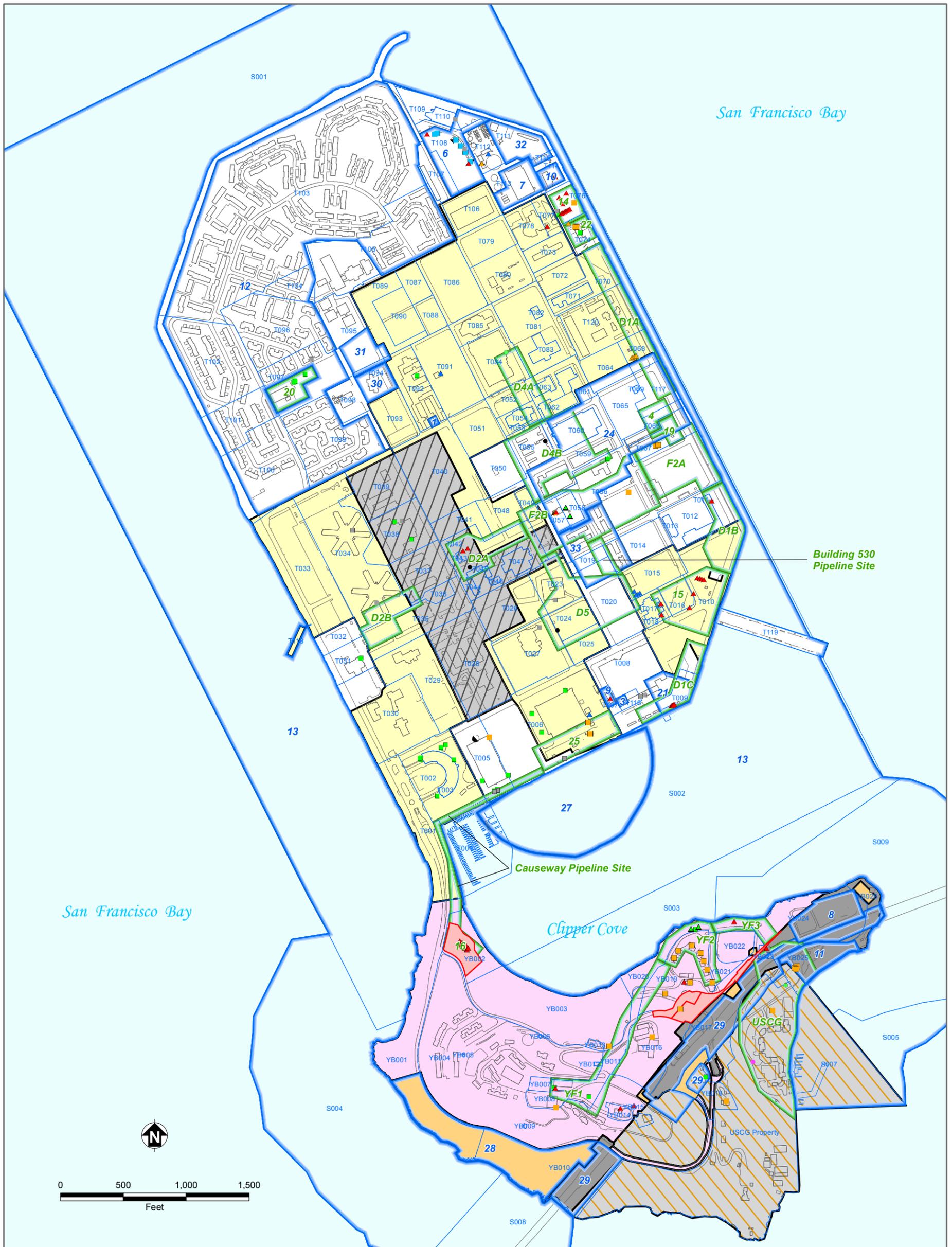
Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
Home Heating Oil UST 57 and 234	--	UST 57 UST 234	UST NFA	Report on Abandoned Underground Storage Tank Investigation at Naval Station Treasure Island. April 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.	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  
 CAP Corrective Action Plan  
 ERM West Environmental Resources Management West, Inc  
 GPR Ground-penetrating radar  
 Shaw Shaw Environmental Inc.  
 TBD To be determined  
 Tetra Tech Tetra Tech EM Inc.

## **FIGURES**

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<p><b>TRANSFER PARCELS:</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: yellow; border: 1px solid black; margin-right: 5px;"></span> TI FOST Property (FOST 1)</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: pink; border: 1px solid black; margin-right: 5px;"></span> YBI FOST Property (FOST 2)</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: orange; border: 1px solid black; margin-right: 5px;"></span> YBI FOST Property (FOST 3)</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: red; border: 1px solid black; margin-right: 5px;"></span> Ramp Parcels</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: gray; border: 1px solid black; margin-right: 5px;"></span> Caltrans Property</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: lightgray; border: 1px solid black; margin-right: 5px;"></span> Job Corps Property</li> <li><span style="display: inline-block; width: 15px; height: 15px; background-color: lightblue; border: 1px solid black; margin-right: 5px;"></span> U.S. Coast Guard Property</li> <li><span style="display: inline-block; width: 15px; height: 15px; border: 1px solid black; margin-right: 5px;"></span> EBS Parcel</li> </ul> <p><b>INVESTIGATION SITES:</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 15px; border: 2px solid green; margin-right: 5px;"></span> Petroleum Program Sites</li> <li><span style="display: inline-block; width: 15px; height: 15px; border: 2px solid blue; margin-right: 5px;"></span> CERCLA Program Sites</li> <li><span style="display: inline-block; width: 15px; height: 15px; border: 1px solid black; margin-right: 5px;"></span> Building</li> <li><span style="display: inline-block; width: 15px; height: 15px; border-bottom: 1px solid black; margin-right: 5px;"></span> Road Edge</li> </ul>	<p><b>UNDERGROUND STORAGE TANKS:</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: green; border-radius: 50%; margin-right: 5px;"></span> Closed</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: lightgreen; border-radius: 50%; margin-right: 5px;"></span> Closed via Inactive Fuel Lines CAP</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: pink; border-radius: 50%; margin-right: 5px;"></span> Further Investigation</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: orange; border-radius: 50%; margin-right: 5px;"></span> NFA Concurrence</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: black; border-radius: 50%; margin-right: 5px;"></span> NFA via Inactive Fuel Lines CAP</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: blue; border-radius: 50%; margin-right: 5px;"></span> NFA Requested</li> <li><span style="display: inline-block; width: 10px; height: 10px; background-color: gray; border-radius: 50%; margin-right: 5px;"></span> Never Existed</li> </ul> <p><b>ABOVEGROUND STORAGE TANKS:</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; border: 2px solid green; margin-right: 5px;"></span> Closed-in-Place</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 2px solid blue; margin-right: 5px;"></span> Active</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 2px solid orange; margin-right: 5px;"></span> Inactive</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 2px solid red; margin-right: 5px;"></span> Removed</li> </ul> <p><b>OIL-WATER SEPARATORS:</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; border-radius: 50%; margin-right: 5px;"></span> Potential</li> <li><span style="display: inline-block; width: 10px; height: 10px; border: 1px solid black; margin-right: 5px;"></span> Removed</li> </ul>	<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>Caltrans California Department of Transportation</li> <li>CAP Corrective Action Plan</li> <li>CERCLA Comprehensive Environmental Response, Compensation, and Liability Act</li> <li>EBS Environmental baseline survey</li> <li>FOST Finding of suitability to transfer</li> <li>NFA No further action</li> <li>TI Treasure Island</li> <li>USCG United States Coast Guard</li> <li>YBI Yerba Buena Island</li> </ul> <p>1. All areas on TI and YBI are untransferred, except for the Job Corps, Caltrans, and U.S. Coast Guard properties. This also includes the submerged area south of Parcel 1.</p> <p>(See Figures 7 and 8 for individual tank identification and location.)</p>
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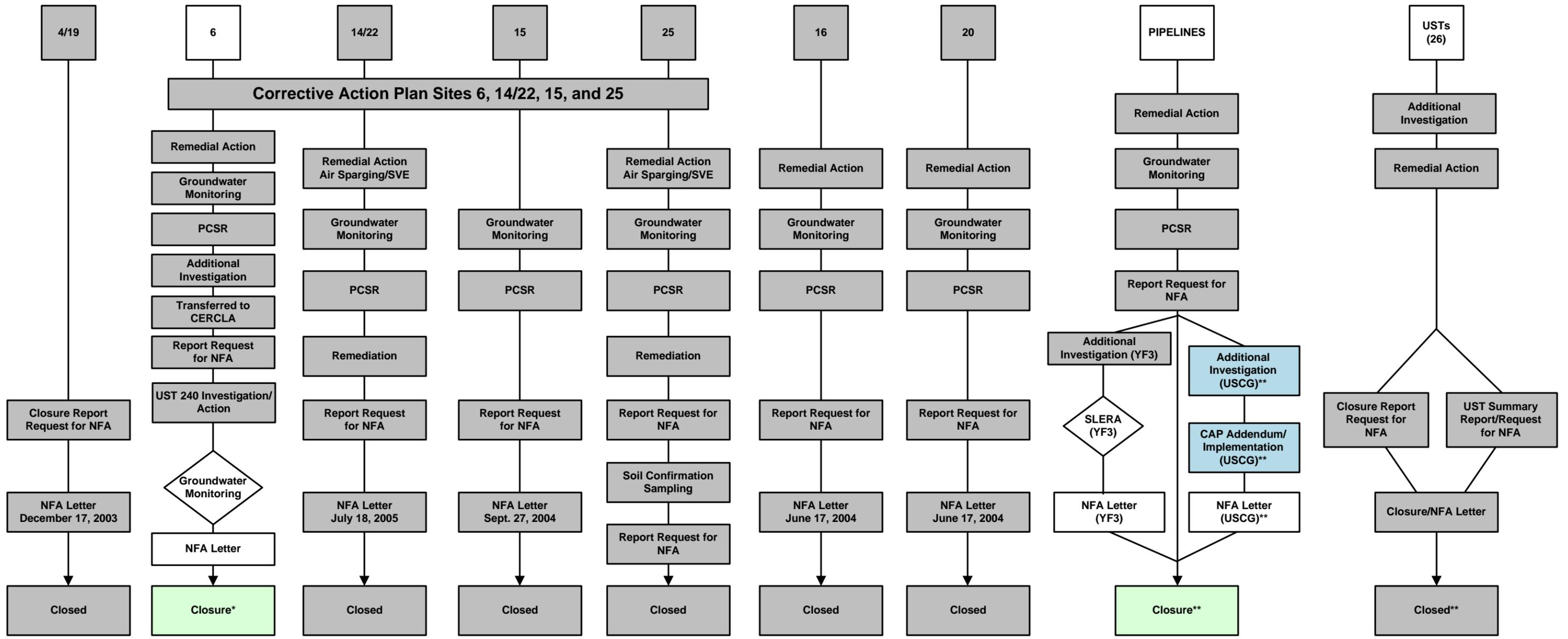


**Naval Station Treasure Island**  
Department of the Navy, BRAC PMO West, San Diego, CA

**FIGURE 1**  
**CERCLA SITES, PETROLEUM SITES,**  
**AND TRANSFER PARCELS**

Site Management Plan 2013





**Legend:**

- Shape indicates current ongoing activity, activities below this point are anticipated as of this date.
- Shading indicates activity completed or site is closed
- CAP Addendum/Implementation Indicates Planned Investigation, Report, or Removal Action
- NFA Letter Indicates No Further Action Concurrence Letter
- Closure Indicates Site Closure

**Notes:**  
 Caltrans California Department of Transportation  
 CAP Corrective action plan  
 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 six USTs on TI, including 240A, 240B, and 248A through 248D (Site 6). These tanks were proposed for closure in the site closure report; however, further investigation was completed for the areas surrounding the former UST 240A and 240B. Closure request will be submitted for both USTs 240 and 248.

\*\* Completion of additional investigation is pending Caltrans project completion (specifically UST 238).



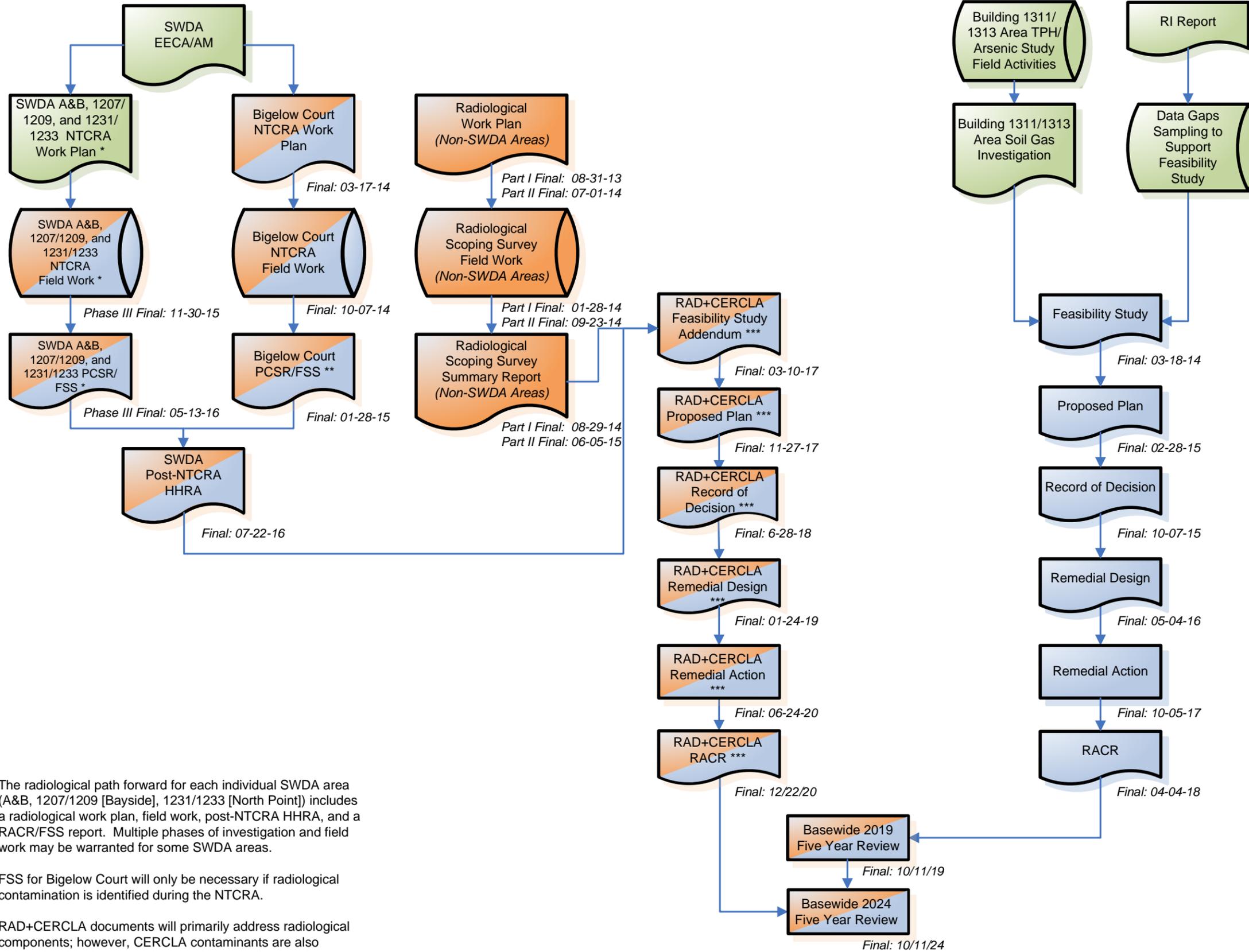
Naval Station Treasure Island  
 Department of the Navy, BRAC PMO West, San Diego, CA

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

Site Management Plan 2013

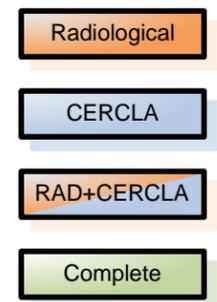
## RADIOLOGICALLY IMPACTED AREAS

## EXPOSURE UNITS / AREAS OF INTEREST



**Notes:**  
 1. Depicted strategy is based on the current schedule in Appendix B and is subject to change.  
 2. NTCRA SWDAs were not included in the RI Report.

- AM Action Memorandum
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
- EECA Engineering Evaluation and Cost Analysis
- FSS Final Status Survey
- HHRA Human Health Risk Assessment
- NTCRA Non-Time Critical Removal Action
- RACR Removal Action Completion Report
- RAD Radiological
- RI Remedial Investigation
- SWDA Solid Waste Disposal Area
- TPH Total petroleum hydrocarbons



\* The radiological path forward for each individual SWDA area (A&B, 1207/1209 [Bayside], 1231/1233 [North Point]) includes a radiological work plan, field work, post-NTCRA HHRA, and a RACR/FSS report. Multiple phases of investigation and field work may be warranted for some SWDA areas.

\*\* FSS for Bigelow Court will only be necessary if radiological contamination is identified during the NTCRA.

\*\*\* RAD+CERCLA documents will primarily address radiological components; however, CERCLA contaminants are also included within the project boundaries and will be addressed at the same time.



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**FIGURE 4**  
**SITE 12 CLOSURE STRATEGY**  
**FLOW CHART**



PETROLEUM PROCESS MILESTONES		2008				2009				2010				2011				2012				2013				2014				2015				2016				2017			
		Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct				
Site 4/19	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action	(site closure December 2003)																																							
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 6	Additional Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring	→																																							
	Closure Summary Report	(completed December 2005)																																							
Site 14/22	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action	(site closure July 2005)																																							
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 15	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action	(site closure September 2004)																																							
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 16	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action	(site closure June 2004)																																							
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 20	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action	(site closure June 2004)																																							
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 25	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring	→																																							
	Closure Summary Report																																								
UST 238 *	Additional Investigation / PCSR																																								
	Additional Investigation / PCSR																																								
USCG Site *	Additional Investigation																																								
	CAP Addendum																																								
	CAP Addendum Implement.																																								
	PCSR																																								
Site YF3	Additional Investigation																																								
	SLERA																																								

**Notes:**

- CAP = Corrective Action Plan
- PCSR = Post Construction Summary Report
- SLERA = Screening-level ecological risk assessment
- UST = Underground storage tank
- USCG = U.S. Coast Guard
- ✓ = Site closeout
- = Schedule extends beyond 2017

\* All other pipeline sites have been closed.

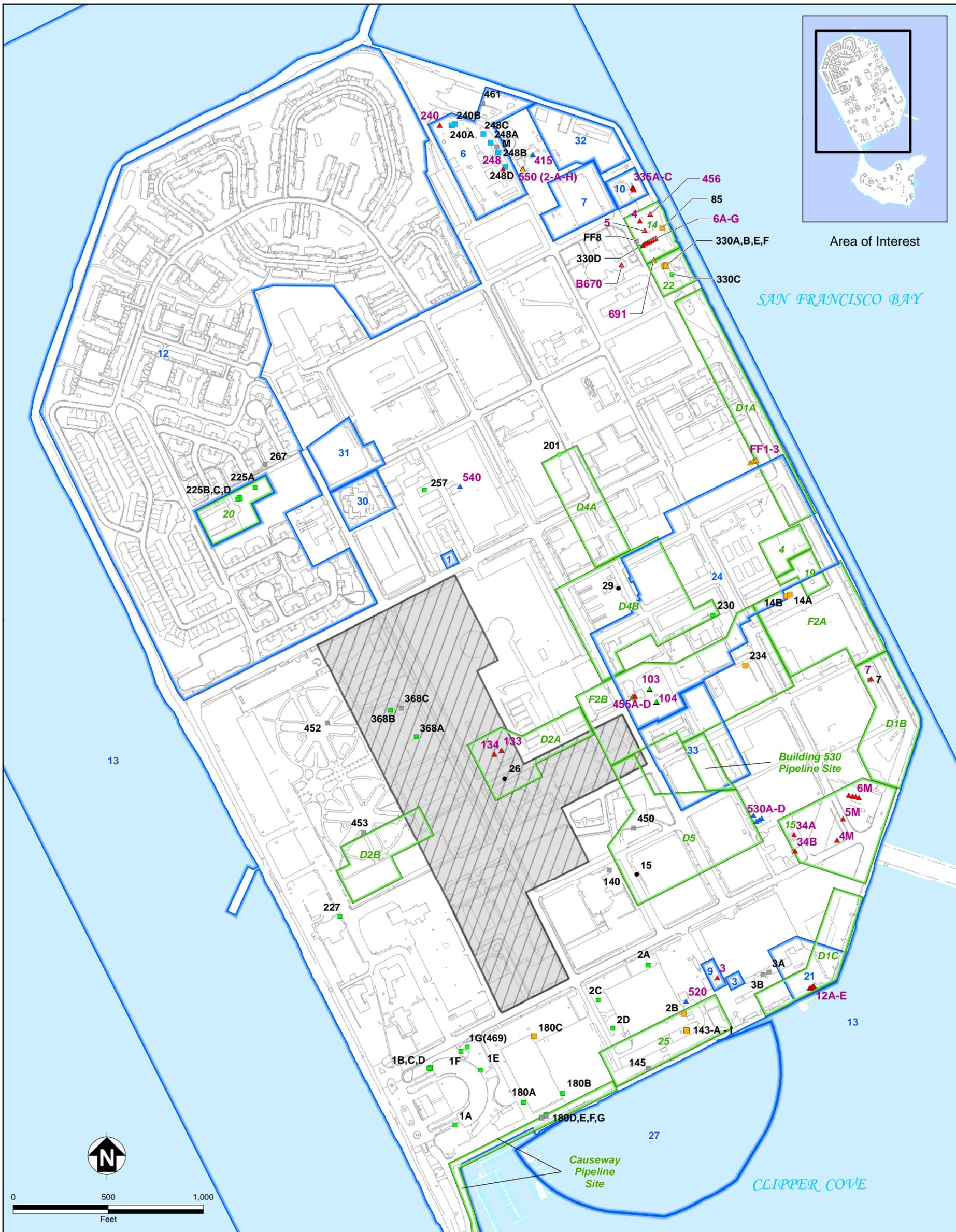
- ① USTs 240A, 240B, 248A through 248D are associated with Installation Restoration Site 6 and still require closure before Site 6 can be closed.
- ② Additional investigation required for UST 238 is on hold until Caltrans completes work in the area.



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**FIGURE 6**  
**TIMELINE TO CLOSURE**  
**PETROLEUM PROGRAM**

Site Management Plan 2013



**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
- Building
- ▨ Job Corps Property
- Road Edge

**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

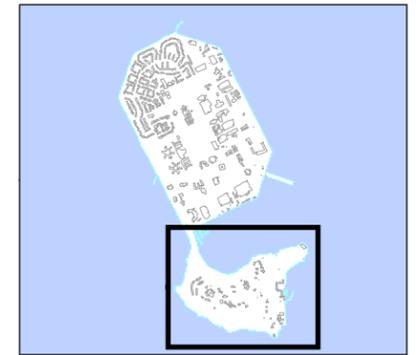
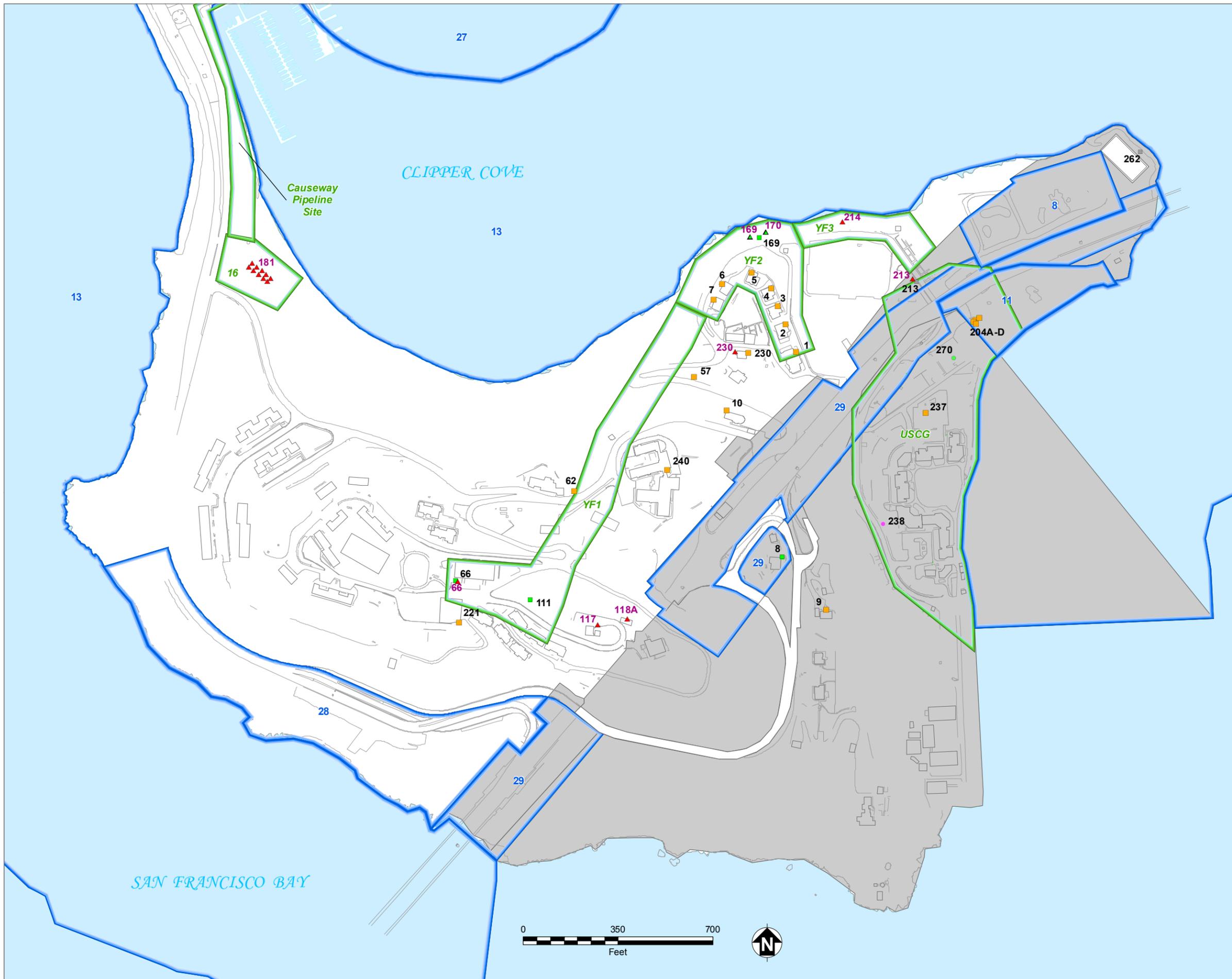
UST and AST point locations are not actual USTs or ASTs drawn to scale or shape for the purpose of this figure. The point locations are used to show relative locations of USTs and ASTs.



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**FIGURE 7**  
**UNDERGROUND STORAGE TANKS**  
**LOCATION MAP**  
**TREASURE ISLAND**

Site Management Plan 2013



Area of Interest

- 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
  - Caltrans and USCG Property
  - ▭ Building
  - Road Edge

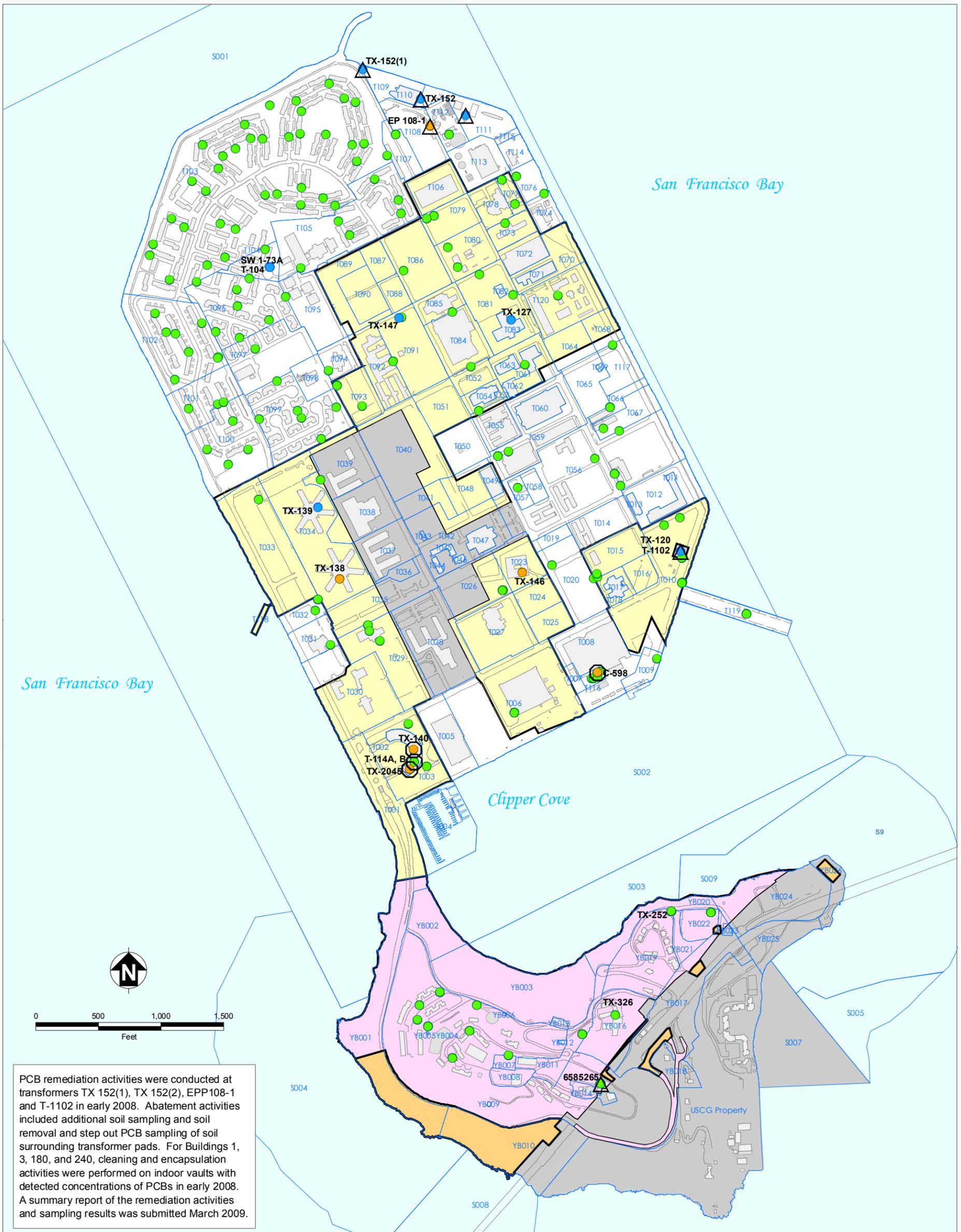
- Notes:
- AST Aboveground Storage Tank
  - CAP Corrective Action Plan
  - CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
  - NFA No Further Action
  - USCG United States Coast Guard
  - UST Underground Storage Tank
  - YBI Yerba Buena Island

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 8**  
**UNDERGROUND STORAGE TANKS**  
**LOCATION MAP**  
**YERBA BUENA ISLAND**  
Site Management Plan 2013



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 was 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

- 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 areas on TI and YBI are untransferred, except for the Job Corps, Caltrans, and U.S. Coast Guard properties. This also includes the submerged area south of Parcel 1.

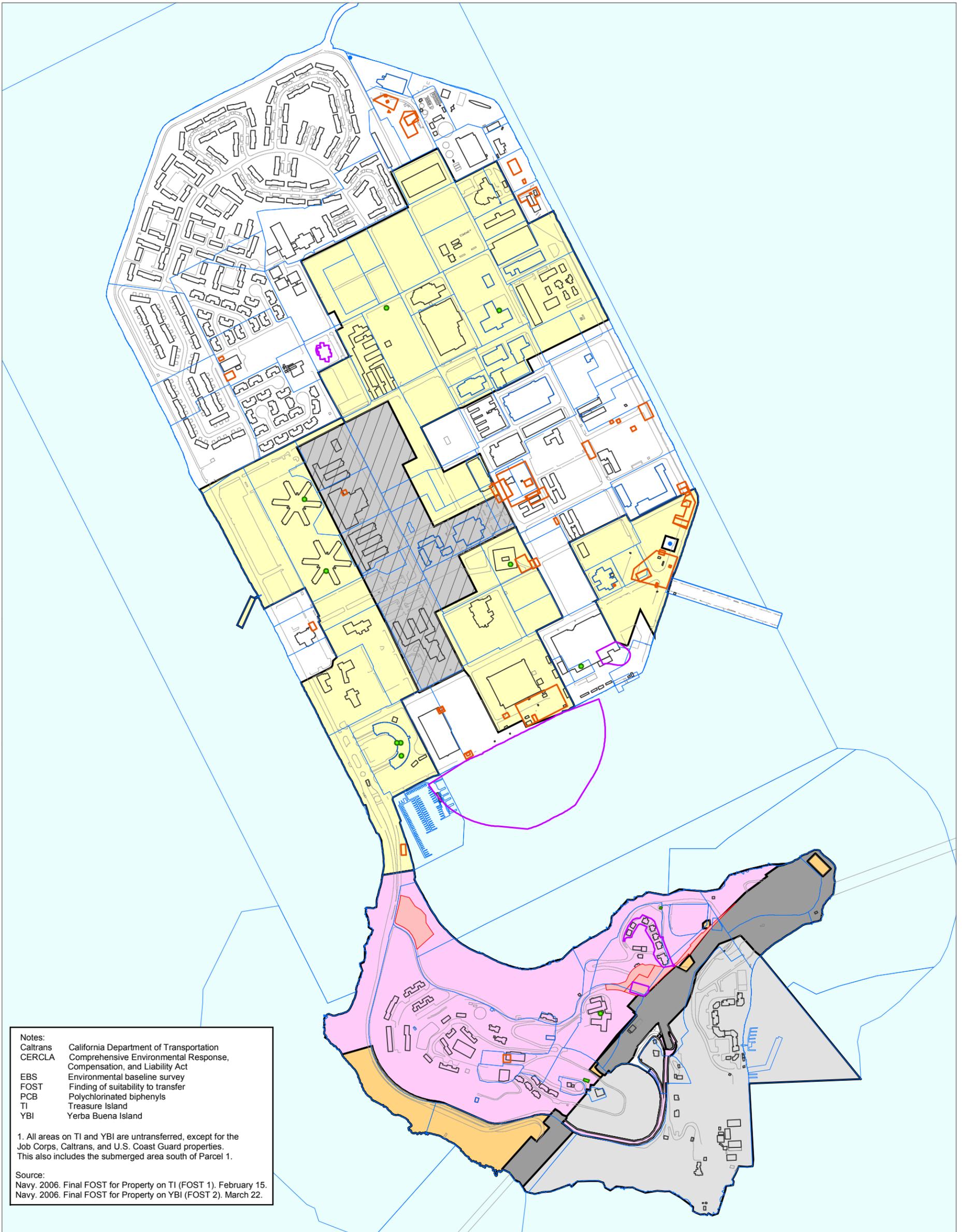
Comparison Criteria  
 Low Occupancy Criteria = 25 mg/kg or 100 µg/100 cm<sup>2</sup>  
 High Occupancy Criteria = 1 mg/kg or 10 µg/100 cm<sup>2</sup>

µg      Micrograms  
 cm<sup>2</sup>    Centimeters 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

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

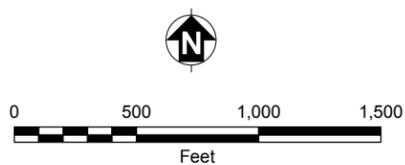
**FIGURE 9  
 PCB PROGRAM STATUS**

Site Management Plan 2013



- PCB Site Subject to Restriction
  - PCBs Remediated, NFA Concurrence Received
  - ▭ Areas Requiring Restriction for Residual Petroleum
  - ▭ Areas Requiring Restriction for Non-Petroleum Related Constituents
- TRANSFER PARCELS**
- ▭ TI FOST Property (FOST 1)
  - ▭ YBI FOST Property (FOST 2)
  - ▭ YBI FOST Property (FOST 3)
  - ▭ Ramp Parcel
  - ▭ Caltrans Property
  - ▭ Job Corps Property
  - ▭ U.S. Coast Guard Property

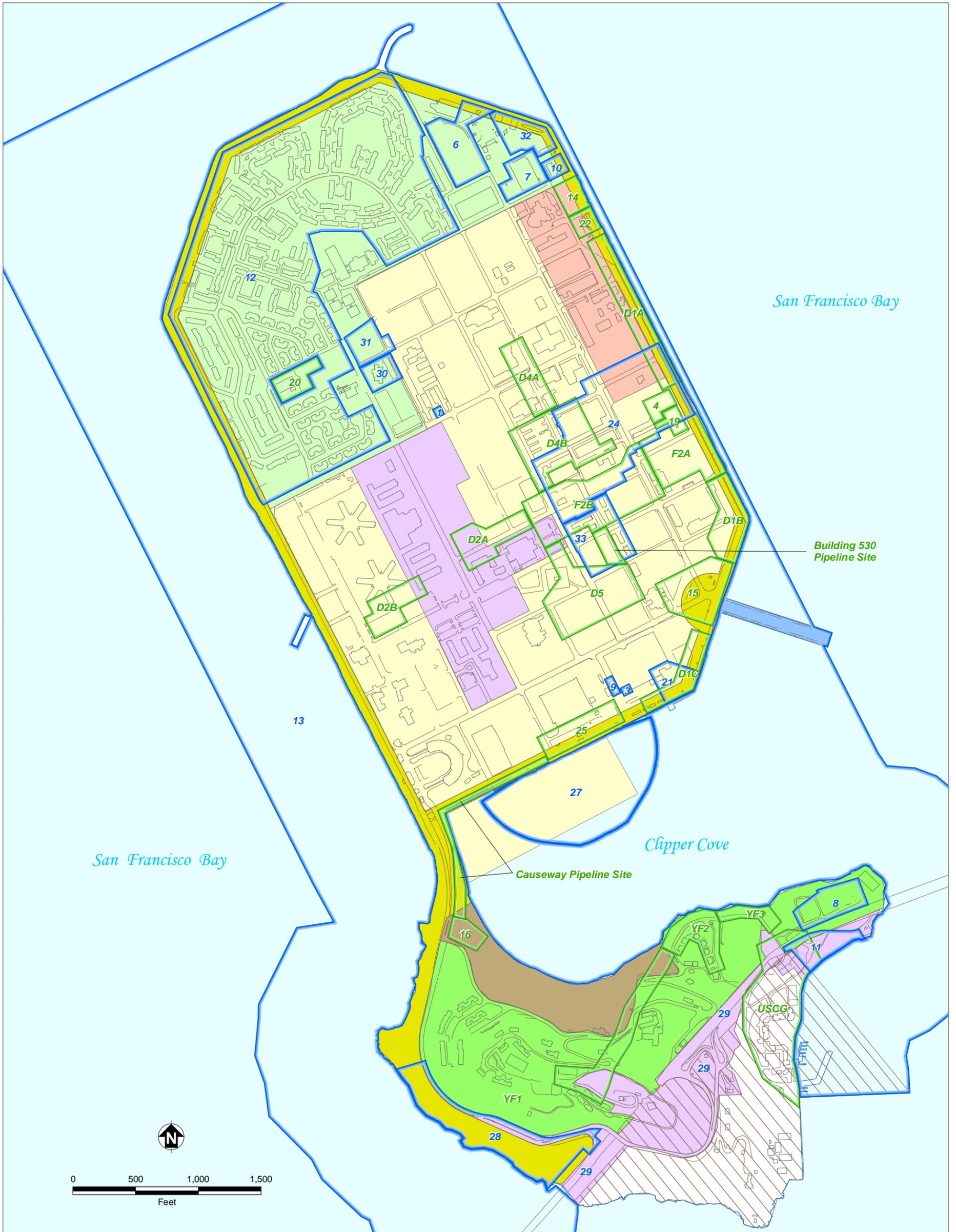
- ▭ EBS Parcel
- ▭ Building
- ▭ Appurtenance
- ▭ Road Edge



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**FIGURE 10**  
**ENVIRONMENTAL RESTRICTION AREAS,**  
**TRANSFER AND EBS PARCELS**

Site Management Plan 2013



**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

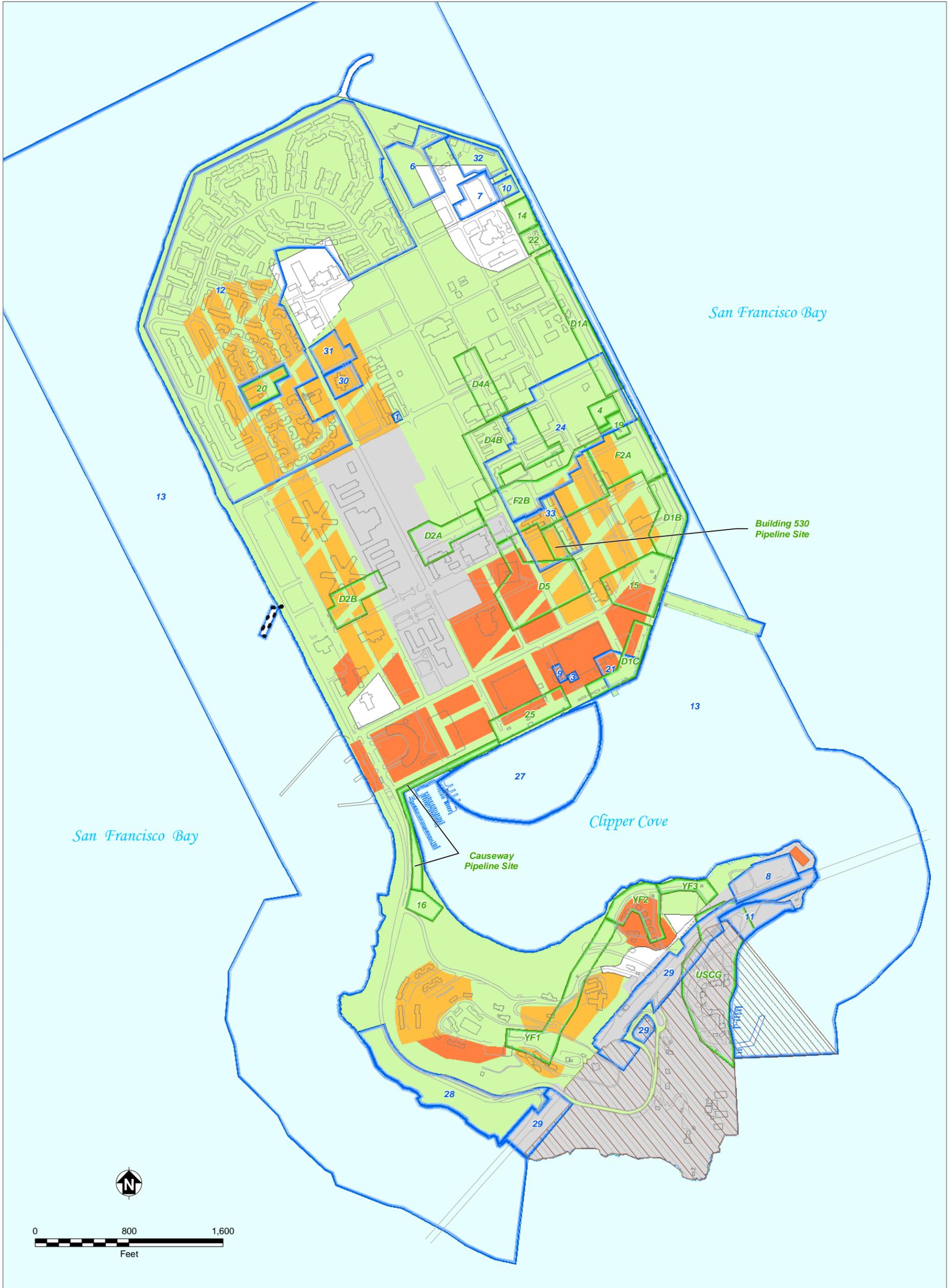
Notes:  
 CCSF City and County of San Francisco  
 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act  
 USCG United States Coast Guard

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.



**Naval Station Treasure Island**  
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**FIGURE 11**  
**1996 PLANNED REUSE AREAS,**  
**CERCLA AND PETROLEUM**  
**INVESTIGATION SITES**  
 Site Management Plan 2013



**Conceptual Land Plan**

- Open-Space
- Residential
- Mixed Use
- Public (Federal Use)
- Public Services/Civic/Institutional
- Pier to be removed
- USCG Guard Property

- CERCLA Program Site
- Petroleum Program Site
- USCG Guard Property
- Building
- Road Edge

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

Property planned for the tidelands trust is not shown for illustrative clarity.

Source: Final EIR (April 2011)



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

**FIGURE 12**  
**2011 CONCEPTUAL LAND PLAN,**  
**CERCLA AND PETROLEUM**  
**INVESTIGATION SITES**  
 Site Management Plan 2013

**APPENDIX A**  
**SITE SUMMARY INFORMATION**

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[Petroleum Program](#)

[Compliance and Basewide Programs](#)

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**CERCLA PROGRAM**

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## 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 offsite 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. The Department of the Navy (Navy) received site closure concurrence from the Department of Toxic Substances Control (DTSC) on March 20, 2002 and no further documentation for supplemental site inspection (SI) report was required.

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

<b>Transfer Category</b>	Upcoming FOST
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	0.15
<b>Source of Concern</b>	Storage and repair area for PCB equipment
<b>Contaminants of Concern</b>	PCBs
<b>Interim Actions</b>	None
<b>Current Status</b>	Received site closure concurrence from DTSC on March 20, 2002. No further documentation for supplemental SI report is required.
<b>USTs/ASTs</b>	None
<b>Site Closeout</b>	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 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 near 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 (the site of former USTs 240A and 240B, managed under the Petroleum Program). DTSC did not concur with the request to modify the boundary due to lack of sufficient evidence that the Site 6A area was not impacted by CERCLA related contaminants.

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.

Starting in 2008, Site 6 has been used as a temporary excavated soil staging and loading area, including the radiologically controlled 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). Since 2008, soils have not been stockpiled at Site 6 while awaiting off-site removal. However, low level radiological waste that has been characterized and placed in sealed bins is stored in the Site 6 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. The Navy is currently preparing a contract for the FSS that will be performed at Site 6.

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. 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 completed a removal action near the USTs (240 series) that were previously removed. The combined RI/FS report was finalized in October 2012. The Navy is preparing a Proposed Plan/Draft Remedial Action Plan (PP/Draft RAP) and is planning a FSS for the site.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	4.54
<b>Sources of Concern</b>	USTs, firefighting training area, OWSs
<b>Contaminants of Concern</b>	Dioxins and furans, total petroleum hydrocarbons (TPH), VOCs, polycyclic aromatic hydrocarbons (PAH)
<b>Interim Actions</b>	<ul style="list-style-type: none"> <li>• USTs removed in 1992, 1995, and 2002.</li> <li>• Floating product removal action completed in 2002.</li> </ul>
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• RI/FS is complete.</li> <li>• Removal action of USTs (240 series) is complete.</li> <li>• PP/Draft RAP is being prepared.</li> <li>• FSS is being planned.</li> <li>• Annual groundwater monitoring continues.</li> </ul>
<b>USTs/ASTs</b>	<ul style="list-style-type: none"> <li>• AST 248 and USTs 240A, 240B, 248A, 248B, 248C, and 248D: all are removed and awaiting no further action (NFA) concurrence.</li> <li>• Previously suspected UST M received concurrence on NFA December 2, 2003.</li> </ul>
<b>Estimated Site Closeout</b>	CERCLA Closeout: November 2016

## 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.

<b>Transfer Category</b>	Upcoming FOST
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	2.22
<b>Source of Concern</b>	Pesticide storage; WWTP sludge
<b>Contaminants of Concern</b>	Metals, pesticides, and herbicides
<b>Interim Actions</b>	None
<b>Current Status</b>	<ul style="list-style-type: none"><li>• Supplemental SI report was submitted for NFA October 18, 2002.</li><li>• Letter report requesting closure following discussions of Site 32 results submitted October 3, 2005.</li><li>• Received site closure concurrence from DTSC on November 1, 2005.</li></ul>
<b>USTs/ASTs</b>	None
<b>Site Closeout</b>	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 (SLERA) 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 (1) fully delineate the extent and magnitude of lead in surface soils at Sites 8, 11, and 29; (2) collect additional soils data for comparison to the validation study results; and (3) 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 American Aerial Surveys Inc. on May 10, 2012.

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

<b>Transfer Category</b>	Upcoming FOST
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	0.28
<b>Source of Concern</b>	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.
<b>Contaminants of Concern</b>	Iron, benzo(a)pyrene, dibenz(a,h)anthracene
<b>Interim Actions</b>	None
<b>Current Status</b>	No action ROD signed on October 2, 2007.
<b>USTs/ASTs</b>	AST 3; removed
<b>Site Closeout</b>	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 at Site 14/22 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 analytical results were reviewed with the BCT, and, based on concurrence from the DTSC, the trench was backfilled with clean soil. The removal of the dioxin in soils was documented in the 2006 PP for Site 10.

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.

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

## SITE 11 – YBI LANDFILL

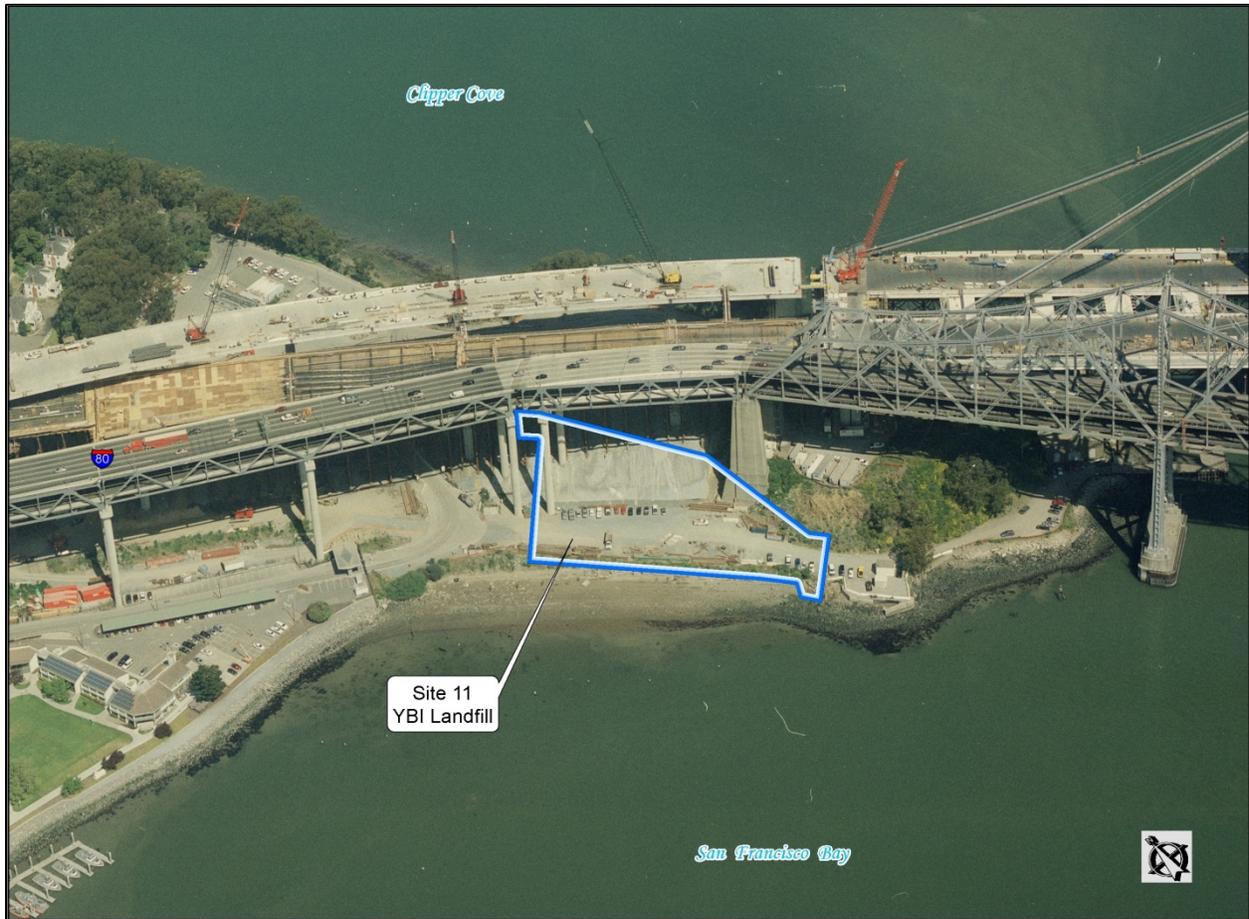
Site 11, the YBI Landfill, is an approximately 200-foot by 600-foot former marsh area on the southern side of the eastern tip of YBI. This site was identified as a disposal area in a 1935 topographic map. The exact dates of sanctioned landfill operation have not been established. Signs in the area currently 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 (1) fully delineate the extent and magnitude of lead in surface soils at Sites 8, 11, and 29; (2) collect additional soils data for comparison to the validation study results; and (3) 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 American Aerial Surveys Inc. on May 10, 2012.

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

## **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 (Bayside), 1231/1233 (North Point), 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 four 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. When all removal action activities are complete, the Navy will conduct a residual risk evaluation for the SWDAs that will be included in an FS addendum. In addition, a 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 2014. For some of the SWDA areas, the NTCRA will be completed in two (1207/1209 and 1231/1233) or three phases (A&B) of work due to funding and contracting and complexity. Buildings 1121, 1123, 1321, and 1323 were demolished in 2013 to allow the NTCRA to continue in the area of SWDA A&B. Please also see page A-54, summary of [Radiological Program](#) under Compliance and Basewide Program section.

### **Bigelow Court**

Bigelow Court, located in the central portion of Site 12, was identified as a SWDA during sampling activities in 2001. A removal action was conducted 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 will be delayed until 2014.

## **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 near 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 human health risk in the area was evaluated as part of the Site 12 RI report in 2012.

## **Investigation of Arsenic in Groundwater**

Investigations at Site 12 identified elevated concentrations of arsenic in groundwater near 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 near 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, and again in July 2012 near Buildings 1311 and 1313. Based on the presence of TPH with arsenic in groundwater, the Navy ceased pilot study activities in 2011 and further action in this area will be addressed in the FS.

## **Remedial Investigation / Feasibility Study**

As part of the RI, the Navy performed a soil gas investigation in November 2008. The technical memorandum reporting the results of the soil gas investigation was finalized in June 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, was finalized on June 20, 2012. The Navy conducted data gap sampling in February 2013 and is currently preparing an FS.

## **Radiological**

The Navy is planning to conduct survey investigation of areas within Site 12 and outside the known SWDAs in fall 2013. Results will be provided in a summary report. In addition, soil sampling within the 1400 series housing of Site 12 was conducted from November to December 2013 to collect additional radiological information. The results are pending. Please also see the summary of the [Radiological Program](#) on page A-54.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	93.2
<b>Source of Concern</b>	Incinerator; debris disposal areas; former storage yard
<b>Contaminants of Concern</b>	PCBs, PAHs, dioxins, TPH, metals, Radium-226, and debris
<b>Interim Actions</b>	<ul style="list-style-type: none"> <li>• First soil removal action conducted at SWDA 1207/1209 between June and August 1999 for constituents including lead, antimony, arsenic, copper, dioxins, and TPH.</li> <li>• Second soil removal action conducted at SWDA A&amp;B, during the summer 1999 for constituents including lead, aluminum, copper, and TPH.</li> <li>• Third soil removal action conducted at former storage yard at Halyburton and Bigelow Courts in 2000 to 2001 for constituents including PCBs, PAHs, and benzo(a)pyrene equivalent.</li> <li>• Fourth soil removal action conducted in areas of Buildings 1252, 1254, 1246, 1248, and 1413 in October and November 2001 for constituents including PCBs and PAHs.</li> </ul>
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• NTCRA of SWDAs is underway (with MARSSIM FSS surveys).</li> <li>• NTCRA Work Plan for Bigelow Court is being prepared..</li> <li>• Non-SWDA radiological survey of Site 12 is being conducted.</li> <li>• FS is being finalized.</li> </ul>
<b>USTs/ASTs</b>	One previously suspected UST received NFA concurrence from the Regional Water Board December 2, 2003.
<b>Estimated Site Closeout</b>	December 2020

## **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.

<b>Transfer Category</b>	Upcoming FOST
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	520
<b>Source of Concern</b>	Storm drains, storm water outfalls
<b>Contaminants of Concern</b>	Metals, PAHs, PCBs, DDT, and TPH
<b>Interim Actions</b>	None
<b>Current Status</b>	No action ROD signed on April 7, 2005.
<b>USTs/ASTs</b>	None
<b>Site Closeout</b>	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 southeast corner of Building 3 and 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.

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. 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. 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 (IC) for the site. At the request of the BCT, the Navy conducted a soil gas investigation at the site in February 2012 and finalized the HHRA addendum in November 2012 to present the results of the soil gas sampling. The ROD/RAP was finalized in February 2013 and the selected remedy consisted of ICs to address chlorinated VOCs in groundwater, and continue soil gas and groundwater monitoring to confirm that the human health risk from the vapor intrusion pathway remains within or below the risk management range for non-residential users. Groundwater and soil gas monitoring will continue through at least the first five year review in 2014. The Land Use Control (LUC) Remedial Design (RD)/Remedial Action Work Plan (RAWP) was finalized in October 2013. The Navy will prepare a RACR in 2014.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	CERCLA, UST
<b>Acreage</b>	2
<b>Source of Concern</b>	OWS; ASTs; petroleum, oil, lubricants lines; dip tank
<b>Contaminants of Concern</b>	VOCs and TPH
<b>Interim Actions</b>	Treatability study for VOC source area
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• Groundwater monitoring continues.</li> <li>• ROD/RAP has been finalized.</li> <li>• LUC RD/RAWP was finalized.</li> <li>• RACR will be prepared.</li> </ul>
<b>USTs/ASTs</b>	ASTs 12A through 12E removed
<b>Estimated Site Closeout</b>	September 2014

## **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 5 (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 4/19, 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 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 on August 19, 2005.

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 was 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 pilot treatability study was conducted in the source area under Building 99, May 2003 through March 2004, to evaluate anaerobic in situ bioremediation 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 in situ bioremediation 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 near Building 99 and to test reversal of the injection and extraction pump system to optimize bioorganism circulation and degradation. The treatability study report for Phases I and II was finalized in November 2011 when Phase III began. Phase III was intended to promote the enhanced degradation of chlorinated ethenes in groundwater areas of low and medium concentrations. This enhanced degradation was to reduce or eliminate a continuing source for soil gas contamination, via a vapor intrusion pathway, and potentially reduce the need for LUCs. Phase III treatment was completed in December 2012 and the Phase III Treatability Study report was finalized in August 2013.

In 2012, a 3-dimensional visualization and groundwater remedy optimization analysis was conducted. This analysis resulted in an updated conceptual site model, identification of groundwater data gaps in the lower portions of the shallow plumes, qualitative confirmation of plume reductions, and identification of potential strategies for source area remediation.

The Site 24 Final RI/FFS was submitted July 3, 2008. Annual groundwater monitoring continues. In December 2013, the Navy expanded the site boundary to encompass the entire VOC plume detected following the Phase I Treatability Study. The Navy is currently preparing a FFS Addendum for the site to address source area remediation and radiation issues.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	Petroleum; CERCLA; UST
<b>Acreage</b>	20.46
<b>Source of Concern</b>	Solvent spills and leaks within Building 99; petroleum, oil, lubricants
<b>Contaminants of Concern</b>	Petroleum, oil, lubricants, chlorinated solvents
<b>Interim Actions</b>	Treatability study for VOC source and plume areas
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• Groundwater monitoring continues.</li> <li>• FFS Addendum is being prepared.</li> </ul>
<b>USTs/ASTs</b>	<ul style="list-style-type: none"> <li>• UST 230 closed by the Regional Water Board in 1997.</li> <li>• ASTs 103, 104 received NFA concurrence from the Regional Water Board May 9, 2005.</li> <li>• ASTs 455A-D (boiler additives) are noted as inactive.</li> </ul>
<b>Estimated Site Closeout</b>	June 2017

## **SITE 27 – CLIPPER COVE SKEET RANGE**

Site 27, located in Clipper Cove, is situated directly between TI and YBI. Until 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, no further action was necessary as PAHs and lead detected in the soil were found to not pose unacceptable risk to human health or the environment. 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. The ROD/RAP was signed and finalized on March 28, 2012 and the selected remedy consisted of focused dredging and backfilling the area within 75 feet of the shoreline, offsite disposal, and ICs to minimize sediment disturbing activity. The remedy removes a potentially complete exposure pathway for diving ducks to access the lead shot in sediment that poses a risk. No CERCLA action was required to protect human health. The RD was finalized on May 23, 2013, and the RAWP was finalized on July 12, 2013. The remedial action (RA) began in July 2013 and was completed on November 29, 2013. A RACR and addendum to the LUC RD are being prepared.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	18.77
<b>Source of Concern</b>	Skeet range
<b>Contaminants of Concern</b>	Lead shot, lead, and PAHs
<b>Interim Actions</b>	None
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• RD and RAWP were finalized.</li> <li>• Remedial action was completed November 29, 2013.</li> <li>• A RACR and LUC RD Addendum are being prepared.</li> </ul>
<b>USTs/ASTs</b>	None
<b>Estimated Site Closeout</b>	Not applicable, site ICs and five-year review process will continue

## **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 area beneath the bridge until 2001, when the FHWA transferred the bridge right-of-way from the Navy to Caltrans. A CERCLA site boundary change in June 2005 transferred the southernmost portion of Site 28 to Site 29. This was done so that the remaining area of Site 28 would remain as Navy property, and most of Site 29 would be Caltrans property. 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 SLERA 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 American Aerial Surveys Inc. on May 10, 2012.

<b>Transfer Category</b>	YBI FOST 3
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	10.53
<b>Source of Concern</b>	LBP from the Bay Bridge
<b>Contaminants of Concern</b>	Lead
<b>Interim Actions</b>	None
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• NFA PP was finalized in May 2010.</li> <li>• NFA ROD was signed November 22, 2010.</li> </ul>
<b>USTs/ASTs</b>	None
<b>Estimated Site Closeout</b>	April 2014 (time 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 area beneath the bridge until 2001, when the FHWA transferred the bridge right-of-way 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 boundary change did not add or delete acreage to the total of Site 28 and Site 29, but only transferred a portion of Site 28 to Site 29. 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 SLERA 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 (1) fully delineate the extent and magnitude of lead in surface soils at Sites 8, 11, and 29; (2) collect additional soils data for comparison to the validation study results; and (3) 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 as no unacceptable risk to human health or the environment has been found in these three areas.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

<b>Transfer Category</b>	On Caltrans-owned property. On Caltrans temporary construction easement property.
<b>Regulatory Classification</b>	CERCLA, UST
<b>Acreage</b>	15.13
<b>Source of Concern</b>	LBP from the Bay Bridge, fuel line
<b>Contaminants of Concern</b>	Lead and SVOCs
<b>Interim Actions</b>	None
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• Interim RI report (for Sites 8 and 29) was submitted in March 2009.</li> <li>• Navy is discussing site closeout with Caltrans.</li> </ul>
<b>USTs/ASTs</b>	<ul style="list-style-type: none"> <li>• UST Quarters 8: removed, received NFA concurrence from the Regional Water Board October 3, 1997.</li> <li>• UST 213, previously suspected, never existed: received NFA concurrence from the Regional Water Board December 2, 2003.</li> <li>• UST 270: received case closure letter from the Water Board February 10, 2004.</li> </ul>
<b>Estimated Site Closeout</b>	January 2020

## **SITE 30 – DAYCARE CENTER**

Site 30, Daycare Center (Building 502), 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 due to the adjacent location of the daycare center (Building 502) and could not be removed. The site was designated as a CERCLA site in September 2002. In January 2003, the Navy 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 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 and the selected remedy was engineering controls and ICs to address the principal threats by preventing exposure to potentially contaminated soils beneath the building and allow the site to be used in current and future uses as a daycare center. The LUC RD/RAWP was finalized on November 24, 2010. Annual LUC inspections and reporting are ongoing and have observed that no violations to the LUCs have occurred. Based on the results of the draft Historical Radiological Assessment Supplemental Technical Memorandum (HRASTM) regarding the adjacent former salvage yard, a radiological survey will be conducted at Site 30 in 2014.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	1.46
<b>Source of Concern</b>	Burn debris disposal area
<b>Contaminants of Concern</b>	Dioxins and metals
<b>Interim Actions</b>	Time-critical removal actions in July 2002 and agency-approved concrete cap installed January 2003.
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• Annual LUC inspections and reporting are ongoing.</li> <li>• Radiological survey work plan is being prepared.</li> </ul>
<b>USTs/ASTs</b>	None
<b>Estimated Site Closeout</b>	June 2015

## **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 (SFUSD) on May 13, 1996 for the elementary school and associated playground. The school had originally been constructed by SFUSD around 1968 when the military housing was built, and was operated under a previous agreement with the Navy until the 1996 lease agreement.

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.

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 Site 31 boundary, which is adjacent to Site 30, was modified in April 2005 to include the sidewalks on the south side of 11th Street.

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. During the fieldwork, radium-226 was also detected at the site.

The Navy finalized a RAWP on January 27, 2012, for additional excavation and radiological characterization of soil (referred to as Phase II) at Site 31. The Navy is completing the Phase II soil removal action for Site 31 and included radiological characterization because of the site’s proximity to Site 12, site history, and presence of debris at the site. The Navy will backfill the excavations, conduct a gamma walkover survey, and prepare a Remedial Action Completion Report (RACR) and FSS for Site 31 in 2014.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	2.02
<b>Source of Concern</b>	Storage yard, burn debris disposal
<b>Contaminants of Concern</b>	Lead, dioxins, PAHs, TPH, and radium-226
<b>Interim Actions</b>	None
<b>Current Status</b>	Phase II soil remediation and FSS is being conducted.
<b>USTs/ASTs</b>	None
<b>Estimated Site Closeout</b>	September 2014

## **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 Building 462 and area of former Building 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 [HRA]” by Weston Solutions, Inc., published February 2006. The HRA evaluated past operations in the vicinity and determined that radiological issues were not a concern at Site 32. 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 CERCLA boundary between Sites 6 and 32 was made in June 2005 to move a small portion of EBS Parcel T111 from Site 32 into Site 6 based on dioxin data that had been collected in that parcel. 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 was finalized on October 30, 2008. 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 was completed in February 2012, and a groundwater monitoring summary report was finalized in July 2012. All concentrations of contaminants of concern (COC) were either non-detected or detected at low-levels during all four quarterly sampling events. There is no indication of existence of the residual petroleum contamination in the groundwater. No further actions were recommended for groundwater at Site 32. A post-construction summary report (PCSR) was finalized in July 2011. The Navy was not required to prepare a FS under CERCLA because the TSCA cleanup action removed all soil containing PCBs above the cleanup level of 1 milligram per kilogram and also removed all other constituents that exceeded NAVSTA TI cleanup goals. Because there is no longer an unacceptable risk to human health or the environment, no additional cleanup action is necessary for Site 32. Both the PP/Draft RAP was finalized September 16, 2011, and a public meeting was held on September 28, 2011. A ROD/RAP is on hold pending the results of a radiological survey of the former Pandemonium mockup location, which is being reevaluated based on a review of existing data after the 2006 HRA was completed (see page A-54, summary of [Radiological Program](#) under Compliance and Basewide Program section). The draft ROD is planned to be issued in 2014.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

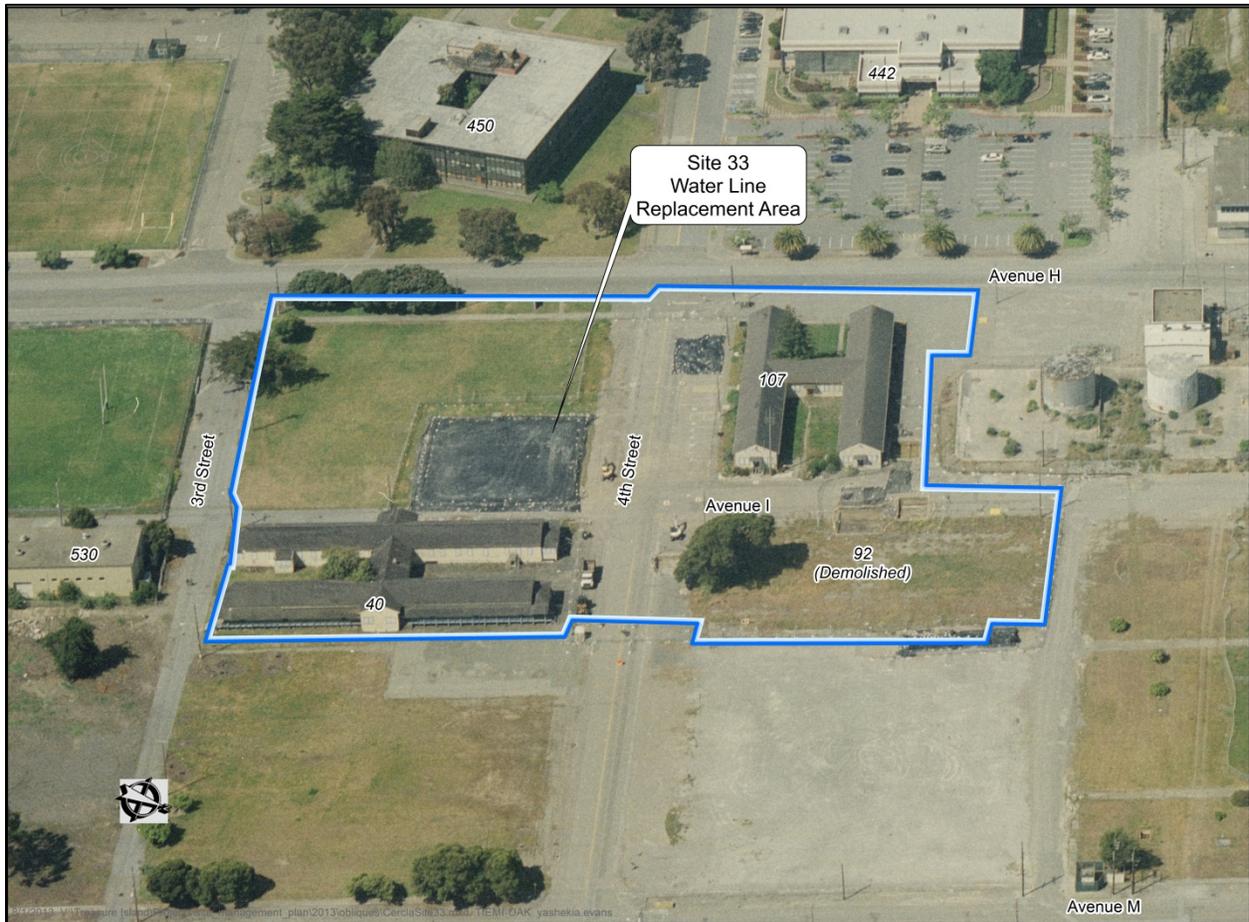
<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	2.60
<b>Source of Concern</b>	Transformer, storage area
<b>Contaminants of Concern</b>	PCBs, TPH, dioxins, pesticides, arsenic
<b>Interim Actions</b>	TSCA soil removal in 2010.
<b>Current Status</b>	Phase II of remedial action is being completed and followed by a FSS Draft ROD to be prepared in 2014.
<b>USTs/ASTs</b>	None
<b>Estimated Site Closeout</b>	March 2015

## **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 and between September and November 2003. Soil and groundwater samples were collected. Soil samples contained concentrations of dioxins and metals. The site was designated as a CERCLA site on April 6, 2004. An additional groundwater investigation was conducted in the summer 2005. Groundwater samples contained concentrations of copper, lead, mercury, nickel, silver, and zinc. 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 finalized a RAWP on January 27, 2012, for excavation and potential radiological characterization of soil at Site 33. The Navy completed the soil remediation for Site 33 and will backfill the site in winter 2013. Radium-226 screening was conducted during the removal action because of the presence of debris at the site and because the 2006 HRA stated that the Navy would evaluate the site further. The Navy is preparing a RACR for Site 33.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	CERCLA
<b>Acreage</b>	4.89
<b>Source of Concern</b>	Debris disposal area
<b>Contaminants of Concern</b>	Arsenic and lead
<b>Interim Actions</b>	None
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• Phase II soil remediation is being completed.</li> <li>• The RACR is being prepared.</li> </ul>
<b>USTs/ASTs</b>	None
<b>Estimated Site Closeout</b>	June 2014

## **PETROLEUM PROGRAM**

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## **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 with Parcels T066/T117 in 2004 at the request of the BCT. Based on the analytical results, the Navy recommended no further investigation in the field activity report in May 2005.

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

Since 2008, Site 6 was used as a temporary excavated soil staging and loading area, including the RCA for the Site 12 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). Since 2008, soils have not been stockpiled at Site 6. Low level radiological waste that has been characterized and placed in sealed bins is stored in the Site 6 RCA while awaiting off-site disposal. Once the Site 12 NTCRA has been completed, a MARSSIM FSS will be conducted at Site 6.

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 finalized the combined RI/FS in October 2012. To address the concerns expressed by the Regional Water Board, the Navy completed a corrective action near the USTs (240 series previously removed) in March 2013. The Navy is currently preparing a PCSR for the UST 240 removal action and will be requesting regulatory closure for USTs 240 and 248 in 2016, following a year of post-corrective action groundwater monitoring at USTs 240.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	Petroleum; CERCLA
<b>Acreage</b>	3.45
<b>Sources of Concern</b>	USTs, firefighting training area, OWSs
<b>Contaminants of Concern</b>	Petroleum (CERCLA contaminants include:dioxins and furans, VOCs, PAH)
<b>Interim Actions</b>	<ul style="list-style-type: none"> <li>• USTs removed in 1992, 1995, and 2002.</li> <li>• Floating product removal action completed in 2002.</li> </ul>
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• Annual groundwater monitoring continues.</li> <li>• Removal action of USTs (240 series) is completed.</li> </ul>
<b>USTs/ASTs</b>	<ul style="list-style-type: none"> <li>• AST 240, 248 and USTs 240A, 240B, 248A, 248B, 248C, and 248D all are removed and awaiting NFA concurrence.</li> <li>• Previously suspected UST M received concurrence on NFA December 2, 2003</li> </ul>
<b>Estimated Site Closeout</b>	October 2016

## 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. The site received NFA concurrence from the Regional Water Board in July 2005.

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

<b>Transfer Category</b>	2006 TI FOST (FOST 1), Upcoming FOST
<b>Regulatory Classification</b>	Petroleum
<b>Acreage</b>	4.87
<b>Source of Concern</b>	ASTs; petroleum/pipelines
<b>Contaminants of Concern</b>	Petroleum, oil, lubricants
<b>Interim Actions</b>	Tank removals completed and excavation of petroleum contamination completed.
<b>Current Status</b>	NFA concurrence received from Regional Water Board in September 2004.
<b>USTs/ASTs</b>	ASTs 4M, 5M, 6M, 34A, 34B; removed
<b>Site Closeout</b>	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. The Navy requested NFA for the site in April 2004 and received NFA concurrence from the Regional Water Board on June 17, 2004.

<b>Transfer Category</b>	2006 YBI FOST (FOST 2)
<b>Regulatory Classification</b>	Petroleum
<b>Acreage</b>	1.22
<b>Source of Concern</b>	ASTs
<b>Contaminants of Concern</b>	Petroleum, oil, lubricants
<b>Interim Actions</b>	Tank removal action completed; soil excavation completed.
<b>Current Status</b>	NFA concurrence received from Regional Water Board on June 17, 2004.
<b>USTs/ASTs</b>	10 ASTs removed
<b>Site Closeout</b>	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 near the former USTs and in two areas of surface contamination. The Navy received Regional Water Board concurrence on NFA for USTs at Site 20 on May 5, 2004, and received an overall site closure on June 17, 2004.

<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	Petroleum; UST
<b>Acreage</b>	1.63
<b>Source of Concern</b>	Maintenance yard; USTs
<b>Contaminants of Concern</b>	Petroleum, oils, lubricants, VOCs
<b>Interim Actions</b>	UST corrective action completed; soil excavation completed.
<b>Current Status</b>	NFA concurrence letter received for USTs 225A through 225D; overall site closure letter received on June 17, 2004.
<b>USTs/ASTs</b>	USTs 225A through 225D removed
<b>Site Closeout</b>	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 through 2008. In early 2009 soil samples were collected to confirm post-treatment concentrations of TPH. Results of the groundwater and 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 Regional 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.

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

## UST SITES (SITE 26)

Site 26 includes all USTs that 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 USTs 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 USTs mentioned previously, numerous USTs 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 UST identified to one of three categories:

- **Known USTs:** USTs that are known to have existed.
- **Suspected USTs:** USTs that are suspected to have existed but that were removed previously or that may have been abandoned.
- **Previously suspected USTs:** 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 RAs 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 7 and 8](#), respectively.

### **Previously Suspected USTs with NFA Concurrence**

Regulatory concurrence for NFA was received December 2, 2003, for 16 previously suspected USTs 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 USTs with Regulatory Closure or NFA Concurrence**

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

<b>USTs with NFA Concurrence</b>		
<b>Letter Date</b>	<b>TI UST</b>	<b>YBI UST</b>
July 23, 2002	--	1 through 7, 9, 10, 62, 240
September 5, 2003	234	57
February 12 <sup>6</sup> , 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	--

<b>Closed USTs</b>		
<b>Letter Date</b>	<b>TI UST</b>	<b>YBI UST</b>
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	--

### **USTs 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 UST closure for six USTs: 240A, 240B, and 248A through 248D. The suspected USCG USTs on YBI (UST 238) requires additional investigation.

<sup>6</sup> This date is approximate; the date on the letter is illegible.

### **USTs Requiring Additional Investigation Prior to Closure or NFA Concurrence**

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

### **USTs Proposed for Closure**

Work has been completed at six USTs on TI at Site 6, including: 240A, 240B, and 248A through 248D. These USTs were proposed for closure in the Site 6 closure reports and have undergone additional investigation. Regulatory closure will be requested in 2016.

<b>Transfer Category</b>	2006 TI and YBI FOSTs (FOSTs 1 and 2), various FOST parcels in upcoming FOST
<b>Regulatory Classification</b>	Petroleum
<b>Acreage</b>	Not applicable
<b>Source of Concern</b>	USTs, ASTs
<b>Contaminants of Concern</b>	Petroleum
<b>Interim Actions</b>	None
<b>Current Status</b>	<ul style="list-style-type: none"><li>• The following tanks were previously proposed for closure and have undergone additional investigation:<ul style="list-style-type: none"><li>○ Site 6 (240A, 240B, 248A, 248B, 248C, and 248D)</li></ul></li></ul>
<b>USTs/ASTs</b>	Not Applicable
<b>Site Closeout</b>	October 2016 for Site 6 USTs 240 and 248 series; November 2017 for suspected USCG UST 238

## **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 8](#) 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 or evaluations are expected include the YF3 and USCG sites. An investigation of petroleum contamination at Inactive Fuel Line YF3, identified under the Petroleum Program, were documented in the Final Field Activity Report dated March 19, 2013. As a result, the Navy is conducting a SLERA to evaluate the risks due to residual concentrations of TPH as diesel and as motor oil. The Navy expects to pursue closure of YF3 by meeting the general and media-specific criteria of the Water Board's Low-Threat Case Closure policy.

### **Remaining Fuel Pipeline Sites**

The following fuel lines on YBI have not received regulatory closure: YF3 and USCG.

### **Closed Fuel Line Pipeline Sites**

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

- Causeway Pipeline - Regional Water Board NFA concurrence letter received March 11, 2003.
- Building 530 Pipeline - Regional Water Board NFA concurrence letter received July 9, 2003.
- D1A, D1C, D2A, D2B, D4A, D4B, D5, and YF1 and USTs 26, 29, and 15 - Regional Water Board NFA concurrence letter received February 12, 2004.
- YF2 - Regional Water Board NFA concurrence letter received June 17, 2004.
- F2A - Regional Water Board NFA concurrence letter received May 9, 2005.
- Shallow soil at D1B - Regional Water Board NFA concurrence letter received July 20, 2005.
- F2A/F2B - Regional Water Board NFA concurrence letter received August 22, 2005.
- D1B - Regional Water Board NFA concurrence letter dated May 15, 2006.

<b>Transfer Category</b>	2006 TI and YBI FOSTs (FOSTs 1 and 2), and various FOST parcels in an upcoming FOST
<b>Regulatory Classification</b>	Petroleum
<b>Acreage</b>	Not applicable
<b>Source of Concern</b>	Pipeline
<b>Contaminants of Concern</b>	Petroleum
<b>Interim Actions</b>	Pipeline removal action completed; floating product removal completed.
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• YF3 - Additional investigation completed, SLERA being prepared.</li> <li>• USCG - Investigations postponed until after Caltrans has completed construction in the area.</li> </ul>
<b>USTs/ASTs</b>	USTs associated with the pipelines, removed
<b>Site Closeout</b>	May 2006, with the exception of YF3 (October 2014) and USCG (July 2019) sites

## **COMPLIANCE AND BASEWIDE PROGRAMS**

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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 9). 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.

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).

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 (see Figure 9). 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 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. The following table lists the locations identified in the February 2008 PCB summary report as requiring ICs. Locations in this table determined to contain elevated PCB concentrations and that will be addressed through LUCs will be further addressed and defined by the Navy during the transfer of NAVSTA TI.

Locations Requiring Institutional Controls				
6585265	T-114A and B	TX-118	TX-139	TX-147
C-598	T-1012	TX-127	TX-140	TX-252
SW-1144	T-1016	TX-138	TX-146	TX-2045
SW-1146	T-1018			

In addition, seven locations were identified in the February 2008 PCB summary report as requiring remediation: EP-108-1, T-1102, TX-120, TX-152(1), TX-152(2), SW1-73A/B/C, and T-104. All seven locations were subsequently remediated. PCB abatement was performed at four of the seven locations requiring remediation (EP-108-1, T-1102, TX-120, TX-152[2]) in spring 2008 and a final summary report of activities was submitted March 9, 2009. At two of the seven locations (SW1-73A/B/C and T-104), PCB-impacted soil adjacent to Building 1102 will be addressed during the forthcoming excavation project in Site 12 at the SWDA Bigelow Court.

A removal action was completed at Site 32 and transformer location TX-152(1) under the TSCA PCB remediation program in early 2010. The Site 32 PCSR was finalized on July 13, 2011. Based on the Navy's post-remedial activity screening evaluation, residual contaminant concentrations were compared with screening criteria comprised of updated health-based

screening concentrations and site screening criteria established for Site 32 in the 2009 Work Plan. The results of these comparisons indicated that nearly all residual chemical concentrations are below updated health-based screening concentrations, and all residual concentrations are below the site screening criteria for Site 32; therefore, no further action under CERCLA was required. Furthermore, a year of post removal action groundwater monitoring was completed in February 2012, and summarized in a report finalized in July 2012. All concentrations for chemicals of concern were either non-detected or detected at low-levels during all four quarterly sampling events. NFA was recommended for groundwater at Site 32 (see previous CERCLA Site 32 discussion).

<b>Transfer Category</b>	2006 TI and YBI FOSTs (FOSTs 1 and 2), various FOST parcels (upcoming FOST)
<b>Regulatory Classification</b>	TSCA and CERCLA
<b>Source of Concern</b>	Transformers and fluid-filled electrical equipment and past disposal activities
<b>Contaminants of Concern</b>	PCBs
<b>Interim Actions</b>	None
<b>Current Status</b>	None
<b>USTs/ASTs</b>	Not applicable
<b>Site Closeout</b>	Closed (with exception of some CERCLA sites)

## 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. LBP maintenance was conducted during the winter of 2006 at Quarters 2 through 7, 240, 83, and 61. Another LBP re-evaluation of the residential housing on YBI and TI was completed in 2009 and finalized in a report dated February 28, 2011.

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 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.

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

## RADIOLOGICAL PROGRAM

Site 2 (Parcel T102, shown in [Figure 1](#) and located within the footprint of Site 12), the Radiation Training Area, was located near the intersection of 12th Street and Avenue A on the northwestern 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, within Site 32). 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 completed a basewide HRA in 2006 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. These sites included: Building 233 and its associated drain lines, four SWDAs located within Site 12, and Buildings 343 and 344.

Following the publication of the Final HRA, radiological commodities were found in the SWDAs located in Site 12 prompting increased concern with the potential for such commodities to have been disposed of in other debris disposal areas. A draft HRASTM for TI was issued in August 2012. The purpose of the document is to update any findings of the 2006 HRA and document any new areas requiring further investigation.

Building 233 (Parcel T013, shown in [Figure 1](#)), the former 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 California Department of Public Health (CDPH) 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, storm and sanitary drain lines and surrounding area 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. During the NTCRA, low level radiological items, containing radium-226, have been found within the SWDAs. Confirmation samples are being collected in the SWDA areas once excavations are completed. The Navy estimates that the removal action field work for all SWDAs will be completed in 2014. The FSS for all SWDAs will be performed in accordance with MARSSIM. The work at SWDA A&B will be conducted in three phases because of contracting purposes. SWDA Bayside/North Point will be conducted in two phases, with the second phase occurring in conjunction with the third phase of SWDA A&B. A RACR/FSS is anticipated for both SWDA A&B and Bayside/North Point after all work is complete. A MARSSIM FSS will be conducted

at Site 6 after the Site 12 NTCRA has been completed or after Site 6 ceases to be used for radiological bin storage. A detailed schedule of the radiological investigation is included in the CERCLA Sites 6, 12, 30, 31, 32, and 33, and Radiological Program 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 CDPH provided free release for Buildings 343 and 344 in 2008. An additional radiological survey is planned for adjacent Building 342 because of the presence of a counting room, as well as the outside yard area of the building compound.

In addition to the Site 12 NTCRA radiological survey work, the Navy began two basewide radiological surveys in 2013 as follows:

Part I:

- Site 32
- Site 12 non-SWDA areas and roadways
- Building 3
- Miscellaneous sewer lines

Part II:

- IR Site 30, Daycare Center, and adjacent Areas (excluding Site 31)
- Lot 69, Supply Depot Salvage Yard and RADIAC instruction building
- Building 342
- Building 461
- Sewage Treatment Plant
- Miscellaneous sewer lines
- 1400 Series Housing 3 Dimensional Survey

Based on the draft HRASTM, additional areas planned for radiological surveys include:

- Building 3 was identified as impacted based on ship repair activities and the presence of a former optical shop in the building during World War II (WWII). Building 3 was previously identified in the HRA as non-impacted.
- Site 6, Building 570 and a surrounding laydown area were identified as impacted based on remedial activities done in association with the Site 12 SWDAs. This area was not addressed in the HRA.
- A probable WWII era salvage yard was identified as impacted based on the potential for scrap metal recycling activities adjacent to former Building 327 during WWII.

- Both former sites of the training ship mock-up, known as the U.S.S *Pandemonium*, were identified as impacted based on a reevaluation of existing data after the HRA.
- A salvage yard known as Lot 69 was identified as impacted based on the handling of salvage materials in that area.
- A former storage area that includes Sites 30 and 31 was identified as impacted based on investigatory results obtained after the HRA.
- Building 342 was identified as impacted based on investigatory results (the presence of a counting room) obtained after the HRA.
- Site 12 and areas within are being evaluated and will also likely be impacted in addition to the SWDAs.

The HRASTM is planned to be finalized in Spring 2014.

<b>Transfer Category</b>	--
<b>Regulatory Classification</b>	CERCLA
<b>Source of Concern</b>	Radium sulfate spill and historical radiological operations
<b>Contaminants of Concern</b>	Radium-226, radiological materials
<b>Interim Actions</b>	<ul style="list-style-type: none"> <li>• 1950s cleanup at Building 233</li> <li>• Building 233 was demolished in January 2011</li> <li>• Ongoing SWDA NTCRAs</li> </ul>
<b>Current Status</b>	<ul style="list-style-type: none"> <li>• NTCRA of Site 12 SWDAs is underway.</li> <li>• Gamma walkover surveys in non-SWDA areas of Site 12 are planned.</li> <li>• Building 233 FSS is being conducted.</li> <li>• Part I Radiological survey is underway.</li> <li>• Part II radiological survey is being planned.</li> <li>• HRASTM is being finalized.</li> </ul>
<b>USTs/ASTs</b>	Not applicable
<b>Estimated Site Closeout</b>	September 2014 for Building 233; August 2014 for Basewide Radiological Surveys Part I, June 2015 for Basewide Radiological Surveys Part II

## 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, documented in the Asbestos Building Survey Report issued in November 1998 by SSSPORTS and 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 in 2009 was finalized in a report dated February 28, 2011.

<b>Transfer Category</b>	2006 TI and YBI FOSTs (FOSTs 1 and 2), various FOST parcels in an upcoming FOST
<b>Regulatory Classification</b>	Clean Air Act
<b>Source of Concern</b>	ACM
<b>Contaminants of Concern</b>	Friable, accessible ACM
<b>Interim Actions</b>	<ul style="list-style-type: none"><li>• 1998 remediation of 38 buildings</li><li>• 1998 remediation of 20 buildings</li><li>• 1999 remediation of residences</li><li>• 2002 remediation of crawl spaces, barracks and six quarters on YBI</li></ul>
<b>Current Status</b>	<ul style="list-style-type: none"><li>• ACM to be reassessed within 1 year prior to transfer</li></ul>
<b>USTs/ASTs</b>	Not applicable
<b>Estimated Site Closeout</b>	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, 12, 21, and 24 is monitored as the petroleum program sites have received NFA concurrence. Contaminants defined as hazardous under CERCLA have been detected at elevated concentrations in samples from Sites 6, 12, 21, and 24. Groundwater monitoring results are reported annually and will be used in assessing risk in CERCLA decision documents or petroleum closure reports.

Groundwater monitoring at Site 6 will continue for at least six quarterly monitoring events following the UST 240 removal action. Semiannual groundwater monitoring at Site 12 is estimated to continue through the end of the RACR in December 2024. Groundwater monitoring, as well as soil gas, was selected as part of the final remedy for Site 21 in the ROD/RAP. Thus, groundwater and soil gas monitoring is expected to continue for Site 21 until the first 5-year review, currently planned for 2014. Semiannual groundwater monitoring continues at Site 24 and is planned to continue through at least the 2019 5-year review period.

Groundwater was monitored at Site 32 for one year after a removal action was completed for PCBs, arsenic, and TPH in soil. Monitoring was completed in February 2012, and a summary report was finalized on July 30, 2012. All COC concentrations were non-detected or detected at low-levels during all four quarterly sampling events. There is no indication of existence of the residual petroleum contamination in the groundwater. No further actions were recommended for groundwater at Site 32.

Beginning with the 2015/2016 annual reporting period, groundwater monitoring events at each site will be reported collectively as part of the basewide program.

## **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, meeting minutes are prepared. The minutes are reviewed by all members and revised based on any comments received.

### **Site Management Plan**

The Navy prepares and delivers annual updates of this SMP 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 property may be transferred for development. The schedules provided in [Appendix B](#) update the schedule produced in the 1992 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 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 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 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, and 2008. An update, including interviews of community members, was drafted in 2013 and finalized in 2014.

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.

### **Fact Sheets, Proposed Plans, and Work Notices**

Fact sheets, PPs, and work notices are prepared on an as-needed basis dependent on commencement or completion of significant milestones such as an upcoming field investigation or a significant report. Fact sheets and PPs are distributed to the entire TI community mailing list, which includes the DTSC mandatory mailing list. Work notices are distributed to residents or businesses who may be affected by the fieldwork.

Of particular interest is the Site 12 environmental program. Work notices are sent to residents any time they are affected by work in Site 12. In addition, fact sheets will be distributed on all projects where radiological data have been collected at Site 12.

### **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. Public notices are typically published as an in-column ad in the *San Francisco Examiner* newspaper.

### **Information Repository Support**

On a quarterly 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. 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 summarized 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. The Navy prepared a third FOST (YBI FOST 3) for five parcels on YBI to support property transfer to the City. The YBI FOST 3 was finalized on January 17, 2012.

Through the BRAC process, the Navy intends to transfer the pre-closing conveyance parcels on YBI that were identified in YBI FOSTs 2 and 3, by deed, to the City of San Francisco in 2014. Parcels identified in TI FOST 1 are planned to be transferred by deed to the City of San Francisco at a later date. The Navy will prepare additional FOSTs to support transfer of property in coming years. [Appendix B](#) has the anticipated schedules for upcoming FOST documents and the related State of California's Covenant to Restrict Use of Property (CRUP) documents that will be completed to support property transfers in the future.

**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; pending Caltrans bridge completion.
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; pending Caltrans bridge completion.
Site 12	CERCLA	Active
Site 13	CERCLA	Closed – No Action ROD signed April 7, 2005.
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	Pending Closure – No Action ROD signed November 22, 2010.
Site 29	CERCLA	Active – On hold; pending Caltrans bridge completion.
Site 30	CERCLA	Active
Site 31	CERCLA	Active
Site 32	CERCLA	Active
Site 33	CERCLA	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 (USTs 240 and 248), all USTs have received concurrence letters and are closed.

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID		Task Name	Duration	Start	Finish	Predecessors
1		<b>CERCLA PROGRAM</b>	<b>8585 days</b>	<b>Wed 3/20/02</b>	<b>Mon 12/11/34</b>	
2		<b>EBS DATA GAP INVESTIGATION COMPLETED</b>	<b>502 days</b>	<b>Wed 4/2/03</b>	<b>Tue 2/22/05</b>	
22		<b>SITE 1 - Closed</b>	<b>1 day</b>	<b>Wed 3/20/02</b>	<b>Wed 3/20/02</b>	
23		<b>SITE 3 - Closed</b>	<b>1 day</b>	<b>Wed 3/20/02</b>	<b>Wed 3/20/02</b>	
24		<b>SITE 7 - Closed</b>	<b>880 days</b>	<b>Fri 8/16/02</b>	<b>Tue 11/1/05</b>	
28		<b>SITE 13 - Closed</b>	<b>707 days</b>	<b>Tue 11/5/02</b>	<b>Sat 5/21/05</b>	
61		<b>SITES 9 AND 10 - Closed</b>	<b>1200 days</b>	<b>Sun 4/6/03</b>	<b>Thu 11/1/07</b>	

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
116	<b>SITE 6 (CERCLA)</b>	<b>3532 days</b>	<b>Mon 5/12/03</b>	<b>Tue 11/22/16</b>	
117	<b>NATURE AND EXTENT DELINEATION FOR SITE 6 CERCLA</b>	<b>540 days</b>	<b>Mon 5/12/03</b>	<b>Tue 6/7/05</b>	
123	<b>REMEDIAL INVESTIGATION FOR SITE 6</b>	<b>690 days</b>	<b>Sun 10/31/04</b>	<b>Wed 6/20/07</b>	
134	<b>REVISED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) REPORT FOR SITE 6</b>	<b>973 days</b>	<b>Mon 2/2/09</b>	<b>Thu 10/25/12</b>	
158	<b>SITE 6 RADIOLOGICALLY CONTROLLED AREA CHARACTERIZATION / FINAL STATUS SURVEY</b>	<b>460 days</b>	<b>Fri 6/14/13</b>	<b>Fri 3/20/15</b>	
159	<b>Site 6 RCA Characterization / Final Status Survey Work Plan</b>	<b>222 days</b>	<b>Fri 6/14/13</b>	<b>Tue 4/22/14</b>	
160	Navy Award Contract for Characterization/Final Status Survey Work Plan for Site 6 RCA	90 edays	Fri 6/14/13	Thu 9/12/13	
161	Prepare Internal Draft Site 6 RCA Characterization/Final Status Survey Work Plan	39 edays	Thu 9/12/13	Mon 10/21/13	160
162	Navy Review of Internal Draft Site 6 RCA Characterization/Final Status Survey Work Plan	11 edays	Mon 10/21/13	Fri 11/1/13	161
163	Revise Internal Draft Site 6 RCA Characterization/Final Status Survey Work Plan	7 edays	Fri 11/1/13	Fri 11/8/13	162
164	Navy RASO Review Internal Draft Site 6 RCA Characterization/Final Status Survey Work Plan	42.38 edays	Fri 11/8/13	Fri 12/20/13	163
165	Draft Site 6 RCA Characterization/Final Status Survey Work Plan	12 days	Mon 12/23/13	Tue 1/7/14	164
166	Agency Review of Draft Site 6 RCA Characterization/Final Status Survey Work Plan	23 days	Wed 1/8/14	Fri 2/7/14	165
167	Prepare Preliminary Responses to Agency Comments on Draft Site 6 RCA Characterization/Final Status Survey Work Plan	12 days	Mon 2/10/14	Tue 2/25/14	166
168	Prepare Internal Final Site 6 Characterization/Final Status Survey Work Plan	7 days	Wed 2/26/14	Thu 3/6/14	167
169	Navy Review of Internal Final Site 6 Characterization/Final Status Survey Work Plan	23 days	Fri 3/7/14	Tue 4/8/14	168
170	Submit Final Site 6 RCA Characterization/Final Status Survey Work Plan	10 days	Wed 4/9/14	Tue 4/22/14	169
171	<b>Final Status Survey Field Work at Site 6 RCA</b>	<b>48 days</b>	<b>Wed 4/23/14</b>	<b>Fri 6/27/14</b>	170
172	<b>Site 6 RCA Final Status Survey Report</b>	<b>190 days</b>	<b>Mon 6/30/14</b>	<b>Fri 3/20/15</b>	
173	Prepare Internal Draft Site 6 RCA Final Status Survey Report	24 days	Mon 6/30/14	Thu 7/31/14	171
174	Navy Review Internal Draft Site 6 RCA Final Status Survey Report	40 days	Fri 8/1/14	Thu 9/25/14	173
175	Revise Internal Draft Site 6 RCA Final Status Survey Report	5 days	Fri 9/26/14	Thu 10/2/14	174
176	Prepare Draft Site 6 RCA Final Status Survey Report	5 days	Fri 10/3/14	Thu 10/9/14	175
177	Agency Review Draft Site 6 RCA Final Status Survey Report	23 days	Fri 10/10/14	Tue 11/11/14	176
178	Prepare Preliminary Responses to Agency Comments on Site 6 RCA Final Status Survey Report	23 days	Wed 11/12/14	Fri 12/12/14	177
179	Prepare Internal Final Site 6 RCA Final Status Survey Report	10 days	Mon 12/15/14	Fri 12/26/14	178
180	Navy Review Internal Final Site 6 RCA Final Status Survey Report	14 days	Mon 12/29/14	Thu 1/15/15	179
181	Submit Final Site 6 RCA Final Status Survey Report	26 days	Fri 1/16/15	Fri 2/20/15	180
182	Concur with Site 6 RCA Final Status Survey Report	20 days	Mon 2/23/15	Fri 3/20/15	181
183	<b>PP/DRAFT RAP FOR SITE 6</b>	<b>334 days</b>	<b>Wed 12/19/12</b>	<b>Mon 3/31/14</b>	
184	Navy to Award Contract for Site 6 PP/Draft RAP and ROD/RAP	60 edays	Wed 12/19/12	Sun 2/17/13	
185	Prepare Internal Draft PP/Draft RAP for Site 6	151 edays	Thu 4/11/13	Mon 9/9/13	184FS+43 edays
186	Navy Review of Internal Draft PP/Draft RAP for Site 6	18 edays	Mon 9/9/13	Fri 9/27/13	185
187	Prepare Draft PP/Draft RAP for Site 6	14 edays	Mon 9/30/13	Mon 10/14/13	186
188	Agency Review of Draft PP/Draft RAP for Site 6	44 days	Tue 10/15/13	Fri 12/13/13	187
189	Prepare Preliminary RTCs on Draft PP/Draft RAP for Site 6	20 days	Mon 12/16/13	Fri 1/10/14	188
190	Meeting to Discuss Preliminary RTCs on Draft PP/Draft RAP for Site 6	0 edays	Fri 1/10/14	Fri 1/10/14	189
191	Prepare Internal Final PP/Draft RAP for Site 6	20 days	Mon 1/13/14	Fri 2/7/14	190

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
192	Navy Review of Internal Final PP/Draft RAP for Site 6	5 days	Mon 2/10/14	Fri 2/14/14	191
193	Submit Final PP/Draft RAP for Site 6	10 days	Mon 2/17/14	Fri 2/28/14	192
194	Public Notice of Final PP/Draft RAP for Site 6	0 edays	Fri 2/28/14	Fri 2/28/14	193
195	Public Comment Period of Final PP/Draft RAP for Site 6	31 edays	Fri 2/28/14	Mon 3/31/14	194
196	Finalize Administrative Record for Final PP/Draft RAP for Site 6	0 edays	Mon 3/31/14	Mon 3/31/14	195
197	Public Meeting for Final PP/Draft RAP for Site 6	1 day	Wed 3/12/14	Wed 3/12/14	
198	<b>ROD/RAP FOR SITE 6</b>	<b>191 days</b>	<b>Mon 3/3/14</b>	<b>Mon 11/24/14</b>	
199	Prepare Internal Draft ROD/RAP for Site 6	60 days	Mon 3/3/14	Fri 5/23/14	193
200	BCT Scoping Meeting for ROD/RAP for Site 6	0 edays	Wed 4/2/14	Wed 4/2/14	199SS+30 edays
201	Navy Review of Internal Draft ROD/RAP for Site 6	20 days	Mon 5/26/14	Fri 6/20/14	199
202	Prepare Draft ROD/RAP for Site 6	10 days	Mon 6/23/14	Fri 7/4/14	201
203	Agency Review of Draft ROD/RAP for Site 6	20 days	Mon 7/7/14	Fri 8/1/14	202
204	Prepare Preliminary RTCs on Draft ROD/RAP for Site 6	22 days	Mon 8/4/14	Tue 9/2/14	203
205	Meeting to Discuss Preliminary RTCs on Draft ROD/RAP for Site 6	0 edays	Tue 9/2/14	Tue 9/2/14	204
206	Prepare Internal Final ROD/RAP for Site 6	20 days	Wed 9/3/14	Tue 9/30/14	205
207	Navy Review of Internal Final ROD/RAP for Site 6	7 days	Wed 10/1/14	Thu 10/9/14	206
208	Submit Final ROD/RAP for Site 6	10 days	Fri 10/10/14	Thu 10/23/14	207
209	ROD/RAP Signed for Site 6	32 edays	Thu 10/23/14	Mon 11/24/14	208
210	Public Notice of Signing ROD/RAP for Site 6	0 edays	Mon 11/24/14	Mon 11/24/14	209
211	<b>PRE-REMEDIAL DESIGN DATA GAPS SAMPLING FOR SITE 6</b>	<b>261 days</b>	<b>Mon 1/6/14</b>	<b>Mon 1/5/15</b>	
212	Navy Award Contract for Site 6 Pre-Remedial Design Data Gaps Sampling	45 days	Mon 1/6/14	Fri 3/7/14	
213	<b>Site 6 Pre-Remedial Design Data Gaps Sampling Work Plan</b>	<b>98 days</b>	<b>Mon 3/10/14</b>	<b>Wed 7/23/14</b>	
214	Prepare Internal Draft Site 6 Pre-Remedial Design Data Gaps Sampling Work Plan	20 days	Mon 3/10/14	Fri 4/4/14	212
215	Navy Review of Internal Draft Site 6 Pre-Remedial Design Data Gaps Sampling Work Plan	10 days	Mon 4/7/14	Fri 4/18/14	214
216	Draft Site 6 Pre-Remedial Design Data Gaps Sampling Work Plan	5 days	Mon 4/21/14	Fri 4/25/14	215
217	Agency Review of Draft Site 6 Pre-Remedial Design Data Gaps Sampling Work Plan	20 days	Mon 4/28/14	Fri 5/23/14	216
218	Prepare Internal Final Site 6 Pre-Remedial Design Data Gaps Sampling Work Plan	23 days	Mon 5/26/14	Wed 6/25/14	217
219	Navy Review of Internal Final Site 6 Pre-Remedial Design Data Gaps Sampling Work Plan	10 days	Thu 6/26/14	Wed 7/9/14	218
220	Final Site 6 Pre-Remedial Design Data Gaps Sampling Work Plan	10 days	Thu 7/10/14	Wed 7/23/14	219
221	<b>Site 6 Pre-Remedial Design Data Gaps Sampling Field Work</b>	<b>20 days</b>	<b>Thu 7/24/14</b>	<b>Wed 8/20/14</b>	220
222	<b>Site 6 Pre-Remedial Design Data Gaps Sampling Technical Memorandum</b>	<b>98 days</b>	<b>Thu 8/21/14</b>	<b>Mon 1/5/15</b>	
223	Prepare Internal Draft Site 6 Pre-Remedial Design Data Gaps Sampling TM	20 days	Thu 8/21/14	Wed 9/17/14	221
224	Navy Review Internal Draft Site Pre-Remedial Design Data Gaps Sampling TM	10 days	Thu 9/18/14	Wed 10/1/14	223
225	Prepare Draft Site 6 Pre-Remedial Design Data Gaps Sampling TM	5 days	Thu 10/2/14	Wed 10/8/14	224
226	Agency Review Draft Site 6 Pre-Remedial Design Data Gaps Sampling TM	20 days	Thu 10/9/14	Wed 11/5/14	225
227	Prepare Internal Final Site 6 Pre-Remedial Design Data Gaps Sampling TM	23 days	Thu 11/6/14	Mon 12/8/14	226
228	Navy Review Internal Final Site 6 Pre-Remedial Design Data Gaps Sampling TM	10 days	Tue 12/9/14	Mon 12/22/14	227
229	Submit Final Site 6 Pre-Remedial Design Data Gaps Sampling TM	10 days	Tue 12/23/14	Mon 1/5/15	228
230	<b>REMEDIAL DESIGN FOR SITE 6</b>	<b>215 days</b>	<b>Wed 8/6/14</b>	<b>Tue 6/2/15</b>	
231	Navy to award contract for Site 6 Remedial Design/Remedial Action	40 days	Wed 8/6/14	Tue 9/30/14	206SS-20 days
232	Internal Draft RD for Site 6	60 days	Wed 10/1/14	Tue 12/23/14	231

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
233	BCT Scoping Meeting for Site 6 RD	0 days	Fri 10/31/14	Fri 10/31/14	232SS+30 edays
234	Navy Review of Internal Draft RD for Site 6	20 days	Wed 12/24/14	Tue 1/20/15	232
235	Draft RD for Site 6	10 days	Wed 1/21/15	Tue 2/3/15	234
236	Agency Review of Draft RD for Site 6	20 days	Wed 2/4/15	Tue 3/3/15	235
237	Preliminary RTCs on Draft RD - Site 6	22 days	Wed 3/4/15	Thu 4/2/15	236
238	Meeting to Discuss Preliminary RTCs on Draft RD - Site 6	0 days	Thu 4/2/15	Thu 4/2/15	237
239	Internal Final for Site 6 RD	23 days	Fri 4/3/15	Tue 5/5/15	238
240	Navy Review of Internal Final for Site 6 RD	10 days	Wed 5/6/15	Tue 5/19/15	239
241	Final RD for Site 6	10 days	Wed 5/20/15	Tue 6/2/15	240
242	<b>REMEDIAL ACTION FOR SITE 6</b>	<b>385 days</b>	<b>Wed 6/3/15</b>	<b>Tue 11/22/16</b>	
243	<b>REMEDIAL ACTION WORK PLAN (RAWP)</b>	<b>169 days</b>	<b>Wed 6/3/15</b>	<b>Mon 1/25/16</b>	
244	Prepare Internal Draft Site 6 RAWP	60 days	Wed 6/3/15	Tue 8/25/15	182,241
245	Navy Review of Internal Draft Site 6 RAWP	20 days	Wed 8/26/15	Tue 9/22/15	244
246	Draft Site 6 RAWP	10 days	Wed 9/23/15	Tue 10/6/15	245
247	Agency Review Draft Site 6 RAWP	20 days	Wed 10/7/15	Tue 11/3/15	246
248	Prepare Preliminary RTCs on Draft Site 6 RAWP	22 days	Wed 11/4/15	Thu 12/3/15	247
249	Prepare Internal Final Site Site 6 RAWP	20 days	Fri 12/4/15	Thu 12/31/15	248
250	Navy Review Internal Final Site 6 RAWP	7 days	Fri 1/1/16	Mon 1/11/16	249
251	Final Site 6 RAWP	10 days	Tue 1/12/16	Mon 1/25/16	250
252	<b>REMEDIAL ACTION FIELD WORK</b>	<b>100 days</b>	<b>Tue 1/26/16</b>	<b>Mon 6/13/16</b>	<b>251</b>
253	<b>REMEDIAL ACTION COMPLETION REPORT (RACR)</b>	<b>116 days</b>	<b>Tue 6/14/16</b>	<b>Tue 11/22/16</b>	
254	Internal Draft RACR for Site 6	20 days	Tue 6/14/16	Mon 7/11/16	252
255	BCT Scoping Meeting for Site 6 RACR	0 edays	Tue 6/28/16	Tue 6/28/16	254SS+11 days
256	Navy Review of Internal Draft RACR for Site 6	10 days	Tue 7/12/16	Mon 7/25/16	254
257	Draft RACR for Site 6	7 days	Tue 7/26/16	Wed 8/3/16	256
258	Agency Review of Site 6 Draft RACR	20 days	Thu 8/4/16	Wed 8/31/16	257
259	Preliminary RTCs on Site 6 Draft RACR	22 days	Thu 9/1/16	Fri 9/30/16	258
260	Meeting to Discuss Preliminary RTCs on Draft RACR for Site 6	0 edays	Fri 9/30/16	Fri 9/30/16	259
261	Internal Final RACR for Site 6	20 days	Mon 10/3/16	Fri 10/28/16	260
262	Navy Review of Internal Final RACR for Site 6	7 days	Mon 10/31/16	Tue 11/8/16	261
263	Final RACR for Site 6	10 days	Wed 11/9/16	Tue 11/22/16	262

All start and finish dates on Saturday  
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**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
264	 <b>SITE 8</b>	3938 days	Thu 12/2/04	Fri 1/3/20	
265	 <b>INTERIM REMEDIAL INVESTIGATION FOR SITES 8 &amp; 29</b>	1127 days	Thu 12/2/04	Fri 3/27/09	
289	 <b>CALTRANS BRIDGE CONSTRUCTION PROJECT</b>	1803 days	Mon 11/3/08	Wed 9/30/15	
290	<b>REMAINING CERCLA ITEMS (IF NECESSARY)</b>	1135 days	Sat 8/1/15	Fri 12/6/19	
291	<b>SITES 8 &amp; 29 RI ADDENDUM (IF NECESSARY)</b>	175 days	Sat 8/1/15	Sun 4/3/16	
303	<b>FEASIBILITY STUDY FOR SITES 8 &amp; 29 (IF NECESSARY)</b>	250 days	Tue 2/9/16	Tue 1/24/17	
317	<b>PP/DRAFT RAP FOR SITES 8 &amp; 29</b>	229 days	Sat 12/31/16	Thu 11/16/17	
334	<b>ROD/RAP SITES 8 &amp; 29</b>	229 days	Sat 9/23/17	Thu 8/9/18	
349	<b>REMEDIAL DESIGN FOR SITES 8 &amp; 29 (IF NECESSARY)</b>	196 days	Thu 5/17/18	Sun 2/17/19	
361	<b>REMEDIAL ACTION FOR SITES 8 &amp; 29 (IF NECESSARY)</b>	210 days	Sun 2/17/19	Fri 12/6/19	
372	<b>SITE CLOSEOUT FOR SITES 8 &amp; 29</b>	20 days	Mon 12/9/19	Fri 1/3/20	371

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**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
373	 <b>SITE 11</b>	3653 days	Thu 7/13/06	Mon 7/13/20	
374	 <b>INTERIM REMEDIAL INVESTIGATION FOR SITE 11</b>	924 days	Thu 7/13/06	Wed 1/27/10	
391	 <b>CALTRANS BRIDGE CONSTRUCTION PROJECT</b>	1803 days	Mon 11/3/08	Wed 9/30/15	
392	<b>REMAINING CERCLA ITEMS (IF NECESSARY)</b>	1291 days	Sat 8/1/15	Mon 7/13/20	
393	<b>SITE 11 RI ADDENDUM (IF NECESSARY)</b>	175 days	Sat 8/1/15	Sun 4/3/16	
405	 <b>FEASIBILITY STUDY FOR SITE 11 (IF NECESSARY)</b>	208 days	Tue 2/9/16	Sat 11/26/16	
418	<b>PP/DRAFT RAP FOR SITE 11</b>	231 days	Thu 11/3/16	Fri 9/22/17	
435	<b>ROD/RAP FOR SITE 11</b>	230 days	Fri 7/28/17	Fri 6/15/18	
450	<b>REMEDIAL DESIGN FOR SITE 11 (IF NECESSARY)</b>	220 days	Fri 6/15/18	Sun 4/21/19	449
462	<b>REMEDIAL ACTION FOR SITE 11 (IF NECESSARY)</b>	301 days	Sun 4/21/19	Mon 6/15/20	
475	<b>SITE CLOSEOUT FOR SITE 11</b>	20 days	Tue 6/16/20	Mon 7/13/20	474

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
476	<b>SITE 12</b>	<b>4599 days</b>	<b>Wed 5/7/03</b>	<b>Tue 12/22/20</b>	
477	✓ <b>ADDITIONAL INVESTIGATION FOR COMMON AREAS</b>	<b>95 days</b>	<b>Wed 5/7/03</b>	<b>Fri 9/19/03</b>	
485	✓ <b>HALYBURTON COURT SOIL GAS/INDOOR AIR SAP ADDENDUM</b>	<b>511 days</b>	<b>Fri 1/7/05</b>	<b>Wed 12/20/06</b>	
496	✓ <b>HALYBURTON COURT INDOOR AIR EVALUATION TECHNICAL MEMORANDUM SITE 12</b>	<b>947 days</b>	<b>Mon 12/1/03</b>	<b>Fri 7/13/07</b>	
502	✓ <b>ARSENIC IN GROUNDWATER TECHNICAL MEMORANDUM SITE 12</b>	<b>268 days</b>	<b>Thu 1/1/04</b>	<b>Tue 1/11/05</b>	
511	✓ <b>ARSENIC IN GROUNDWATER PILOT STUDY</b>	<b>1361 days</b>	<b>Mon 12/11/06</b>	<b>Tue 2/28/12</b>	
521	✓ <b>REMEDIAL INVESTIGATION FOR SITE 12</b>	<b>2090 days</b>	<b>Sun 6/20/04</b>	<b>Wed 6/20/12</b>	
569	✓ <b>NON-TIME CRITICAL INTERIM REMOVAL ACTION WORK PLANS FOR SITE 12 SWDAs</b>	<b>316 days</b>	<b>Thu 12/1/05</b>	<b>Thu 2/15/07</b>	
599	<b>NON-TIME CRITICAL REMOVAL ACTION FOR SITE 12 SWDAs</b>	<b>2857 days</b>	<b>Thu 3/30/06</b>	<b>Fri 3/10/17</b>	
600	✓ 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	
601	✓ Site 12 Remedial Action Work Plan (RAWP)	117 days	Fri 9/22/06	Tue 3/6/07	
609	Non-Time Critical Removal Action of Site 12 SWDAs	2772 edays	Mon 2/26/07	Mon 9/29/14	608FS-8 edays
610	✓ Non-Time Critical Removal Action Summary Open House	0 edays	Sat 10/24/09	Sat 10/24/09	
611	<b>SWDA FINAL NTCRA REPORTS</b>	<b>2404 days</b>	<b>Mon 2/26/07</b>	<b>Fri 5/13/16</b>	
612	<b>SWDA A&amp;B (WESTSIDE DRIVE, LESTER AND MASON COURTS)</b>	<b>1962 days</b>	<b>Mon 2/26/07</b>	<b>Wed 9/3/14</b>	
613	<b>SWDA A&amp;B (Westside Drive, Lester and Mason Courts) - Field Work (Phase I)</b>	<b>2643 edays</b>	<b>Mon 2/26/07</b>	<b>Fri 5/23/14</b>	609SS
614	<b>SWDA A&amp;B Post-Construction Summary Report (Phase I)</b>	<b>509 days</b>	<b>Thu 9/20/12</b>	<b>Wed 9/3/14</b>	
615	✓ Prepare Internal Draft SWDA A&B PCSR	25.38 edays	Thu 9/20/12	Tue 10/16/12	
616	✓ Navy BRAC/RASO Review Internal Draft SWDA A&B PCSR	46 edays	Thu 10/25/12	Mon 12/10/12	615
617	✓ Prepare Draft SWDA A&B PCSR	49 edays	Mon 12/10/12	Mon 1/28/13	616
618	✓ Agency Review Draft SWDA A&B PCSR	30 edays	Mon 1/28/13	Wed 2/27/13	617
619	📅 Prepare Revised Internal Draft SWDA A&B PCSR	10 days	Mon 5/26/14	Fri 6/6/14	613
620	Navy Review Revised Internal Draft SWDA A&B PCSR	10 days	Mon 6/9/14	Fri 6/20/14	619
621	Prepare Revised Draft SWDA A&B PCSR	10 days	Mon 6/23/14	Fri 7/4/14	620
622	Agency Review Revised Draft SWDA A&B PCSR	20 days	Mon 7/7/14	Fri 8/1/14	621
623	Prepare Preliminary Responses to Agency Comments on Draft SWDA A&B PCSR	9 days	Mon 8/4/14	Thu 8/14/14	622
624	Prepare Internal Final SWDA A&B PCSR	4 days	Fri 8/15/14	Wed 8/20/14	623
625	Navy Review Internal Final SWDA A&B PCSR	5 days	Thu 8/21/14	Wed 8/27/14	624
626	Submit Final SWDA A&B PCSR	5 days	Thu 8/28/14	Wed 9/3/14	625
627	✓ <b>SWDA A&amp;B (Westside Drive, Lester and Mason Courts) - Work Plan (Phase II)</b>	<b>242 days</b>	<b>Thu 5/31/12</b>	<b>Fri 5/3/13</b>	
638	✓ <b>SWDA A&amp;B (Westside Drive, Lester and Mason Courts) - Field Work (Phase II)</b>	<b>56 edays</b>	<b>Fri 10/11/13</b>	<b>Fri 12/6/13</b>	627
639	<b>SWDA A&amp;B Post-Construction Summary Report (Phase II)</b>	<b>194 days</b>	<b>Mon 9/23/13</b>	<b>Thu 6/19/14</b>	
640	📅 Prepare Internal Draft SWDA A&B Phase II PCSR Report	65 days	Mon 9/23/13	Fri 12/20/13	638FS-63 days
641	Navy Review Internal Draft SWDA A&B Phase II PCSR Report	30 days	Mon 12/23/13	Fri 1/31/14	640
642	Revise Internal Draft SWDA A&B Phase II PCSR Report	10 days	Mon 2/3/14	Fri 2/14/14	641
643	Prepare Draft SWDA A&B Phase II PCSR Report	10 days	Mon 2/17/14	Fri 2/28/14	642
644	Agency Review Draft SWDA A&B Phase II PCSR Report	20 days	Mon 3/3/14	Fri 3/28/14	643
645	Prepare Preliminary RTCs on Draft SWDA A&B Phase II PCSR Report	22 days	Mon 3/31/14	Tue 4/29/14	644
646	Prepare Internal Final SWDA A&B Phase II PCSR Report	20 days	Wed 4/30/14	Tue 5/27/14	645

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**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
647	Navy Review Internal Final SWDA A&B Phase II PCSR Report	7 days	Wed 5/28/14	Thu 6/5/14	646
648	Submit Final SWDA A&B Phase II PCSR Report	10 days	Fri 6/6/14	Thu 6/19/14	647
649	<b>SWDA A&amp;B (Westside Drive, Lester and Mason Courts, Bayside/North Point) - Work Plan (Phase III)</b>	<b>254 days</b>	<b>Tue 5/28/13</b>	<b>Mon 5/19/14</b>	
650	Navy to award contract for SWDA A&B and Bayside/North Point Phase III	88 days	Tue 5/28/13	Fri 9/27/13	
651	Prepare Internal Draft Site 12 SWDA A&B and Bayside/North Point Phase III Work Plan	60 days	Fri 9/27/13	Thu 12/19/13	650
652	Navy Review Internal Draft Site 12 SWDA A&B and Bayside/North Point Phase III Work Plan	40 days	Fri 12/20/13	Thu 2/13/14	651
653	Prepare Draft Site 12 SWDA A&B and Bayside/North Point Phase III Work Plan	10 days	Fri 2/14/14	Thu 2/27/14	652
654	Agency Review Draft Site 12 SWDA A&B and Bayside/North Point Phase III Work Plan	20 days	Fri 2/28/14	Thu 3/27/14	653
655	Prepare Preliminary RTCs on Draft Site 12 SWDA A&B and Bayside/North Point Phase III Work Plan	10 days	Fri 3/28/14	Thu 4/10/14	654
656	Prepare Internal Final Site 12 SWDA A&B and Bayside/North Point Phase III Work Plan	10 days	Fri 4/11/14	Thu 4/24/14	655
657	Navy Review Internal Final Site 12 SWDA A&B and Bayside/North Point Phase III Work Plan	7 days	Fri 4/25/14	Mon 5/5/14	656
658	Submit Final Site 12 SWDA A&B and Bayside/North Point Phase III Work Plan	10 days	Tue 5/6/14	Mon 5/19/14	657
659	<b>Westside Drive, Lester and Mason Courts, Bayside/North Point - Field Work (including complete backfilling of excavation SWDA A&amp;B) - Phase III</b>	<b>400 days</b>	<b>Tue 5/20/14</b>	<b>Mon 11/30/15</b>	658
660	<b>SWDA A&amp;B (Westside Drive, Lester and Mason Courts, Bayside/North Point) PCSR/FSS Report - Phase III</b>	<b>149 days</b>	<b>Tue 10/20/15</b>	<b>Fri 5/13/16</b>	
661	Prepare Internal Draft Site 12 SWDA A&B PCSR/FSS Report	20 days	Tue 10/20/15	Mon 11/16/15	659FS-30 days
662	Navy Review Internal Draft Site 12 SWDA A&B PCSR/FSS Report	40 days	Tue 11/17/15	Mon 1/11/16	661
663	Prepare Draft Site 12 SWDA A&B PCSR/FSS Report	10 days	Tue 1/12/16	Mon 1/25/16	662
664	Agency Review Draft Site 12 SWDA A&B PCSR/FSS Report	20 days	Tue 1/26/16	Mon 2/22/16	663
665	Prepare Preliminary Responses to Agency Comments on Draft Site 12 SWDA A&B PCSR/FSS Report	22 days	Tue 2/23/16	Wed 3/23/16	664
666	Prepare Internal Final Site 12 SWDA A&B PCSR/FSS Report	20 days	Thu 3/24/16	Wed 4/20/16	665
667	Navy Review Internal Final Site 12 SWDA A&B PCSR/FSS Report	7 days	Thu 4/21/16	Fri 4/29/16	666
668	Submit Final Site 12 SWDA A&B PCSR/FSS Report	10 days	Mon 5/2/16	Fri 5/13/16	667
669	<b>SWDA BAYSIDE/NORTH POINT</b>	<b>1526 days</b>	<b>Thu 7/8/10</b>	<b>Fri 5/13/16</b>	
670	<b>Post-Construction Summary Report (Phase I Removal Action)</b>	<b>503 days</b>	<b>Fri 8/19/11</b>	<b>Wed 7/24/13</b>	
679	<b>Bayside/North Point - Phase II Removal Action (See SWDA A&amp;B Phase III)</b>	<b>686 days</b>	<b>Fri 9/27/13</b>	<b>Fri 5/13/16</b>	668FF
680	<b>SWDA BIGELOW COURT</b>	<b>1189 days</b>	<b>Thu 7/8/10</b>	<b>Wed 1/28/15</b>	
681	<b>Removal Action Work Plan (RAWP) for Site 12 Bigelow Court</b>	<b>962 days</b>	<b>Thu 7/8/10</b>	<b>Mon 3/17/14</b>	
682	Navy to award contract for Site 12 for RAWP and Removal Action for Bigelow Court	36.38 edays	Thu 7/8/10	Sat 8/14/10	
683	Internal Draft Site 12 RAWP Bigelow Court	77 edays	Mon 9/6/10	Mon 11/22/10	682
684	Navy BRAC Review of Internal Draft Site 12 RAWP Bigelow Court	22 edays	Mon 11/22/10	Tue 12/14/10	683
685	Incorporate Navy Technical Review of Internal Draft Site 12 RAWP Bigelow Court	41 edays	Tue 12/14/10	Mon 1/24/11	684
686	Navy RASO Review of Internal Draft Site 12 RAWP Bigelow Court	486 edays	Mon 1/24/11	Thu 5/24/12	685
687	Revise Internal Draft Site 12 RAWP Bigelow Court	45 edays	Fri 7/12/13	Mon 8/26/13	686

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
688	Navy Review of Revised Internal Draft Site 12 RAWP Bigelow Court	25 edays	Mon 8/26/13	Fri 9/20/13	687
689	Prepare Draft Site 12 RAWP Bigelow Court	80 edays	Fri 10/4/13	Mon 12/23/13	688
690	Agency and Public Review of Draft Site 12 RAWP Bigelow Court	22 days	Tue 12/24/13	Wed 1/22/14	689
691	Prepare Preliminary RTCs on Draft Site 12 RAWP Bigelow Court	20 days	Thu 1/23/14	Wed 2/19/14	690
692	Prepare Internal Final Site 12 RAWP Bigelow Court	10 days	Thu 2/20/14	Wed 3/5/14	691
693	Navy Review Internal Final Site 12 RAWP Bigelow Court	3 days	Thu 3/6/14	Mon 3/10/14	692
694	Prepare and Submit Final Site 12 RAWP Bigelow Court	5 days	Tue 3/11/14	Mon 3/17/14	693
695	<b>Non-Time Critical Removal Action Field Work Site 12 Bigelow Court</b>	<b>146 days</b>	<b>Tue 3/18/14</b>	<b>Tue 10/7/14</b>	694
696	<b>Final Status Survey for Site 12 Bigelow Court</b>	<b>92 days</b>	<b>Tue 9/23/14</b>	<b>Wed 1/28/15</b>	
697	Prepare Internal Draft Bigelow Court FSS Report	20 days	Tue 9/23/14	Mon 10/20/14	695FS-15 edays
698	Navy Review Internal Draft Bigelow Court FSS Report	10 days	Tue 10/21/14	Mon 11/3/14	697
699	Prepare Draft Bigelow Court FSS Report	10 days	Tue 11/4/14	Mon 11/17/14	698
700	Agency Review Draft Bigelow Court FSS Report	20 days	Tue 11/18/14	Mon 12/15/14	699
701	Prepare Preliminary RTCs on Bigelow Court FSS Report	10 days	Tue 12/16/14	Mon 12/29/14	700
702	Prepare Internal Final Bigelow Court FSS Report	10 days	Tue 12/30/14	Mon 1/12/15	701
703	Navy Review Internal Final Bigelow Court FSS Report	5 days	Tue 1/13/15	Mon 1/19/15	702
704	Submit Final Bigelow Court FSS Report	7 days	Tue 1/20/15	Wed 1/28/15	703
705	<b>Post-construction Summary Report (PCSR) for Site 12 Bigelow Court</b>	<b>84 days</b>	<b>Thu 9/18/14</b>	<b>Tue 1/13/15</b>	
706	Prepare Internal Draft Bigelow Court PCSR	15 days	Thu 9/18/14	Wed 10/8/14	695FS-20 edays
707	Navy Review Internal Draft Bigelow Court PCSR	10 days	Thu 10/9/14	Wed 10/22/14	706
708	Prepare Draft Bigelow Court PCSR	7 days	Thu 10/23/14	Fri 10/31/14	707
709	Agency Review Draft Bigelow Court PCSR	20 days	Mon 11/3/14	Fri 11/28/14	708
710	Prepare Preliminary RTCs on Bigelow Court RACR Report	10 days	Mon 12/1/14	Fri 12/12/14	709
711	Prepare Internal Final Bigelow Court PCSR	10 days	Mon 12/15/14	Fri 12/26/14	710
712	Navy Review Internal Final Bigelow Court PCSR	5 days	Mon 12/29/14	Fri 1/2/15	711
713	Submit Final Bigelow Court PCSR	7 days	Mon 1/5/15	Tue 1/13/15	712
714	<b>1400 SERIES RADIOLOGICAL SAMPLING AND REPORT</b>	<b>300 days</b>	<b>Fri 6/28/13</b>	<b>Fri 8/22/14</b>	
715	Navy to award contract for Radiological Sampling and Report	90 edays	Fri 6/28/13	Thu 9/26/13	
716	<b>1400 Building Series Radiological Sampling Work Plan</b>	<b>45 days</b>	<b>Thu 9/26/13</b>	<b>Wed 11/27/13</b>	<b>715</b>
721	<b>1400 Series Radiological Sampling Field Work</b>	<b>35 days</b>	<b>Mon 12/2/13</b>	<b>Fri 1/17/14</b>	
722	<b>1400 Series Radiological Sampling Report</b>	<b>155 days</b>	<b>Mon 1/20/14</b>	<b>Fri 8/22/14</b>	
723	Prepare Internal Draft Radiological Sampling Report	40 days	Mon 1/20/14	Fri 3/14/14	721
724	Navy Review Internal Draft Radiological Sampling Report	40 days	Mon 3/17/14	Fri 5/9/14	723
725	Prepare Draft Radiological Sampling Report	20 days	Mon 5/12/14	Fri 6/6/14	724
726	Agency Review Draft Radiological Sampling Report	20 days	Mon 6/9/14	Fri 7/4/14	725
727	Prepare Preliminary RTCs on Draft Radiological Sampling Report	20 days	Mon 7/7/14	Fri 8/1/14	726
728	Prepare Internal Final Radiological Sampling Report	5 days	Mon 8/4/14	Fri 8/8/14	727
729	Navy Review Internal Final Radiological Sampling Report	5 days	Mon 8/11/14	Fri 8/15/14	728

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
730	Submit Final Radiological Sampling Report	5 days	Mon 8/18/14	Fri 8/22/14	729
731	<b>SWDA HUMAN HEALTH RISK ASSESSMENT (HHRA)</b>	<b>209 days</b>	<b>Tue 10/6/15</b>	<b>Fri 7/22/16</b>	
732	Navy to award contract for SWDA HHRA	40 days	Tue 10/6/15	Mon 11/30/15	659FS-40 days
733	Internal Draft SWDA HHRA	60 days	Tue 12/1/15	Mon 2/22/16	659
734	Navy Technical Review of Internal Draft SWDA HHRA	20 days	Tue 2/23/16	Mon 3/21/16	733
735	Draft SWDA HHRA	10 days	Tue 3/22/16	Mon 4/4/16	734
736	Agency Review of Draft SWDA HHRA	20 days	Tue 4/5/16	Mon 5/2/16	735
737	Preliminary RTCs on Draft SWDA HHRA	22 days	Tue 5/3/16	Wed 6/1/16	736
738	Internal Final for SWDA HHRA	20 days	Thu 6/2/16	Wed 6/29/16	737
739	Navy Review of Internal Final for SWDA HHRA	7 days	Thu 6/30/16	Fri 7/8/16	738
740	Final SWDA HHRA	10 days	Mon 7/11/16	Fri 7/22/16	739
741	<b>RADIOLOGICAL AND CERCLA FEASIBILITY STUDY ADDENDUM REPORT</b>	<b>209 days</b>	<b>Tue 5/24/16</b>	<b>Fri 3/10/17</b>	
742	Navy to award contract for RAD/CERCLA FS Addendum for Site 12	40 days	Tue 5/24/16	Mon 7/18/16	740FS-60 edays
743	Internal Draft RAD/CERCLA FS Addendum for Site 12	60 days	Tue 7/19/16	Mon 10/10/16	742
744	Navy Review of Internal Draft Site 12 RAD/CERCLA FS Addendum	20 days	Tue 10/11/16	Mon 11/7/16	743
745	Prepare Draft RAD/CERCLA FS for Site 12 FS Addendum	10 days	Tue 11/8/16	Mon 11/21/16	744
746	Agency Review of Draft RAD/CERCLA FS Addendum for Site 12	20 days	Tue 11/22/16	Mon 12/19/16	745
747	Preliminary RTCs on Draft RAD/CERCLA FS Addendum for Site 12	22 days	Tue 12/20/16	Wed 1/18/17	746
748	Internal Final for Site 12 RAD/CERCLA FS Addendum	20 days	Thu 1/19/17	Wed 2/15/17	747
749	Navy Review of Internal Final for Site 12 RAD/CERCLA FS Addendum	7 days	Thu 2/16/17	Fri 2/24/17	748
750	Final RAD/CERCLA FS Addendum for Site 12	10 days	Mon 2/27/17	Fri 3/10/17	749
751	<b>RADIOLOGICAL SURVEY FOR SITE 12 - SEE BASEWIDE RADIOLOGICAL SURVEY AND REPORT - PART II</b>	<b>0 edays</b>	<b>Fri 6/5/15</b>	<b>Fri 6/5/15</b>	<b>2512</b>
752	<b>BUILDING 1311/1313 - SOIL GAS INVESTIGATION</b>	<b>124 days</b>	<b>Tue 4/17/12</b>	<b>Sun 10/7/12</b>	
760	<b>FEASIBILITY STUDY FOR SITE 12</b>	<b>721 days</b>	<b>Mon 6/13/11</b>	<b>Tue 3/18/14</b>	
761	Navy to award contract for Site 12 FS	60 edays	Mon 6/13/11	Fri 8/12/11	
762	<b>DATA GAPS SAMPLING INVESTIGATION</b>	<b>161 days</b>	<b>Fri 7/6/12</b>	<b>Mon 2/18/13</b>	<b>761FS+180 days</b>
773	<b>FEASIBILITY STUDY REPORT</b>	<b>260 days</b>	<b>Tue 3/19/13</b>	<b>Tue 3/18/14</b>	
774	Internal Draft FS for Site 12	143 edays	Tue 3/19/13	Fri 8/9/13	772SS+42 edays
775	Navy Technical/Legal Review of Internal Draft Site 12 FS	26 edays	Fri 8/9/13	Wed 9/4/13	774
776	Prepare Draft FS for Site 12	44 edays	Wed 9/4/13	Fri 10/18/13	775
777	Agency Review of Draft FS for Site 12	60 edays	Fri 10/18/13	Tue 12/17/13	776
778	Preliminary RTCs on Draft FS for Site 12	30 days	Wed 12/18/13	Tue 1/28/14	777
779	Internal Final for Site 12 FS	10 days	Wed 1/29/14	Tue 2/11/14	778
780	Navy Review of Internal Final for Site 12 FS	15 days	Wed 2/12/14	Tue 3/4/14	779
781	Final FS for Site 12	10 days	Wed 3/5/14	Tue 3/18/14	780
782	<b>DATA GAPS FEASIBILITY STUDY ADDENDUM FOR SITE 12</b>	<b>199 days</b>	<b>Mon 3/3/14</b>	<b>Thu 12/4/14</b>	
783	Data Gap Sampling Fieldwork	40 days	Mon 3/3/14	Fri 4/25/14	
784	Prepare Internal Draft Data Gap Feasibility Study Addendum	40 days	Mon 4/28/14	Fri 6/20/14	783
785	Navy Review of Internal Draft Data Gap Feasibility Study Addendum	20 days	Mon 6/23/14	Fri 7/18/14	784
786	Prepare Draft Data Gap Feasibility Study Addendum	20 days	Mon 7/21/14	Fri 8/15/14	785
787	Agency Review of Draft Data Gap Feasibility Study Addendum	20 days	Mon 8/18/14	Fri 9/12/14	786
788	Preliminary RTCs of Draft Gap Feasibility Study Addendum	22 days	Mon 9/15/14	Tue 10/14/14	787
789	Internal Final Data Gaps Feasibility Study Addendum	20 days	Wed 10/15/14	Tue 11/11/14	788

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
790	Navy Review of Internal Final Data Gap Feasibility Study Addendum	7 days	Wed 11/12/14	Thu 11/20/14	789
791	Final Data Gaps Feasibility Study Addendum	10 days	Fri 11/21/14	Thu 12/4/14	790
792	<b>PP/DRAFT RAP FOR SITE 12</b>	<b>235 days</b>	<b>Mon 4/7/14</b>	<b>Sat 2/28/15</b>	
793	Navy to award PP/Draft RAP for Site 12	40 days	Mon 4/7/14	Fri 5/30/14	
794	Prepare Internal Draft PP/Draft RAP for Site 12	60 days	Mon 6/2/14	Fri 8/22/14	793
795	Navy Review of Internal Draft PP/Draft RAP for Site 12	25 days	Mon 8/25/14	Fri 9/26/14	794
796	Prepare Draft PP/RAP for Site 12	10 days	Mon 9/29/14	Fri 10/10/14	795
797	Agency Review of Draft PP/Draft RAP for Site 12	20 days	Mon 10/13/14	Fri 11/7/14	796
798	Prepare Preliminary RTCs for Draft PP/Draft RAP for Site 12	22 days	Mon 11/10/14	Tue 12/9/14	797
799	Meeting to Discuss Preliminary RTCs on Draft PP/Draft RAP for Site 12	0 edays	Tue 12/9/14	Tue 12/9/14	798
800	Prepare Internal Final PP/RAP for Site 12	20 days	Wed 12/10/14	Tue 1/6/15	799
801	Navy Review of Internal Final PP/RAP for Site 12	7 days	Wed 1/7/15	Thu 1/15/15	800
802	Submit Final PP/Draft RAP for Site 12	10 days	Fri 1/16/15	Thu 1/29/15	801
803	Public Notice of Final PP/Draft RAP for Site 12	0 edays	Thu 1/29/15	Thu 1/29/15	802
804	Public Comment Period of Final PP/Draft RAP for Site 12	30 edays	Thu 1/29/15	Sat 2/28/15	803
805	Finalize Administrative Record for Final PP/Draft RAP for Site 12	0 edays	Wed 2/11/15	Wed 2/11/15	804FS-13 days
806	Public Meeting for Final PP/Draft RAP for Site 12	0 edays	Wed 2/11/15	Wed 2/11/15	805
807	<b>ROD/RAP FOR SITE 12</b>	<b>196 days</b>	<b>Wed 1/7/15</b>	<b>Wed 10/7/15</b>	
808	Prepare Internal Draft ROD/RAP for Site 12	60 days	Wed 1/7/15	Tue 3/31/15	801SS
809	Navy Review of Internal Draft of ROD/RAP for Site 12	25 days	Wed 4/1/15	Tue 5/5/15	808
810	Prepare Draft ROD/RAP for Site 12	10 days	Wed 5/6/15	Tue 5/19/15	809
811	Agency Review of Draft ROD/RAP for Site 12	20 days	Wed 5/20/15	Tue 6/16/15	810
812	Prepare Preliminary RTCs on Draft ROD/RAP for Site 12	22 days	Wed 6/17/15	Thu 7/16/15	811
813	Meeting to Discuss RTCs on Draft ROD/RAP for Site 12	0 edays	Thu 7/16/15	Thu 7/16/15	812
814	Prepare Internal Final ROD/RAP for Site 12	20 days	Fri 7/17/15	Thu 8/13/15	812
815	Navy Review of Internal Final ROD/RAP for Site 12	7 days	Fri 8/14/15	Mon 8/24/15	814
816	Submit Final ROD/RAP for Site 12	10 days	Tue 8/25/15	Mon 9/7/15	815
817	ROD/RAP for Site 12 Signature	30 edays	Mon 9/7/15	Wed 10/7/15	816
818	Public Notice of Signing ROD/RAP for Site 12	0 edays	Wed 10/7/15	Wed 10/7/15	817
819	<b>REMEDIAL DESIGN FOR SITE 12</b>	<b>209 days</b>	<b>Fri 7/17/15</b>	<b>Wed 5/4/16</b>	
820	Navy to award contract for Site 12 Remedial Design/Remedial Action	40 days	Fri 7/17/15	Thu 9/10/15	814SS
821	Internal Draft RD for Site 12	60 days	Fri 9/11/15	Thu 12/3/15	814,820
822	Navy Review of Internal Draft RD for Site 12	20 days	Fri 12/4/15	Thu 12/31/15	821
823	Draft RD for Site 12	10 days	Fri 1/1/16	Thu 1/14/16	822
824	Agency Review of Draft RD for Site 12	20 days	Fri 1/15/16	Thu 2/11/16	823
825	Prepare Preliminary RTCs on Draft RD for Site 12	22 days	Fri 2/12/16	Mon 3/14/16	824
826	Internal Final for Site 12 RD	20 days	Tue 3/15/16	Mon 4/11/16	825
827	Navy Review of Internal Final for Site 12 RD	7 days	Tue 4/12/16	Wed 4/20/16	824,826
828	Final RD for Site 12	10 days	Thu 4/21/16	Wed 5/4/16	827
829	<b>REMEDIAL ACTION FOR SITE 12</b>	<b>500 days</b>	<b>Thu 5/5/16</b>	<b>Wed 4/4/18</b>	
830	<b>REMEDIAL ACTION WORK PLAN (RAWP)</b>	<b>109 days</b>	<b>Thu 5/5/16</b>	<b>Tue 10/4/16</b>	
831	Prepare Internal Draft Site 12 RAWP	20 days	Thu 5/5/16	Wed 6/1/16	828
832	Navy Review of Internal Draft Site 12 RAWP	10 days	Thu 6/2/16	Wed 6/15/16	831
833	Draft Site 12 RAWP	10 days	Thu 6/16/16	Wed 6/29/16	832
834	Agency Review Draft Site 12 RAWP	20 days	Thu 6/30/16	Wed 7/27/16	833
835	Prepare Preliminary RTCs on Draft Site 12 RAWP	22 days	Thu 7/28/16	Fri 8/26/16	834
836	Prepare Internal Final Site Site 12 RAWP	10 days	Mon 8/29/16	Fri 9/9/16	835
837	Navy Review Internal Final Site 12 RAWP	7 days	Mon 9/12/16	Tue 9/20/16	836
838	Final Site 12 RAWP	10 days	Wed 9/21/16	Tue 10/4/16	837
839	<b>REMEDIAL ACTION FIELD WORK</b>	<b>262 days</b>	<b>Wed 10/5/16</b>	<b>Thu 10/5/17</b>	<b>838</b>
840	<b>REMEDIAL ACTION COMPLETION REPORT (RACR)</b>	<b>129 days</b>	<b>Fri 10/6/17</b>	<b>Wed 4/4/18</b>	
841	Internal Draft RACR for Site 12	20 days	Fri 10/6/17	Thu 11/2/17	839
842	BCT Working Meeting for Site 12 RACR	0 edays	Sat 10/21/17	Sat 10/21/17	841SS+15 edays

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
843	Navy Review of Internal Draft RACR for Site 12	20 days	Fri 11/3/17	Thu 11/30/17	841
844	Draft RACR for Site 12	10 days	Fri 12/1/17	Thu 12/14/17	843
845	Agency Review of Site 12 Draft RACR	20 days	Fri 12/15/17	Thu 1/11/18	844
846	Prepare Preliminary RTCs on Site 12 Draft RACR	22 days	Fri 1/12/18	Mon 2/12/18	845
847	Internal Final RACR for Site 12	20 days	Tue 2/13/18	Mon 3/12/18	846
848	Navy Review of Internal Final RACR for Site 12	7 days	Tue 3/13/18	Wed 3/21/18	847
849	Final RACR for Site 12	10 days	Thu 3/22/18	Wed 4/4/18	848
850	<b>RADIOLOGICAL AND CERCLA PP/DRAFT RAP FOR SITE 12</b>	<b>230 days</b>	<b>Tue 1/10/17</b>	<b>Mon 11/27/17</b>	
851	Navy to award RAD/CERCLA PP/Draft RAP for Site 12	40 days	Tue 1/10/17	Mon 3/6/17	750FS-60 edays
852	Prepare Internal Draft RAD/CERCLA PP/Draft RAP for Site 12	60 days	Tue 3/7/17	Mon 5/29/17	851
853	Navy Review of Internal Draft RAD/CERCLA PP/Draft RAP for Site 12	20 days	Tue 5/30/17	Mon 6/26/17	852
854	Prepare Draft RAD/CERCLA PP/RAP for Site 12	10 days	Tue 6/27/17	Mon 7/10/17	853
855	Agency Review of Draft RAD/CERCLA PP/Draft RAP for Site 12	20 days	Tue 7/11/17	Mon 8/7/17	854
856	Prepare Preliminary RTCs for Draft RAD/CERCLA PP/Draft RAP for Site 12	22 days	Tue 8/8/17	Wed 9/6/17	855
857	Prepare Internal Final RAD/CERCLA PP/RAP for Site 12	20 days	Thu 9/7/17	Wed 10/4/17	856
858	Navy Review of Internal Final RAD/CERCLA PP/RAP for Site 12	7 days	Thu 10/5/17	Fri 10/13/17	857
859	Submit Final RAD/CERCLA PP/Draft RAP for Site 12	10 days	Mon 10/16/17	Fri 10/27/17	858
860	Public Notice of Final RAD/CERCLA PP/Draft RAP for Site 12	0 edays	Fri 10/27/17	Fri 10/27/17	859
861	Public Comment Period of Final RAD/CERCLA PP/Draft RAP for Site 12	31 edays	Fri 10/27/17	Mon 11/27/17	860
862	Finalize Administrative Record for Final RAD/CERCLA PP/Draft RAP for Site 12	0 days	Mon 11/27/17	Mon 11/27/17	861
863	Public Meeting for Final RAD/CERCLA PP/Draft RAP for Site 12	0 days	Mon 11/27/17	Mon 11/27/17	862
864	<b>RADIOLOGICAL AND CERCLA ROD/RAP FOR SITE 12</b>	<b>191 days</b>	<b>Thu 10/5/17</b>	<b>Thu 6/28/18</b>	
865	Prepare Internal Draft RAD/CERCLA ROD/RAP for Site 12	60 days	Thu 10/5/17	Wed 12/27/17	858SS
866	Navy Review of Internal Draft of RAD/CERCLA ROD/RAP for Site 12	20 days	Thu 12/28/17	Wed 1/24/18	865
867	Prepare Draft RAD/CERCLA ROD/RAP for Site 12	10 days	Thu 1/25/18	Wed 2/7/18	866
868	Agency Review of Draft RAD/CERCLA ROD/RAP for Site 12	20 days	Thu 2/8/18	Wed 3/7/18	867
869	Prepare Preliminary RTCs on Draft RAD/CERCLA ROD/RAP for Site 12	22 days	Thu 3/8/18	Fri 4/6/18	868
870	Prepare Internal Final RAD/CERCLA ROD/RAP for Site 12	20 days	Mon 4/9/18	Fri 5/4/18	869
871	Navy Review of Internal Final RAD/CERCLA ROD/RAP for Site 12	7 days	Mon 5/7/18	Tue 5/15/18	870
872	Submit Final RAD/CERCLA ROD/RAP for Site 12	10 days	Wed 5/16/18	Tue 5/29/18	871
873	RAD/CERCLA ROD/RAP for Site 12 Signature	30 edays	Tue 5/29/18	Thu 6/28/18	872
874	Public Notice of Signing RAD/CERCLA ROD/RAP for Site 12	0 edays	Thu 6/28/18	Thu 6/28/18	873
875	<b>RADIOLOGICAL AND CERLCA REMEDIAL DESIGN FOR SITE 12</b>	<b>209 days</b>	<b>Mon 4/9/18</b>	<b>Thu 1/24/19</b>	
876	Navy to award contract for Site 12 RAD/CERCLA Remedial Design/Remedial Action	40 days	Mon 4/9/18	Fri 6/1/18	870SS
877	Internal Draft RAD/CERCLA RD for Site 12	60 days	Mon 6/4/18	Fri 8/24/18	870,876
878	Navy Review of Internal Draft RAD/CERCLA RD for Site 12	20 days	Mon 8/27/18	Fri 9/21/18	877
879	Draft RAD/CERCLA RD for Site 12	10 days	Mon 9/24/18	Fri 10/5/18	878
880	Agency Review of Draft RAD/CERCLA RD for Site 12	20 days	Mon 10/8/18	Fri 11/2/18	879
881	Prepare Preliminary RTCs on Draft RAD/CERCLA RD for Site 12	22 days	Mon 11/5/18	Tue 12/4/18	880
882	Internal Final for Site 12 RAD/CERCLA RD	20 days	Wed 12/5/18	Tue 1/1/19	881
883	Navy Review of Internal Final for Site 12 RAD/CERCLA RD	7 days	Wed 1/2/19	Thu 1/10/19	880,882
884	Final RAD/CERCLA RD for Site 12	10 days	Fri 1/11/19	Thu 1/24/19	883

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
885	<b>RADIOLOGICAL AND CERCLA REMEDIAL ACTION FOR SITE 12</b>	<b>498 days</b>	<b>Fri 1/25/19</b>	<b>Tue 12/22/20</b>	
886	<b>RADIOLOGICAL AND CERCLA REMEDIAL ACTION WORK PLAN (RAWP)</b>	<b>107 days</b>	<b>Fri 1/25/19</b>	<b>Mon 6/24/19</b>	
887	Prepare Internal Draft Site 12 RAD/CERCLA RAWP	20 days	Fri 1/25/19	Thu 2/21/19	884
888	Navy Review of Internal Draft Site 12 RAD/CERCLA RAWP	10 days	Fri 2/22/19	Thu 3/7/19	887
889	Draft Site 12 RAD/CERCLA RAWP	5 days	Fri 3/8/19	Thu 3/14/19	888
890	Agency Review Draft Site 12 RAD/CERCLA RAWP	20 days	Fri 3/15/19	Thu 4/11/19	889
891	Prepare Preliminary Responses to Agency Comments on Draft Site 12 RAD/CERCLA RAWP	22 days	Fri 4/12/19	Mon 5/13/19	890
892	Prepare Internal Final Site Site 12 RAD/CERCLA RAWP	10 days	Tue 5/14/19	Mon 5/27/19	891
893	Navy Review Internal Final Site 12 RAD/CERCLA RAWP	10 days	Tue 5/28/19	Mon 6/10/19	892
894	Final Site 12 RAD/CERCLA RAWP	10 days	Tue 6/11/19	Mon 6/24/19	893
895	<b>RADIOLOGICAL AND CERCLA REMEDIAL ACTION FIELD WORK AND FINAL STATUS SURVEY</b>	<b>262 days</b>	<b>Tue 6/25/19</b>	<b>Wed 6/24/20</b>	<b>894</b>
896	<b>RADIOLOGICAL AND CERCLA REMEDIAL ACTION COMPLETION REPORT (RACR) INCLUDING FSS REPORT</b>	<b>129 days</b>	<b>Thu 6/25/20</b>	<b>Tue 12/22/20</b>	
897	Internal Draft RAD/CERCLA RACR/FSS Report for Site 12	20 days	Thu 6/25/20	Wed 7/22/20	895
898	BCT Working Meeting for Site 12 RAD/CERCLA RACR/FSS Report	0 edays	Fri 7/10/20	Fri 7/10/20	897SS+15 edays
899	Navy Review of Internal Draft RAD/CERCLA RACR/FSS Report for Site 12	20 days	Thu 7/23/20	Wed 8/19/20	897
900	Draft RAD/CERCLA RACR/FSS Report for Site 12	10 days	Thu 8/20/20	Wed 9/2/20	899
901	Agency Review of Site 12 Draft RAD/CERCLA RACR/FSS Report	20 days	Thu 9/3/20	Wed 9/30/20	900
902	Preliminary RTCs on Site 12 Draft RAD/CERCLA RACR/FSS Report	22 days	Thu 10/1/20	Fri 10/30/20	901
903	Internal Final RAD/CERCLA RACR/FSS Report for Site 12	20 days	Mon 11/2/20	Fri 11/27/20	902
904	Navy Review of Internal Final RAD/CERCLA RACR/FSS Report for Site 12	7 days	Mon 11/30/20	Tue 12/8/20	903
905	Final RAD/CERCLA RACR/FSS Report for Site 12	10 days	Wed 12/9/20	Tue 12/22/20	904

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
906	<b>SITE 21</b>	<b>2936 days</b>	<b>Tue 7/1/03</b>	<b>Mon 9/29/14</b>	
907	REMEDIAL INVESTIGATION FOR SITE 21	952 days	Tue 7/1/03	Tue 2/20/07	
923	TREATABILITY STUDY FOR SITE 21	1626 days	Wed 12/15/04	Mon 3/7/11	
946	FEASIBILITY STUDY FOR SITE 21	670 days	Tue 9/5/06	Tue 3/31/09	
961	SITE 21 SOIL GAS INVESTIGATION WORK PLAN	363 days	Sun 6/13/10	Wed 11/2/11	
970	SITE 21 SOIL GAS INVESTIGATION FIELD WORK / DATA ANALYSIS	131 edays	Wed 11/9/11	Mon 3/19/12	969FS+7 edays
971	SITE 21 SOIL GAS HHRA ADDENDUM	169 days	Tue 3/20/12	Sun 11/11/12	
980	PP/DRAFT RAP FOR SITE 21	485 days	Mon 1/4/10	Sun 11/13/11	
996	ROD/RAP FOR SITE 21	381 days	Mon 9/5/11	Tue 2/19/13	
1010	LAND USE CONTROL REMEDIAL DESIGN/ REMEDIAL ACTION WORK PLAN (LUC RD/RAWP) FOR SITE 21	380 days	Mon 4/30/12	Fri 10/11/13	
1019	REMEDIAL ACTION COMPLETION REPORT (RACR)	113 days	Thu 4/24/14	Mon 9/29/14	
1020	Internal Draft RACR	20 days	Thu 4/24/14	Wed 5/21/14	
1021	BCT Scoping Meeting	0 days	Wed 5/21/14	Wed 5/21/14	1020SS+20 days
1022	Navy Review of Internal Draft RACR	10 days	Thu 5/22/14	Wed 6/4/14	1020
1023	Draft RACR	20 days	Thu 6/5/14	Wed 7/2/14	1022
1024	Agency Review of Draft RACR	20 days	Thu 7/3/14	Wed 7/30/14	1023
1025	Internal Final RACR	23 days	Thu 7/31/14	Mon 9/1/14	1024
1026	Navy Review of Internal Final RACR	10 days	Tue 9/2/14	Mon 9/15/14	1025
1027	Final RACR	10 days	Tue 9/16/14	Mon 9/29/14	1026

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
1028	<b>SITE 24</b>	<b>3788 days</b>	<b>Tue 1/21/03</b>	<b>Fri 6/16/17</b>	
1029	<b>PLUME DELINEATION INVESTIGATION</b>	<b>146 days</b>	<b>Mon 2/3/03</b>	<b>Wed 7/23/03</b>	
1036	<b>REMEDIAL INVESTIGATION/FOCUSED FEASIBILITY STUDY FOR SITE 24</b>	<b>960 days</b>	<b>Sun 10/31/04</b>	<b>Thu 7/3/08</b>	
1063	<b>PILOT STUDY FOR SITE 24</b>	<b>651 days</b>	<b>Tue 1/21/03</b>	<b>Thu 6/9/05</b>	
1079	<b>EXPANDED TREATABILITY STUDY FOR SITE 24</b>	<b>2453 days</b>	<b>Fri 3/26/04</b>	<b>Fri 8/16/13</b>	
1080	Draft Plans for Expanded Treatability Study Site 24	234 edays	Fri 3/26/04	Mon 11/15/04	1073FS+1 day
1081	Install Expanded Treatability Study System Site 24	121 edays	Mon 11/15/04	Wed 3/16/05	1080
1082	Operate, Monitor and Investigate Expanded Treatability Study System Site 24	2455 edays	Thu 3/17/05	Tue 12/6/11	1081FS+1 day
1083	<b>Prepare Final Report of Expanded Treatability Study System Site 24 (Phase II)</b>	<b>237 days</b>	<b>Fri 12/31/10</b>	<b>Wed 11/30/11</b>	
1093	<b>Prepare Final Work Plan of Expanded Treatability Study System Site 24 (Phase III)</b>	<b>227 days</b>	<b>Sun 12/19/10</b>	<b>Tue 11/1/11</b>	
1103	Operate, Monitor and Investigate Expanded Treatability Study System Site 24 (Phase III)	485 edays	Tue 11/1/11	Thu 2/28/13	1102
1104	<b>Prepare Final Reports of Expanded Treatability Study System Site 24 (Phase III)</b>	<b>160 days</b>	<b>Sat 1/5/13</b>	<b>Fri 8/16/13</b>	
1113	<b>SITE 24 SOIL GAS INVESTIGATION</b>	<b>239 days</b>	<b>Fri 2/4/11</b>	<b>Wed 1/4/12</b>	
1124	<b>FOCUSED FEASIBILITY STUDY ADDENDUM REPORT</b>	<b>352 days</b>	<b>Sat 6/1/13</b>	<b>Tue 10/7/14</b>	
1125	Navy to award contract for Site 24 Focused FS Addendum	60 edays	Sat 6/1/13	Wed 7/31/13	
1126	Internal Draft Focused FS Addendum for Site 24	65 days	Mon 1/20/14	Fri 4/18/14	
1127	Navy Review of Internal Draft Site 24 Focused FS Addendum	21 days	Mon 4/21/14	Mon 5/19/14	1126
1128	Draft Focused FS Addendum for Site 24	20 days	Tue 5/20/14	Mon 6/16/14	1127
1129	Agency Review of Draft Focused FS Addendum for Site 24	20 days	Tue 6/17/14	Mon 7/14/14	1128
1130	Preliminary RTCs on Draft Focused FS Addendum for Site 24	22 days	Tue 7/15/14	Wed 8/13/14	1129
1131	Internal Final for Site 24 Focused FS Addendum	22 days	Thu 8/14/14	Fri 9/12/14	1130
1132	Navy Review of Internal Final for Site 24 Focused FS Addendum	7 days	Mon 9/15/14	Tue 9/23/14	1131
1133	Final Focused FS Addendum for Site 24	10 days	Wed 9/24/14	Tue 10/7/14	1132
1134	<b>LOT 69 AND BUILDING 342 RADIOLOGICAL SURVEY - SEE BASEWIDE RADIOLOGICAL SURVEY AND REPORT PART II</b>	<b>0 edays</b>	<b>Fri 6/5/15</b>	<b>Fri 6/5/15</b>	2500
1135	<b>PP/DRAFT RAP FOR SITE 24</b>	<b>601 days</b>	<b>Sat 12/29/12</b>	<b>Mon 4/20/15</b>	
1136	Navy to re-award contract for Site 24 PP/ROD/Draft RAP	58.38 edays	Sat 12/29/12	Tue 2/26/13	
1137	Revise Internal Draft PP/Draft RAP for Site 24	40 days	Thu 8/14/14	Wed 10/8/14	1131SS
1138	Navy Review of Internal Draft PP/Draft RAP for Site 24	20 days	Thu 10/9/14	Wed 11/5/14	1137
1139	Prepare Draft PP/Draft RAP for Site 24	15 days	Thu 11/6/14	Wed 11/26/14	1138
1140	Agency Review of Draft PP/Draft RAP for Site 24	20 days	Thu 11/27/14	Wed 12/24/14	1139,1108
1141	Prepare Preliminary RTCs on Draft PP/Draft RAP for Site 24	22 days	Thu 12/25/14	Fri 1/23/15	1140
1142	Prepare Internal Final PP/Draft RAP for Site 24	20 days	Mon 1/26/15	Fri 2/20/15	1141
1143	Navy Review of Internal Final PP/Draft RAP for Site 24	10 days	Mon 2/23/15	Fri 3/6/15	1142
1144	Submit Final PP/Draft RAP for Site 24	10 days	Mon 3/9/15	Fri 3/20/15	1143
1145	Public Notice of PP/Draft RAP for Site 24	0 edays	Fri 3/20/15	Fri 3/20/15	1144
1146	Public Comment Period for PP/Draft RAP for Site 24	31 edays	Fri 3/20/15	Mon 4/20/15	1145
1147	Finalize Administrative Record for PP/Draft RAP for Site 24	0 edays	Mon 4/20/15	Mon 4/20/15	1146
1148	Public Meeting for PP/Draft RAP for Site 24	0 edays	Thu 4/9/15	Thu 4/9/15	1146SS+20 edays
1149	<b>ROD/RAP FOR SITE 24</b>	<b>120 days</b>	<b>Mon 12/29/14</b>	<b>Fri 6/12/15</b>	
1150	Navy to award contract for ROD/RAP for Site 24	40 days	Mon 12/29/14	Fri 2/20/15	1144FS-60 days
1151	Prepare Internal Draft ROD/RAP for Site 24	60 days	Mon 2/23/15	Fri 5/15/15	1150
1152	Navy Review of Internal Draft ROD/RAP for Site 24	20 days	Mon 5/18/15	Fri 6/12/15	1151
1153	Prepare Draft ROD/RAP for Site 24	20 days	Mon 12/29/14	Fri 1/23/15	1144FS-60 days
1154	Agency Review of Draft ROD/RAP for Site 24	20 days	Mon 1/26/15	Fri 2/20/15	1153
1155	Prepare Preliminary RTCs on Draft ROD/RAP for Site 24	22 days	Mon 2/23/15	Tue 3/24/15	1154

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
1156	Prepare Internal Final ROD/RAP for Site 24	20 days	Wed 3/25/15	Tue 4/21/15	1155
1157	Navy Review of Internal Final ROD/RAP for Site 24	10 days	Wed 4/22/15	Tue 5/5/15	1156
1158	Submit Final ROD/RAP for Site 24	10 days	Wed 5/6/15	Tue 5/19/15	1157
1159	ROD/RAP Signature for Site 24	5 days	Wed 5/20/15	Tue 5/26/15	1158
1160	Public Notice of Signing ROD/RAP for Site 24	0 edays	Tue 5/26/15	Tue 5/26/15	1159
1161	<b>REMEDIAL DESIGN FOR SITE 24</b>	<b>292 days</b>	<b>Wed 11/19/14</b>	<b>Thu 12/31/15</b>	
1162	Navy to award contract for Site 24 RD/RA	40 days	Wed 11/19/14	Tue 1/13/15	1156SS-90 days
1163	Internal Draft RD for Site 24	60 days	Wed 4/22/15	Tue 7/14/15	1156,1162
1164	Navy Review of Internal Draft RD for Site 24	20 days	Wed 7/15/15	Tue 8/11/15	1163
1165	Draft RD for Site 24	20 days	Wed 8/12/15	Tue 9/8/15	1164
1166	Agency Review of Draft RD for Site 24	20 days	Wed 9/9/15	Tue 10/6/15	1165
1167	Preliminary RTCs on Draft RD for Site 24	22 days	Wed 10/7/15	Thu 11/5/15	1166
1168	Internal Final for Site 24 RD	20 days	Fri 11/6/15	Thu 12/3/15	1167
1169	Navy Review of Internal Final for Site 24 RD	10 days	Fri 12/4/15	Thu 12/17/15	1168
1170	Final RD for Site 24	10 days	Fri 12/18/15	Thu 12/31/15	1169
1171	<b>REMEDIAL ACTION FOR SITE 24</b>	<b>399 days</b>	<b>Fri 11/6/15</b>	<b>Wed 5/17/17</b>	
1172	<b>REMEDIAL ACTION WORK PLAN (RAWP)</b>	<b>152 days</b>	<b>Fri 11/6/15</b>	<b>Mon 6/6/16</b>	
1173	Prepare Internal Draft Site 24 RAWP	40 days	Fri 11/6/15	Thu 12/31/15	1168SS
1174	Navy Review of Internal Draft Site 24 RAWP	10 days	Fri 1/1/16	Thu 1/14/16	1173
1175	Draft Site 24 RAWP	20 days	Fri 1/15/16	Thu 2/11/16	1174
1176	Agency Review Draft Site 24 RAWP	20 days	Fri 2/12/16	Thu 3/10/16	1175
1177	Prepare Preliminary Responses to Agency Comments on Draft Site 24 RAWP	22 days	Fri 3/11/16	Mon 4/11/16	1176
1178	Prepare Internal Final Site Site 24 RAWP	20 days	Tue 4/12/16	Mon 5/9/16	1177
1179	Navy Review Internal Final Site 24 RAWP	10 days	Tue 5/10/16	Mon 5/23/16	1178
1180	Final Site 24 RAWP	10 days	Tue 5/24/16	Mon 6/6/16	1179
1181	<b>REMEDIAL ACTION</b>	<b>105 days</b>	<b>Tue 6/7/16</b>	<b>Mon 10/31/16</b>	<b>1180</b>
1182	<b>REMEDIAL ACTION COMPLETION REPORT (RACR)</b>	<b>162 days</b>	<b>Tue 10/4/16</b>	<b>Wed 5/17/17</b>	
1183	Internal Draft RACR for Site 24	40 days	Tue 10/4/16	Mon 11/28/16	1181FS-20 days
1184	BCT Scoping Meeting for Site 24 RACR	0 days	Thu 11/3/16	Thu 11/3/16	1183SS+30 edays
1185	Navy Review of Internal Draft RACR for Site 24	20 days	Tue 11/29/16	Mon 12/26/16	1183
1186	Draft RACR for Site 24	20 days	Tue 12/27/16	Mon 1/23/17	1185
1187	Agency Review of Site 24 Draft RACR	20 days	Tue 1/24/17	Mon 2/20/17	1186
1188	Preliminary RTCs on Site 24 Draft RACR	22 days	Tue 2/21/17	Wed 3/22/17	1187
1189	Internal Final RACR for Site 24	20 days	Thu 3/23/17	Wed 4/19/17	1188
1190	Navy Review of Internal Final RACR for Site 24	10 days	Thu 4/20/17	Wed 5/3/17	1189
1191	Final RACR for Site 24	10 days	Thu 5/4/17	Wed 5/17/17	1190
1192	<b>SITE CLOSEOUT FOR SITE 24</b>	<b>30 edays</b>	<b>Wed 5/17/17</b>	<b>Fri 6/16/17</b>	1191

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**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
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ID	Task Name	Duration	Start	Finish	Predecessors
1193	<b>SITE 27</b>	<b>8243 days</b>	<b>Wed 5/7/03</b>	<b>Mon 12/11/34</b>	
1194	<b>FEASIBILITY STUDY FOR SITE 27</b>	<b>878 days</b>	<b>Wed 5/7/03</b>	<b>Tue 9/19/06</b>	
1212	✓ <b>ADDITIONAL INVESTIGATION AT SITE 27</b>	<b>566 days</b>	<b>Fri 4/28/06</b>	<b>Fri 6/27/08</b>	
1230	✓ <b>FEASIBILITY STUDY (REV 2)</b>	<b>554 days</b>	<b>Fri 6/27/08</b>	<b>Fri 8/13/10</b>	
1240	✓ <b>SITE 27 BOUNDARY CHANGE LETTER</b>	140 days	Sat 4/3/10	Fri 8/20/10	3412FF
1241	✓ <b>PP/DRAFT RAP FOR SITE 27</b>	<b>523 days</b>	<b>Wed 7/1/09</b>	<b>Sat 7/2/11</b>	
1259	✓ <b>ROD/RAP FOR SITE 27</b>	<b>250 days</b>	<b>Mon 5/9/11</b>	<b>Fri 4/20/12</b>	
1273	✓ <b>REMEDIAL DESIGN FOR SITE 27</b>	<b>331 days</b>	<b>Wed 2/15/12</b>	<b>Wed 5/22/13</b>	
1289	<b>REMEDIAL ACTION FOR SITE 27</b>	<b>518 days</b>	<b>Mon 7/30/12</b>	<b>Thu 7/24/14</b>	
1290	✓ Navy to award contract for Site 27 Remedial Action	60 edays	Mon 7/30/12	Fri 9/28/12	
1291	✓ <b>REMEDIAL ACTION WORK PLAN (RAWP)</b>	<b>127 days</b>	<b>Wed 1/16/13</b>	<b>Fri 7/12/13</b>	
1300	✓ <b>REMEDIAL FIELD WORK FOR SITE 27</b>	429 days	Tue 7/9/13	Fri 11/29/13	1299FS-3 edays
1301	📅 Waste disposal	46 days	Mon 12/2/13	Mon 2/3/14	1300
1302	<b>REMEDIAL ACTION COMPLETION REPORT (RACR)</b>	<b>123 days</b>	<b>Tue 2/4/14</b>	<b>Thu 7/24/14</b>	
1303	Internal Draft RACR for Site 27	20 days	Tue 2/4/14	Mon 3/3/14	
1304	Navy Review of Internal Draft RACR for Site 27	19 days	Tue 3/4/14	Fri 3/28/14	1303
1305	Draft RACR for Site 27	9 days	Mon 3/31/14	Thu 4/10/14	1304
1306	Agency Review of Draft Site 27 RACR	29 days	Fri 4/11/14	Wed 5/21/14	1305
1307	Preliminary RTCs to Agencies of Draft Site 27 RACR	7 days	Thu 5/22/14	Fri 5/30/14	1306
1308	Internal Final RACR for Site 27	24 days	Thu 5/22/14	Tue 6/24/14	1306
1309	Navy Review of Internal Final RACR for Site 27	12 days	Wed 6/25/14	Thu 7/10/14	1308
1310	Final RACR for Site 27	10 days	Fri 7/11/14	Thu 7/24/14	1309
1311	<b>LUC RD ADDENDUM FOR SITE 27</b>	<b>143 days</b>	<b>Tue 4/29/14</b>	<b>Thu 11/13/14</b>	
1312	📅 Navy to Award Contract for Site 27 LUC RD Addendum	45 days	Tue 4/29/14	Mon 6/30/14	
1313	📅 Prepare Internal Draft Site 27 LUC RD Addendum	20 days	Tue 7/1/14	Mon 7/28/14	1312
1314	Navy Review of Internal Draft Site 27 LUC RD Addendum	10 days	Tue 7/29/14	Mon 8/11/14	1313
1315	Draft Site 27 LUC RD Addendum	5 days	Tue 8/12/14	Mon 8/18/14	1314
1316	Agency Review Draft Site 27 LUC RD Addendum	20 days	Tue 8/19/14	Mon 9/15/14	1315
1317	Prepare Internal Final Site Site 27 LUC RD Addendum	23 days	Tue 9/16/14	Thu 10/16/14	1316
1318	Navy Review Internal Final Site 27 LUC RD Addendum	10 days	Fri 10/17/14	Thu 10/30/14	1317
1319	Final Site 27 LUC RD Addendum	10 days	Fri 10/31/14	Thu 11/13/14	1318
1320	<b>BATHYMETRY SURVEYS FOR SITE 27</b>	<b>5322 days</b>	<b>Fri 7/18/14</b>	<b>Mon 12/11/34</b>	
1321	📅 Navy to Award Contract for Site 27 Bathymetry Surveys	60 edays	Fri 7/18/14	Tue 9/16/14	
1322	📅 Year 1 Site 27 Bathymetry Survey	40 days	Mon 10/20/14	Fri 12/12/14	1321,1300FS+230 days
1323	Year 5 Site 27 Bathymetry Survey	40 days	Fri 10/18/19	Thu 12/12/19	1322FS+1264 days
1324	Year 10 Site 27 Bathymetry Survey	40 days	Thu 10/17/24	Wed 12/11/24	1323FS+1264 days
1325	Year 15 Site 27 Bathymetry Survey	40 days	Wed 10/17/29	Tue 12/11/29	1324FS+1264 days
1326	Year 20 Site 27 Bathymetry Survey	40 days	Tue 10/17/34	Mon 12/11/34	1325FS+1264 days

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**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	 Task Name	Duration	Start	Finish	Predecessors
1327	<b>SITE 28</b>	<b>2453 days</b>	<b>Thu 12/2/04</b>	<b>Sun 4/27/14</b>	
1328	 <b>REMEDIAL INVESTIGATION FOR SITES 8, 28, 29</b>	<b>1130 days</b>	<b>Thu 12/2/04</b>	<b>Wed 4/1/09</b>	
1352	 <b>NFA PP/DRAFT RAP FOR SITE 28</b>	<b>737 days</b>	<b>Thu 8/2/07</b>	<b>Sat 5/29/10</b>	
1369	 <b>NFA ROD/RAP FOR SITE 28</b>	<b>167 days</b>	<b>Thu 4/1/10</b>	<b>Mon 11/22/10</b>	
1383	 <b>SITE CLOSEOUT FOR SITE 28 (time allocated for transfer/tidelands trust exchange)</b>	<b>1252 edays</b>	<b>Mon 11/22/10</b>	<b>Sun 4/27/14</b>	1382

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
1384	<b>SITE 29</b>	<b>3840 days</b>	<b>Tue 4/19/05</b>	<b>Fri 1/3/20</b>	
1385	✓ <b>INTERIM REMEDIAL INVESTIGATION FOR SITES 8 &amp; 29</b>	<b>1029 days</b>	<b>Tue 4/19/05</b>	<b>Fri 3/27/09</b>	
1409	✓ <b>SITE 29 (ON-OFF RAMPS) BOUNDARY CHANGE LETTER</b>	<b>278 edays</b>	<b>Wed 3/10/10</b>	<b>Mon 12/13/10</b>	3420FF
1410	✓ <b>SITE 29 ARTIFACT BOUNDARY CHANGE TECHNICAL MEMORANDUM</b>	<b>118 edays</b>	<b>Thu 9/1/11</b>	<b>Wed 12/28/11</b>	
1411	☒ <b>CALTRANS BRIDGE CONSTRUCTION PROJECT</b>	<b>2523 days</b>	<b>Mon 1/30/06</b>	<b>Wed 9/30/15</b>	
1412	<b>REMAINING CERCLA ITEMS (IF NECESSARY)</b>	<b>1135 days</b>	<b>Sat 8/1/15</b>	<b>Fri 12/6/19</b>	
1413	<b>SITES 8 &amp; 29 RI ADDENDUM (IF NECESSARY)</b>	<b>175 days</b>	<b>Sat 8/1/15</b>	<b>Sun 4/3/16</b>	
1425	<b>FEASIBILITY STUDY FOR SITES 8 &amp; 29 (IF NECESSARY)</b>	<b>250 days</b>	<b>Tue 2/9/16</b>	<b>Tue 1/24/17</b>	
1439	<b>PP/DRAFT RAP FOR SITES 8 &amp; 29</b>	<b>229 days</b>	<b>Sat 12/31/16</b>	<b>Thu 11/16/17</b>	
1456	<b>ROD/RAP FOR SITES 8 &amp; 29</b>	<b>229 days</b>	<b>Sat 9/23/17</b>	<b>Thu 8/9/18</b>	
1471	<b>REMEDIAL DESIGN FOR SITES 8 &amp; 29 (IF NECESSARY)</b>	<b>196 days</b>	<b>Thu 5/17/18</b>	<b>Sun 2/17/19</b>	
1483	<b>REMEDIAL ACTION FOR SITES 8 &amp; 29 (IF NECESSARY)</b>	<b>210 days</b>	<b>Sun 2/17/19</b>	<b>Fri 12/6/19</b>	
1494	<b>SITE CLOSEOUT FOR SITES 8 &amp; 29</b>	<b>20 days</b>	<b>Mon 12/9/19</b>	<b>Fri 1/3/20</b>	1493

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**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
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ID	 Task Name	Duration	Start	Finish	Predecessors
1495	<b>SITE 30</b>	<b>3204 days</b>	<b>Sun 3/16/03</b>	<b>Fri 6/5/15</b>	
1496	 <b>SITE 30 DATA AND FIELD ACTIVITY REPORT</b>	<b>108 days</b>	<b>Sun 3/16/03</b>	<b>Mon 7/28/03</b>	
1502	 <b>GROUNDWATER MONITORING FOR SITES 30/31</b>	<b>160 days</b>	<b>Thu 1/1/04</b>	<b>Thu 8/12/04</b>	
1515	 <b>REMEDIAL INVESTIGATION FOR SITE 30</b>	<b>425 days</b>	<b>Thu 7/8/04</b>	<b>Fri 2/17/06</b>	
1529	 <b>FEASIBILITY STUDY FOR SITE 30</b>	<b>357 days</b>	<b>Mon 7/4/05</b>	<b>Tue 11/14/06</b>	
1543	 <b>PP FOR SITE 30</b>	<b>575 days</b>	<b>Sun 8/6/06</b>	<b>Sat 10/18/08</b>	
1562	 <b>ROD/RAP FOR SITE 30</b>	<b>444 days</b>	<b>Wed 1/30/08</b>	<b>Tue 10/13/09</b>	
1576	 <b>SITE 30 LAND USE CONTROL REMEDIAL DESIGN/ REMEDIAL ACTION WORK PLAN (LUC RD/RAWP)</b>	<b>472 days</b>	<b>Wed 2/11/09</b>	<b>Thu 12/2/10</b>	
1587	 <b>SITE 30 RADIOLOGICAL SURVEY/FSS REPORT - SEE BASEWIDE RADIOLOGICAL SURVEY AND REPORT PART II</b>	<b>0 days</b>	<b>Fri 6/5/15</b>	<b>Fri 6/5/15</b>	2500
1588	<b>MEMO TO FILE (to reference post-ROD radiological scanning work)</b>	<b>0 edays</b>	<b>Fri 6/5/15</b>	<b>Fri 6/5/15</b>	1587

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
1589	<b>SITE 31</b>	<b>2950 days</b>	<b>Wed 6/11/03</b>	<b>Mon 9/29/14</b>	
1590	✓ <b>ADDITIONAL INVESTIGATION FOR SITE 31</b>	<b>67 days</b>	<b>Wed 6/11/03</b>	<b>Fri 9/12/03</b>	
1602	✓ <b>GROUNDWATER MONITORING FOR SITES 30/31</b>	<b>155 days</b>	<b>Thu 1/1/04</b>	<b>Thu 8/5/04</b>	
1615	✓ <b>REMEDIAL INVESTIGATION FOR SITE 31</b>	<b>530 days</b>	<b>Thu 7/8/04</b>	<b>Fri 7/14/06</b>	
1638	✓ <b>FEASIBILITY STUDY FOR SITE 31</b>	<b>429 days</b>	<b>Wed 7/20/05</b>	<b>Tue 3/13/07</b>	
1652	✓ <b>PP FOR SITE 31</b>	<b>575 days</b>	<b>Sun 8/6/06</b>	<b>Sat 10/18/08</b>	
1671	✓ <b>ROD/RAP FOR SITE 31</b>	<b>449 days</b>	<b>Wed 1/23/08</b>	<b>Tue 10/13/09</b>	
1684	✓ <b>REMEDIAL ACTION WORK PLAN AND REMEDIAL ACTION FOR SITE 31</b>	<b>411 days</b>	<b>Wed 7/2/08</b>	<b>Thu 1/28/10</b>	
1697	<b>REMEDIAL ACTION FOR SITE 31</b>	<b>1196 days</b>	<b>Mon 2/1/10</b>	<b>Mon 9/1/14</b>	
1698	✓ <b>Site 31 Phase I Remediation Field Work</b>	<b>116 days</b>	<b>Mon 2/1/10</b>	<b>Tue 7/13/10</b>	
1700	✓ <b>Explanation of Significant Differences (ESD) for Site 31 ROD/RAP to include Site 33</b>	<b>251 days</b>	<b>Sat 6/5/10</b>	<b>Tue 5/24/11</b>	
1711	✓ <b>Site 31 Phase 2 Remedial Action Field Work Plan (Including Site 33)</b>	<b>411 days</b>	<b>Sat 7/3/10</b>	<b>Mon 1/30/12</b>	
1722	✓ <b>Work Plan Addendum for Sites 31 and 33 Remedial Action</b>	<b>135 days</b>	<b>Mon 3/25/13</b>	<b>Fri 9/27/13</b>	
1729	 <b>Site 31 Phase 2 Field Work</b>	101 days	Mon 9/30/13	Mon 2/17/14	
1730	 <b>SITE 31 FINAL STATUS SURVEY (FSS) FIELD WORK</b>	6 edays	Tue 2/11/14	Mon 2/17/14	1728
1731	<b>SITE 31 FINAL STATUS SURVEY (FSS) REPORT</b>	<b>169 days</b>	<b>Mon 12/9/13</b>	<b>Thu 7/31/14</b>	
1732	 Prepare Internal Draft Site 31 FSS Report	32 days	Mon 12/9/13	Tue 1/21/14	
1733	Navy Review Internal Draft Site 31 FSS Report	40 days	Wed 1/22/14	Tue 3/18/14	1732
1734	Prepare Draft Site 31 FSS Report	20 days	Wed 3/19/14	Tue 4/15/14	1733
1735	Agency Review Draft Site 31 FSS Report	20 days	Wed 4/16/14	Tue 5/13/14	1734
1736	Preliminary RTCs on Draft Site 31 FSS Report	22 days	Wed 5/14/14	Thu 6/12/14	1735
1737	Prepare Internal Final Site 31 FSS Report	10 days	Fri 6/13/14	Thu 6/26/14	1736
1738	Navy Review Internal Final Site 31 FSS Report	10 days	Fri 6/27/14	Thu 7/10/14	1737
1739	Submit Final Site 31 FSS Report	15 days	Fri 7/11/14	Thu 7/31/14	1738
1740	 <b>Remedial Action Completion Report (RACR) for Site 31</b>	<b>140 days</b>	<b>Tue 2/18/14</b>	<b>Mon 9/1/14</b>	
1741	 Internal Draft RACR for Site 31	20 days	Tue 2/18/14	Mon 3/17/14	1729
1742	Navy Review of Internal Draft RACR for Site 31	40 days	Tue 3/18/14	Mon 5/12/14	1741
1743	Draft RACR for Site 31	20 days	Tue 5/13/14	Mon 6/9/14	1742
1744	Agency Review of Site 31 Draft RACR	20 days	Tue 6/10/14	Mon 7/7/14	1743
1745	Preliminary RTCs of Draft Site 31 RACR	20 days	Tue 7/8/14	Mon 8/4/14	1744
1746	Internal Final RACR for Site 31	10 days	Tue 8/5/14	Mon 8/18/14	1745
1747	Navy Review of Internal Final RACR for Site 31	5 days	Tue 8/19/14	Mon 8/25/14	1746
1748	Submit Final RACR for Site 31	5 days	Tue 8/26/14	Mon 9/1/14	1747
1749	<b>SITE CLOSEOUT FOR SITE 31</b>	<b>20 days</b>	<b>Tue 9/2/14</b>	<b>Mon 9/29/14</b>	<b>1748</b>

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**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
1750	<b>SITE 32</b>	<b>2741 days</b>	<b>Wed 9/15/04</b>	<b>Mon 3/16/15</b>	
1751	REMEDIAL INVESTIGATION FOR SITE 32	1079 days	Wed 9/15/04	Thu 10/30/08	
1773	PCB SOIL ABATEMENT T111 / SITE 32 REMOVAL ACTION (see PCB Program)	1070 days	Fri 8/8/08	Wed 7/13/11	2251SS
1774	POST-CONSTRUCTION HHRA REVIEW	141 edays	Tue 4/13/10	Wed 9/1/10	
1775	PP/DRAFT RAP FOR SITE 32	149 days	Mon 3/21/11	Mon 10/17/11	
1788	SITE 32 RADIOLOGICAL SURVEY/FSS REPORT - SEE BASEWIDE RADIOLOGICAL SURVEY AND REPORT - PART I	0 edays	Fri 8/29/14	Fri 8/29/14	2478
1789	<b>ROD/RAP FOR SITE 32</b>	<b>217 days</b>	<b>Mon 4/28/14</b>	<b>Tue 2/24/15</b>	
1790	Navy to award contract for ROD/RAP for Site 32	40 days	Mon 4/28/14	Fri 6/20/14	1788FS-90 days
1791	Prepare Internal Draft ROD/RAP for Site 32	40 days	Mon 6/23/14	Fri 8/15/14	1790
1792	Navy Review of Internal Draft ROD/RAP for Site 32	40 days	Mon 8/18/14	Fri 10/10/14	1791
1793	Prepare Draft ROD/RAP for Site 32	11 days	Mon 10/13/14	Mon 10/27/14	1792
1794	Agency Review of Draft ROD/RAP for Site 32	20 days	Tue 10/28/14	Mon 11/24/14	1793
1795	Preliminary RTCs for Draft ROD/RAP for Site 32	11 days	Tue 11/25/14	Tue 12/9/14	1794
1796	Meeting to Discuss Preliminary RTCs for Draft ROD/RAP for Site 32	0 edays	Tue 12/9/14	Tue 12/9/14	1795
1797	Prepare Internal Final ROD/RAP for Site 32	15 days	Wed 12/10/14	Tue 12/30/14	1796
1798	Navy Review of Internal Final ROD/RAP for Site 32	10 days	Wed 12/31/14	Tue 1/13/15	1797
1799	Submit Final ROD/RAP for Site 32	10 days	Wed 1/14/15	Tue 1/27/15	1798
1800	ROD/RAP Signature for Site 32	20 days	Wed 1/28/15	Tue 2/24/15	1799
1801	Public Notice of Signing ROD/RAP for Site 32	0 edays	Tue 2/24/15	Tue 2/24/15	1800
1802	<b>SITE CLOSEOUT FOR SITE 32</b>	<b>20 edays</b>	<b>Tue 2/24/15</b>	<b>Mon 3/16/15</b>	1801

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**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
1803	<b>SITE 33</b>	<b>2745 days</b>	<b>Tue 12/2/03</b>	<b>Thu 6/5/14</b>	
1804	✓ <b>REMEDIAL INVESTIGATION FOR SITE 33</b>	<b>1676 days</b>	<b>Tue 12/2/03</b>	<b>Fri 4/30/10</b>	
1835	✓ <b>EXPLANATION OF SIGNIFICANT DIFFERENCES (ESD) FOR SITE 31 ROD/RAP TO INCLUDE SITE 33</b>	<b>353 edays</b>	<b>Sat 6/5/10</b>	<b>Tue 5/24/11</b>	1701SS
1836	<b>REMEDIAL ACTION FOR SITE 33</b>	<b>1004 days</b>	<b>Sat 7/3/10</b>	<b>Thu 5/8/14</b>	
1837	✓ <b>Site 33 Phase 2 Remedial Action Field Work Plan</b>	<b>411 days</b>	<b>Sat 7/3/10</b>	<b>Mon 1/30/12</b>	
1848	✓ Work Plan Addendum for Sites 31 and 33 Remedial Action	135 days	Mon 3/25/13	Fri 9/27/13	
1849	📅 <b>Site 33 Field Work</b>	703 edays	Mon 1/30/12	Thu 1/2/14	1847
1850	<b>Remedial Action Completion Report (RACR) for Site 33</b>	<b>495 days</b>	<b>Thu 6/14/12</b>	<b>Thu 5/8/14</b>	
1851	✓ Internal Draft RACR for Site 33	47 edays	Thu 6/14/12	Tue 7/31/12	1849FS-87 edays
1852	✓ Navy Review of Internal Draft RACR for Site 33	15 edays	Tue 7/31/12	Wed 8/15/12	1851
1853	✓ Draft RACR for Site 33	25 edays	Thu 8/16/12	Mon 9/10/12	1852FS+1 eday
1854	✓ Agency Review of Site 33 Draft RACR	53 edays	Mon 9/10/12	Fri 11/2/12	1853
1855	✓ Navy to Award Contract Revised RACR for Site 33	88 days	Fri 4/12/13	Mon 7/8/13	1854
1856	Prepare Internal Final RACR for Site 33	40 days	Fri 1/3/14	Thu 2/27/14	1849
1857	Navy Review of Internal Final RACR for Site 33	20 days	Fri 2/28/14	Thu 3/27/14	1856
1858	Agency Review of red-lined Final RACR for Site 33	10 days	Fri 3/28/14	Thu 4/10/14	1857
1859	Submit Final RACR for Site 33	20 days	Fri 4/11/14	Thu 5/8/14	1858
1860	<b>SITE CLOSEOUT FOR SITE 33</b>	<b>20 days</b>	<b>Fri 5/9/14</b>	<b>Thu 6/5/14</b>	1859

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**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID		Task Name	Duration	Start	Finish	Predecessors
1861		<b>PETROLEUM PROGRAM</b>	<b>4505 days</b>	<b>Wed 6/26/02</b>	<b>Tue 7/30/19</b>	
1862	✓	<b>SITE 4/19 - Closed</b>	<b>248 days</b>	<b>Wed 2/5/03</b>	<b>Wed 12/17/03</b>	
1872	✓	<b>SITES 14/22 - Closed</b>	<b>842 days</b>	<b>Wed 6/26/02</b>	<b>Mon 7/18/05</b>	
1889	✓	<b>SITE 15 - Closed</b>	<b>454 days</b>	<b>Tue 2/4/03</b>	<b>Tue 9/28/04</b>	
1907	✓	<b>SITE 16 - Closed</b>	<b>228 days</b>	<b>Sat 8/2/03</b>	<b>Thu 6/17/04</b>	
1916	✓	<b>SITE 20 - Closed</b>	<b>285 days</b>	<b>Tue 5/13/03</b>	<b>Thu 6/17/04</b>	
1926	✓	<b>SITE 25 - Closed</b>	<b>2199 days</b>	<b>Wed 5/28/03</b>	<b>Fri 10/28/11</b>	
1965	✓	<b>SITE 227 - Closed</b>	<b>173 days</b>	<b>Sat 1/24/04</b>	<b>Tue 9/21/04</b>	
1976	✓	<b>UST SITE 180C - Closed</b>	<b>434 days</b>	<b>Sun 2/15/04</b>	<b>Tue 10/11/05</b>	
1984	✓	<b>F2A/F2B - Closed</b>	<b>602 days</b>	<b>Thu 5/1/03</b>	<b>Mon 8/22/05</b>	
2001	✓	<b>SITE YF2 - Closed</b>	<b>73 days</b>	<b>Tue 3/9/04</b>	<b>Thu 6/17/04</b>	
2008	✓	<b>D1B (3rd Street) Closed</b>	<b>793 days</b>	<b>Thu 5/1/03</b>	<b>Sun 5/14/06</b>	

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**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
2021	<b>SITE 6</b>	<b>3540 days</b>	<b>Tue 4/8/03</b>	<b>Thu 10/20/16</b>	
2022	✓ <b>POST-CONSTRUCTION REPORT FOR SITE 6</b>	<b>261 days</b>	<b>Tue 4/8/03</b>	<b>Thu 4/1/04</b>	
2029	✓ Groundwater Monitoring for Site 6	339 edays	Wed 5/28/03	Sat 5/1/04	
2030	✓ Additional Investigation: Soil Vapor Sampling	45 edays	Mon 7/12/04	Thu 8/26/04	
2031	✓ <b>CLOSURE SUMMARY REPORT FOR SITE 6</b>	<b>181 days</b>	<b>Sat 3/26/05</b>	<b>Tue 12/6/05</b>	
2038	✓ Receipt of Water Board Letter of Non-Concurrence with NFA at Site 6	0 edays	Mon 5/15/06	Mon 5/15/06	
2039	✓ Site 6 Groundwater Monitoring	210 edays	Thu 6/1/06	Thu 12/28/06	
2040	✓ Prepare Revised Site 6 Boundary Paper	215 edays	Fri 6/23/06	Wed 1/24/07	
2041	✓ Agency Review Revised Site 6 Boundary Paper	86 days	Wed 1/24/07	Thu 4/19/07	2040
2042	✓ Evaluate Site 6 Path Forward	60 edays	Thu 4/19/07	Mon 6/18/07	2041
2043	<b>ADDITIONAL INVESTIGATION USTs 240</b>	<b>1417 days</b>	<b>Wed 3/16/11</b>	<b>Thu 8/18/16</b>	
2044	✓ Navy to Award Contract for Additional Investigation of USTs 240	90 edays	Wed 3/16/11	Tue 6/14/11	
2045	✓ <b>Additional Investigation of USTs 240 Corrective Action Plan (CAP) Work Plan</b>	<b>302 days</b>	<b>Tue 7/19/11</b>	<b>Wed 9/12/12</b>	
2053	✓ <b>Additional Investigation of USTs 240 Work Plan / Field Work</b>	154 edays	Mon 11/12/12	Mon 4/15/13	2052FS+61 edays
2054	✓ <b>Additional Investigation of USTs 240 Post-Construction Summary Report (PCSR)</b>	<b>156 days</b>	<b>Fri 3/8/13</b>	<b>Mon 10/14/13</b>	
2063	<b>Post-Corrective Action Groundwater Monitoring (1 year)</b>	<b>262 days</b>	<b>Wed 8/19/15</b>	<b>Thu 8/18/16</b>	<b>2724SS</b>
2064	<b>UST 240 CLOSURE</b>	<b>45 days</b>	<b>Fri 8/19/16</b>	<b>Thu 10/20/16</b>	<b>2063</b>
2065	USTs 240 Request for Closure	25 days	Fri 8/19/16	Thu 9/22/16	
2066	Receive Water Board Concurrence Letter for USTs 240 Closure	20 days	Fri 9/23/16	Thu 10/20/16	2065
2067	<b>UST 248 CLOSURE</b>	<b>45 days</b>	<b>Fri 8/19/16</b>	<b>Thu 10/20/16</b>	
2068	UST 248 Request for Closure	25 days	Fri 8/19/16	Thu 9/22/16	2065SS
2069	Receive Water Board Concurrence Letter for UST 248 Closure	20 days	Fri 9/23/16	Thu 10/20/16	2068
2070	<b>USCG</b>	<b>607 days</b>	<b>Mon 4/3/17</b>	<b>Tue 7/30/19</b>	
2071	📅 Navy to Award Contract for Additional Investigation and Reporting at USCG	60 days	Mon 4/3/17	Fri 6/23/17	
2072	<b>USCG Additional Investigation Work Plan</b>	<b>118 days</b>	<b>Mon 6/26/17</b>	<b>Wed 12/6/17</b>	
2073	Prepare Internal Draft USCG Additional Investigation Work Plan	40 days	Mon 6/26/17	Fri 8/18/17	2071
2074	Navy Review Internal Draft USCG Additional Investigation Work Plan	10 days	Mon 8/21/17	Fri 9/1/17	2073
2075	Prepare Draft USCG Additional Investigation Work Plan	5 days	Mon 9/4/17	Fri 9/8/17	2074
2076	Agency Review Draft USCG Additional Investigation Work Plan	20 days	Mon 9/11/17	Fri 10/6/17	2075
2077	Prepare Response to Agency Comments and Internal Final USCG Additional Investigation Work Plan	23 days	Mon 10/9/17	Wed 11/8/17	2076
2078	Navy Review Internal Final USCG Additional Investigation Work Plan	10 days	Thu 11/9/17	Wed 11/22/17	2077
2079	Submit Final USCG Additional Investigation Work Plan	10 days	Thu 11/23/17	Wed 12/6/17	2078
2080	<b>USCG Additional Investigation Field Work and Sample Analysis</b>	<b>40 days</b>	<b>Thu 12/7/17</b>	<b>Wed 1/31/18</b>	2079
2081	<b>Prepare USCG Additional Investigation Report</b>	<b>96 days</b>	<b>Thu 2/1/18</b>	<b>Thu 6/14/18</b>	
2082	Prepare Internal Draft USCG Additional Investigation Report	20 days	Thu 2/1/18	Wed 2/28/18	2080
2083	Navy Review Internal Draft USCG Additional Investigation Report	10 days	Thu 3/1/18	Wed 3/14/18	2082
2084	Prepare Draft USCG Additional Investigation Report	5 days	Thu 3/15/18	Wed 3/21/18	2083
2085	Agency Review Draft USCG Additional Investigation Report	20 days	Thu 3/22/18	Wed 4/18/18	2084
2086	Prepare RTCs and Internal Final USCG Additional Investigation Report	23 days	Thu 4/19/18	Mon 5/21/18	2085
2087	Navy Review Internal Final USCG Additional Investigation Report	10 days	Tue 5/22/18	Mon 6/4/18	2086
2088	Submit Final USCG Additional Investigation Report	10 edays	Mon 6/4/18	Thu 6/14/18	2087
2089	<b>USCG CAP Addendum</b>	<b>98 days</b>	<b>Fri 6/15/18</b>	<b>Tue 10/30/18</b>	
2090	Prepare Internal Draft USCG CAP Addendum	20 days	Fri 6/15/18	Thu 7/12/18	2088

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NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
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ID	Task Name	Duration	Start	Finish	Predecessors
2091	Navy Review Internal Draft USCG CAP Addendum	10 days	Fri 7/13/18	Thu 7/26/18	2090
2092	Prepare Draft USCG CAP Addendum	5 days	Fri 7/27/18	Thu 8/2/18	2091
2093	Agency Review Draft USCG CAP Addendum	20 days	Fri 8/3/18	Thu 8/30/18	2092
2094	Prepare Response to Agency Comments and Internal Final USCG CAP Addendum	23 days	Fri 8/31/18	Tue 10/2/18	2093
2095	Navy Review Internal Final USCG CAP Addendum	10 days	Wed 10/3/18	Tue 10/16/18	2094
2096	Submit Final USCG CAP Addendum	10 days	Wed 10/17/18	Tue 10/30/18	2095
2097	<b>USCG CAP Addendum Implementation</b>	<b>120 edays</b>	<b>Tue 10/30/18</b>	<b>Wed 2/27/19</b>	2096
2098	<b>USCG Post-Construction Summary Report</b>	<b>98 days</b>	<b>Thu 2/28/19</b>	<b>Mon 7/15/19</b>	
2099	Internal Draft USCG Post-Construction Summary Report	20 days	Thu 2/28/19	Wed 3/27/19	2097
2100	Navy Review of Internal Draft USCG Post-Construction Summary Report	10 days	Thu 3/28/19	Wed 4/10/19	2099
2101	Draft USCG Post-Construction Summary Report	5 days	Thu 4/11/19	Wed 4/17/19	2100
2102	Agency Review of Draft USCG Post-Construction Summary Report	20 days	Thu 4/18/19	Wed 5/15/19	2101
2103	Prepare Response to Agency Comments and Internal Final USCG Post-Construction Summary Report	23 days	Thu 5/16/19	Mon 6/17/19	2102
2104	Navy Review Internal Final USCG Post-Construction Summary Report	10 days	Tue 6/18/19	Mon 7/1/19	2103
2105	Submit Final USCG Post-Construction Summary Report	10 days	Tue 7/2/19	Mon 7/15/19	2104
2106	<b>Site USCG Closure Received Water Board Concurrence Letter</b>	<b>15 edays</b>	<b>Mon 7/15/19</b>	<b>Tue 7/30/19</b>	2105
2107	<b>YF3</b>	<b>934 days</b>	<b>Tue 4/5/11</b>	<b>Fri 10/31/14</b>	
2108	<b>YF3 ADDITIONAL INVESTIGATION</b>	<b>511 days</b>	<b>Tue 4/5/11</b>	<b>Tue 3/19/13</b>	
2128	<b>SCREENING-LEVEL ECOLOGICAL RISK ASSESSMENT (SLERA) FOR YF3</b>	<b>193 days</b>	<b>Wed 1/15/14</b>	<b>Fri 10/10/14</b>	
2129	Navy to award contract for SLERA at YF3	0 days	Wed 1/15/14	Wed 1/15/14	
2130	YF3 SLERA Scoping Meeting with Agencies	0 edays	Wed 1/15/14	Wed 1/15/14	2129SS
2131	Internal Draft YF3 SLERA	50 days	Wed 1/15/14	Tue 3/25/14	2130
2132	Navy Review of Internal Draft YF3 SLERA	26 days	Wed 3/26/14	Wed 4/30/14	2131
2133	Draft YF3 SLERA	15 days	Thu 5/1/14	Wed 5/21/14	2132
2134	Agency Review of Draft YF3 SLERA	20 days	Thu 5/22/14	Wed 6/18/14	2133
2135	Prepare Response to Agency Comments and Internal Final YF3 SLERA	62 days	Thu 6/19/14	Fri 9/12/14	2134
2136	Navy Review Internal Final YF3 SLERA	10 days	Mon 9/15/14	Fri 9/26/14	2135
2137	Submit Final YF3 SLERA	10 days	Mon 9/29/14	Fri 10/10/14	2136
2138	<b>Site YF3 Closure Received Water Board Concurrence Letter</b>	<b>15 days</b>	<b>Mon 10/13/14</b>	<b>Fri 10/31/14</b>	2137

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**TABLE B-2  
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DECEMBER 20, 2013**

ID	 Task Name	Duration	Start	Finish	Predecessors
2139	 <b>USTs</b>	<b>3787 days</b>	<b>Sun 5/25/03</b>	<b>Tue 11/28/17</b>	
2140	 <b>Tanks 204A and 204B (YBI) Removal</b>	<b>86 days</b>	<b>Sun 5/25/03</b>	<b>Wed 9/24/03</b>	
2149	 <b>USTs 237/238 &amp; 204 A-D Post-Construction Summary Report</b>	<b>130 days</b>	<b>Sun 11/23/03</b>	<b>Mon 5/24/04</b>	
2156	 Site USTs 237, 204A-D Closure Received Water Board Concurrence Letter	2227 edays	Sun 1/11/04	Mon 2/15/10	2155
2157	 <b>USTs 140, 221, &amp; 230 Post-Construction Summary Report</b>	<b>87 days</b>	<b>Sun 1/11/04</b>	<b>Tue 5/11/04</b>	
2164	 <b>Site USTs 140, 221, &amp; 230 Closure Received Water Board Concurrence Letter</b>	37 edays	Tue 5/11/04	Thu 6/17/04	2163
2165	 UST 238 (Additional investigation pending Caltrans project completion)	112 days	Mon 6/26/17	Tue 11/28/17	2071

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
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ID	Task Name	Duration	Start	Finish	Predecessors
2166	<b>COMPLIANCE PROGRAM</b>	<b>4689 days</b>	<b>Mon 9/1/03</b>	<b>Wed 8/18/21</b>	
2167	✓ <b>POLYCHLORINATED BIPHENYLS (PCBs)</b>	<b>2053 days</b>	<b>Mon 9/1/03</b>	<b>Wed 7/13/11</b>	
2168	✓ <b>PCB EQUIPMENT</b>	<b>2053 days</b>	<b>Mon 9/1/03</b>	<b>Wed 7/13/11</b>	
2169	✓ Historical Records Review Results	1 day	Tue 9/2/03	Tue 9/2/03	
2170	✓ <b>Site Survey</b>	<b>31 days</b>	<b>Mon 9/1/03</b>	<b>Tue 10/14/03</b>	
2176	✓ <b>PCB Sampling and Analysis Plan (FOST Area)</b>	<b>109 days</b>	<b>Fri 12/5/03</b>	<b>Thu 5/6/04</b>	
2185	✓ <b>PCB Sampling (FOST Area)</b>	<b>79 days</b>	<b>Fri 4/30/04</b>	<b>Tue 8/17/04</b>	
2194	✓ <b>PCB Summary Report (FOST and FOSET Areas)</b>	<b>967 days</b>	<b>Mon 5/24/04</b>	<b>Fri 2/1/08</b>	
2212	✓ <b>PCB Sampling and Analysis Plan (FOSET Area)</b>	<b>100 days</b>	<b>Thu 12/29/05</b>	<b>Tue 5/16/06</b>	
2221	✓ <b>PCB Sampling (FOSET Area)</b>	<b>53 days</b>	<b>Tue 5/16/06</b>	<b>Sun 7/30/06</b>	
2230	✓ <b>PCB Work Plan</b>	<b>252 days</b>	<b>Tue 12/19/06</b>	<b>Wed 12/5/07</b>	
2239	✓ <b>PCB Field Work</b>	<b>109 days</b>	<b>Mon 12/17/07</b>	<b>Sun 5/18/08</b>	
2242	✓ <b>PCB Field Activity Report (FAR)</b>	<b>175 days</b>	<b>Sat 7/5/08</b>	<b>Mon 3/9/09</b>	
2250	✓ <b>PCB Soil Abatement T111/Site 32 Work Plan</b>	<b>223 days</b>	<b>Fri 8/8/08</b>	<b>Wed 6/17/09</b>	
2259	✓ <b>PCB Soil Abatement T111/Site 32 Field Work</b>	<b>284 edays</b>	<b>Wed 6/17/09</b>	<b>Sun 3/28/10</b>	2258
2260	✓ <b>T111/Site 32 Post Construction Summary Report (PCSR) for Soil Removal</b>	<b>316 days</b>	<b>Tue 4/27/10</b>	<b>Wed 7/13/11</b>	

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
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ID	Task Name	Duration	Start	Finish	Predecessors
2268	<b>RESIDENTIAL LEAD-BASED PAINT (LBP)</b>	<b>4282 days</b>	<b>Tue 11/18/03</b>	<b>Tue 4/14/20</b>	
2269	YBI Residential Lead-Based Paint Reevaluation (2004)	134 days	Wed 3/24/04	Mon 9/27/04	
2278	YBI Lead-Based Paint in Soil (2005)	400 days	Tue 11/18/03	Mon 5/30/05	
2299	YBI Residences Lead-Based Paint Reevaluation (2006)	262 days	Tue 11/1/05	Wed 11/1/06	
2309	TI Residences Lead-Based Paint Reevaluation (2008/2009)	685 days	Thu 7/24/08	Wed 3/9/11	
2317	YBI Residences Lead-Based Paint Reevaluation (within one year of transfer)	168 days	Mon 5/19/14	Wed 1/7/15	
2318	Navy to Award Contract for LBP Reevaluation	40 days	Mon 5/19/14	Fri 7/11/14	2316FS+1165 edays
2319	Fieldwork for LBP Reevaluation	20 days	Mon 7/14/14	Fri 8/8/14	2318
2320	Lab Analysis and Data Evaluation of LBP Reevaluation Data	40 days	Mon 8/11/14	Fri 10/3/14	2319
2321	Internal Draft LBP Reevaluation Summary Report	20 days	Mon 10/6/14	Fri 10/31/14	2320
2322	Navy Review Internal Draft LBP Reevaluation Summary Report	10 days	Mon 11/3/14	Fri 11/14/14	2321
2323	Internal Final LBP Reevaluation Summary Report	10 days	Mon 11/17/14	Fri 11/28/14	2322
2324	Navy Review of Internal Final LBP Reevaluation Summary Report	5 days	Mon 12/1/14	Fri 12/5/14	2323
2325	Final LBP Reevaluation Summary Report	23 days	Mon 12/8/14	Wed 1/7/15	2324
2326	<b>TI Residences Lead-Based Paint Reevaluation (within one year of transfer)</b>	<b>253 days</b>	<b>Fri 4/26/19</b>	<b>Tue 4/14/20</b>	
2327	Navy to Award Contract for LBP Reevaluation	40 days	Fri 4/26/19	Thu 6/20/19	
2328	Final LBP Reevaluation Work plan	72 days	Fri 6/21/19	Mon 9/30/19	2327
2329	Fieldwork for LBP Reevaluation	20 days	Tue 10/1/19	Mon 10/28/19	2328
2330	Lab Analysis and Data Evaluation of LBP Reevaluation Data	40 days	Tue 10/29/19	Mon 12/23/19	2329
2331	Internal Draft LBP Reevaluation Summary Report	33 days	Tue 12/24/19	Thu 2/6/20	2330
2332	Navy Review Internal Draft LBP Reevaluation Summary Report	10 days	Fri 2/7/20	Thu 2/20/20	2331
2333	Internal Final LBP Reevaluation Summary Report	10 days	Fri 2/21/20	Thu 3/5/20	2332
2334	Navy Review of Internal Final LBP Reevaluation Summary Report	5 days	Fri 3/6/20	Thu 3/12/20	2333
2335	Final LBP Reevaluation Summary Report	23 days	Fri 3/13/20	Tue 4/14/20	2334

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
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ID	Task Name	Duration	Start	Finish	Predecessors
2336	<b>RADIOLOGICAL PROGRAM</b>	<b>4526 days</b>	<b>Sat 4/17/04</b>	<b>Wed 8/18/21</b>	
2337	<b>BUILDING 233 AND VICINITY</b>	<b>2724 days</b>	<b>Sat 4/17/04</b>	<b>Mon 9/22/14</b>	
2338	✓ <b>Building 233 Asbestos Abatement and RAD Removal</b>	<b>731 days</b>	<b>Sat 4/17/04</b>	<b>Wed 1/31/07</b>	
2361	✓ <b>Final Status Survey of Building 233</b>	<b>823 days</b>	<b>Sun 7/18/04</b>	<b>Mon 9/10/07</b>	
2378	✓ <b>Building 233 Demolition Work Plan</b>	<b>138 days</b>	<b>Tue 1/12/10</b>	<b>Fri 7/23/10</b>	
2382	✓ Building 233 Pre-Demolition Survey	104 edays	Fri 7/23/10	Thu 11/4/10	2381
2383	✓ Building 233 Demolition	31 edays	Mon 12/6/10	Thu 1/6/11	2382FS+14 edays
2384	✓ <b>Building 233 Footprint Characterization, Remediation, and Final Status Survey Work Plan</b>	<b>410 days</b>	<b>Tue 6/29/10</b>	<b>Mon 1/23/12</b>	
2395	<b>Building 233 Field Work</b>	<b>569 days</b>	<b>Tue 2/7/12</b>	<b>Fri 4/11/14</b>	2394FS+14 edays
2396	<b>Building 233 Characterization and Final Status Survey Plan</b>	<b>125 days</b>	<b>Mon 7/1/13</b>	<b>Mon 12/23/13</b>	
2397	✓ Prepare Internal Draft Building 233 Characterization and FSS Plan	60 edays	Mon 7/1/13	Fri 8/30/13	
2398	✓ Navy Review Internal Draft Building 233 Characterization and FSS Plan	28 edays	Fri 8/30/13	Fri 9/27/13	2397
2399	✓ Prepare Draft Building 233 Characterization and FSS Plan	25 edays	Fri 9/27/13	Tue 10/22/13	2398
2400	📅 Agency Review Draft Building 233 Characterization and FSS Plan	41 days	Wed 10/23/13	Wed 12/18/13	2399
2401	Prepare Preliminary RTCs on Draft Building 233 Characterization and FSS Plan	2 days	Thu 12/19/13	Fri 12/20/13	2400
2402	Prepare Internal Final Building 233 Characterization and FSS Plan	2 days	Thu 12/19/13	Fri 12/20/13	2400
2403	Navy Review Internal Final Building 233 Characterization and FSS Plan	2 days	Thu 12/19/13	Fri 12/20/13	2400
2404	📅 Submit Final Building 233 Characterization and FSS Plan	1 day	Mon 12/23/13	Mon 12/23/13	2403
2405	<b>Building 233 Final Status Survey Field Work</b>	<b>60 days</b>	<b>Fri 1/3/14</b>	<b>Thu 3/27/14</b>	2404FS+8 days
2406	📅 <b>Building 233 Final Status Survey Report</b>	<b>127 days</b>	<b>Fri 3/28/14</b>	<b>Mon 9/22/14</b>	
2407	📅 Prepare Internal Draft Building 233 Final Status Survey Report	30 days	Fri 3/28/14	Thu 5/8/14	2405
2408	Navy Review Internal Draft Building 233 Final Status Survey Report	20 days	Fri 5/9/14	Thu 6/5/14	2407
2409	Prepare Draft Building 233 Final Status Survey Report	20 days	Fri 6/6/14	Thu 7/3/14	2408
2410	Agency Review Draft Building 233 Final Status Survey Report	20 days	Fri 7/4/14	Thu 7/31/14	2409
2411	Prepare Preliminary Responses to Agency Comments on Draft Building 233 Final Status Survey Report	10 days	Fri 8/1/14	Thu 8/14/14	2410
2412	Prepare Internal Final Building 233 Final Status Survey Report	10 days	Fri 8/15/14	Thu 8/28/14	2411
2413	Navy Review Internal Final Building 233 Final Status Survey Report	7 days	Fri 8/29/14	Mon 9/8/14	2412
2414	📅 Submit Final Building 233 Final Status Survey Report	10 days	Tue 9/9/14	Mon 9/22/14	2413
2415	📅 <b>Building 233 Site Completion</b>	0 edays	Mon 9/22/14	Mon 9/22/14	2414
2416	✓ <b>HISTORICAL RADIOLOGICAL ASSESSMENT (HRA)</b>	<b>423 days</b>	<b>Sat 7/3/04</b>	<b>Fri 2/10/06</b>	
2429	✓ <b>Further Radiological Investigation Areas (Site 12 SWDAs; Bldg 343, Bldg 344; and Sanitary Sewer and Drainage System at Bldg 233)</b>	<b>219 days</b>	<b>Mon 10/16/06</b>	<b>Fri 8/17/07</b>	
2439	✓ <b>Further Radiological Investigation Field Activities for Buildings 233, 343, 344</b>	<b>423 edays</b>	<b>Tue 9/4/07</b>	<b>Fri 10/31/08</b>	
2440	✓ <b>Summary Report of Further Radiological Investigation for Buildings 233, 343, 344</b>	<b>287 days</b>	<b>Thu 9/27/07</b>	<b>Fri 10/31/08</b>	
2465	<b>HISTORICAL RADIOLOGICAL ASSESSMENT SUPPLEMENTAL TECHNICAL MEMORANDUM (HRASTM) FOR TI</b>	<b>561 days</b>	<b>Fri 2/24/12</b>	<b>Fri 4/18/14</b>	
2466	✓ Prepare Internal Draft TI HRA Tech Memo	96.38 edays	Fri 2/24/12	Wed 5/30/12	
2467	✓ Navy Review Internal Draft TI HRA Tech Memo	30 edays	Wed 5/30/12	Fri 6/29/12	2466
2468	✓ Prepare Draft TI HRA Tech Memo	38 edays	Fri 6/29/12	Mon 8/6/12	2467
2469	✓ Agency Review Draft TI HRA Tech Memo	60 edays	Mon 8/6/12	Fri 10/5/12	2468

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
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ID	Task Name	Duration	Start	Finish	Predecessors
2470	Prepare RTCs on Draft TI HRA Tech Memo	105 edays	Fri 10/5/12	Fri 1/18/13	2469
2471	Prepare Redline Internal Final TI HRA Tech Memo for Navy Review	21 days	Fri 12/20/13	Fri 1/17/14	
2472	Navy Review Internal Final TI HRA Tech Memo	20 days	Mon 1/20/14	Fri 2/14/14	2471
2473	Meeting with BCT regarding HRASTM Redline Version	1 day	Wed 2/19/14	Wed 2/19/14	
2474	Prepare Redline Strikeout of HRA Tech Memo for Agency Review	7 days	Thu 2/20/14	Fri 2/28/14	2473
2475	Agency Review Redline Strikeout and RTCs	20 days	Mon 3/3/14	Fri 3/28/14	2474
2476	Resolve final comments on HRASTM Redline Strikeout and RTCs	5 days	Mon 3/31/14	Fri 4/4/14	2475
2477	Submit Final TI HRA Tech Memo	10 days	Mon 4/7/14	Fri 4/18/14	2476
2478	<b>BASEWIDE RADIOLOGICAL SURVEYS AND REPORT (Includes Site 32, Site 12, Building 3, misc. utilities) - PART I</b>	<b>565 days</b>	<b>Sat 6/30/12</b>	<b>Fri 8/29/14</b>	
2479	<b>Basewide Radiological Survey Work Plan - Part I</b>	<b>305 days</b>	<b>Sat 6/30/12</b>	<b>Sat 8/31/13</b>	
2490	<b>Basewide Radiological Surveys Field Work - Part I</b>	<b>107 days</b>	<b>Mon 9/2/13</b>	<b>Tue 1/28/14</b>	2479
2491	<b>Basewide Radiological Surveys Report - Part I</b>	<b>153 days</b>	<b>Wed 1/29/14</b>	<b>Fri 8/29/14</b>	
2492	Prepare Internal Draft Radiological Survey Report/FSS Report	30 days	Wed 1/29/14	Tue 3/11/14	2490
2493	Navy Review Internal Draft Radiological Survey Report/FSS Report	40 days	Wed 3/12/14	Tue 5/6/14	2492
2494	Prepare Draft Radiological Survey Report/FSS Report	18 days	Wed 5/7/14	Fri 5/30/14	2493
2495	Agency Review Draft Radiological Survey Report/FSS Report	20 days	Mon 6/2/14	Fri 6/27/14	2494
2496	Prepare Preliminary RTCs on Draft Radiological Survey Report/FSS Report	20 days	Mon 6/30/14	Fri 7/25/14	2495
2497	Prepare Internal Final Radiological Survey Report/FSS Report	10 days	Mon 7/28/14	Fri 8/8/14	2496
2498	Navy Review Internal Final Radiological Survey Report/FSS Report	10 days	Mon 8/11/14	Fri 8/22/14	2497
2499	Submit Final Radiological Survey Report/FSS Report	5 days	Mon 8/25/14	Fri 8/29/14	2498
2500	<b>BASEWIDE RADIOLOGICAL SCOPING SURVEY AND REPORT (includes Site 30, Lot 69, Building 342, Building 461, sewage treatment plant, and msc. sewer lines) - PART II</b>	<b>505 days</b>	<b>Fri 6/28/13</b>	<b>Fri 6/5/15</b>	
2501	Navy to award contract for Radiological Survey Part II	75 edays	Fri 6/28/13	Wed 9/11/13	
2502	<b>Radiological Survey Work Plan Project - Part II</b>	<b>155 days</b>	<b>Wed 11/27/13</b>	<b>Tue 7/1/14</b>	<b>2501</b>
2503	Prepare Internal Draft Radiological Survey Work Plan	30 days	Wed 11/27/13	Tue 1/7/14	2501
2504	Navy Review Internal Draft Radiological Survey Work Plan	40 days	Wed 1/8/14	Tue 3/4/14	2503
2505	Prepare Draft Radiological Survey Work Plan	20 days	Wed 3/5/14	Tue 4/1/14	2504
2506	Agency Review Draft Radiological Survey Work Plan	20 days	Wed 4/2/14	Tue 4/29/14	2505
2507	Prepare RTCs on Draft Radiological Survey Work Plan	20 days	Wed 4/30/14	Tue 5/27/14	2506
2508	Prepare Internal Final Radiological Survey Work Plan	10 days	Wed 5/28/14	Tue 6/10/14	2507
2509	Navy Review Internal Final Radiological Survey Work Plan	10 days	Wed 6/11/14	Tue 6/24/14	2508
2510	Submit Final Radiological Survey Work Plan	5 days	Wed 6/25/14	Tue 7/1/14	2509
2511	<b>Basewide Radiological Surveys Field Work - Part II</b>	<b>60 days</b>	<b>Wed 7/2/14</b>	<b>Tue 9/23/14</b>	2510
2512	<b>Radiological Survey Report / Final Status Survey (FSS) Report - Part II</b>	<b>183 days</b>	<b>Wed 9/24/14</b>	<b>Fri 6/5/15</b>	
2513	Prepare Internal Draft Radiological Survey Report/FSS Report	60 days	Wed 9/24/14	Tue 12/16/14	2511
2514	Navy Review Internal Draft Radiological Survey Report/FSS Report	40 days	Wed 12/17/14	Tue 2/10/15	2513
2515	Prepare Draft Radiological Survey Report/FSS Report	18 days	Wed 2/11/15	Fri 3/6/15	2514
2516	Agency Review Draft Radiological Survey Report/FSS Report	20 days	Mon 3/9/15	Fri 4/3/15	2515

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
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ID	Task Name	Duration	Start	Finish	Predecessors
2517	Prepare Preliminary RTCs on Draft Radiological Survey Report/FSS Report	20 days	Mon 4/6/15	Fri 5/1/15	2516
2518	Prepare Internal Final Radiological Survey Report/FSS Report	10 days	Mon 5/4/15	Fri 5/15/15	2517
2519	Navy Review Internal Final Radiological Survey Report/FSS Report	10 days	Mon 5/18/15	Fri 5/29/15	2518
2520	Submit Final Radiological Survey Report/FSS Report	5 days	Mon 6/1/15	Fri 6/5/15	2519
2521	<b>RADIOLOGICAL SCOPING SURVEY FOR BUILDING 570</b>	<b>300 days</b>	<b>Thu 6/25/20</b>	<b>Wed 8/18/21</b>	
2522	Navy to award contract for Radiological Scoping Survey for Building 570	40 days	Thu 6/25/20	Wed 8/19/20	895
2523	<b>Radiological Scoping Survey - Task Specific Work Plan for Building 570</b>	<b>90 edays</b>	<b>Wed 8/19/20</b>	<b>Tue 11/17/20</b>	<b>2522</b>
2524	<b>Radiological Scoping Survey Field Work for Building 570</b>	<b>45 edays</b>	<b>Tue 11/17/20</b>	<b>Fri 1/1/21</b>	<b>2523</b>
2525	<b>Radiological Scoping Survey Report / Final Status Survey (FSS) Report for Building 570</b>	<b>163 days</b>	<b>Fri 1/1/21</b>	<b>Wed 8/18/21</b>	
2526	Prepare Internal Draft Radiological Scoping Survey Report/FSS Report	90 edays	Fri 1/1/21	Thu 4/1/21	2524
2527	Navy Review Internal Draft Radiological Scoping Survey Report/FSS Report	20 days	Fri 4/2/21	Thu 4/29/21	2526
2528	Prepare Draft Radiological Scoping Survey Report/FSS Report	10 days	Fri 4/30/21	Thu 5/13/21	2527
2529	Agency Review Draft Radiological Scoping Survey Report/FSS Report	20 days	Fri 5/14/21	Thu 6/10/21	2528
2530	Prepare Preliminary RTCs on Draft Radiological Scoping Survey Report/FSS Report	22 days	Fri 6/11/21	Mon 7/12/21	2529
2531	Prepare Internal Final Radiological Scoping Survey Report/FSS Report	10 days	Tue 7/13/21	Mon 7/26/21	2530
2532	Navy Review Internal Final Radiological Scoping Survey Report/FSS Report	7 days	Tue 7/27/21	Wed 8/4/21	2531
2533	Submit Final Radiological Scoping Survey Report/FSS Report	10 days	Thu 8/5/21	Wed 8/18/21	2532

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
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ID	Task Name	Duration	Start	Finish	Predecessors
2534	<b>ASBESTOS-CONTAINING MATERIAL PROGRAM</b>	<b>1659 days</b>	<b>Thu 7/24/08</b>	<b>Tue 12/2/14</b>	
2535	<b>Basewide Asbestos Survey and Abatement (2009)</b>	<b>685 days</b>	<b>Thu 7/24/08</b>	<b>Wed 3/9/11</b>	
2543	<b>Basewide Asbestos Survey and Abatement</b>	<b>235 days</b>	<b>Wed 1/8/14</b>	<b>Tue 12/2/14</b>	
2544	Navy to Award Contract for Basewide Asbestos Survey and Abatement	40 days	Wed 1/8/14	Tue 3/4/14	
2545	Final Basewide Asbestos Survey and Abatement Work plan	60 days	Wed 3/5/14	Tue 5/27/14	2544
2546	Fieldwork for Basewide Asbestos Survey and Abatement	20 days	Wed 5/28/14	Tue 6/24/14	2545
2547	Lab Analysis and Data Evaluation of Basewide Asbestos Survey and Abatement Data	40 days	Wed 6/25/14	Tue 8/19/14	2546
2548	Internal Draft Basewide Asbestos Survey and Abatement Summary Report	30 days	Wed 8/20/14	Tue 9/30/14	2547
2549	Navy review Internal Draft Basewide Asbestos Survey and Abatement Summary Report	10 days	Wed 10/1/14	Tue 10/14/14	2548
2550	Internal Final Basewide Asbestos Survey and Abatement Summary Report	10 days	Wed 10/15/14	Tue 10/28/14	2549
2551	Navy review of Internal Final Basewide Asbestos Survey and Abatement Summary Report	5 days	Wed 10/29/14	Tue 11/4/14	2550
2552	Submit Final Basewide Asbestos Survey and Abatement Summary Report	20 days	Wed 11/5/14	Tue 12/2/14	2551

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**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
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ID	Task Name	Duration	Start	Finish	Predecessors
2553	<b>BASEWIDE TASKS</b>	<b>12037 days</b>	<b>Mon 9/1/03</b>	<b>Mon 10/18/49</b>	
2554	<b>GROUNDWATER MONITORING PROGRAM</b>	<b>3360 days</b>	<b>Thu 1/11/07</b>	<b>Wed 11/27/19</b>	
2555	2006 Groundwater Status Report Site 12	269 days	Thu 1/11/07	Wed 1/23/08	
2563	2006 Groundwater Status Report Sites 6A and 25	313 days	Sun 2/11/07	Thu 4/24/08	
2571	2007 Groundwater Status Report Site 12	206 days	Mon 3/24/08	Tue 1/6/09	
2579	2007 Groundwater Status Report Sites 6 and 25	207 days	Mon 3/24/08	Wed 1/7/09	
2587	2008 Basewide Groundwater Monitoring Program Sampling and Analysis Plan (SAP)	150 days	Sat 6/14/08	Mon 1/12/09	
2596	2008 Groundwater Status Report Sites 6 and 12	248 days	Thu 3/19/09	Tue 3/2/10	
2604	2009 Annual Groundwater Status Report Sites 6 and 12	209 days	Mon 1/4/10	Thu 10/21/10	
2612	2010 Sites 6 and 12 Quarterly Groundwater Monitoring	418 days	Sat 1/23/10	Wed 8/31/11	
2626	2011 Sites 6 and 12 Groundwater Monitoring	514 days	Fri 10/1/10	Wed 9/19/12	
2641	2011 Sites 21, 24, and 32 Quarterly Groundwater Monitoring	490 days	Tue 9/14/10	Mon 7/30/12	
2663	2012 Sites 6 and 12 Groundwater Monitoring	378 days	Thu 2/23/12	Mon 8/5/13	
2677	2012 Sites 21 and 24 Quarterly Groundwater Monitoring	594 days	Sun 10/16/11	Thu 1/23/14	
2678	Quarterly Groundwater Monitoring Work Plan for Sites 21 and 24	170 days	Sun 10/16/11	Fri 6/8/12	
2686	2012 Quarterly Groundwater Monitoring for Sites 21 and 24	187 days	Fri 6/22/12	Tue 3/12/13	
2691	2012 Annual Groundwater Monitoring Report for Sites 21 and 24	183 days	Mon 5/13/13	Thu 1/23/14	
2692	Prepare Internal Draft Annual Groundwater Monitoring Report for Sites 21 and 24	93 edays	Mon 5/13/13	Wed 8/14/13	2690FS+62 edays
2693	Navy Review Internal Draft Annual Groundwater Monitoring Report for Sites 21 and 24	9 edays	Wed 8/14/13	Fri 8/23/13	2692
2694	Prepare Draft Annual Groundwater Monitoring Report for Sites 21 and 24	38 edays	Fri 8/23/13	Mon 9/30/13	2693
2695	BCT Review Draft Annual Groundwater Monitoring Report for Sites 21 and 24	21 days	Mon 9/30/13	Tue 10/29/13	2694
2696	Prepare Internal Final Annual Groundwater Monitoring Report for Sites 21 and 24	53 days	Wed 10/30/13	Fri 1/10/14	2695
2697	Navy Review Internal Final Groundwater Monitoring Report for Sites 21 and 24	5 days	Mon 1/13/14	Fri 1/17/14	2696
2698	Submit Final Annual Groundwater Monitoring Report for Sites 21 and 24	4 days	Mon 1/20/14	Thu 1/23/14	2697
2699	<b>Sites 6, 12, 21, 24 Monitoring Work Plan and Reporting</b>	<b>679 days</b>	<b>Mon 4/8/13</b>	<b>Thu 11/12/15</b>	
2700	<b>Monitoring Work Plan for Sites 6, 12, 21, 24</b>	<b>171 days</b>	<b>Mon 4/8/13</b>	<b>Tue 12/3/13</b>	
2708	<b>Groundwater Monitoring Event</b>	<b>30 edays</b>	<b>Tue 12/3/13</b>	<b>Thu 1/2/14</b>	2707
2709	<b>Groundwater Monitoring Event</b>	<b>30 edays</b>	<b>Mon 3/3/14</b>	<b>Wed 4/2/14</b>	2708FS+60 edays
2710	<b>2013/2014 Annual Monitoring Report for Sites 6, 12, 21, 24</b>	<b>137 days</b>	<b>Fri 5/2/14</b>	<b>Mon 11/10/14</b>	
2711	Prepare Internal Draft Annual Monitoring Report for Sites 6, 12, 21, 24	60 days	Fri 5/2/14	Thu 7/24/14	2709FS+30 edays
2712	Navy Review Internal Draft Annual Monitoring Report for Sites 6, 12, 21, 24	10 days	Fri 7/25/14	Thu 8/7/14	2711
2713	Prepare Draft Annual Monitoring Report for Sites 6, 12, 21, 24	5 days	Fri 8/8/14	Thu 8/14/14	2712
2714	BCT Review Draft Annual Monitoring Report for Sites 6, 12, 21, 24	20 days	Fri 8/15/14	Thu 9/11/14	2713
2715	Respond to BCT Comments and Prepare Internal Final Annual Monitoring Report for Sites 6, 12, 21, 24	22 days	Fri 9/12/14	Mon 10/13/14	2714
2716	Navy Review Internal Final Annual Monitoring Report for Sites 6, 12, 21, 24	10 days	Tue 10/14/14	Mon 10/27/14	2715
2717	Submit Final Annual Monitoring Report for Sites 6, 12, 21, 24	10 days	Tue 10/28/14	Mon 11/10/14	2716
2718	<b>Groundwater Monitoring Event</b>	<b>30 edays</b>	<b>Wed 9/3/14</b>	<b>Fri 10/3/14</b>	
2719	<b>Groundwater Monitoring Event</b>	<b>30 edays</b>	<b>Tue 3/3/15</b>	<b>Thu 4/2/15</b>	

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
2720	<b>2014/2015 Annual Monitoring Report for Sites 6, 12, 21, 24</b>	<b>139 days</b>	<b>Mon 5/4/15</b>	<b>Thu 11/12/15</b>	
2721	Prepare Internal Draft Annual Monitoring Report for Sites 6, 12, 21, 24	60 days	Mon 5/4/15	Fri 7/24/15	2719FS+30 edays
2722	Navy Review Internal Draft Annual Monitoring Report for Sites 6, 12, 21, 24	10 days	Mon 7/27/15	Fri 8/7/15	2721
2723	Prepare Draft Annual Monitoring Report for Sites 6, 12, 21, 24	7 days	Mon 8/10/15	Tue 8/18/15	2722
2724	BCT Review Draft Annual Monitoring Report for Sites 6, 12, 21, 24	20 days	Wed 8/19/15	Tue 9/15/15	2723
2725	Respond to BCT Comments and Prepare Internal Final Annual Monitoring Report for Sites 6, 12, 21, 24	22 days	Wed 9/16/15	Thu 10/15/15	2724
2726	Navy Review Internal Final Annual Monitoring Report for Sites 6, 12, 21, 24	10 days	Fri 10/16/15	Thu 10/29/15	2725
2727	Submit Final Annual Monitoring Report for Sites 6, 12, 21, 24	10 days	Fri 10/30/15	Thu 11/12/15	2726
2728	<b>2015/2016 ANNUAL BASEWIDE GROUNDWATER MONITORING</b>	<b>438 days</b>	<b>Mon 1/12/15</b>	<b>Wed 9/14/16</b>	
2740	<b>2016/2017 ANNUAL BASEWIDE GROUNDWATER MONITORING</b>	<b>439 days</b>	<b>Mon 1/11/16</b>	<b>Thu 9/14/17</b>	
2752	<b>2017/2018 ANNUAL BASEWIDE GROUNDWATER MONITORING</b>	<b>435 days</b>	<b>Mon 1/16/17</b>	<b>Fri 9/14/18</b>	
2764	<b>2018/2019 ANNUAL BASEWIDE GROUNDWATER MONITORING</b>	<b>490 days</b>	<b>Thu 1/11/18</b>	<b>Wed 11/27/19</b>	
2776	<b>BASEWIDE FIVE-YEAR REVIEWS</b>	<b>9296 days</b>	<b>Mon 3/3/14</b>	<b>Mon 10/18/49</b>	
2777	<b>BASEWIDE 2014 FIVE-YEAR REVIEW</b>	<b>160 days</b>	<b>Mon 3/3/14</b>	<b>Fri 10/10/14</b>	
2778	Navy award contract for Basewide Five Year Review	40 days	Mon 3/3/14	Fri 4/25/14	
2779	Prepare Draft Five Year Review	20 days	Mon 4/28/14	Fri 5/23/14	2778
2780	Navy Review Draft Five Year Review	10 days	Mon 5/26/14	Fri 6/6/14	2779
2781	Prepare Draft Five Year Review	5 days	Mon 6/9/14	Fri 6/13/14	2780
2782	Agency Review Draft Five Year Review	20 days	Mon 6/16/14	Fri 7/11/14	2781
2783	Prepare Responses to Agency Comments and Final Five Year Review	22 days	Mon 7/14/14	Tue 8/12/14	2782
2784	Internal Final Five Year Review	23 days	Wed 8/13/14	Fri 9/12/14	2783
2785	Navy Review of Internal Final Five Year Review	10 days	Mon 9/15/14	Fri 9/26/14	2784
2786	Finalize Five Year Review	10 days	Mon 9/29/14	Fri 10/10/14	2785
2787	<b>BASEWIDE 2019 FIVE-YEAR REVIEW</b>	<b>160 days</b>	<b>Mon 3/4/19</b>	<b>Fri 10/11/19</b>	
2797	<b>BASEWIDE 2024 FIVE-YEAR REVIEW</b>	<b>160 days</b>	<b>Mon 3/4/24</b>	<b>Fri 10/11/24</b>	
2807	<b>BASEWIDE 2029 FIVE-YEAR REVIEW</b>	<b>160 days</b>	<b>Mon 3/5/29</b>	<b>Fri 10/12/29</b>	
2808	Navy award contract for Basewide Five Year Review	40 days	Mon 3/5/29	Fri 4/27/29	
2809	Prepare Draft Five Year Review	20 days	Mon 4/30/29	Fri 5/25/29	2808
2810	Navy Review Draft Five Year Review	10 days	Mon 5/28/29	Fri 6/8/29	2809
2811	Prepare Draft Five Year Review	5 days	Mon 6/11/29	Fri 6/15/29	2810
2812	Agency Review Draft Five Year Review	20 days	Mon 6/18/29	Fri 7/13/29	2811
2813	Prepare Responses to Agency Comments and Final Five Year Review	22 days	Mon 7/16/29	Tue 8/14/29	2812
2814	Internal Final Five Year Review	23 days	Wed 8/15/29	Fri 9/14/29	2813
2815	Navy Review of Internal Final Five Year Review	10 days	Mon 9/17/29	Fri 9/28/29	2814
2816	Finalize Five Year Review	10 days	Mon 10/1/29	Fri 10/12/29	2815
2817	<b>BASEWIDE 2034 FIVE-YEAR REVIEW</b>	<b>160 days</b>	<b>Fri 3/3/34</b>	<b>Thu 10/12/34</b>	
2827	<b>BASEWIDE 2039 FIVE-YEAR REVIEW</b>	<b>160 days</b>	<b>Thu 3/3/39</b>	<b>Wed 10/12/39</b>	
2837	<b>BASEWIDE 2044 FIVE-YEAR REVIEW</b>	<b>160 days</b>	<b>Thu 3/3/44</b>	<b>Wed 10/12/44</b>	
2847	<b>BASEWIDE 2049 FIVE-YEAR REVIEW</b>	<b>164 days</b>	<b>Wed 3/3/49</b>	<b>Mon 10/18/49</b>	
2857	<b>BASEWIDE LANDUSE CONTROL INSPECTIONS</b>	<b>2415 days</b>	<b>Fri 3/4/11</b>	<b>Thu 6/4/20</b>	
2858	2011 Basewide LUC Inspections	74 days	Fri 3/4/11	Wed 6/15/11	
2859	2012 Basewide LUC Inspections	90 days	Wed 1/25/12	Tue 5/29/12	
2860	2013 Basewide LUC Inspections	83 days	Mon 1/14/13	Wed 5/8/13	
2861	2014 Basewide LUC Inspections	102 days	Tue 1/14/14	Wed 6/4/14	
2862	2015 Basewide LUC Inspections	102 days	Tue 1/13/15	Wed 6/3/15	
2863	2016 Basewide LUC Inspections	102 days	Mon 1/11/16	Tue 5/31/16	
2864	2017 Basewide LUC Inspections	102 days	Mon 1/9/17	Tue 5/30/17	

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
2865	2018 Basewide LUC Inspections	102 days	Mon 1/8/18	Tue 5/29/18	
2866	2019 Basewide LUC Inspections	102 days	Tue 1/15/19	Wed 6/5/19	
2867	2020 Basewide LUC Inspections	102 days	Wed 1/15/20	Thu 6/4/20	

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
2868	<b>REGULATORY INTERACTION SUPPORT</b>	<b>2257 days</b>	<b>Sun 4/8/07</b>	<b>Wed 12/2/15</b>	
2869	<b>SITE MANAGEMENT PLAN (ANNUAL UPDATES)</b>	<b>2173 days</b>	<b>Sun 4/8/07</b>	<b>Wed 8/5/15</b>	
2870	✓ Site Management Plan (2007 Annual Update)	184 days	Sun 4/8/07	Fri 12/21/07	
2881	✓ Site Management Plan (2008 Annual Update)	147 days	Tue 5/6/08	Thu 11/27/08	
2892	✓ Site Management Plan (2009 Annual Update)	365 days	Tue 5/6/08	Tue 9/29/09	
2902	✓ Site Management Plan (2010 Annual Update)	194 days	Tue 2/2/10	Fri 10/29/10	
2911	✓ Site Management Plan (2011 Annual Update)	222 days	Sun 2/20/11	Wed 12/28/11	
2920	✓ Site Management Plan (2012 Annual Update)	146 days	Mon 2/20/12	Tue 9/11/12	
2929	✓ Site Management Plan (2013 Annual Update)	218 days	Wed 2/20/13	Fri 12/20/13	
2930	✓ Prepare Internal Draft Site Management Plan	35 edays	Wed 2/20/13	Wed 3/27/13	
2931	✓ Navy Review Internal Draft Site Management Plan	40 edays	Wed 3/27/13	Mon 5/6/13	2930
2932	✓ Incorporate Navy Review Comments for Draft Site Management Plan	81 edays	Mon 5/6/13	Fri 7/26/13	2931
2933	✓ BCT Review Draft Site Management Plan	43 edays	Mon 8/5/13	Tue 9/17/13	2932
2934	✓ Prepare Preliminary RTCs on Draft Site Management Plan	2 edays	Tue 9/17/13	Thu 9/19/13	2933
2935	✓ Prepare Internal Final Site Management Plan	21 edays	Thu 9/19/13	Thu 10/10/13	2934
2936	✓ Navy Review Internal Final Site Management Plan	49 edays	Fri 10/25/13	Fri 12/13/13	2935
2937	✓ Submit Final Site Management Plan	7 edays	Fri 12/13/13	Fri 12/20/13	2936
2938	<b>Site Management Plan (2014 Annual Update)</b>	<b>117 days</b>	<b>Thu 2/20/14</b>	<b>Fri 8/1/14</b>	
2939	☒ Prepare Internal Draft Site Management Plan	20 days	Thu 2/20/14	Wed 3/19/14	
2940	Navy Review Internal Draft Site Management Plan	10 days	Thu 3/20/14	Wed 4/2/14	2939
2941	Incorporate Navy Review Comments for Draft Site Management Plan	5 days	Thu 4/3/14	Wed 4/9/14	2940
2942	BCT Review Draft Site Management Plan	20 days	Thu 4/10/14	Wed 5/7/14	2941
2943	Prepare Preliminary RTCs on Draft Site Management Plan	22 days	Thu 5/8/14	Fri 6/6/14	2942
2944	Prepare Internal Final Site Management Plan	20 days	Mon 6/9/14	Fri 7/4/14	2943
2945	Navy Review Internal Final Site Management Plan	10 days	Mon 7/7/14	Fri 7/18/14	2944
2946	Submit Final Site Management Plan	10 days	Mon 7/21/14	Fri 8/1/14	2945
2947	<b>Site Management Plan (2015 Annual Update)</b>	<b>117 days</b>	<b>Tue 2/24/15</b>	<b>Wed 8/5/15</b>	
2956	<b>BCT MEETINGS/MINUTES</b>	<b>2061 days</b>	<b>Tue 1/8/08</b>	<b>Wed 12/2/15</b>	
2957	✓ BCT Meetings 2008	237 days	Tue 1/8/08	Wed 12/3/08	
2970	✓ BCT Meetings 2009	235 days	Wed 1/7/09	Wed 12/2/09	
2983	✓ BCT Meetings 2010	235 days	Wed 1/6/10	Wed 12/1/10	
2996	✓ BCT Meetings 2011	240 days	Wed 1/5/11	Wed 12/7/11	
3009	✓ BCT Meetings 2012	240 days	Wed 1/4/12	Wed 12/5/12	
3022	✓ BCT Meetings 2013	245 days	Wed 1/2/13	Wed 12/11/13	
3035	BCT Meetings 2014	240 days	Wed 1/15/14	Wed 12/17/14	
3048	BCT Meetings 2015	235 days	Wed 1/7/15	Wed 12/2/15	
3061	<b>COMMUNITY RELATIONS PROGRAM</b>	<b>2258 days</b>	<b>Thu 4/19/07</b>	<b>Tue 12/15/15</b>	
3062	✓ <b>COMMUNITY RELATIONS PLAN (2007/2008)</b>	<b>221 days</b>	<b>Thu 7/26/07</b>	<b>Fri 5/30/08</b>	
3073	<b>COMMUNITY RELATIONS PLAN UPDATE (2013)</b>	<b>207 days</b>	<b>Mon 5/13/13</b>	<b>Tue 2/25/14</b>	
3074	☒ Schedule and Conduct Community Interviews	79 edays	Mon 5/13/13	Wed 7/31/13	
3075	✓ Internal Draft CRP	44 edays	Sat 7/27/13	Mon 9/9/13	3074FS-4 edays
3076	✓ Navy Review of Internal Draft CRP	8 edays	Mon 9/9/13	Tue 9/17/13	3075
3077	✓ Draft CRP	22 edays	Tue 9/17/13	Wed 10/9/13	3076
3078	BCT Review of Draft CRP	53 days	Wed 10/9/13	Fri 12/20/13	3077
3079	Respond to BCT Comments and Prepare Int Final	24 days	Mon 12/23/13	Thu 1/23/14	3078
3080	Navy Review of Internal Final	10 days	Fri 1/24/14	Thu 2/6/14	3079
3081	Submit Final CRP	13 days	Fri 2/7/14	Tue 2/25/14	3080
3082	<b>RAB MEETINGS/MINUTES</b>	<b>1780 days</b>	<b>Tue 2/17/09</b>	<b>Tue 12/15/15</b>	
3083	✓ <b>RAB Meetings/Minutes 2009</b>	<b>216 days</b>	<b>Tue 2/17/09</b>	<b>Tue 12/15/09</b>	
3090	✓ <b>RAB Meetings/Minutes 2010</b>	<b>220 days</b>	<b>Tue 2/16/10</b>	<b>Tue 12/21/10</b>	
3097	✓ <b>RAB Meetings/Minutes 2011</b>	<b>215 days</b>	<b>Tue 2/15/11</b>	<b>Tue 12/13/11</b>	
3104	✓ <b>RAB Meetings/Minutes 2012</b>	<b>210 days</b>	<b>Tue 2/21/12</b>	<b>Tue 12/11/12</b>	
3110	✓ <b>RAB Meetings/Minutes 2013</b>	<b>211 days</b>	<b>Tue 2/19/13</b>	<b>Wed 12/11/13</b>	
3117	<b>RAB Meetings/Minutes 2014</b>	<b>215 days</b>	<b>Tue 2/18/14</b>	<b>Tue 12/16/14</b>	
3118	☒ RAB Meeting #169	0 edays	Tue 2/18/14	Tue 2/18/14	

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

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	 Task Name	Duration	Start	Finish	Predecessors
3119	 RAB Meeting #170	0 edays	Tue 4/15/14	Tue 4/15/14	
3120	 RAB Meeting #171	0 edays	Tue 6/17/14	Tue 6/17/14	
3121	 RAB Meeting #172	0 edays	Tue 8/19/14	Tue 8/19/14	
3122	 RAB Meeting #173	0 edays	Tue 10/21/14	Tue 10/21/14	
3123	 RAB Meeting #174	0 edays	Tue 12/16/14	Tue 12/16/14	
3124	<b>RAB Meetings/Minutes 2015</b>	<b>215 days</b>	<b>Tue 2/17/15</b>	<b>Tue 12/15/15</b>	
3131	 <b>TI TIMES</b>	<b>1379 days</b>	<b>Thu 4/19/07</b>	<b>Tue 7/31/12</b>	
3132	 <b>TI Times #13 Spring/Summer 2007</b>	<b>92 days</b>	<b>Thu 4/19/07</b>	<b>Mon 8/27/07</b>	
3140	 <b>TI Times #14 Summer 2008</b>	<b>135 days</b>	<b>Fri 1/18/08</b>	<b>Fri 7/25/08</b>	
3148	 <b>TI Times #15 Winter 2009</b>	<b>136 days</b>	<b>Sun 11/2/08</b>	<b>Tue 5/12/09</b>	
3156	 <b>TI Times #16 Spring 2010</b>	<b>132 days</b>	<b>Wed 10/21/09</b>	<b>Fri 4/23/10</b>	
3164	 <b>TI Times #17 Summer 2011</b>	<b>263 days</b>	<b>Sat 7/17/10</b>	<b>Wed 7/20/11</b>	
3172	 <b>TI Times #18 Summer 2011</b>	<b>205 days</b>	<b>Tue 10/18/11</b>	<b>Tue 7/31/12</b>	

**TABLE B-2  
NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE  
DECEMBER 20, 2013**

ID	Task Name	Duration	Start	Finish	Predecessors
3180	<b>TRANSFER RELATED</b>	<b>2944 days</b>	<b>Mon 9/1/03</b>	<b>Wed 12/10/14</b>	
3181	✓ <b>SEBS/FOST EXECUTION SCHEDULE</b>	<b>980 days</b>	<b>Mon 9/1/03</b>	<b>Fri 6/1/07</b>	
3325	✓ <b>FINAL SEBS</b>	<b>368 days</b>	<b>Fri 2/27/04</b>	<b>Fri 7/22/05</b>	
3346	✓ <b>TREASURE ISLAND FOST (FOST 1)</b>	<b>527 days</b>	<b>Fri 2/27/04</b>	<b>Thu 3/2/06</b>	
3360	✓ <b>YERBA BUENA ISLAND FOST (FOST 2)</b>	<b>613 days</b>	<b>Tue 11/18/03</b>	<b>Wed 3/22/06</b>	
3405	✓ <b>SITE 27 BOUNDARY CHANGE TECHNICAL MEMORANDUM</b>	<b>99 days</b>	<b>Sat 4/3/10</b>	<b>Fri 8/20/10</b>	
3413	✓ <b>SITE 29 BOUNDARY CHANGE TECHNICAL MEMORANDUM</b>	<b>196 days</b>	<b>Wed 3/24/10</b>	<b>Wed 12/22/10</b>	
3421	✓ <b>SITE 29 ARTIFACTS BOUNDARY CHANGE TECHNICAL MEMORANDUM</b>	<b>70 days</b>	<b>Wed 9/21/11</b>	<b>Wed 12/28/11</b>	
3429	✓ <b>YERBA BUENA ISLAND FOST 3</b>	<b>526 days</b>	<b>Mon 1/11/10</b>	<b>Tue 1/17/12</b>	
3450	<b>FOSTs 1 AND 2 ADDENDUM (CANCELLED)</b>	<b>308 days</b>	<b>Mon 2/14/11</b>	<b>Wed 4/18/12</b>	
3462	<b>FOST 4</b>	<b>125 days</b>	<b>Mon 3/17/14</b>	<b>Fri 9/5/14</b>	
3463	Prepare Internal Draft FOST 4	32 days	Mon 3/17/14	Tue 4/29/14	
3464	Navy Review Internal Draft FOST 4	20 days	Wed 4/30/14	Tue 5/27/14	3463
3465	Prepare Draft FOST 4	10 days	Wed 5/28/14	Tue 6/10/14	3464
3466	Agency Review of Draft FOST 4	20 days	Wed 6/11/14	Tue 7/8/14	3465
3467	Prepare Preliminary RTCs for Draft FOST 4	11 days	Wed 7/9/14	Wed 7/23/14	3466
3468	Prepare Internal Final FOST 4	10 days	Thu 7/24/14	Wed 8/6/14	3467
3469	Navy Review of Internal Final FOST 4	7 days	Thu 8/7/14	Fri 8/15/14	3468
3470	Respond to Review Comments and Submit Final FOST 4	10 days	Mon 8/18/14	Fri 8/29/14	3469
3471	Sign and Distribute Final FOST 4	5 days	Mon 9/1/14	Fri 9/5/14	3470
3472	<b>FOST 5</b>	<b>127 days</b>	<b>Tue 6/17/14</b>	<b>Wed 12/10/14</b>	
3473	Prepare Internal Draft FOST 5	20 days	Tue 6/17/14	Mon 7/14/14	
3474	Navy Review of Internal Draft FOST 5	20 days	Tue 7/15/14	Mon 8/11/14	3473
3475	Prepare Draft FOST 5	10 days	Tue 8/12/14	Mon 8/25/14	3474
3476	Agency Review of Draft FOST 5	20 days	Tue 8/26/14	Mon 9/22/14	3475
3477	Prepare Preliminary RTCs for Draft FOST 5	10 days	Tue 9/23/14	Mon 10/6/14	3476
3478	Incorporate comments from BCT on review of Draft RTCs and prepare Internal Final FOST 5	22 days	Tue 10/7/14	Wed 11/5/14	3477
3479	Navy Review of Internal Final FOST 5	10 days	Thu 11/6/14	Wed 11/19/14	3478
3480	Respond to Navy Review Comments and Submit Final YBI FOST 5	10 days	Thu 11/20/14	Wed 12/3/14	3479
3481	Sign and Distribute Final YBI FOST 5	5 days	Thu 12/4/14	Wed 12/10/14	3480
3482	<b>COVENANT TO RESTRICT USE OF PROPERTY (CRUP)</b>	<b>115 days</b>	<b>Thu 7/3/14</b>	<b>Wed 12/10/14</b>	
3483	<b>CRUP (FOST 4) - Initial TI Conveyance</b>	65 days	Thu 7/3/14	Wed 10/1/14	
3484	<b>CRUP (FOST 5)</b>	66 days	Wed 9/10/14	Wed 12/10/14	

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

**APPENDIX C**  
**RESPONSES TO COMMENTS**

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**RESPONSE TO AGENCY COMMENTS ON  
DRAFT 2013 SITE MANAGEMENT PLAN (SMP),  
NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA**

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This document presents responses to comments from the California Department of Toxic Substances Control (DTSC), Treadwell & Rollo (on behalf of the Treasure Island Development Authority [TIDA]) and Terraphase (on behalf of the Treasure Island Community Development [TICD]), and the Regional Water Quality Control Board (Water Board) on the “Draft 2013 Site Management Plan (SMP), Naval Station Treasure Island (NAVSTA TI), San Francisco, California,” dated August 5, 2013. The U.S. Environmental Protection Agency (EPA) did not provide comments. The comments addressed below were received from DTSC on August 29, 2013, TIDA/TICD on August 30, 2013, and Water Board on September 17, 2013.

**RESPONSES TO DTSC COMMENTS (VIA Ms. REMEDIOS SUNGA)**

**SPECIFIC COMMENTS**

1. **Comment:** **Acronyms and Abbreviations, Page iii: Please add Covenant to Restrict Use of Property (CRUP).**

Response: The acronym will be added to the Final 2013 SMP.

2. **Comment:** **Introduction, Page 1, 3rd Paragraph: The format was changed. The site status is now under a new Table 1 and not on the reverse side of Figure 1.**

Response: The text will be revised to refer to Table 1 instead of the reverse side of Figure 1.

3. **Comment:** **Introduction, Page 2, 4th Paragraph: The site status is now under a new Table 1 and not on the reverse side of Figure 1.**

Response: The text will be revised to refer to Table 1 instead of the reverse side of Figure 1.

4. **Comment:** **Table 1 (Site 10), Page 6: Please add dioxin as COC [contaminant of concern] since dioxin-impacted soil was removed from Site 10 as discussed in Appendix A. Please identify Site 2 in Figure 1.**

Response: The COCs listed in Table 1 were reconciled with the site summary tables in Appendix A in the 2011 Final SMP in response to review comments received by DTSC. At that time, for the purpose of consistency within the SMP and with site-specific documentation, COCs listed in the SMP were defined by risk drivers from the risk assessments documented in the remedial investigation (RI) reports and the Proposed Plans. Dioxins were not a risk driver identified in the RI report for Site 10. However, dioxin was discussed in the 2006 Proposed Plan within the context of the removal of the burnt layer and impacted soils identified during the

Petroleum Site 14/22 removal activities. Mention will be added to the Site 10 summary sheet on page A-10 of the Final 2013 SMP; however, dioxin will not be listed as a COC in Table 1 or the Site 10 Summary Table on page A-10 as determined in the 2011 Final SMP.

Site 2, the Radiation Training Area, located in Environmental Baseline Survey (EBS) Parcel T102, is not a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site. Therefore, it is not presented on Figure 1.

5. **Comment:** **Table 1 (Site 12), Page 6: Please change arsenic and lead to metals since there are other metal COC at Site 12.**

Response: The COC column in Table 1 will be revised to show “metals” for Site 12.

6. **Comment:** **Table 1 (Site 23), Page 6: Please list COCs for Site 23. NA is not in the Notes below.**

Response: Site 23 was a petroleum site; Table 1 will be revised to indicate petroleum as the COC.

7. **Comment:** **Table 3, Page 8: Please include the FSS [final status survey] documents for Sites 6, 31 and 32 as shown in Figure 2.**

Response: The FSS documents for Sites 6 and 31 will be added. The FSSs related to Sites 24, 30, and 32 are included in the Basewide Radiological Surveys-Phase I and Phase II, which were added to the Radiological Program in the Final 2013 SMP.

8. **Comment:** **Figure 5: Please extend date to at least 2017 (2 years from 2015 in last year’s SMP) to show more activity completion and closure dates.**

Response: Figure 5 will be revised to show the timeline from 2008 to 2017.

9. **Comment:** **Figure 10: Please add Site 27 area requiring restrictions.**

Response: The Site 27 area requiring restrictions will be added to Figure 10 of the Final 2013 SMP.

10. **Comment:** **Figure 10: Add YBI [Yerba Buena Island] areas requiring restrictions. The figures from the final CRUP showing the YBI area requiring restrictions are attached in my email transmitting DTSC comments on this SMP.**

Response: The YBI areas requiring restrictions will be added to Figure 10 of the Final 2013 SMP.

11. **Comment:** **Figure 10: Please add Site 21, Site 27 and the areas at YBI requiring land use restrictions. Please change the boundary color to clearly identify them from the petroleum areas requiring restrictions.**

Response: The areas requiring land use restrictions for Sites 21 and 27 and areas on YBI will be added to Figure 10 of the Final 2013 SMP in an alternative color, indicating they are not petroleum areas requiring restrictions.

12. **Comment:** **Appendix A, Site 10 – Bus Painting Shop, Page A-10: Please add dioxin as COC.**

Response: Please see the response to DTSC Comment #4 above.

13. **Comment:** **Appendix A, Site 12 – Old Bunker Area, Page A-15: Please identify the COCs addressed in each removal action.**

Response: The COCs for the specific interim actions listed on page A-15 will be listed to reflect those mentioned in Section 1.3.13 (Removal Action Activities) in the final Site 12 remedial investigation report.

14. **Comment:** **Appendix A, Site 21 – Vessel Waste Oil Recovery Area, Last Paragraph, Page A-17: The LUC RD [land use control remedial design] is now being finalized.**

Response: All site and document statuses will be updated to current conditions in the Final 2013 SMP.

15. **Comment:** **Appendix B, Table B-1 – Site Inventory, ID: 622, Page B-7: Please expand the Phase III NTCRA [non-time-critical removal action] Work Plan schedule to show all steps, specifically the agency review dates.**

Response: The noted entries for the Phase III NTCRA are not part of Table B-1. They are part of the Environmental Schedule that will be labeled Table B-2 to minimize confusion. Table B-1 will not be changed in response to this comment. For Table B-2, all current and future steps are expanded while completed tasks are rolled up.

16. **Comment:** **Appendix B, Table B-1 – Site Inventory, ID: 693 and 701, Page B-9: Agency review period of draft documents in Table 2 is 30 days.**

Response: The noted entries for the Phase III NTCRA are not part of Table B-1. They are part of the Environmental Schedule that will be labeled Table B-2 to minimize confusion. Table B-1 will not be changed in response to this comment.

With respect to lines 693 and 701 (agency reviews of the draft Bigelow Court Removal Action Work Plan (RAWP) and the draft Bigelow Court FSS Plan), the review durations were updated to be consistent with the current document tracking sheet for the RAWP and 20-business days for the FSS.

17. **Comment:** **Appendix B, Table B-1 – Site Inventory, ID: 1274, Page B-22: Please add LUC annual inspections and bathymetry surveys.**

Response: Table B-1 – Site Inventory table is different than the proceeding Environmental Schedule. The proceeding Environmental Schedule will be labeled Table B-2 to minimize confusion. Table B-1 will not be changed in response to this comment. However, Table B-2 will be modified to add the annual LUC inspections to page B-35. The bathymetry surveys will also be added to the Site 27 schedule as well.

## **RESPONSES TO TIDA COMMENTS (VIA MR. GLENN, PE, LEED GREEN ASSOCIATE AND MS. SHIPMAN, PG, CHG)**

### **GENERAL COMMENTS**

1. **Comment:** **TIDA understands that the Navy is in the process of gathering additional information and revising the Historical Radiological Assessment Supplemental Technical Memorandum [HRASTM], however it would be helpful to present a Radiological Program Status, Site Summary, and Timeline to Closure similar to those presented for the CERCLA and Petroleum Programs to illustrate the overall program standing.**

Response: The HRASTM is not a final document and sites have not yet been finalized between the Navy and the State of California. The Navy will consider adding a radiological timeline for sites identified in the final HRASTM to the 2014 SMP. Schedules for work currently planned at radiological sites are presented in Appendix B.

2. **Comment:** **Please include a reference to CDPH [California Department of Public Health] working with DTSC to oversee work on the radiological program.**

Response: References to CDPH working with DTSC to provide technical support on the radiological program already appears in the Radiological Program description on pages A-54 and A-55. The following sentence, “*California Department of Public Health (CDPH) works with DTSC to provide technical support on the radiological program,*” will be included in the first paragraph of Section 2.0 of the Final 2013 SMP.

3. **Comment:** **The completion of remediation activities, attaining closure, and attaining regulatory agency concurrence for closure are a schedule**

**priority for TIDA for those sites with initial phases of the planned redevelopment (Sites 21, 24, and 33, and resolution of the radiological investigation for Building 233), the sites currently disrupting operation of the Boys and Girls Club (Sites 30 and 31), and those sites in the vicinity of the wastewater treatment plan (Sites 6 and 32). Can the Navy shift other competing priorities to focus on moving these sites toward closure?**

Response: The Navy recognizes the importance of certain sites relative to initial phases of proposed redevelopment or other stakeholder interests and takes this into consideration when programming its Environmental Restoration Program. This consideration is in addition to programming projects to support outyear project goals. The schedule provided in Appendix B reflects the Navy's current plan for work at NAVSTA TI. The Navy will continue to update these schedules and work to meet project goals as the program matures.

#### **SPECIFIC COMMENTS**

- 1. Comment: Section 2.0, 1st Paragraph: Please add the Treasure Island Development Authority (TIDA) and the California Department of Public Health (CDPH) to the list of entities comprising the BCT for NSTI and note that DTSC is also part of Cal/EPA [California Environmental Protection Agency].**

Response: TIDA and CDPH are not official members of the BCT for NAVSTA TI. However, they are recognized as important stakeholders supporting the Navy's Environmental Restoration Program. The following sentence, "*Other supporting agencies provide support to the BCT and environmental program including Treasure Island Development Authority (TIDA), Treasure Island Community Development (TICD), the Restoration Advisory Board (RAB), the RAB technical focus group, and other public groups,*" will be added to the first paragraph of Section 2.0 of the Final 2013 SMP.

- 2. Comment: Appendix A, Polychlorinated Biphenyls [PCB] Program, Page A-50 to A-51: Please note in this section that while the PCB program is closed, outstanding PCB-impacts in soils are being address at certain sites (e.g., Site 12, Site 32) as part of the CERCLA program.**

Response: The table on page A-51 will be revised to indicate Site Closeout as "Closed (with exception of some CERCLA sites)."

## RESPONSES TO TICD COMMENTS (VIA MR. CARSON)

1. **Comment:** The Navy schedule presented in the Site Management Plan continually slips from year to year (some tasks on the schedule have slipped by more than a year, within a one year time span). It is important for the City and the developer to have certainty regarding the progress on the remediation and closure of sites on Treasure Island so that the Base Transfer process can continue. What steps are the Navy and State of California Regulators taking to attempt to more precisely keep to the schedule presented in this document?

Response: The Navy understands the desire for certainty and works to minimize impacts to the environmental program schedule that can be caused by a host of variables. The Navy continues to improve schedule adherence as presented in the SMP by evolving coordination processes with state regulators and contributing parties. Bringing efficiency to document development and review will help ensure consistency with projected schedules.

## RESPONSES TO WATER BOARD COMMENTS (VIA MS. ZECH)

1. **Comment:** Table 1, Site 11: Under status, please add a note to explain why the site is on hold, such as “pending demobilization from Caltrans”.

Response: Under the status column for Site 11 on Table 1 of the Final 2013 SMP, a note will be added to explain that once Bay Bridge construction activities are complete, the site will continue with the CERCLA process.

2. **Comment:** Site 21, p. A-17, first paragraph: Please say when the site boundary was expanded to include the southeast corner of Building 3 and the open area between Building 3 and the shoreline.

Response: This statement is taken from the 1997 draft final remedial investigation report, and the date of the boundary expansion is not documented.

3. **Comment:** Site 24, Building 99 VOC plume, p. A-20: The phase III Treatability Study report was completed in August 2013. Please update the status.

Response: The status of the Phase III Treatability Study Report will be updated.