CHAPTER 2.0

Proposed Action and Alternatives

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2.0 PROPOSED ACTION AND ALTERNATIVES

- 1 This chapter describes alternatives for the proposed action and considers Navy disposal
- alternatives and subsequent reuse alternatives. NEPA requires that an EIS objectively evaluate a 2
- 3 "reasonable" range of alternatives. Under NEPA, reasonable alternatives are those that are
- 4 practical or feasible from a technical and economic perspective and that are based on common
- 5 sense (Forty Most Asked Questions Concerning CEQ's National Environmental Policy Act
- 6 Regulations [CEQ 40 Most Asked Questions], 46 Fed. Reg. 18026, March 23, 1981; as amended,
- 51 Fed. Reg. 15618, April 25, 1986). 7
- 8 This chapter of the EIS is organized into seven primary sections. Section 2.1 discusses Navy
- 9 disposal alternatives. Section 2.2 describes the generation of reuse alternatives. Alternatives
- 10 eliminated from review in this EIS, and the reasons for their elimination, are addressed in
- 11 section 2.3. Section 2.4 provides detailed descriptions of the reuse alternatives evaluated in this
- 12 EIS. Section 2.5 identifies Navy's preferred alternative and the environmentally preferable
- 13 alternative, and section 2.6 provides a list of permits and approvals required for disposal and
- subsequent reuse of NSTI. Finally, section 2.7 provides a summary comparison of the potential 14
- 15 impacts and corresponding mitigation for each alternative.

2.1 NAVY DISPOSAL 16

- 17 Navy can either retain NSTI surplus property in federal ownership (No Action Alternative) or
- dispose of the property for subsequent reuse (Disposal Alternative). The description of 18
- 19 retaining NSTI in federal ownership is included in the No Action Alternative (section 2.4.5).
- Navy disposal of surplus property at NSTI is the federal action evaluated in this EIS for 20
- 21 potential environmental and socioeconomic impacts. Under the federal action, approximately
- 22 997 acres (403 ha) of federal property at NSTI would be conveyed to non-federal entities.
- 23 Although it will not retain control of the properties after their disposal, Navy is required, in
- accordance with DBCRA, to evaluate the reasonably foreseeable impacts arising from reuse. 24
- 25 Consequently, this EIS evaluates the potential environmental and socioeconomic impacts
- 26 associated with the reuse of NSTI property. The Federal Action, Navy disposal, is assumed as
- 27 part of each reuse alternative.

22 **REUSE PLANNING PROCESS** 28

- 29 DoD Office of Economic Adjustment (OEA) designated San Francisco as the LRA for NSTI in
- 30 May 1994. In late June 1994, the Mayor of San Francisco appointed the Treasure Island Citizens
- 31 Reuse Committee (CRC) to make recommendations for the consideration of the Planning and
- 32 Redevelopment Commissions and the San Francisco Board of Supervisors. The CRC consisted
- 33 of a diverse group of community professionals and activists represented by environmentalists,
- 34
- architects, labor union members, educators, municipal finance experts, developers, homeless 35
- service providers, real estate analysts, neighborhood and cultural leaders, planners, and 36
- lawyers. The CRC convened its first public workshop in June 1994 and met regularly until it
- 37 had completed its work in 1996.



- As part of the NSTI reuse planning process, numerous alternatives were proposed and then
- 2 evaluated using goals established by the LRA. The city's Office of Military Base Conversion
- 3 (OMBC), a partnership of San Francisco's Planning Department and Redevelopment Agency
- and the Port of San Francisco, directed the reuse planning process. This process, described in
- 5 detail in the Draft Reuse Plan (San Francisco 1996e), included substantial public input and
- 6 technical direction from city departments, as summarized below.
- 7 Before, during, and after the approval of the Draft Reuse Plan, a continued effort was sustained
- 8 in soliciting meaningful public involvement by the OMBC and the CRC. CRC meetings were
- 9 open to the public, and public comment was invited and considered. CRC meeting minutes
- 10 were made available to the public and were regularly distributed to more than 100
- organizations and individuals in the Bay Area. 11
- 12 The public also was informed about the progress of reuse planning through a regular
- newsletter, Treasure of the Bay, the first issue of which was published in Spring 1994. Several 13
- 14 issues of the newsletter were published thereafter and mailed to over 2,400 community leaders,
- 15 neighborhood organizations, and citizens of San Francisco and the Bay Area. Newsletter issues
- 16 focused on important aspects of the reuse planning process, informed the public about other
- 17 ways to get information, and advertised the availability of reuse planning reports, which
- present a more detailed account of NSTI reuse planning.
- 19 The OMBC and CRC, through their consultants, conducted public workshops and prepared a
- 20 number of publicly available documents to assist in formulating a reuse plan for NSTI. Two
- 21 widely publicized public planning workshops on the reuse planning process (including bus
- 22 tours of the islands) were held in June 1994 and August 1995. In July 1995, the CRC prepared
- exhibits for public display at the Treasure Island Museum and the San Francisco Main Library, 23
- 24 accompanied by newsletters and questionnaires soliciting public input on the proposed reuse
- 25 plan. A draft set of reuse planning goals and objectives was produced as a result of these
- 26 workshops, and the goals and objectives were subsequently refined and approved by the CRC
- 27 on December 1, 1995.
- 28 Documents prepared include a two-volume Existing Conditions Report in August 1995 (San
- 29 Francisco 1995a; 1995b), with findings summarized in the August 1995 Issues and
- 30 Opportunities Report (San Francisco 1995d) and the January 1996 Alternatives Report (San
- 31 Francisco 1996a). The adopted goals and objectives address six specific topics—economics,
- 32 community, character, transportation, environment, and safety. For a detailed listing and
- 33 discussion of the goals and objectives envisioned by the CRC, refer to the Draft Reuse Plan (San
- 34 Francisco 1996e).
- 35 From information in these documents and based on public input, a concept plan, entitled
- 36 Conceptual Planning Framework, Treasure Island - Yerba Buena Island (San Francisco 1996d),
- 37 was developed and approved by the CRC in February 1996; this plan led to the publication of
- 38 the Draft Reuse Plan (San Francisco 1996e). Recommendations for the "preferred reuse
- 39 concept" included an emphasis on visitor-oriented recreational, commercial, and entertainment
- 40 uses to serve as a major jobs and revenue generator to support needed improvements and
- 41 services. Due to the instability of fill material on Treasure Island, phased implementation of
- 42 seismic upgrades to structures and utilities was also recommended to reduce the risk of failure 43
 - during an earthquake. The earlier phases of improvements focus on accommodating major

- visitor-oriented uses. Another recommendation was that the reuse plan be developed to allow substantial flexibility to adapt to market conditions and emerging information.
- 3 On July 22, 1996, the San Francisco Board of Supervisors endorsed the Draft Reuse Plan. In
- 4 September 1996, the San Francisco Redevelopment Agency contracted the Urban Land Institute
- 5 (ULI), a non-government organization (NGO), to convene an advisory panel to evaluate the
- 6 feasibility of the Draft Reuse Plan. The resulting report, entitled Treasure Island Naval Station
- 7 San Francisco, California: An Evaluation of Reuse Opportunities and a Strategy for
- 8 Development and Implementation (ULI 1996), suggested changes and revisions that were
- 9 considered in the development of the reuse alternatives. Alternative 2 incorporates many of the
- 10 changes suggested by the ULI study.
- 11 The Draft Reuse Plan proposes to maximize a range of public benefits within the major
- 12 constraints of the site. The plan emphasizes publicly oriented recreational, entertainment, and
- 13 hospitality uses that recall the spirit of the 1939 Golden Gate International Exposition
- 14 (Exposition). These uses maximize the island's central location and outstanding views, and the
- 15 plan links NSTI to San Francisco and the Bay Area by ferry. The Draft Reuse Plan also
- 16 incorporates specific users and types of uses from the second homeless screening process. The
- 17 Draft Reuse Plan was approved by the Department of Housing and Urban Development (HUD)
- on November 26, 1996 (see Appendix C). The Draft Reuse Plan is described in section 2.4.2
- 19 (Alternative 1), along with two other reuse scenarios, Alternative 2 and Alternative 3 (sections
- 20 2.4.3 and 2.4.4, respectively).
- 21 In 1997, the California State Legislature created a special reuse authority for Treasure Island,
- 22 transferring the LRA status from San Francisco to the Treasure Island Development Authority
- 23 (TIDA). TIDA is a state agency staffed by the San Francisco mayor's office and is the entity
- 24 responsible for planning the reuse of Treasure Island. In March 1998, DoD OEA recognized
- 25 TIDA as the implementing LRA for NSTI. TIDA submitted an Economic Development Conveyance
- 26 (EDC) Application and Business Plan for Naval Station Treasure Island in June 2000 for land to be
- 27 used and redeveloped in accordance with the Draft Reuse Plan.

28 2.2.1 Homeless Assistance Planning Process

- 29 Federal base closure law and regulations were changed during the period of reuse planning for
- 30 NSTI. The Stewart B. McKinney Homeless Assistance Act of 1987 (McKinney Act) (Pub. L. 100-
- 31 77, codified as amended, at 42 U.S.C. §§ 11341-11448) requires DoD and other federal agencies
- 32 to give priority consideration for homeless assistance over other uses for property considered
- 33 excess, surplus, or underutilized by federal agencies. HUD screens properties in these
- 34 categories for suitability for homeless assistance (42 U.S.C. § 11411). Because NSTI was closed
- 35 in 1993 under the '93 round of BRAC, homeless assistance screening was originally initiated
- 36 under this law. In October 1994, the Treasure Island Homeless Development Initiative (TIHDI),
- 37 a coalition of 14 nonprofit social service and homeless service organizations, submitted a
- 38 revised plan to the San Francisco Department of Health and Human Services under the
- 39 McKinney Act for providing homeless services.
- 40 The first TIHDI plan submitted to the San Francisco Department of Health and Human Services
- 41 in October 1994 was building-specific. In the fall of 1994, the Base Closure Community
- 42 Redevelopment and Homeless Assistance Act of 1994 (Redevelopment Act) (Pub. L. 103-421, 10

- 1 U.S.C. § 2687) modified the federal process for accommodating the needs of the homeless in
- 2 connection with disposal of military installations. This act provided the affected local
- 3 community greater opportunity to participate in the decision regarding disposal of military
- 4 properties by requiring homeless providers to work through LRAs. In 1995, the LRA notified
- 5 Navy of its intent to conduct a second homeless screening process under this act. DoD
- 6 approved this action on May 9, 1995.
- 7 TIHDI conducted an extensive solicitation process throughout 1995. TIHDI submitted a
- 8 comprehensive Notice of Interest for surplus property at NSTI to the LRA on November 1, 1995,
- 9 for incorporation into the LRA's reuse plan. The TIHDI Notice of Interest includes homeless
- 10 housing, support services, employment, and economic development programs and services.
- 11 The 1995 plan provides economic development opportunities and employment for homeless
- 12 individuals. TIHDI organizations may provide contract services, such as landscaping and
- 13 grounds maintenance, and operate businesses, such as restaurants and convenience stores, at a
- 14 level that is proportionate to overall development on the islands. These businesses would
- 15 provide employment and job training and would be an important part of the ongoing transition
- 16 of NSTI to civilian use.
- 17 According to the Draft Reuse Plan, up to 375 existing housing units will be leased to TIHDI to
- 18 provide shelter for individuals and families, including 90 housing units on Yerba Buena Island
- 19 and 285 housing units on Treasure Island. Discussions regarding the number of homeless
- 20 housing to be leased are on-going, and they are currently proposed at approximately 218 units
- 21 on Treasure Island, and none at Yerba Buena Island. If substantial new residential development
- 22 occurs on NSTI in the future, TIHDI will be offered sites for constructing additional affordable
- 23 housing.

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- 24 The plan sets goals for providing long-term jobs for homeless persons and the working poor as
- 25 a part of new uses on NSTI. The overall employment goals for NSTI include offering 25 percent
- 26 of permanent jobs to homeless or other economically disadvantaged persons within a larger
- 27 goal of setting aside 50 percent of all new jobs for San Francisco residents.

2.3 ALTERNATIVES ELIMINATED FROM DETAILED REVIEW

- 29 In determining the scope of alternatives to be considered under NEPA, the emphasis is on what
- 30 is "reasonable." The term "reasonable" is used primarily to insure that federal agencies
- 31 preparing NEPA documents make the effort to explore a number of common sense-based
- 32 alternatives that meet the purpose and need of the project. Reasonable alternatives include
- 33 those that are practical or feasible from a technical and economic standpoint (Question 2a, CEQ
- 34 40 Most Asked Questions, 46 Fed. Reg. 18026 [March 23, 1981]). An alternative can be
- 35 eliminated from further discussion if it does not meet the purpose and need of the project.
- 36 During the reuse planning process, the LRA developed a purpose and need statement that
- 37 served as the basis for evaluating reuse alternatives and for refining the Draft Reuse Plan. This
- 38 purpose and need focused on reuse of NSTI property to support the local economic base,
- 39 enhance the local image and identity, expand the range of recreational and entertainment
- 40 opportunities available to the community, and enhance the overall livability of the local area
- 41 and region. To meet these overall objectives, the proposed reuse alternatives must have



- 1 provided employment and housing opportunities and generated sufficient revenue (e.g., property tax) to support the investment necessary to upgrade the Treasure Island perimeter 2
- 3 dike and to undertake other facility ground improvements that would improve the seismic
- 4 safety of the site (San Francisco 1996e). In addition, reuse alternatives must have considered
- 5 current access constraints (e.g., limited access via the SFOBB, inadequate on- and off-ramp
- 6 design, and traffic congestion during peak hours) and proposed alternative access options, such
- 7 as ferry service, to solve existing vehicular access deficiencies.
- The Alternatives Report (San Francisco 1996a) that preceded the Draft Reuse Plan identified
- 9 four preliminary land use alternatives. These four alternatives evolved in an iterative process
- with a series of meetings and discussions with the CRC. Table 2-1 lists the land use 10
- 11 requirements of the four preliminary reuse alternatives that were considered by the LRA in
- 12 1995 to meet their reuse objectives. From these alternatives, a screening process was initiated
- 13 by the LRA to determine if these alternatives would 1) attain the objectives of the LRA; 2) avoid
- or substantially lessen environmental effects of the project; 3) be technically feasible; and 4) be
- economically feasible. Although these four alternatives were eliminated from analysis by the
- 16 LRA as a single plan to guide the redevelopment of NSTI, elements of each were included in the
- 17 Draft Reuse Plan.
- 18 Navy reviewed the Draft Reuse Plan (San Francisco 1996e), the ULI report (ULI 1996), the
- Alternatives Report (San Francisco 1996a), scoping comments and letters, and newspaper 19
- 20 articles related to reuse of NSTI to identify a range of reasonable alternatives and to determine
- 21 which alternatives would be eliminated from detailed review in the EIS. While many reuse
- scenarios have been suggested, most major elements of the alternatives eliminated from review
- 23 have been incorporated into one of the three reuse alternatives evaluated. For instance, some
- 24 reuse suggestions, such as a public park or a sports center, were not feasible as a single use;
- however, they have been incorporated as elements in the three reuse alternatives evaluated.
- 26 The four reuse alternatives that were eliminated by the Navy mirror the four preliminary
- 27 alternatives studied in the Alternatives Report (San Francisco 1996a). Table 2-1 and subsequent
- 28 discussions (sections 2.3.1 through 2.3.4) provide a description of those alternatives that were
- 29 eliminated from further review.

2.3.1 Harbor-oriented Themed Attraction Alternative

- This alternative envisioned Treasure Island as a major visitor destination. A large themed
- 32 attraction occupying approximately 86 acres (35 ha) on the scale of Disneyland would be built
- 33 primarily on Treasure Island, but it also would include Clipper Cove and the eastern tip of
- 34 Yerba Buena Island. Visitors to the Treasure Island themed attraction would arrive by ferry to a
- 35 new terminal on the west side of the island. Pier 1 would be incorporated into the themed
- 36 attraction.

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- 37 Under this alternative, the west side of Treasure Island would be devoted to visitor-serving
- uses, primarily hotels and supporting retail and entertainment uses, which would complement
- 39 and support the new themed attraction. The remainder of the island would be unprotected by
- 40 shoreline improvements and held in open space. The center of the island, which is more
- geologically stable, could be used for active recreational uses, such as a sports complex

Table 2-1. NSTI Land Development Program for Alternatives Initially Considered by the LRA in 1995

| | | | Alternatives | | | | | |
|------------------------------------|-------|-------------------------------|--------------|-----------------------------|-------|---------------------------------------|-------------|-------------------------|
| Land Use | 1 | bor-oriented ed Attraction | | stination nment District | | esidential ghborhood | | jor Themed ttraction |
| | Acres | Program | Acres | Program | Acres | Program | Acres | Program |
| Treasure Island | | | | | | _ | | |
| Themed Attraction | 86.0 | 1 million s.f. | | | | | | |
| Hotel/Entertainment | 30.0 | 1,200 rooms 500,000 s.f. | | | | | 30.0 | 2,000 rooms |
| Sports Complex | 80.0 | | | | | · · · · · · · · · · · · · · · · · · · | | |
| Public Promenade | 6.0 | | 4.0 | | 7.0 | | 7.0 | |
| Destination Entertainment | | | 23.0 | .l.e 000,000 | | | | |
| Film/Institutional | | in in | 11.0 | 300,000 s.f. | 14.0 | 300,000 s.f. | | |
| Resort Hotel | | | 18.0 | 600 rooms | | | | |
| Business Hotel | | 1 | 13.0 | 400 rooms | | | | |
| Golf Course | - | | 144.0 | 18 holes | | | | |
| Marina | | | | 500 slips | 1 | 500 slips | | 500 slips |
| Residential | | | | | 88.0 | 3,520 units | | |
| Residential/Mixed Use | | | | | 37.0 | 1,480 units 200,000 s.f. | | |
| Hotel/Conference | | - | | | 8.0 | 400 rooms | | |
| School/Child Care/Gym | | | | | 22.0 | | | |
| Park/Open Space | | | | | 125.0 | | | |
| Roads | | - | | | 13.0 | 10 0 0010 | | |
| Themed Attraction/Entertainment | 7/20 | | | | | | 263.0 | · |
| Film Production | | | | | | | | 300,000 s.f. |
| Job Corps | 36.0 | | 36.0 | | 36.5 | | 36.0 | |
| Open Space | 165.0 | | 154.0 | | 52.5 | | 67.0 | |
| Subtotal Acres | 403 | | 403 | | 403 | | 403 | · |
| Yerba Buena Island | | | | | | | · | |
| Themed Attraction | 7.0 | 200 rooms 100,000 s.f. | | | | - | | <u></u> |
| Hotel/Conference | | | 7.0 | 200 rooms | | | 7.0 | 200 rooms |
| Residential (new) | | | | | 7.0 | 140 units | | |
| Existing Housing | 36.0 | 95 units | 36.0 | 95 units | 36.0 | 95 units | 36.0 | 95 units |
| Open Space | 72.0 | - | 72.0 | | 72.0 | | 72.0 | |
| Subtotal Acres | 115 | | 115 | | 115 | | 115 | |

Source: Draft Reuse Plan (San Francisco 1996a).

Notes for all alternatives:

Improved land acreage includes stabilized land area within a footprint defined by an improved perimeter dike, including the Job Corps site. Land within the core is excluded for the Harbor-oriented Themed Attraction and Destination Entertainment District alternatives.

initial alternatives include 39 acres (16 ha) of dry land on Yerba Buena Island that was subsequently transferred to the U.S. Coast Guard and FHWA.

s.f. = square feet

- consisting of amateur athletic fields. New uses on Treasure Island would be focused around a central roadway and utility corridor that provides access and services to each of the uses.
- 3 On Yerba Buena Island, it is assumed that one small 200-room hotel could be part of
- 4 development on the flatter, eastern area. The Senior Officers Quarters would be preserved and
- 5 incorporated into the themed attraction, either as lodging or as an attraction. The remainder of
- 6 Yerba Buena Island would be primarily devoted to housing and open space uses.
- 7 Major elements of this alternative were incorporated into two of the reuse alternatives that are
- 8 already included in this EIS. For example, the major themed attraction and use of the west side
- 9 of Treasure Island for visitor-serving uses, such as hotels, is part of Alternative 1. Providing
- 10 shoreline improvements only to portions of Treasure Island and dedicating the less reinforced
- 11 part to open space and recreation is similar to Alternative 2. In addition, this alternative was
- 12 found to be marginally economically feasible due to the single source of revenue and the
- 13 reliance on supplemental funding from tax increment financing (San Francisco 1996a).
- 14 Therefore, this alternative was eliminated from further review.

2.3.2 Destination Entertainment District Alternative

- 16 This alternative would include developing a resort hotel and a visitor-serving entertainment
- 17 district along the Clipper Cove shoreline of Treasure Island. For illustrative purposes, this
- 18 alternative envisions a fairly large facility similar in scale to the Inn at Spanish Bay in Pebble
- 19 Beach. Another hotel and conference center would be established on the western side of the
- 20 island. The area between the two hotels and along the Clipper Cove shoreline would be a
- 21 visitor-oriented entertainment zone, similar in concept to Citywalk in Universal City in Los
- 22 Angeles, incorporating themed attractions, along with clubs, restaurants, and shops oriented to
- 23 the waterfront promenade. This alternative also provides an area for existing film production
- 24 or a similar employment use, such as recording or multimedia studios, which could be related
- 25 to the entertainment themes of the island.

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- 26 Open space on Treasure Island would be developed as an 18-hole golf course to complement
- 27 the hotels. Similar to the Harbor-oriented Themed Attraction Alternative, the outer perimeter
- 28 of the island would be set aside as natural open space with limited public access. This
- 29 alternative also envisions a small hotel and conference center on the eastern tip of Yerba Buena
- 30 Island, with reuse of existing residential units and potentially up to 90 infill units.
- 31 This alternative was eliminated from further consideration due to economic factors. The
- 32 principal source of revenue to support development of NSTI is the value that private
- 33 development can pay for the land. Compared to the other three preliminary alternatives, the
- 34 Destination Entertainment District Alternative would result in the lowest residual land values,
- 35 which would not be sufficient to cover all costs even with supplemental tax revenues (San
- 36 Francisco 1996a), therefore, this alternative was eliminated from further review. However,
- 37 elements of this alternative have been integrated into the EIS reuse alternatives. For example,
- 38 the golf course is represented in Alternative 2.

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2.3.3 Residential Neighborhood Alternative

2 Under this alternative, both Treasure Island and Yerba Buena Island would be devoted primarily to residential uses; up to 4,000 new housing units would be added to the existing 3 4 approximately 1,000 units at NSTI (approximately 900 units on Treasure Island and 5 approximately 100 units on Yerba Buena Island). New residential uses on Treasure Island 6 would be oriented around shoreline open space areas and a central park. A commercial 7 residential mixed-use center would be established along the Clipper Cove shoreline. A new 8 marina would be established on Treasure Island at Clipper Cove for recreational uses. On the west side of the island, a small business hotel and conference center would be located to take 9 10 advantage of views and ferry access to downtown San Francisco. Redevelopment on Yerba Buena Island would include new housing units developed at townhouse densities (i.e., up to 20 11 12 units per acre for the level portion of the island and 10 units per acre for sloping and 13 redeveloped areas). Up to 230 new dwelling units could be established on Yerba Buena Island 14 in addition to rehabilitating existing housing units.

This alternative was eliminated from further consideration because of both economic and environmental factors. Economic feasibility studies during the master planning process revealed that given the high dike reinforcement, infrastructure, and service costs and the expected rate of absorption for residential uses, an alternative that relied primarily on residential uses would be economically infeasible. For example, it was estimated to take 25 years for this alternative to be built out. Even with the inclusion of tax increment financing, the revenues generated, primarily consisting of land sales, were found to be insufficient to cover the high costs associated with this alternative (San Francisco 1996a). It was also questionable whether a suitably amenable residential environment could be established in the early phases to establish new market-rate housing on Treasure Island.

25 This alternative also would be expected to generate unacceptably high traffic volumes on the 26 SFOBB, based on a likely greater reliance on the private automobile for transportation and 27 access to and from NSTI. Based on a residential trip generation rate of ten trips per day, this 28 alternative would generate approximately 49,950 vehicle trips per day. Vehicle use would have 29 to be stringently curtailed for this alternative to be feasible from a transportation standpoint, 30 and the anticipated level of non-auto use (e.g., ferry and shuttle systems) that would be 31 required of new residents would be generally unprecedented in the U.S. This alternative would 32 not meet the LRA's purpose and need to enhance the overall livability of the local area and 33 region because it would worsen existing vehicular access deficiencies on the SFOBB. For these 34 reasons, this alternative was eliminated from further consideration.

2.3.4 Major Themed Attraction Alternative

This alternative would develop an extensive themed attraction on Treasure Island. The themed attraction would occupy approximately 260 acres (105 ha), on the scale of Universal Studios in Los Angeles, and would include film production. The western portion of Treasure Island would be developed primarily as hotels and visitor-serving uses. In this alternative, Clipper Cove and the associated shoreline would be for public use and would not be included within the themed attraction. Public access to the themed attraction would be through the west side ferry terminal and through Building 1. Pier 1 would serve as a ferry terminal and a second entrance to the themed attraction. This alternative also would include construction of a new



- 200-room hotel on the eastern tip of Yerba Buena Island. The existing housing would be reused and infilled, as feasible.
- 3 This alternative would meet the basic project purpose and need to enhance local image and
- 4 identity and to expand the range of recreational and entertainment opportunities available to
- 5 the community. However, this alternative was regarded as too narrowly drawn, relying too
- 6 much on a very large themed attraction. The marketability of this alternative is questionable
- 7 due to the unlikelihood that a developer or corporation would purchase such a large area of
- 8 land for themed attraction purposes, particularly given the costs associated with land
- 9 improvements and that the intensive use area is generally around 60 to 80 acres (24 to 32 ha)
- 10 (San Francisco 1996a). For these reasons, this alternative was eliminated from consideration as
- 11 a single development plan. However, the major themed attraction elements were incorporated
- in all three of the EIS reuse alternatives at a reduced scale.

2.4 DETAILED DESCRIPTION OF REUSE ALTERNATIVES

- 14 This section presents a detailed description of the three reuse alternatives developed and
- 15 evaluated in this EIS Alternatives 1, 2, and 3. Navy disposal is assumed as part of each of the
- 16 three reuse alternatives. Alternative 1 represents full implementation of the development
- 17 scenario described in the Draft Reuse Plan (San Francisco 1996e) developed by the LRA.
- 18 Whereas the Draft Reuse Plan envisions buildout by 2030, this EIS alternative assumes buildout
- 19 by 2015. Year 2015 was used as the EIS buildout year because it was the year for which there
- 20 was the most representative data concerning projected population and economic growth at the
- 21 time of the analysis. Alternative 2 is based on comments received during the scoping process,
- 22 including the recommendations of an advisory panel convened by the ULI (ULI 1996).
- 23 Alternative 3 represents a lower level of redevelopment than proposed in the Draft Reuse Plan.
- 24 Each reuse alternative is a broad conceptual plan characterized by a general land use concept
- 25 and a development scenario. For example, residential uses for the three alternatives range from
- 250 to 2,840 dwelling units, while open space and recreation uses range from a combination of
- 27 shoreline promenades and sports fields on 118 acres (47.8 ha) to a combination of these uses
- 28 plus an 18-hole golf course on approximately 259 acres (104.8 ha). Alternative 1 proposes the
- 29 largest population (employees, residents, and visitors). Alternative 3 proposes approximately
- 30 half as much employment and resident population compared to Alternative 1. Alternative 2
- 31 provides more jobs than Alternative 3 and the fewest residents of all the reuse alternatives.
- 32 Alternatives 1, 2, and 3 have different perimeter dike improvements to seismically upgrade
- 33 Treasure Island. Alternative 3 includes a lower level of development, and many existing
- 34 buildings are reused.

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- 35 Each reuse alternative has general land use planning designations (residential, publicly
- oriented, institutional and community, and open space and recreation) that allow for a range of
- 37 different types of land use. These four land use categories represent slightly revised versions of
- 38 the land use categories discussed in the Draft Reuse Plan. The publicly oriented and
- 39 institutional and community categories are composites and would include a range of land uses.
- 40 For example, the publicly oriented category would include such uses as a themed attraction,
- 41 hotels, and an expanded marina. The institutional and community category would include
- 42 such uses as police and fire stations, schools, and the wastewater treatment plant. The
- 43 residential land use category would include a range of housing options on both Treasure Island



- and Yerba Buena Island. The open space and recreation land use category would include
- 2 shoreline open space at Treasure Island and hillside open space on Yerba Buena Island. Figure
- 3 2-1 compares land use development proposed for each of the three alternatives.
- 4 Table 2-2 provides a summary comparison of land use development of the three alternatives.
- 5 This table is intended to help the reader identify specific differences among the three
- 6 alternatives. The resulting combination of the use categories provides a level of reuse intensity
- 7 that is analyzed and compared as part of this EIS. Analyses of the three reuse alternatives,
- 8 which include a range of possible uses, provide a basis for decision-makers and the public to
- 9 consider the environmental impacts of reuse.
- 10 The reuse alternatives are general, representative, and appropriate for the level of
- 11 environmental analysis needed to make a disposal decision. Use categories, such as a themed
- 12 attraction, sports fields, or residential developments, are representative of but are not the only
- 13 specific uses for a parcel or building. The use categories analyzed provide a basis for estimating
- 14 the potential numbers of future residents, employees, and visitors for environmental impact
- 15 analysis purposes. The numbers provided in Table 2-2 are estimates only since discussions are
- 16 on-going between Navy and San Francisco, and most uses depend on future conditions and
- 17 circumstances.
- 18 This section describes reuse alternative assumptions, followed by a more detailed description of
- 19 land use development for each alternative. The discussion of each alternative is organized by
- 20 the four general land use planning categories. For reference, Figure E-1 in Appendix É
- 21 identifies NSTI building numbers used in the following discussion.

22 2.4.1 Assumptions for Reuse Alternatives

- 23 Construction and Demolition
- 24 Development is expected to occur in phases in accordance with infrastructure improvements.
- 25 Phasing in the Draft Reuse Plan is illustrative and is expected to vary depending on actual
- 26 market conditions, funding, and policy decision. Each phase would include some demolition
- 27 and construction activities and would lead to additional employment and housing development
- 28 (San Francisco 1996e).
- 29 Facility Improvements
- 30 The extent of perimeter dike improvements and other seismic improvements on Treasure Island
- 31 would vary with each reuse alternative, as indicated in the alternative descriptions in sections
- 32 2.4.2, 2.4.3, and 2.4.4, and as shown on Figure 2-2.
- 33 Existing utility systems would be improved to provide better service and upgrades needed to
- 34 meet applicable codes. Water system upgrades, for example, would include improving the
- 35 chlorinating system, installing new water pumps, and replacing existing pipes and valves,
- 36 meters, back-flow preventers, and air valves, as needed. Sanitary sewer system upgrades
- 37 would include replacing sewage pipes or lining them for low-flow use. Storm drainage
- 38 improvements would include inspecting and replacing selected storm drains, rebuilding or

Table 2-2
Summary Comparison of Land Development Characteristics of Reuse Alternatives

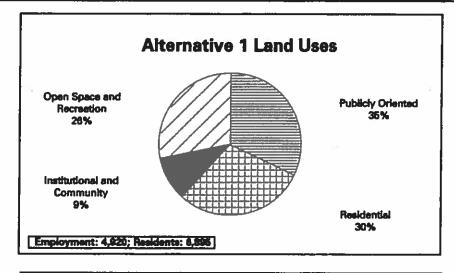
| Summary Comparison of Land | Development Cna | racteristics of Ret | ise Alternatives |
|---|--------------------------------------|--------------------------------------|---|
| Cluracteristic | Alternative 1 | Alternative 2 | Alternative 3 |
| Residential | Dwelling Units | Dwelling Units | Dwelling Unit |
| Existing residential | . 290 | 50 | 995 |
| New residential | 2,550 | 200 | 7(|
| Total dwelling units | 2,840 | 250 | 1,065 |
| Publicly Oriented | Acreage | Acreage | Acreage |
| Themed attraction | 59 | 74 | 39 |
| Hotel/conference/lodging | 25 | 45 | 14 |
| Retail/specialty/restaurant | 10 | 1 | |
| Entertainment center | 0 | 6 | (|
| Amphitheater | 0 | 7 | 0 |
| Wedding chapel | 0 | 1 | 2 |
| Museum | 3 | 4 | 4 |
| Mixed use/office | 11 | 0 | 6 |
| Film production | 31 | 0 | 33 |
| Marina (vacht club) | 2 | 0 | 2 |
| Other publicly oriented uses | 14 | 14 | 20 |
| Subtotal Acres | 155 | 152 | 122 |
| Institutional and Community | | | |
| Elementary school | 9 | 0 | 9 |
| Child development center | 4 | 0 | 4 |
| Fire training school | 5 | 5 | |
| Warehouse/storage | 0 | 0 | 4 |
| Wastewater treatment plant | 10 | 5 | 3 |
| Brig | 5 | 4 | 5 |
| Fire station | 4 | 2 | 2 |
| Police station | 3 | 2 | 3 |
| Other institutional facilities | . 0 | 0 | 8 |
| Subtotal Acres | 40 | 18 | 43 |
| Open Space and Recreation | | | |
| Golf course | 0 | 147 | 0 |
| Sports fields/complex | 47 | 18 | 40 |
| Shoreline promenade/open space2 | 71 | 76 | 102 |
| Wildlife habitat | 0 | 18 | 0 |
| Subtotal Acres | 118 | 259 | 142 |
| Land Use Categories ³ | | | |
| Public Oriented | a 155 · | 152 | 122 |
| Residential | 137 | 21 | 143 |
| Institutional and Community | 40 | 18 | 43 |
| Open Space and Recreation | 118 | 259 | 142 |
| Total Acres | 450 | 450 | 450 |
| Marina | Expansion | Expansion | Existing only |
| Ferry Terminals | New (west side) Retrofit (Pier 1) | New (west side) Retrofit (Pier 1) | Retrofit (Pier 12) Retrofit (Pier 1) |
| Approximate On-site Population | 6,895 | 710 | 3,510 |
| Approximate Employment | 4,920 | 2,820 | 2,195 |
| Approximate Average Daily Vehicle Trips | 18,100 | 13,085 | 6,700 |

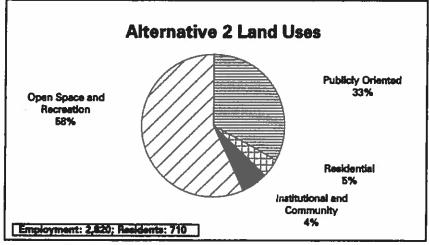
Source: Draft Reuse Plan (San Francisco 1996e).

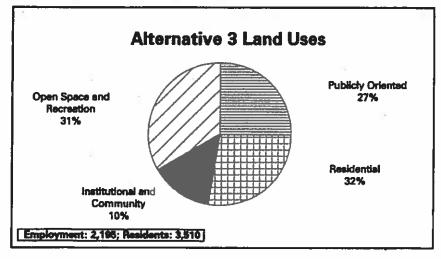
¹ Does not include 75 beds in barracks on Treasure Island,

² Open space on Yerba Buena Island includes small areas of native habitat.

³ The land use categories represent slightly revised versions of the land use categories discussed in the Draft Reuse Plan. Note: The numbers provided in this table are estimates only since discussions are on-going between Navy and San Francisco. Estimates in the text and the tables are included for discussion purposes.







rcentages of land uses may vary somewhat ithin each alternative, especially in the area residential and open space/recreation use.

Comparison of Reuse Alternatives

Naval Station Treasure Island, California

- 1 replacing pump stations, and repairing and replacing outfalls. Alternative technologies,
- 2 including establishing wetlands, may be considered as part of required improvements.

3 Ferry Service

- 4 Ferries would be an important mode of transportation to the islands under all of the reuse
- 5 alternatives. Under Alternatives 1 and 2, a new ferry terminal would be built on the west side
- 6 of Treasure Island. In all alternatives, Pier 1 would be retrofitted to serve as a ferry landing on
- 7 the east side of the island. Under Alternative 3, Pier 12 would be adapted to accommodate ferry
- 8 service rather than constructing a new ferry terminal.
- 9 Under all three reuse alternatives, ferry service would be provided between NSTI and San
- 10 Francisco and the East Bay, with service to and from the Ferry Building in San Francisco at the
- 11 foot of Market Street and Jack London Square in the Oakland/Main Street terminal in Alameda.
- 12 Additional ferry service under Alternatives 1 and 2 would be provided between NSTI and
- 13 Candlestick Point in San Francisco and Golden Gate Fields on the Berkeley and Albany border
- 14 in the East Bay.

15 Dredging

25

- 16 Dredging may be associated with modifications necessary for ferry service (new ferry terminal
- 17 and retrofitted piers). Dredging also may be necessary for maintenance of the marina under all
- 18 alternatives and expansion of the marina under Alternatives 1 and 2. The exact location and
- 19 amount of potential dredging is not known at present and therefore, this EIS can necessarily
- 20 evaluate potential impacts from dredging in only a general way. All dredging activities would
- 21 require permits and approvals from Bay Conservation and Development Commission (BCDC),
- 22 San Francisco Bay Regional Water Quality Control Board (RWQCB), and the COE, which would
- 23 require measures to minimize potential environmental impacts. (Disposal of dredge material is
- 24 discussed in section 4.10, Water Resources.)

2.4.2 Alternative 1 (Preferred Alternative)

- 26 Alternative 1 features a combination of publicly oriented development, open space and
- 27 recreation, and extensive residential development at full buildout, such as envisioned in the
- 28 Draft Reuse Plan. Under this alternative, the NSTI project acreage would be occupied in the
- 29 following manner: publicly oriented land uses, approximately 35 percent; residential, 30
- 30 percent; open space and recreation, 26 percent; and institutional and community services, 9
- 31 percent (see Figure 2-1 and Table 2-2). The four land use alternatives initially considered by the
- 32 LRA (see section 2.3) were used to develop and further refine a "preferred reuse concept" that
- 33 formed the basis of the Draft Reuse Plan, represented by Alternative 1. Figure 2-3 shows
- 34 proposed land uses for Alternative 1. Table E-2 in Appendix E provides detailed assumptions
- 35 for this alternative.
- 36 Seismic upgrades would include dike improvements to the entire Treasure Island perimeter,
- 37 using soil cement columns in areas subject to rotational dike failure and stone columns in the
- 38 other areas (see Figure 2-2). A new underground utility corridor would run along the perimeter
- 39 of the island, carrying storm and sanitary sewer mains, water mains, reclaimed water mains,

- and electricity, gas, and telecommunications lines. The utility corridor also would cross 1
- Treasure Island along 9th Street.

3 **Publicly Oriented Uses**

- 4 Alternative 1 proposes 155 acres (63 ha) of publicly oriented uses. Unlike the preliminary
- 5 alternative, Harbor-oriented Themed Attraction, Alternative 1 has a broader diversification of
- 6 uses, while still proposing a Disneyland-like attraction. The major publicly oriented
- 7 development on Treasure Island would be a themed attraction with the potential to attract an
- 8 average of approximately 13,700 daily visitors and to employ up to approximately 3,500
- 9 seasonal and permanent workers (1,750 full-time equivalent jobs). This themed attraction
- 10 would be similar to Disneyland, with lighting displays, some tall structures, such as a roller 11
- coaster, and at least one landmark structure assumed to be up to 100 feet (305 meters [m]) tall. 12
- Maximum building density at the themed attraction would be similar to existing conditions. 13
- Development also would include a 300-room and a 1,000-room hotel with three restaurants and 14 offices. Existing film production uses would be expanded by an additional 100,000 square feet
- (9,290 m²). The total number of jobs expected to be generated by publicly oriented uses on 15
- 16 Treasure Island is 4,482.
- Publicly oriented uses on Yerba Buena Island would include a 150-room hotel, conference 17
- 18 facilities, and a restaurant, and would generate approximately 168 new jobs.
- 19 approximately 100-slip Clipper Cove Marina would be expanded to 300 slips and 100 tie-up
- 20 buoys, and a new 20,000 square-foot (1,858 square-meter [m²]) yacht club would be developed.
- Existing structures also would be reused for publicly oriented activities, such as a conference 21
- 22 and reception center, and these buildings would be seismically upgraded.

23 Residential Uses

- 24 Alternative 1 proposes 137 acres (55 ha) of residential uses. Unlike the rejected Residential
- 25 Neighborhood Alternative, this alternative has mixed uses including the themed attraction
- 26 discussed above. On Treasure Island, about 200 of the approximately 900 existing housing units 27
- would be reused, and about 2,300 units would be built. On Yerba Buena Island, approximately 28
- 100 units of existing housing would remain in use, and 250 units would be built. The Torpedo 29
- building (Building 262) would be reused as live-work units. The total number of housing units 30 associated with this reuse alternative would be about 2,850. TIHDI initially would manage the
- leasing of 375 units from the existing housing stock on the two islands, with promise of 31
- 32 additional land for TIHDI housing if new housing is developed.

Institutional

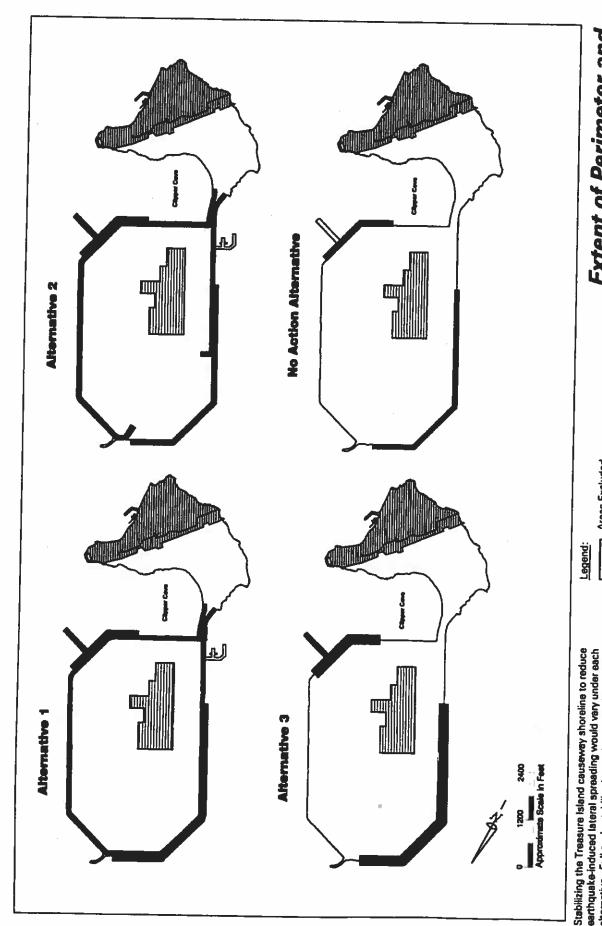
33

41

- Alternative 1 proposes 40 acres (16 ha) of institutional and community uses on Treasure Island, 34
- 35 generating an estimated 200 jobs. A new wastewater treatment plant would be built to replace
- 36 the existing plant. A new police station and a new fire station also would replace those existing
- 37 on Treasure Island; these facilities and an existing fire station on Yerba Buena Island would be
- staffed with fire, paramedic, and police personnel. The elementary school, child development 38
- 39 center, fire training school, and brig would be retained and reused, for their original uses, with
- 40 some modifications.

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Extent of Perimeter and Seismic Stabilization

> Areas Excluded from Proposed Navy Disposal

elternative. Full scale stabilization under Alternative 1 would

be achieved by sinking rows of stone columns within 50-foot wide band along the shoreline and soil cement columns in the 6,700 linear feet of shoreline that is subject to rotational dike failure. There would be no stabilization

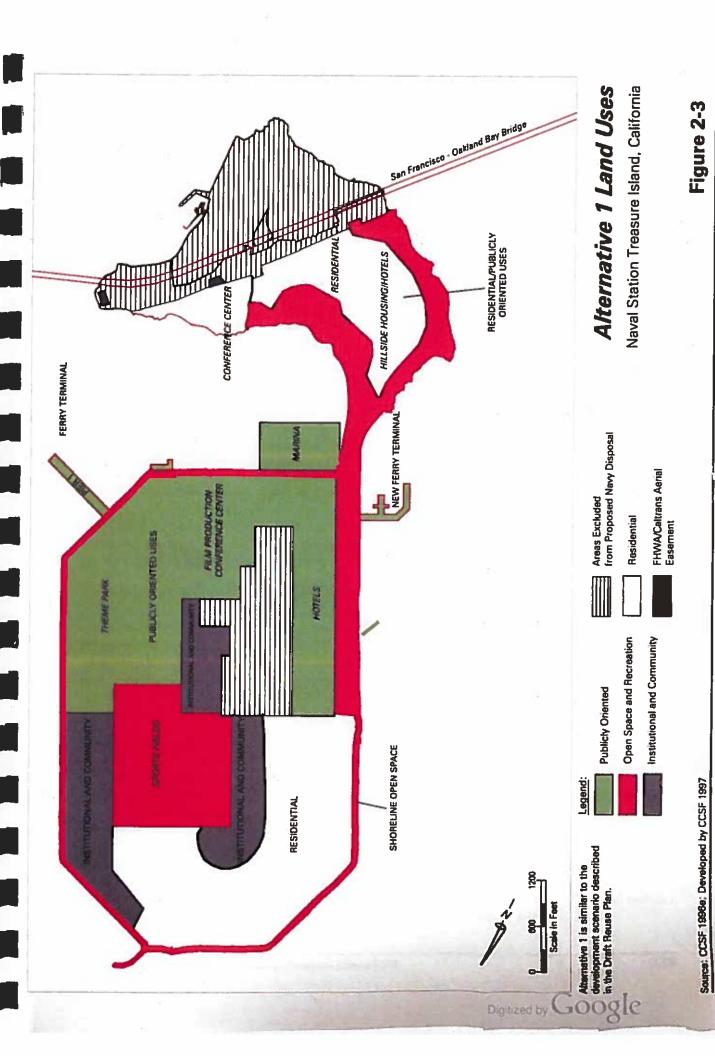
under the No Action Alternative.

Shoreline Subject to Rotational Dike Failure

Seismic Stabilization Improvements

Naval Station Treasure Island, California

Source: CCSF 1996e



Open Space and Recreation Uses

1

2 Alternative 1 proposes 118 acres (48 ha) of open space and recreation uses on NSTI. The 3 existing Treasure Island shoreline open space would be widened from 25 to 50 feet (7.5 to 15 m) 4 to approximately 100 feet (30 m) and would feature a bikeway and pedestrian path. The 5 proposed perimeter band would surround Treasure Island and would be linked to a series of 6 parks, plazas, greens, and overlooks. The existing fitness center and gym would be retained, 7 and there would be new spectator and competitive sports facilities. The majority of this area 8 would consist of open playing fields for soccer, basketball courts, and tennis courts expected to 9 generate 7 new jobs. Beach areas and picnic grounds at the foot of the cove would be retained. 10 and existing mudflats would remain for shorebird forage and habitat. The hillside open space extending to the water on Yerba Buena Island's steep side, including interspersed native 11 12 habitat, would remain as open space.

13 **2.4.3** Alternative 2

- Redevelopment under Alternative 2 is similar to Alternative 1, but less extensive. This alternative emphasizes open space and recreation and publicly oriented uses but on a smaller scale. Figure 2-4 identifies proposed land uses for Alternative 2. Table E-3 in Appendix E
- 17 provides detailed assumptions for this alternative.
- Under Alternative 2, open space and recreation land uses would occupy 58 percent of NSTI acreage, publicly oriented 33 percent, residential 5 percent, and institutional and community services 4 percent (see Figure 2-1 and Table 2-2). The existing housing would be reused initially. No new housing would be built on Treasure Island. An 18-hole golf course would occupy the present housing area on the northern part of the island.
- 23 Regarding seismic upgrade, except for the golf course area, full-scale perimeter dike 24 improvements would be implemented around Treasure Island (see Figure 2-2). Extending a 25 stone column dike reinforcement on the east to beyond Building 461 and on the west to 9th 26 Street would reduce damage to structures, such as the brig and fire training center, in the event 27 of an earthquake. Where dike improvements would end, an approximately 500-foot (152-m) 28 soil cement column would be extended into the island (see Figure 2-2). The utility corridor 29 would be constructed around the perimeter of Treasure Island, but it would not extend along 30 the perimeter adjacent to the proposed golf course.

Publicly Oriented Uses

31

Alternative 2 proposes 152 acres (62 ha) of publicly oriented uses. A themed attraction would 32 33 draw up to approximately 5,500 daily visitors and would employ approximately 1,400 seasonal 34 and permanent employees (700 full-time equivalent jobs). As with Alternative 1, this themed 35 attraction would be similar to Disneyland, with lighting displays, some tall structures, such as a 36 roller coaster, and at least one landmark structure assumed to be up to 100 feet (305 m) tall. 37 However, maximum building density at the themed attraction would be less dense and would include more open space and landscaping. Development would include a 700-room and 500-39 room hotel, a 5,000-seat amphitheater, and an entertainment and retail center. The total number of jobs expected to be generated by publicly oriented uses on Treasure Island is 2,513.

- 1 The Clipper Cove Marina would be expanded to have 500 to 675 slips and tie-up buoys.
- 2 Existing facilities (e.g., Senior Officers Quarters 1 through 7) would be reused for publicly
- 3 oriented uses, such as a 100,000 square-foot (9,290 m²) conference and reception center or bed
- 4 and breakfast facilities. The Torpedo building (Building 262) would be reused as a restaurant.
- 5 The number of jobs expected to be generated by publicly oriented uses on Yerba Buena Island is
- 6 180.

7 Residential Uses

- 8 Alternative 2 proposes 21 acres (8 ha) of residential uses. On Treasure Island, all housing
- 9 would eventually be demolished. There may be replacement homeless housing for TIHDI to
- 10 manage and lease elsewhere off-island. On Yerba Buena Island, approximately 50 existing
- 11 housing units would remain and approximately 200 new units would be added, for a total of
- 12 about 250 units.

13 Institutional and Community Uses

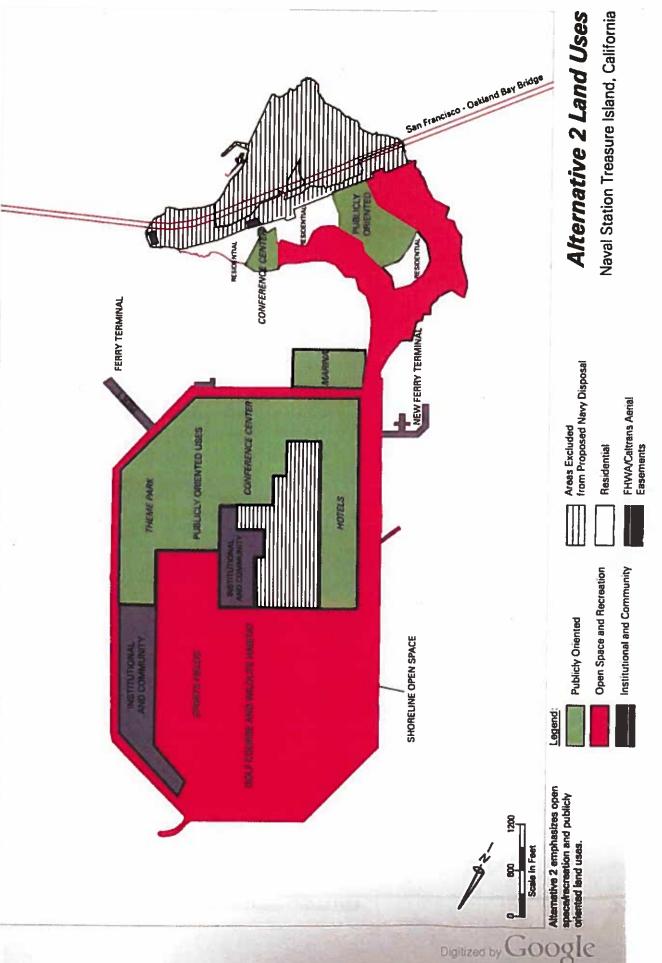
- 14 Alternative 2 proposes 18 acres (7 ha) of institutional and community uses on Treasure Island,
- 15 generating an estimated 103 jobs. A new wastewater treatment plant would be built to replace
- 16 the existing plant. Wetlands also could be constructed for treating stormwater runoff (see
- 17 description below under Open Space and Recreation Uses). The elementary school and the
- 18 child development center would ultimately be removed. A new fire station and police station
- 19 would be built; these facilities and an existing fire station on Yerba Buena Island would be
- 20 staffed with fire, paramedic, and police personnel. The brig and the fire training school would
- 21 remain and be reused, for their original uses, with some modifications. The fire training school
- 22 would be modified to include passenger aircraft fire-fighting training.

23 Open Space and Recreation Uses

- 24 Alternative 2 proposes 259 acres (104 ha) of open space and recreation uses. Similar to
- 25 Alternative 1, the shoreline open space would be widened to approximately 100 feet (30 m) and
- would feature a bikeway and pedestrian path. An 18-hole golf course would be developed on
 the northern half of Treasure Island. An approximately 20-acre (8-ha) area near the proposed
- 28 golf course would be set aside for wildlife habitat, for wildlife observation, and possibly for
- 29 wetlands. There are no wetlands on NSTI. If wetlands were proposed, the type of wetlands
- 30 would need to be defined and further studies conducted as part of site-specific environmental
- documentation. Wetlands could be introduced and analyzed as part of proposed infrastructure (e.g., stormwater system) improvements. The hillside open space extending to the water on
- 33 Yerba Buena Island's steep side, including interspersed native habitat, would remain as open
- 34 space.

35 2.4.4 Alternative 3

- 36 Alternative 3 represents the scenario where little new development would occur, and existing
- 37 facilities would be reused. The wastewater treatment facility would be retained, and the
- 38 existing housing and other structures would be reused. Building upgrades would include
- 39 rehabilitation to meet life safety requirements recommended by the Federal Emergency



- 1 Management Agency (FEMA)-178 evaluations and other code requirements. Minimal development would occur.
- 3 Figure 2-5 identifies proposed land uses for Alternative 3. Table E-4 in Appendix E provides
- 4 detailed assumptions for this alternative. Under Alternative 3, open space and recreation land
- 5 uses would occupy 31 percent of NSTI acreage, residential 32 percent, publicly oriented 27
- 6 percent, and institutional and community services 10 percent (see Figure 2-1 and Table 2-2).
- 7 Reuse under this alternative could include uses similar to those under existing leasing actions,
- 8 such as film production, the conference center, fire-fighting school, marina, and elementary
- 9 school. These uses would continue through 2015 under this alternative.
- 10 Seismic upgrade dike improvements would occur along those areas of Treasure Island subject
- 11 to rotational dike failure (Figure 2-2).
- 12 Publicly Oriented Uses
- 13 Alternative 3 proposes 122 acres (49 ha) of publicly oriented uses. A themed attraction would
- 14 reuse existing facilities and draw up to an average of approximately 2,740 daily visitors and
- 15 employ up to approximately 700 seasonal and permanent workers (350 full-time equivalent
- 16 jobs). Compared to Alternatives 1 and 2, the themed attraction would be much smaller in size
- 17 with less extensive development. It would include at least one landmark structure assumed to
- 18 be up to 100 feet (305 m) tall, and other new buildings would be similar in height to existing
- 19 conditions.
- 20 On Yerba Buena Island, the Nimitz Conference Center (Building 140) would be reused, and the
- 21 Torpedo building (Building 262) would be reused as a restaurant (building numbers are shown
- on Figure E-1 in Appendix E). On Treasure Island, the Fogwatch Restaurant (Building 227)
- 23 would continue to be a restaurant and the existing film production uses would be expanded.
- 24 Building 450 would be reused either for film production or for other publicly oriented uses,
- 25 such as mixed use or office space. The existing marina would be retained but would not be
- 26 expanded, and a new 20,000 square-foot (1,858 m²) yacht club would be developed. The
- 27 number of jobs expected to be generated by publicly oriented uses on Treasure Island is 1,736.
- 28 On Yerba Buena Island, Quarters 1-7 would be reused for conference and reception and
- 29 lodging. The number of jobs expected to be generated by publicly oriented uses on Yerba
- 30 Buena Island is 180.
- 31 Residential Uses
- 32 Alternative 3 proposes 143 acres (58 ha) of residential uses. On Treasure Island, approximately
- 33 900 existing housing units (as well as approximately 75 beds in barracks) would be reused, but
- 34 no new units would be constructed. Approximately 200 units of the existing housing units
- 35 would be made available to TIHDI for leasing. On Yerba Buena Island, approximately 100 units
- 36 would be reused, and about 70 housing units would be constructed by 2015. The number of
- 37 housing units associated with this alternative would be approximately 1,100.

1 Institutional and Community Uses

- 2 Alternative 3 proposes 43 acres (17 ha) of institutional and community uses on Treasure Island,
- 3 generating an estimated 276 jobs. Some of the same institutional and community facilities
- 4 identified under Alternative 1 would be retained under this alternative, such as the school, the
- 5 brig, the fire-fighting training school, and the fire station. A new police station would be
- 6 constructed on Treasure Island. The fire and police facilities, including an existing fire station
- 7 on Yerba Buena Island, would be staffed with fire, paramedic, and police personnel. The
- 8 existing wastewater treatment plant would continue to be used. This alternative would include
- 9 4 acres (1.5 ha) of warehouse use.

10 Open Space and Recreation Uses

- 11 Alternative 3 proposes 142 acres (57 ha) of open space and recreation uses. Similar to
- 12 Alternative 1, the shoreline open space would be widened to approximately 100 feet (30 m) and
- 13 would feature a bikeway and pedestrian path. Existing indoor recreation facilities, such as the
- 14 gym and fitness center, would become part of a larger sports facility. A series of open spaces
- would be created north of Building 1. The hillside open space extending to the water on Yerba
- 16 Buena Island's steep side, including interspersed native habitat, would remain as open space.

17 2.4.5 No Action Alternative

- 18 No action may be defined as the continuation of an existing plan, policy, or procedure or as
- 19 failure to implement an action. The No Action Alternative provides a benchmark to compare
- 20 the magnitude of the environmental effects of the various alternatives.
- 21 Under the No Action Alternative, Navy would retain ownership of NSTI. Except for existing
- 22 building leases, all buildings would remain vacant, and all other facilities would remain but
- 23 would be unused. Existing interim uses on NSTI include film production facilities, residential
- 24 housing, a marina, a fire-fighting school, special events and meeting center, warehouses, and
- 25 multipurpose office space. No new leases would be entered into under the No Action
- 26 Alternative, and existing leases would continue until they expire or are terminated.
- 27 The property would be held in an inactive or caretaker status, as discussed in Chapter 1. Navy
- 28 and San Francisco executed a cooperative agreement in April 1997 and amended it in
- 29 September 1997. Under this agreement, San Francisco is responsible for providing those
- 30 caretaker services. Site environmental cleanup would continue until completed. No
- 31 construction would occur under this alternative, except as allowed by existing lease
- 32 authorization. Approximately 50 persons are assigned to perform caretaker activities.

33 2.5 PREFERRED ALTERNATIVE

- 34 Navy has selected Alternative 1 as the preferred alternative because it best reflects the Draft
- 35 Reuse Plan, and would result in no significant unavoidable adverse effects.
- 36 NEPA also requires that an environmentally preferable alternative be identified. The No Action
- 37 Alternative would have no significant impacts, and for NEPA purposes it would be the
- 38 environmentally preferable alternative. However, the No Action Alternative would not meet



Figure 2-5

- the Navy's goals of property disposal and rapid economic recovery consistent with DBCRA
- 2 1990 and the Department of Defense Rule on Revitalizing Base Closure Communities-Base
- 3 Closure Community Assistance (DoD Rule) (32 C.F.R. Part 175 [1998]). It also would not be
- 4 consistent with former President Clinton's Five-Part Plan for Revitalizing Base Closure
- 5 Communities, which emphasizes local economic redevelopment of closing military facilities
- 6 and creation of new jobs as the means to revitalize these communities (32 C.F.R. Part 174
- 7 [1998]). The No Action Alternative would result in continued caretaker activities; therefore,
- 8 socioeconomic gains in terms of new jobs and increased revenue in the region would not be
- 9 realized.

10

15

16

2.6 PERMIT REQUIREMENTS AND RELATED COORDINATION

- 11 Approvals and permits would'be required for disposal and subsequent reuse of NSTI. Table
- 12 2-3 lists the federal, state, and local permits, policies, and actions that may be required and lists
- 13 the agencies that may use the information presented in the EIS to make decisions regarding
- 14 issuance of permits or approvals.

2.7 COMPARISON OF ALTERNATIVES, INCLUDING IMPACTS AND MITIGATION

- 17 NEPA requires that the EIS include a presentation of the alternatives in comparative form, to
- 18 define the issues and to provide a clear basis for choice among options by the decision-makers
- 19 and the public. Table 2-4 lists potential significant impacts and corresponding mitigation
- 20 measures for each alternative. Impacts that are not significant are described in Chapter 4 but
- 21 are not included on this table.
- 22 Navy cannot control reuse after the property is conveyed from federal ownership; therefore,
- 23 implementation of mitigation measures for reuse-related environmental impacts would be the
- 24 responsibility of the LRA and not the responsibility of Navy.
- 25 Implementation of suggested mitigation measures would reduce all impacts to a level below
- 26 significant except for impacts on cultural resources under Alternative 2. Implementation of
- 27 Alternative 2 would require demolition of Building 2 and Building 3 on Treasure Island,
- 28 buildings eligible for listing on the National Register of Historic Places (NRHP). This would
- 29 result in the loss of significant historic resources. This adverse effect can be lessened or reduced
- 30 by recording the affected resources to the standards of Historic American Buildings Survey
- 31 (HABS)/Historic American Engineering Record (HAER), but recordation would not eliminate
- 32 the adverse effect caused by the demolition of NRHP-eligible resources.

33

Table 2-3. Permits or Actions Potentially Required

| Issuing Agency | Permit or Action | Requirement |
|---|--|--|
| Permits Required Prior to Dispo | sal . | |
| U.S. Environmental Protection Agency; California Department of Toxic Substances Control | CERCLA, 42 U.S.C. §§ 9601-9675 | Requires deed that contains hazardous substance information and covenant warranting necessary remedial action has been taken or, in an early transfer, deferral with governor's approval. |
| San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) | Porter-Cologne Water Quality Control Act (Cal. Water Code §§ 13000-13999.19) | Compliance with remedial action plans relative to groundwater. |
| State Historic Preservation Officer/Advisory Council on History Preservation | National Historic Preservation Act, Section 106 Compliance, 16 U.S.C. § 470f (West 1985 & Supp. 1998) | Requires a memorandum of agreement to mitigate impacts to NSTI historic buildings. |
| Permits Related to Reuse/Respon | sibility of Local Reuse Authority | |
| San Francisco Bay Conservation and Development Commission | McAteer-Petris Act, Cal. Gov't Code §§ 66600-66682 (West 1997 & Supp. 1999) and San Francisco Bay Plan | Permit for fill, dredging, and construction in shoreline band. |
| U.S. Environmental Protection Agency; U.S. Army Corps of Engineers | Clean Water Act, Section 404, 33 U.S.C. § 1344 River and Harbors Act, Sections 9 and 10, 33 U.S.C. §§ 401, 403 | Permit required for discharging dredged material, placing fill and pilings in waters of the U.S. Permit required for construction in navigable waters of the U.S. |
| Bay Area Air Quality Management District | Permit to Construct and Permit to Operate | Depends on specific future construction/operation activities |
| U.S. Environmental Protection Agency; San Francisco Bay Regional Water Quality Control Board | National Pollutant Discharge Elimination System (NPDES) Permit under Clean Water Act Section 402, 33 U.S.C. § 1342 | Required for discharge of pollutants from any point source in waters of the U.S. and for stormwater discharges associated with industrial activity and from large and medium municipal storm sewer systems. US EPA must endorse NPDES permits issued by the RWQCB. |
| US Coast Guard | Aid to Navigation Permit | Permit required for navigational hazards. |
| City and County of San Francisco | EIR certification Adopt mitigation monitoring program General plan amendments Consistency with Priority Policies Building and demolition permits Redevelopment Plan adoption | Various permits and approvals required to accommodate proposed reuse development. |

2

Summary of Potential Significant Environmental Consequences and Mitigation Measures Table 2-4.

No impacts are expected. No impacts are expected. No Action Alternative No significant impacts No significant impacts are expected. are expected. as described for Alternative 1. measures would be the same Impact: Land use policy. Similar to that described for No significant impacts are No significant impacts are No significant impacts are Mitigation. Mitigation Alternative 3 Alternative 1. expected. expected. expected. on Treasure Island, both of No significant impacts are No significant impacts are involves the demolition of Building 2 and Building 3 Similar to that described (Page 1 of 16) resources. Alternative 2 measures would be the Impact: Land use policy. Mitigation. Mitigation same as described for which are eligible for listing on the NRHP. Alternative 2 Impact: Alteration or demolition of historic for Alternative 1. Alternative 1. expected. expected. reuse alternative and city policies, Impact: Land use policy. The zone it will be necessary to amend the include land use designations for required for Alternative 1 would consistency between the selected be inconsistent with the existing San Francisco General Plan to Island and Yerba Buena Island prior to approving future land surplus property on Treasure classifications that would be San Francisco General Plan No significant impacts are No significant impacts are No significant impacts are designation and zoning Alternative 1 Mitigation: To achieve classification. use actions. expected. expected. expected. Socioeconomics Resource Area Resources Resources Land Use Cultural Visual

Summary of Potential Significant Environmental Consequences and Mitigation Measures Table 2-4.

| | 3 | g | led. | |
|----------------|-----------------------|---|---|--|
| | No Artion Alternative | = | No impacts are expected. | |
| | Alternative 3 | | No significant impacts are expected for increased volumes and queuing on SFOBB/1-80 Yerba Buena Island westbound on-ramp (west side). | |
| (Page 2 of 16) | Alternative 2 | Mitigation: The irreversible loss of significant historic resources cannot be fully mitigated. HABS/HAER recordation would reduce but would not eliminate significant impacts caused by demolition. | No significant impacts are expected for increased volumes and queuing on SFOBB/I-80 Yerba Buena Island westbound on-ramp (west side). | |
| | Alternative 1 | • | Attenting on SFOBB/I-80 Yerba Buena Island westbound on-ramp (west side). Alternative 1 would result in peak-hour traffic volumes on the SFOBB/I-80 Yerba Buena Island westbound on-ramp on the west side of Yerba Buena Island that would exceed the current ramp capacity of 330 vph. The projected demand would result in a queue ranging from 7 vehicles (during the AM peak hour) to 239 vehicles (during the weekend midday peak hour). This queue would constrain vehicular circulation on the island. | Mitigation. SFOBB/I-80 Yerba Buena Island on-ramps are substandard by current Caltrans standards, primarily in acceleration/deceleration lengths, ramp radii, and sight distances. |
| | Resource Area | Cultural Resources (continued) | Transportation | |
| 2- | 30 | | Disposal and Reuse of Naval Station | n Treasure Island FEI |

| | | | | | | 2.0 |
|---------------------------------|----------------|----------------|---|--|--|-----|
| | ition Measures | | No Action Alternative | | | |
| | (Page 3 of 16) | | Alternative 3 | | | |
| Significant Environment | (Page 3 of 16) | Alternative 2 | | | 8 | |
| Table 2-4. Summary of Potential | Allernoting | Tacard I | increase ramp capacity and level of operation and decrease queuing impacts. However, upgrades to the on-ramps may be site (elevation change and bedrock) and structural limitations due to the constraints. | Implement measures, including signage and notices to residents, to encourage residents and visitors to use the second westbound on-ramp east of the Yerba Buena Island tunnel. | Redirecting traffic during the weekend midday peak hour to the second on-ramp east of the Yerba Buena Island tunnel would reduce the queue at the first westbound on-ramp. | |
| Tat | Resource Area | Transportation | | - C - C - C - C - C - C - C - C - C - C | Re rec | |

Summary of Potential Significant Environmental Consequences and Mitigation Measures

(Page 4 of 16)

| No Action Alternative | | | 2 | |
|-----------------------|---|--|--|--|
| Alternative 3 | | | | * 18 |
| Alternative 2 | 91 | A | | |
| Alternative 1 | Implement a Travel Demand Management (TDM) program to further reduce traffic generation during peak hours, especially during the weekend. | Implement additional or enhanced TDM measures, such as discounted ferry passes, flextime, public relations campaigns, and giving employees working on Treasure Island or Yerba Buena Island preferential access to housing on NSTI, to encourage ferry use or to encourage vehicletrips during the nonpeak period to reduce queues on both westbound on-ramps to tolerable levels. | Monitor NSTI ramp traffic volumes to ensure that the transportation goals and objectives established by the Draft Reuse Plan are successfully implemented. | Monitor NSTI bus transit demand on an annual basis (or at each phase of development) and ensure that planned services are implemented to meet or exceed demand. Implement a similar monitoring program for ferry demand. |
| Resource Area | Transportation (continued) | # W W W W W W W W W W W W W W W W W W W | ii: NV | |

Summary of Potential Significant Environmental Consequences and Miligation Measures Table 2-4.

| (Page 5 of 16) | Alternative 1 Alternative 2 Alternative 3 No Action Alternative | amp | SFOBBIL-80 Yerba density bound off-ramp ranes on the west side of ramp queue of 36No significant impacts are expected for increased expected for increased expected for increased expected for increased expected for increased volumes and queuing on SFOBB/I-80 Yerba Buena Island eastbound off-ramp (west side of rabout 700 feet (219 m)No impacts are expected. expected for increased volumes and queuing on SFOBB/I-80 Yerba Buena Island eastbound off-ramp (west side).Alternative I would practical capacity of rabout 700 feet (219 m)SFOBB/I-80 Yerba Buena Island eastbound off-ramp (west side).SFOBB/I-80 Yerba Buena Island eastbound off-ramp (west side). | Use traffic control such as signage, to eastbound motorists to ond Yerba Buena off- off-ramp on the east ba Buena Island). TDM and monitoring o reduce traffic |
|----------------|---|---|--|--|
| | Alternative 1 | Restripe the portion of Treasure Island Road between the Main Gate and the westbound on-ramp on the west side of the Yerba Buena Island tunnel from two lanes to accommodale three traffic lanes. | | Mitigation. Use traffic control measures, such as signage, to encourage eastbound motorists to use the second Yerba Buena off- ramp (the off-ramp on the east side of Yerba Buena Island). Implement TDM and monitoring measures to reduce traffic |
| | Resource Area | Transportation (continued) | | |

Summary of Potential Significant Environmental Consequences and Mitigation Measures Table 2-4.

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| | | (rage o or 16) | | |
|-------------------------------|---|--|--|--------------------------|
| Resource Area | Alternative 1 | Alternative 2 | Alternative 3 | No Action Alternative |
| Transportation (continued) | Impact: Increased volumes on SFOBB/I-80 Yerba Buena Island eastbound on-ramp (east side). Alternative 1 would result in substantial increases in traffic volumes during the weekend midday peak hour on the eastbound on-ramp on the eastbound on-ramp on the east side of Yerba Buena Island. While the increased volumes would be accommodated by the upgrade of this ramp as part of the SFOBB East Span project, it may create a secondary impact on potential traffic delays on SFOBB. | No significant impacts are expected for increased volumes on SFOBB/1-80 Yerba Buena Island eastbound on-ramp (east side). | No significant impacts are expected for increased volumes on SFOBB/1-80 Yerba Buena Island eastbound on-ramp (east side). | No impacts are expected. |
| | Mitigation: Caltrans should consider the installation of a ramp metering devise in the future if the added traffic onto this on-ramp would cause significant traffic delay on SFOBB mainline. | | | |
| ik. | Impact: Increased peak spreading on SEOBB/I-80. Under Alternative 1, increased traffic onto and off of the SFOBB during the AM peak period (6:30 to 9:30) and PM peak period (3:30 to 6:30) would cause westbound traffic on certain segments of the SFOBB to deteriorate from LOS D to LOS F during the last hour of the AM peak period (8:30 to 9:30) and to | Impact: Increased peak spreading on SFOBB/I-80. Under Alternative 2, increased traffic onto and off of the SFOBB during the AM peak period (6:30 to 9:30) and PM peak period (3:30 to 6:30) would cause westbound traffic on certain segments of the SFOBB to deteriorate from | Impact: Increased peak Spreading on SFOBB/I-80. Under Alternative 3, increased traffic onto and off of the SFOBB during the AM peak period (6:30 to 9:30) and PM peak period (3:30 to 6:30) would cause westbound traffic on certain segments of the SFOBB to deteriorate from LOS D to LOS F during | No impacts are expected. |
| | deteriorate from LOS B to LOS E | LOS D to LOS E or LOS F | the last hour of the AM peak | |

Summary of Potential Significant Environmental Consequences and Mitigation Measures Table 2-4.

June 2003

No impacts are expected. No Action Alternative as described for Allernative 1. measures would be the same period (8:30 to 9:30) and to LOS E or LOS F during the deteriorate from LOS B to Impact: Transit operations impact would be less than bus service to East Bay. The first hour of the PM peak Alternative 1 but would Mitigation. Mitigation remain significant but Alternative 3 that described under period (3:30 to 4:30). miligable. LOS F during the first hour impact would be similar to of the PM peak period (3:30 during the last hour of the Impact: Transit operations bus service to East Bay. The AM peak period (8:30 to from LOS B to LOS E or (Page 7 of 16) 9:30) and to deteriorate measures would be the Mitigation. Mitigation same as described for that described under Alternative 2 Alternative 1. Alternative 1. to 4:30). bus service between NSTI and the or LOS F during the first hour of the PM peak period (3:30 to 4:30). determined that traffic from NSTI is constraining the capacity of the service to East Bay. Lack of direct additional developments should improvements are implemented TDM and transit improvements SFOBB, either more aggressive Impact: Transit operations - bus East Bay is a significant and Miligation. Monitor traffic volumes at each phase of must be implemented or development and if it is Alternative 1 be delayed until such mitigable impact. Transportation Resource Area (continued)

Summary of Potential Significant Environmental Consequences and Mitigation Measures

age 8 of 16)

| | No Action Alternative | | No impacts are expected. | No impacts are expected. |
|----------------|-----------------------|--|--------------------------------------|--------------------------------------|
| | Alternative 3 | Mitigation: Mitigation measures would be the same as described for Alternative 1. However, at build-out, bus service would need to be at 20-minute headways throughout the day during weekdays and 15-minute headways throughout the day during weekends. | No significant impacts are expected. | No significant impacts are expected. |
| (Fage 8 of 16) | Alternative 2 | Mitigation: Mitigation measures would be the same as described for Alternative 1. However, at build-out, bus service would need to be at 15-minute headways throughout the day during both weekdays and weekends. | No significant impacts are expected. | No significant impacts are expected. |
| | Alternative 1 | Mitigation: Establishing direct transit service between NSTI and the East Bay would mitigate this impact to a not significant level. Bus service would need to be at 10-minute headways (the interval between the trips of 2 successive vehicles) throughout the day during the weekday and at 15-munite headways throughout the day during the weekend. Monitor NSTI bus transit demand on an annual basis (or at each phase of development) and ensure that planned services are implemented to meet or exceed demand. Implement TDM measures to encourage transit rather than auto use. | No significant impacts are expected. | No significant impacts are expected. |
| | Resource Area | (continued) | Air Quality | Noise |

Summary of Potential Significant Environmental Consequences and Mitigation Measures

| | No Action Alternative | No impacts are expected. | |
|----------------|-----------------------|---|---|
| | Alternative 3 | Impact: Mudflat Habitat Disturbance. The impacts on mudflat habitat associated with pedestrians and boating activity would be reduced from that described for Alternative 1 but would remain significant but mitigable. | Mitigation: Mitigation measures would be the same as described for Alternative 1. |
| (Page 9 of 16) | Alternative 2 | sensitive mudflat habitat. The impacts on mudflat habitat associated with pedestrians and boating activity would be similar, but reduced, from that described for Alternative 1. Pedestrian impacts would be approximately half of Alternative 1 while boating traffic impacts would be approximately 20 percent higher than Alternative 1. | Mitigation. Mitigation measures would be the same as described for Alternative 1. |
| | Alternative 1 | Impact: Mudflat Habitat Disturbance. Significant impacts to mudflat habitat, including eelgrass beds, may occur as a result of increased pedestrian and boating activity around Clipper Cove. Expanding the marina or constructing a yacht harbor, new docks, or other structures that would cover the surface of the water would impact Waters of the United States but would require a permit from the BCDC and the COE. | Mitigation: Minimize disturbance to sensitive habitats during construction. Prepare and implement a plan to minimize disturbance of sensitive habitats due to recreational activity. Permittee could be required to post signs along the shore adjacent to the mudflats and at the marina to inform pedestrians and recreational boaters that the mudflats are a protected sensitive area and that trespassing is not permitted. Buoys could be placed in the bay to identify the restricted mudflat area. A 5-mph (8 kph) zone could be established in Clipper Cove to minimize shoreline and mudflat |
| | Resource Area | See of Naval Station Treasure Is | e |

Summary of Potential Significant Environmental Consequences and Mitigation Measures Table 2-4.

(Page 10 of 16)

| | No Action Alternative | (0) | No impacts are expected. |
|-----------------|-----------------------|--|--|
| | Alternative 3 | | Impact: Pedestrian and Boating Impacts on Wading Shorebirds. Increased pedestrian and boating activity around Clipper Cove could have a significant impact on shorebirds by affecting mudflats and eelgrass beds where shorebirds forage. These impacts are likely to be reduced under Alternative 3 as there would be less of an increase in boating traffic compared with Alternative 1. |
| (Fage 10 of 16) | Alternative 2 | 8 | Boaling Impacts on Wading Shorebirds. Increased pedestrian and boating activity around Clipper Cove could have a significant impact on shorebirds by affecting mudflats and eelgrass beds where shorebirds forage. Pedestrian impacts would be approximately half of Alternative 1 while boating traffic impacts would be approximately 20 percent higher than Alternative 1. |
| | Alternative 1 | erosion. Any impacts related to construction or fill would be addressed during the COE Section 404 permitting process. | Impact: Pedestrian and Boating Impacts on Migratory Birds. Increased pedestrian and boating activity around Clipper Cove could have a significant impact on shorebirds by affecting mudflats and eelgrass beds where shorebirds forage. |
| | Resource Area | Biological Resources (continued) | |

Summary of Potential Significant Environmental Consequences and Mitigation Measures Table 2-4.

No impacts are expected. No Action Alternative as described for Alternative 1. as described for Alternative 1. activity around Clipper Cove significant impact on EFH, as measures would be the same mpact: Pedestrian and Boating measures would be the same and along the perimeter of Impacts on EFH. Increased the islands could have a pedestrian and boating Mitigation. Mitigation Mitigation. Mitigation Alternative 3 described under Alternative 1. the perimeter of the islands Increased pedestrian and Clipper Cove and along (Page 11 of 16) boating activity around could have a significant measures would be the measures would be the Boating Impacts on EFH. Mitigation. Mitigation Mitigation. Mitigation same as described for same as described for Impact: Pedestrian and Alternative 2 impact on EFH, as described under Alternative 1. Alternative 1. Alternative 1. provide important fish spawning. pedestrians and boaters that the Mitigation. Proposed mitigation zone in Clipper Cove could also sensitive area. Placing buoys in the bay, identifying the mudflal Mitigation. In conjunction with adjacent to the mudflats and at establishing a five-mph (8 kph) measures are the same as those permitting by COE and BCDC, permittee could be required to Impacts on EFH. Increased boal and pedestrian activity around rearing, and foraging habitat. mudflats are a protected and indirect significant impact on Impact: Pedestrian and Boating water and mudflat areas that vegetated areas and shallow Clipper Cove could have an discussed under impacts to EFH by degrading eelgrass post signs along the shore Alternative 1 the marina, informing mudflat habitat above. area as restricted, and reduce impacts. Resource Area (continued) Biological Resources

Summary of Potential Significant Environmental Consequences and Mitigation Measures Table 2-4.

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| | No Action Alternative | No impacts are expected. | |
|------------------|-----------------------|---|--|
| | Alternative 3 | Impact: Exposure of individuals and property to liquefaction. Seismically induced liquefaction could result in ground disturbances associated with lateral spreading and differential settlement. | Mitigntion: Mitigation measures would be the same as described for Alternative 1. |
| (1 48c 17 01 10) | Alternative 2 | Impact: Exposure of individuals and property to liquefaction. Seismically induced liquefaction could result in ground disturbances associated with lateral spreading and differential settlement. | Mitigation: Mitigation measures would be the same as described for Alternative 1. |
| | Alternative 1 | Impact: Exposure of individuals and property to liquefaction. Seismically induced liquefaction could result in ground disturbances associated with lateral spreading and differential settlement. | Mitigation. A zone of "improved ground" would be created around the perimeter of the island to reduce lateral spreading. Interior island areas shall be similarly improved to reduce large differential settlement. All sensitive structures (e.g., buildings greater than three stories, buildings intended for public occupancy, structures supporting essential services, and buildings housing schools, medical, police, and fire facilities) shall be supported on pile systems or other specially designed foundations. Detailed geotechnical studies shall be completed in accordance with San Francisco requirements for individual development sites. |
| | Resource Area | Geology and Soils | |

Summary of Potential Significant Environmental Consequences and Mitigation Measures Table 2-4.

No impacts are expected. No Action Alternative as described for Alternative 1. Impact: Exposure of individuals high tides. The impact would measures would be the same be similar to that described and property to ponding from Alternative 3 Mitigation: Mitigation for Alternative 1. No significant impacts are expected from exposure of individuals and property (Page 13 of 16) to ponding from high Alternative 2 feet (152 m) of the Treasure Island Impact: Exposure of individuals and property to ponding from high tides. portions of the residential area to Geodetic Vertical Datum (NGVD) occupants, visitors, and property seepage through the dike during miligate this impact. In addition, development in low-lying areas other low-lying areas within 500 on Treasure Island would result The installation of residential perimeter should be similarly prior to development would Mitigation: Filling low-lying at least 9 feet (3 m) National filled before development is to ponding hazards due to in increased exposure of Alternative 1 some high tide events. Resource Area Resources Water

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Summary of Potential Significant Environmental Consequences and Mitigation Measures Table 2-4.

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| | | 1 | $\overline{}$ | |
|-----------------------|---|---|--------------------------------------|--------------------------------------|
| No Action Albernatina | No impacts are expected. | | No impacts are expected. | No impacts are expected. |
| Allernative 3 | Impact: Exposure of individuals and property to flooding. Alternative 3 could subject occupants, visitors, and property to substantial flooding hazards throughout Treasure Island. | Mitigation: Mitigation measures would be the same as described for Alternative 1. | No significant impacts are expected. | No significant impacts are expected. |
| Alternative 2 | Impact: Exposure of individuals and property to flooding. This alternative would subject residents and daily visitors on the northern half of Treasure Island, where a golf course is proposed, to existing flood hazards. Flood hazards on the southern portion of the site would be similar to those described for Alternative 1. | Mitigation: Mitigation measures would be the same as described for Alternative 1. | No significant impacts are expected. | No significant impacts are expected. |
| Alternative 1 | Impact: Exposite of individuals and property to flooding. Developing and reusing Treasure Island under Alternative 1 could expose occupants, visitors, and property to flooding hazards caused by dike overtopping during storms. | Mitigation: Set back development inboard of the perimeter dike to allow room for periodic dike raising without substantially increasing Bay fill. Raise the dike as necessary to account for site settlement, changes in maximum tidal heights, and rises in sea levels. In addition, inspect the dike after each major storm to identify repair needs, and repair the dike promptly. | No significant impacts are expected. | No significant impacts are expected. |
| Resource Arm | Water Resources (continued) | [*8 | Utilities | Public Services |

Summary of Potential Significant Environmental Consequences and Mitigation Measures

| | | (rage 15 of 16) | | |
|-------------------------------------|--|--|---|--------------------------|
| Resource Area | Alternative 1 | Alternative 2 | Alternative 3 | No Action Alternative |
| Hazardous Materials and Waste | Impact: Installation Restoration Program (IRP). Construction activities at NSTI associated with future development of the housing unit area, including demolition of existing structures, may interfere with remedial actions under CERCLA. | Impact: Installation Restoration Program (IRP). Development of a golf course in the northern part of the island would involve demolition of existing structures and the grading and reconfiguring of the soil, which may interfere with remedial | Impact: Installation Restoration Program (IRP). If subsequent redevelopment of the housing area involving demolition of existing structures and the grading and reconfiguring of the soil were to occur, it may interfere with remedial actions conducted under CERCLA. | No impacts are expected. |
| | Mitigation. The Navy is in the process of implementing various remedial actions at NSTI pursuant to and in accordance with the requirements of CERCLA and the NCP that will remove, manage, or isolate any potentially hazardous substances present on the property prior to conveyance. These remedial actions will ensure that human health and the environment will be protected based on the land uses specified in the Draft Reuse Plan. If the CERCLA remedy for a particular site includes land use controls, the acquiring entity or entities will be required to comply with the land use controls during construction or operations to ensure continued protection of human health and the | Mitigation measures would be the same as described for Alternative 1. | Mitigation. Mitigation measures would be the same as described for Alternative 1. | |
| | environment. | | | 16 |

Summary of Potential Significant Environmental Consequences and Mitigation Measures Table 2-4.

1

No Action Alternative Alternative 3 (Page 16 of 16) Alternative 2 including compliance with a City-Subsequent redevelopment of the oversight. Adherence to land use not subject to remediation efforts potentially significant impacts to an acceptable level. In addition, deeds conveying the plan that would require soil and possible response actions subject notice that areas of the property affected property will contain a additional characterization and reconfiguring of the soil would structures and the grading and administered soil management (such as areas beneath existing involve demolition of existing requirements would mitigate groundwater disturbance be likely be subject to land use permitted subject to proper housing area which would foundations) may require to appropriate regulatory controls on the property, controls and regulatory Alternative 1 characterization and management. Materials and Resource Area (continued) Hazardous Waste