

# Analysis of Alternatives

## 6.1 Introduction

This chapter presents a comparison of alternatives to the proposed Project. Various Project alternatives were considered during preparation of this Draft EIR. CEQA requires that an EIR present a range of reasonable alternatives to the proposed Project. Accordingly, the proposed Project and seven alternatives that either meet most of the proposed Project objectives and purpose and need statement, as required by CEQA, have been analyzed in this Draft EIR to provide sufficient information and meaningful detail about the environmental effects of each alternative, so that informed decision-making can occur.

The seven Project alternatives include:

- Alternative 1 – Reduced Project: Water Quality Improvements
- Alternative 2 – Reduced Project: Limited Demolition
- Alternative 3 – Retention of Historic Buildings
- Alternative 4 – Relocation of Historic Buildings
- Alternative 5 – Alternate Site
- Alternative 6 – No Project
- Alternative 7 – No Federal Action

## 6.2 Project Alternatives

### 6.2.1 Requirements for Alternatives

CEQA requirements for an EIR to evaluate alternatives are described fully in Section 1.6.7. Briefly, the CEQA Guidelines, Section 15126.6, require that an EIR present a range of reasonable alternatives to the proposed Project, or to the location of the project, that could feasibly attain most of the basic project objectives, but would avoid or substantially lessen any significant effects of the project. The range of alternatives required in an EIR is governed by a “rule of reason” that requires an EIR to set forth only those alternatives necessary to permit a reasoned choice. An EIR need not consider every conceivable alternative to a project. Rather, the alternatives must be limited to ones that meet the Project objectives, are ostensibly feasible, and would avoid or substantially lessen at least one of the significant environmental effects of the proposed Project (CEQA Guidelines, Section 15126.6[f]). The EIR must also identify the environmentally

1 superior alternative other than the No Project Alternative. Alternatives may be  
2 eliminated from detailed consideration in the EIR if they fail to meet most of the Project  
3 objectives, are infeasible, or do not avoid or substantially lessen any significant  
4 environmental effects (CEQA Guidelines, Section 15126.6[c]).

## 5 **6.2.2 Project Objectives and Project Alternative Selection** 6 **Criteria**

7 The basic purpose of the proposed Project is to improve the safety and efficiency of  
8 marine ship building, expand the maintenance and repair capabilities of the operation,  
9 modernize the site in order to comply with existing and future water quality regulations,  
10 update the ALBS NPDES and WDR permits, and take advantage of the opportunity to  
11 remove landside contaminated soils for disposal off-site and contaminated bottom  
12 sediment in Fish Harbor for use in the CDFs.

13 The identification by the Port of a reasonable range of alternatives factors in the legal  
14 mandates of the Port. The objectives of the proposed Project are as follows:

- 15 • Place ALBS in compliance with its WDR and NPDES requirements by re-  
16 contouring the site, removing three existing marine railways and constructing a  
17 stormwater collection and treatment system.
- 18 • Demolish existing wharfs, piers and buildings/structures to allow for the  
19 subsequent creation and use of two CDF cells, which will sequester contaminated  
20 sediment and expand use of the boat shop.
- 21 • Dredge sediment to accommodate deeper draft vessels, remove contaminated  
22 sediment to improve water quality, and promote regional sediment management  
23 objectives by beneficially reusing dredged material to create two CDFs.
- 24 • Remove buildings/structures in order to modernize and reconfigure the facility,  
25 to optimize and expand the existing boat shop operation at the present location  
26 and continue to meet a regional need for marine vessel repair.
- 27 • Replace aging infrastructure and construct new office space to support  
28 operations.
- 29 • Clean-up site legacy contaminants from the historical use of the site as a boat  
30 shop, including contaminants located beneath existing pavement and buildings.
- 31 • Enter a 30-year lease renewal between ALBS and LAHD changing the facility's  
32 leasehold from 7.7 acres (2.35 acres of land and 5.35 acres of water) to 7.3 acres  
33 (4.1 acres of land and 3.2 acres of water).

## 34 **6.2.3 Alternatives Considered**

35 This document presents a reasonable range of alternatives pursuant to CEQA. The  
36 LAHD defines a reasonable range of alternatives in light of its legal mandates under the  
37 Port of Los Angeles Tidelands Trust (Los Angeles City Charter, Article VI, Sec. 601), the  
38 California Coastal Act (PRC Div 20 §30700 et seq.), and LAHD's leasing policy (LAHD,  
39 2006a). The Port is one of only five locations in the state identified in the California  
40 Coastal Act for the purposes of international maritime commerce (PRC Div 20 §30700  
41 and §30701). These mandates identify the Port and its facilities as a primary  
42 economic/coastal resource of the state and an essential element of the national maritime

1 industry for promotion of commerce, navigation, fisheries, environmental preservation,  
2 and public recreation. In developing an appropriate range of alternatives, the starting  
3 point is the proposed Project's objectives.

4 Seven alternatives are analyzed in this Draft EIR. The seven alternatives meet a majority  
5 of the proposed Project's objectives and would reduce at least one potentially significant  
6 impact of the proposed Project. This chapter presents a description of these seven  
7 alternatives. The analysis of alternatives need not be as in-depth as the analysis for the  
8 proposed Project, but should be at a level that allows the decision-maker to make an  
9 informed determination regarding the differences in impacts between the proposed  
10 Project and each of its alternatives. Table 6-1 is a brief summary of the proposed Project  
11 elements associated with the alternatives analyzed (detailed in Chapter 2, Project  
12 Description, beginning in Section 2.5.1).

1 **Table 6-1: Summary of Project Elements Associated with the Alternatives**

Project Element	Alternative 1 – Reduced Project – Water Quality Improvements	Alternative 2 – Reduced Project” Limited Demolition	Alternative 3 – Retention of Historic Buildings	Alternative 4 – Relocation of Historic Buildings	Alternative 5 – Alternate Site	Alternative 6 – No Project	Alternative 7 – No Federal Action
Comply with NPDES/ WDR	Yes - change site drainage and install oil/ water separator	Yes	Yes	Yes	Yes	No	Yes - change site drainage and install oil/water separator
Dredging contaminated sediment and creation of CDFs	No	Yes	Yes	Yes	Yes (at ALBS site) – but no CDFs would be created.	Yes – but no CDFs would be created.	No
Remove three marine railways and construct concrete piers for new boat hoists	No	Yes - one or more of Buildings A2, A3, or C1 will be retained	Yes - limited use due to turning radius limitations	Yes	Yes - marine railways would be removed at ALBS site. New pier would be constructed at alternative site.	Partial – marine railways would be removed. No new pier would be constructed.	No
Optimize and modernize space through removal of historic buildings	No	Partial - limited use due to turning radius limitations	No	Yes - relocation of 3 historic structures to the San Pedro or Wilmington Waterfront	Yes - relocation of historic buildings to alternate site; removal of buildings (some potentially historic) at the alter. site.	Yes – historic structures would be removed to bring site back to pre-lease conditions	No
Remove landside legacy contamination	No	Partial – no clean up under remaining building(s)	Partial - no clean up under remaining buildings	Yes	Yes - required to bring site back to pre-lease conditions	Yes - required to bring site back to pre-lease conditions	No
Replace infrastructure (lighting, pavement, etc) and construct new office	No	Partial – some new infrastructure but no office building)	No	Partial – some new infrastructure but no office building)	Yes	No	Yes
30-year lease renewal	Yes - but no new area	Yes	Yes	Yes	Yes - but for a different location	No	Yes - but no new area
Return site to pre-lease conditions (nothing on site)	No	No	No	No	Yes	Yes	No

### 6.2.3.1 Alternative 1- Reduced Project: Water Quality Improvements

Under this alternative, ALBS would not implement any of the proposed improvements on the Project site. However, in order to comply with the Los Angeles RWQCB requirements and remain in operation, ALBS would implement measures on the site to redirect water away from Fish Harbor. ALBS would place dikes around existing buildings, dikes along the wharf edges, and/or change the slope of the site so stormwater runoff would drain away from Fish Harbor into an oil/water separator before discharge. Under this alternative, ALBS would remain in operation on the site under a new 30-year lease for the existing site. The new lease term would begin in 2012.

As compared to the proposed Project, this alternative would retain the existing development footprint on the site, as no buildings would be demolished/relocated and/or reconstructed on the Project site. The three marine railways would remain. Although not mandated by the Los Angeles RWQCB for removal, these three marine railways could affect the ALBS sites ability to meet its long-term water quality requirements. The land and water leasehold would remain the same, and no CDFs would be constructed. Site soils would not be disturbed and none of the existing soil contamination would be removed. Should the slope of the site be changed to alter drainage, this would involve adding new pavement on top of the existing pavement so as not to disturb the soils.

This alternative would reduce the amount of construction materials, construction vehicle emissions, and construction noise, and it would eliminate grading and earthwork and in-water construction activities. In addition, the impacts to the potentially historic resources on the site would not occur. This alternative would also shorten the construction time in comparison to the proposed Project. Minor changes to the existing operations would occur due to impediments from the dikes and berms.

#### 6.2.3.1.1 Alternative 1 Objectives Analysis

This alternative would satisfy very few Project objectives. This alternative would only implement measures on the site to redirect water away from Fish Harbor (by placing dikes around buildings, berms around the wharfs edges, or changing the slope of the site), thus meeting the objective to improve site drainage to comply with current and future environmental requirements, including NPDES stormwater regulations. However, with the three marine railways remaining, it is unclear if the ALBS site could meet its long-term water quality requirements. Operation would occur under a new 30-year lease, with the new lease term would begin in 2012; however, the lease would involve the existing site and no new land would be created or added to the lease.

This alternative would not include any development of the site, including the installation of the 600- and 100-ton boat hoists. As a result, this alternative would not result in the modernization of the existing boat yard facilities, including the replacement of aging infrastructure with newer, state-of-the-art equipment. In addition, Alternative 1 would not optimize the existing boat shop location by increasing the site's efficiency and the land-area available to increase vessel maintenance and repair capacity.

No dredging would occur under this alternative. As a result, the navigable capacity of the facility would not be restored, and the sediments that have accumulated above the design depth of -22 feet MLLW would remain.

As Alternative 1 would not include site grading or earthwork, on-site legacy contaminants would not be removed and placed into CDF cells. The soil contaminants

1           beneath the Project site and within the sediments in Fish Harbor would remain and would  
2           continue to contribute to the poor water quality in Fish Harbor, and the CDFs would not  
3           be constructed as a way to store contaminated materials and create more land area on the  
4           site.

5           The potentially historic buildings would remain on the site under this alternative. The  
6           impacts on potentially historic buildings would be eliminated under this alternative.

7           While this alternative would provide for ALBS compliance with the NPDES/WDR  
8           requirements, it would not be ideal due to the lack of improvements needed to safely and  
9           efficiently utilize the site. The existing operations would not be upgraded and  
10          modernized to allow a greater number of vessels (and deeper draft vessels) to be repaired  
11          at the facility. The legacy contaminants, both on the landside and within the water,  
12          would not be removed. Thus, the sediments would continue to adversely impact the  
13          water quality in Fish Harbor and would not be beneficially reused to create the CDF and  
14          additional land space on the site.

### 15   **6.2.3.2       Alternative 2 – Reduced Project: Limited Demolition**

16          This alternative would be very similar to the proposed Project; however, not all of the  
17          three potentially historic buildings (A2, A3, or C1) would be demolished. Most of the  
18          other Project components would be constructed/implemented (i.e., drainage  
19          improvements, soil clean-up, dredging, 100-ton boat hoist, and CDFs). However, due to  
20          the retention of some of the potentially historic buildings, some of these components  
21          would not be implemented to their fullest extent, or, as is the case with the 600-ton boat  
22          hoist, not implemented at all (due to reduced clearance as a result of the retention of  
23          buildings). In particular, the clean-up of landside legacy contaminants would not fully  
24          occur, as some of the potentially historic buildings would remain (i.e., contaminated soils  
25          beneath the buildings and asbestos from the buildings themselves would remain).  
26          Further, the maneuverability and versatility of the boat hoists would be limited due to site  
27          constraints. No new structures would be constructed on the site, since some of the  
28          potentially historic buildings would remain available for reuse. However, as many of the  
29          structures have asbestos, any physical disturbance (i.e., such as related to reuse) or  
30          demolition of buildings could require asbestos abatement.

31          Under this alternative, impacts on operations would differ with the choice of which  
32          buildings to retain. The retention of any of the historic buildings would limit the ability  
33          of ALBS to modernize and expand the site.

34          This alternative would reduce the amount of construction materials, resources,  
35          construction vehicle emissions and noise, earthwork and grading, and demolition work  
36          when compared to the proposed Project. However, under Alternative 2, the operational  
37          capacity of ALBS would be constrained by access issues posed by the remaining  
38          building. Operation would occur under a new 30-year lease for the new area. The new  
39          lease term would begin in 2012.

### 40   **6.2.3.2.1     Alternative 2 Objectives Analysis**

41          This alternative would meet several of the Project objectives. Under this alternative, the  
42          site would comply with its WDR and NPDES requirements and clean up legacy  
43          contaminants. In addition, this alternative would result in the retention of only one or  
44          two of the potentially historic buildings proposed for demolition under the proposed  
45          Project, which would result in fewer impacts to historic resources as compared to the  
46          proposed Project, but would also reduce the modernization and optimization of the site.

1 Alternative 2 would allow for some increased capacity at the ALBS site. Although, to  
2 what extent would depend on which structures are retained. The retention of any of the  
3 historic buildings slated for demolition would impair the ability of ALBS to modernize  
4 and expand the site to the extent planned under the proposed Project. Retention of  
5 Building C1 would reduce the space available for the boat hoists from approximately 112  
6 feet to 70 feet. The 600-ton boat hoist has an effective width (boat hoist width plus  
7 clearance) of 59 feet with a turning radius of 93 feet for the outside wheel and 33 feet for  
8 the inside wheel (see Figure 6-1). This would preclude the 600-ton hoist from accessing  
9 the ALBS backland and land area created by the construction of the Phase 2 CDF.  
10 Retention of Building A2 will result in a 36-foot corridor between Building A2 and  
11 Marine Railway 4 rendering the Phase 2 CDF inaccessible to the larger boat hoist.  
12 Retention of Building A3 will provide only a 58-foot corridor, again making the Phase 2  
13 CDF inaccessible to the larger boat hoist.

14 In any situation, this alternative would limit the operational capacity on the site; however,  
15 any operational increase would be to a lesser degree than the proposed Project. Further,  
16 retention of a potentially historic building would constrain the opportunities to redesign  
17 the site to fully and most effectively comply with NPDES requirements, upgrade the  
18 existing infrastructure, constructing a new modern office space, and it would reduce the  
19 ability to clean up site legacy containments from beneath the existing pavement and  
20 buildings.

21 This alternative would not be ideal due to the restricted nature of the improvements.

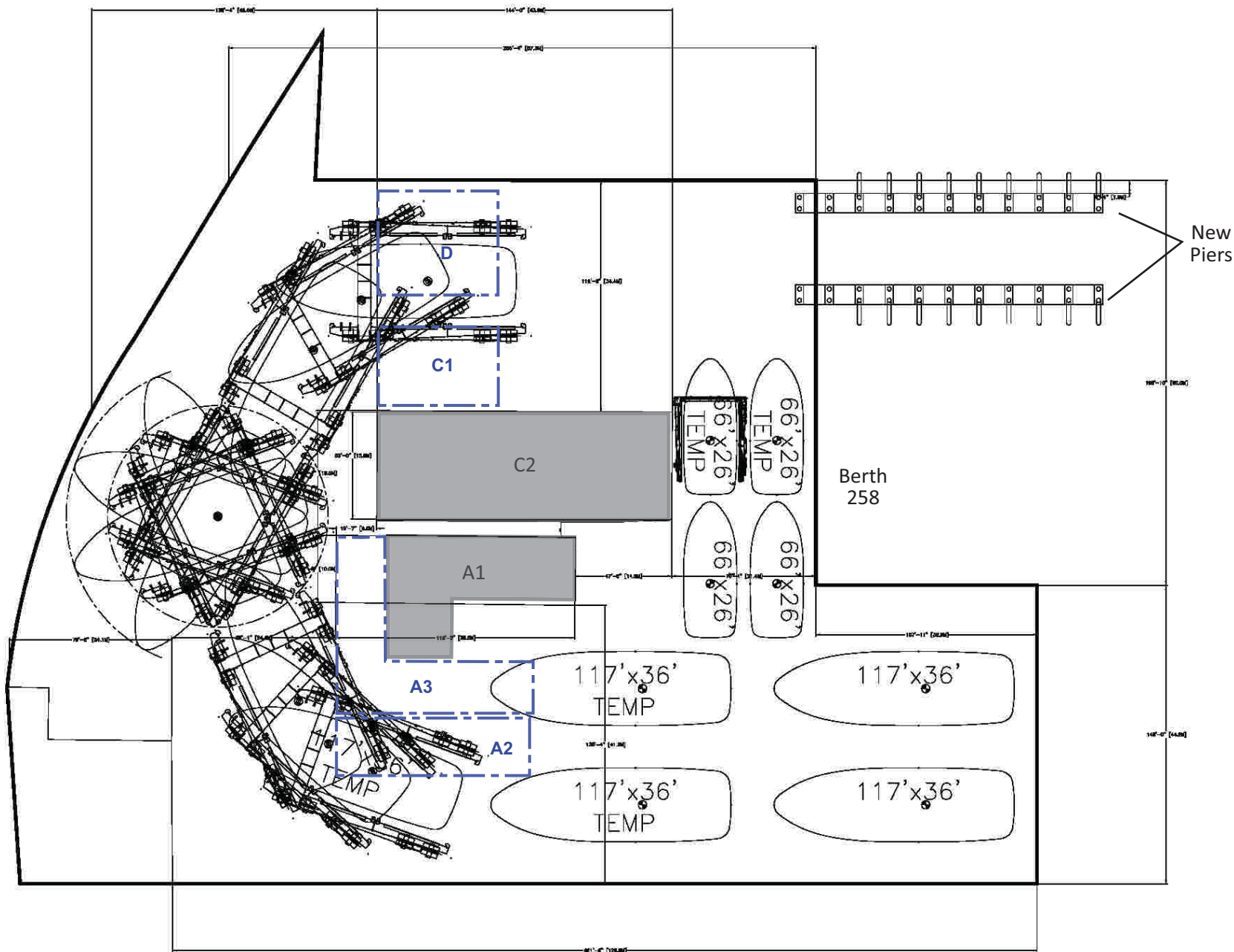
### 22 **6.2.3.3 Alternative 3 - Retention of Historic Buildings**

23 This alternative would contain most of the elements of the proposed Project; however,  
24 none of the potentially historic buildings (A2, A3, and C1) would be demolished. No  
25 new structure would be constructed on the site, since the historic buildings would remain.  
26 As compared to the proposed Project, this alternative would reduce the development of  
27 the site by not demolishing/relocating any of the potentially historic buildings.

28 Because this alternative would retain the potentially historic structures, this alternative  
29 would reduce the amount of construction materials, resources, construction vehicle  
30 emissions and noise, earthwork and grading, and demolition work when compared to the  
31 proposed Project. The increase in land area as a result of the CDF units would allow for  
32 a minimal increase in ALBS operations, however, to a lesser degree than the proposed  
33 Project as retention of the potentially historic buildings would prevent the site from  
34 operating at maximum efficiency. Operation would occur under a new 30-year lease for  
35 the new area. The new lease term would begin in 2012.

#### 36 **6.2.3.3.1 Alternative 3 Objectives Analysis**

37 This alternative would meet some of the Project objectives, notably allowing the site to  
38 comply with its WDR and NPDES requirements and includes partial clean up of legacy  
39 contaminants (i.e., sediments within Fish Harbor). The potentially historic structures  
40 would remain on the site, so impacts to the potentially historic structures would be  
41 completely eliminated under this alternative. However, because the existing historic  
42



Legend

- Buildings to be demolished
- Buildings to remain





1 buildings would not be demolished or relocated, implementation of this alternative would  
2 neither result in the complete modernization of the existing boat yard facilities nor  
3 provide for the same level of operational efficiency that would occur under the proposed  
4 Project. Further, retention of a potentially historic building would constrain the  
5 opportunities to redesign the site to fully and most effectively comply with NPDES  
6 requirements, upgrade the existing infrastructure, and would reduce the ability to clean up  
7 site legacy containments from beneath the existing pavement and buildings.

8 As discussed under Alternative 2, the retention of any of the historic buildings would  
9 impair the ability of ALBS to modernize and expand the site to the extent planned under  
10 the proposed Project. Retention of Building C1 would reduce the space available for the  
11 boat hoists from approximately 112 feet to 70 feet. The 600-ton boat hoist has an  
12 effective width (boat hoist width plus clearance) of 59 feet with a turning radius of 93  
13 feet for the outside wheel and 33 feet for the inside wheel (see Figure 6-1). This would  
14 preclude the 600-ton hoist from accessing the ALBS backland and land area created by  
15 the construction of the Phase 2 CDF. Retention of Building A2 will result in a 36-foot  
16 corridor between Building A2 and Marine Railway 4 rendering the Phase 2 CDF  
17 inaccessible to the larger boat hoist. Retention of Building A3 will provide only a 58-  
18 foot corridor, again making the Phase 2 CDF inaccessible to the larger boat hoist.

19 This alternative would not be ideal due to the restricted nature of the improvements. In  
20 order to meet the operational needs of ALBS, including access to the existing facilities as  
21 well as the proposed 600- and 100-ton boat hoists, the potentially historic structures need  
22 to be removed. The removal of the structures is also necessary to allow for adequate  
23 clean up of legacy landside contamination.

#### 24 **6.2.3.4 Alternative 4 – Relocation of Historic Buildings**

25 This alternative would be the same as the proposed Project; however, all of the  
26 potentially historic buildings slated for demolition would be moved to another location  
27 within the Port. The relocation site would be one of two redevelopment project sites  
28 within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront project  
29 (see Figure 6-2). Relocation to either of the redevelopment project sites would be  
30 consistent with the Port's "Procedures to Implement the Real Estate Leasing Policy,"  
31 which incorporates long-range facility planning and objectives in the two redevelopment  
32 project areas (LAHD, 2006b).

33  
34 All of the components of the proposed Project would be constructed under this  
35 alternative, as all of the potentially historic buildings slated for demolition would be  
36 removed from the site. Because the potentially historic structures would be removed, the  
37 site would be able to accommodate all of the components of the proposed Project. The  
38 amount of construction materials and the actual construction process would remain the  
39 same as the proposed Project. More construction related air emissions and noise  
40 emissions would occur under this alternative due to the relocation of one or more of the  
41 potentially historic structures. Impacts would occur beyond the boundaries of the  
42 existing Project site under this alternative. Operation would occur under a new 30-year  
43 lease. The new lease term would begin in 2012.

44



#### 6.2.3.4.1 Alternative 4 Objectives Analysis

This alternative would meet all of the Project objectives. Under this alternative, the site would comply with its WDR and NPDES requirements, clean up legacy contaminants, and allow for the modernization and optimization of the site.

Although all of the potentially historic structures slated for demolition would be relocated, the actual relocation process would result in a loss in the integrity of the structures. Thus, under this alternative, impacts on historic resources would be reduced, but not eliminated.

This alternative would not be ideal because overall environmental impacts would be greater than the proposed Project. Under this alternative, the operational capacity of ALBS would be the same as the proposed Project because the potentially historic structures would be removed. However, this alternative would not be ideal because of the complexity and resulting high cost to relocate the potentially historic structures. The buildings have a frame structure and would need to be partially disassembled to be moved. The reassembly of the buildings would likely require improvements to meet current building standards and correct any damage that occurring during disassembly. The new site would require reinforced concrete foundations, reinforced concrete slab on grade and site development documents similar to what a new building would require (geotechnical report, design documents, permitting documents, building site permitting documents) and structural drawings. It is estimated that the approximate cost for disassembly and re-assembly at another site of Buildings C1, A2 and A3 could be as much as \$12 million (refer to Appendix D3 – Structural Assessment Memorandum). The total cost for the proposed Project is estimated at \$13 to \$16 million; therefore, relocation would increase total cost of this alternative by as much as approximately 75 percent.

In addition, the relocation of the potentially historic structures would result in a loss of integrity of the structures and this would compromise the structure's historic significance.

#### 6.2.3.5 Alternative 5 – Alternate Site

This alternative would construct and operate the ALBS at a different location elsewhere within the Port under a new 30-year lease for the alternate site. LAHD has identified four possible alternate sites, which are shown on Figure 6-3. Each alternate site is similar in size as the existing ALBS site. Two sites are located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue with vessel access from the Main Channel (former Southwest Marine shipyard), and the fourth site is on the mainland, off the East Basin. ALBS would operate on one of the alternate sites at the same level and capacity as the proposed Project. Each alternate site has varying levels of development within its boundaries, which could impact potential ALBS operations at each of the four potential sites. Demolition of existing buildings would be required at each of the alternate sites. Three of the possible alternate sites currently contain historic resources that would be impacted by the relocation of ALBS facilities to one of these sites.

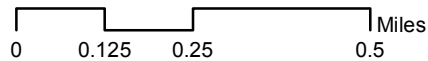
Under this alternative, ALBS would need to construct facilities on the alternate site. In order to operate at a different location at levels desired under the proposed Project, it is assumed that the boat shop would require the relocation or replacement of a majority of the existing equipment, including finger piers (for new boat hoists) and new marine





**Legend**

Potential Relocation Site



**Port of Los Angeles  
Al Larson Boat Shop  
Improvement Project  
Alternate Locations  
Figure 6-3**



1 railways. In order for this alternative to be considered in reducing impacts on historic  
2 resource, it is assumed that operation at alternate location also includes the relocation of  
3 all the potentially historic structures at the existing site (Buildings A1, A2, A3, C1 and  
4 C2).

5 Under this alternative, ALBS would not renew its existing lease at the Project site and  
6 would be required to return the site to its pre-lease conditions, meaning all remaining  
7 structures would be demolished and legacy contaminants within the landside soils would  
8 have to be cleaned. Dredging and removal of legacy contaminants within the sediments  
9 under the water surface would occur at the existing site. No CDFs would be created and  
10 instead the dredge material would be hauled off-site to a licensed landfill. It is assumed  
11 that no dredging would occur at the new site. Returning the existing ALBS site to pre-  
12 lease conditions would also include the elimination of the flow of runoff from Seaside  
13 Avenue through the site into Fish Harbor.

14 Impacts would occur beyond the boundaries of the existing Project site under this  
15 alternative. Operation would occur at the alternate site under a new 30-year lease. The  
16 new lease term would begin in 2012.

#### 17 **6.2.3.5.1 Alternative 5 Objectives Analysis**

18 This alternative would meet several of the Project objectives with the exception of clean  
19 up legacy contaminants located in the sediments under the water surface

20 Under Alternative 5, operations would move to a new site and ALBS would attempt to  
21 operate at levels similar to the proposed Project under a new 30-year lease for the  
22 alternate site. Because each of the four alternate sites are developed and the existing  
23 structures would have to be demolished or worked into the functionality of the site, each  
24 site could have different operational limitations.

25 Because of the demolition that would likely be required at both the existing ALBS and at  
26 the alternate site, and relocation of five potentially historic buildings, this alternative  
27 would result in a much greater amount of construction materials and resources used,  
28 construction vehicle emissions and noise, earthwork and grading, and demolition work  
29 when compared to the proposed Project. Under this alternative, environmental impacts  
30 would occur at two sites, instead of one. In addition, this alternative would result in a  
31 greater impact on potentially historic resources as three of the four alternate sites  
32 currently contain potentially historic structures that would be impacted by the relocation  
33 of ALBS facilities. Relocation of all five potentially historic structures on the ALBS site  
34 would maintain a portion of the structures historic significance because the building  
35 complexes would remain intact and continue to be part of the future boat shop location;  
36 however, this alternative would be cost prohibitive. As noted under Alternative 4, the  
37 estimated cost for disassembly and re-assembly at another site of three of the five  
38 buildings (Buildings C1, A2, and A3) could be as much as \$12 million and relocation of  
39 the other two buildings would add to that estimate (costs could be as much as doubled).  
40 The total cost for the proposed Project is estimated at \$13 to \$16 million; therefore,  
41 relocation would increase total cost of this alternative would be more than the total cost  
42 of the proposed Project. Although by relocating all five of the potentially historic  
43 structures (both building complexes) there would be less of a loss of integrity of the  
44 structures and less of a compromise in the structure's historic significance of the ALBS  
45 buildings, other potentially historic structures and their integrity and significance would  
46 be compromised. Additionally, depending on the site size and layout, relocating all of  
47 the potentially historic buildings could result in site constraints limiting the  
48 maneuverability of the boat hoists. It would also limit the ability of ALBS to modernize

1 operations and replace aging infrastructure. For these reasons, this alternative is  
2 infeasible.

### 3 **6.2.3.6 Alternative 6 – No Project Alternative**

4 This alternative considers what would reasonably be expected to occur on the Project site  
5 if no future discretionary actions were to occur. Under this alternative, no development  
6 would occur on the site and no other action would be taken by the tenant to bring the site  
7 into compliance with the applicable surface water quality standards.

8 Currently, ALBS has a revocable permit and month to month lease with the LAHD to  
9 operate on the site. ALBS is required to implement improvements to bring the site into  
10 compliance with the current NPDES permit, including the establishment of site-specific  
11 management processes for minimizing storm water runoff containing pollutants from  
12 being discharged into surface water and ensuring that the stormwater discharges from the  
13 facility would neither cause, nor contribute to, the exceedance of water quality standards  
14 and objectives, nor create conditions of nuisance in the receiving water. Without  
15 implementation of measures to ensure compliance with the NPDES permit, ALBS would  
16 be forced to cease operation.

17 Upon cessation of the existing operation on the site, ALBS would be required to clear the  
18 site, including contaminated soil and sediment, and return it to its original condition.  
19 This site would then be available for use consistent with its zoning: shipbuilding/ship  
20 repair facilities, light manufacturing and industrial activities, or ocean resource-oriented  
21 industries.

#### 22 **6.2.3.6.1 Alternative 6 Objectives Analysis**

23 Because none of the proposed improvements would be made, and the ALBS would cease  
24 operations after approximately 87 years at the present location, this alternative would not  
25 meet any of the Project objectives with the exception of clean up of landside  
26 contaminated soils.

27 Under this alternative, most of the impacts would be less than the proposed Project.  
28 However, the impacts related to clearing the site of current operations would occur,  
29 including impacts related to construction air quality, noise, water quality, and hazardous  
30 materials. In addition, the potentially historic structures on the site would have to be  
31 relocated or demolished under this alternative, in order to return the site to its pre-lease  
32 conditions. Removal of the structures would result in a significant and unavoidable  
33 impact on potentially historic resources. As part of returning the site to pre-lease  
34 conditions, once the buildings have been removed landside contaminated soil would be  
35 excavated and removed off-site.

36 Dredging and removal of legacy contaminants within the sediments under the water  
37 surface would occur, however, no CDFs would be created. The dredge material would be  
38 hauled off-site to a licensed landfill. Runoff from Seaside Avenue would continue to  
39 flow through the site into Fish Harbor.

40 This alternative is infeasible in that it would require the cessation of ALBS operations  
41 within the Port, while including significant and unavoidable impacts on air quality and  
42 historic resources.

### 43 **6.2.3.7 Alternative 7 – No Federal Action**

44 This alternative represents what would reasonably be expected to occur in the foreseeable  
45 future if the USACE Permit were not approved. Under the No Federal Action

1 Alternative, there would be no dredging, no CDF construction (no removal of historical  
2 sediment and soil contamination), and no construction of the concrete piers for the 600-  
3 and 100-ton boat hoists. However, the landside construction could occur and a new lease  
4 would be issued to ALBS for the existing lease area. Operation would occur at the  
5 alternate site under a new 30-year lease for the existing site. The new lease term would  
6 begin in 2012.

#### 7 **6.2.3.7.1 Alternative 7 Objectives Analysis**

8 This alternative would only meet a few of the Project objectives. This alternative would  
9 only implement landside improvements, including those improvements required to meet  
10 NPDES stormwater regulations. Improvements would be made that would bring the  
11 operation into compliance with the NPDES stormwater requirements. As a result, ALBS  
12 would be able to enter into a new 30-year lease.

13 In addition, the landside aging infrastructure would be improved, including the  
14 replacement of paving, lighting, and utilities. The potentially historic structures would  
15 also be removed under this alternative.

16 This alternative would not include any of the proposed development on the site that  
17 involves impacting the water, including the installation of the 600- and 100-ton boat  
18 hoists. As a result, this alternative would not result in the complete modernization of the  
19 existing boat yard facilities, including the replacement of aging infrastructure with newer,  
20 state-of-the-art equipment. In addition, because the majority of the proposed  
21 development would not occur, it would not optimize the existing boat shop location by  
22 increasing the land available for use in order to safely increase shipbuilding and vessel  
23 maintenance and repair capacity.

24 No dredging would occur under this alternative. As a result, the navigable capacity of the  
25 facility would not be restored and the sediments that have accumulated above the design  
26 depth of -22 feet MLLS would remain. ALBS would not be able to serve larger vessels  
27 without dredging.

28 As only landside improvements would occur under this alternative, Project site legacy  
29 contaminants in the sediments under the water surface (within Fish Harbor) would not be  
30 removed and placed into CDF cells. The contamination would thereby continue to  
31 contribute to a degradation of water quality in Fish Harbor.

32 Impacts under this alternative would be less than the proposed Project, as less  
33 construction would occur in conjunction with implementation of the alternative. Impacts  
34 on air quality and noise, in particular, would be reduced. However, impacts on the  
35 potentially historic resources would be similar to the proposed Project, as the potentially  
36 historic structures would be demolished under this alternative. In addition, the beneficial  
37 impacts on water quality and hazardous materials would not occur as the maintenance  
38 dredging would not occur and legacy contaminants in the sediments under the water  
39 surface in Fish Harbor would not be cleaned up. For these reasons, and the fact that this  
40 alternative would meet very few of the Project objectives, this alternative is infeasible.

#### 41 **6.2.3.8 Summary of Alternatives**

42 Table 6-2 is a comparison of the proposed Project and the seven Project alternatives and  
43 their capabilities of accomplishing the Project objectives, as well as their potential to  
44 avoid or substantially reduce significant impacts to historical resources.

1 **Table 6-2: Comparison of Proposed Project and Alternatives to the Project Objectives**

Project Alternative	Does Alternative Avoid or Substantially Lessen Impacts to Potentially Historical Resources?	Key Project Objectives						
		Place ALBS in compliance with its WDR and NPDES requirements by re-contouring the site, removing three existing marine railways and constructing a stormwater collection and treatment system.	Demolish existing wharfs, piers and buildings/structures to allow for the subsequent creation and use of two CDF cells, which will sequester contaminated sediment and expand use of boat shop.	Dredge sediment to accommodate deeper draft vessels, remove contaminated sediment to improve water quality, and promote regional sediment management objectives by beneficially reusing dredged material to create two CDFs.	Remove buildings/structures in order to modernize and reconfigure the facility, to optimize and expand the existing boat shop operation at the present location and continue to meet a regional need for marine vessel repair.	Replace aging infrastructure and construct new building to support improved operations.	Clean-up site legacy contaminants from the historical use of the site as a boat shop, including contaminants located beneath existing pavement and buildings.	Enter a 30-year lease renewal between ALBS and LAHD changing the facility's leasehold from 7.7 acres (2.35 acres of land and 5.35 acres of water) to 7.3 acres (4.1 acres of land and 3.2 acres of water).
Proposed Project	NO	YES	YES	YES	YES	YES	YES	YES
Alternative 1 - Reduced Project: Water Quality Improvements	YES	Partial	NO	NO	NO	NO	NO	NO
Alternative 2 - Reduced Project: Limited Demolition	Partial	YES	YES	YES	Partial	NO	Partial	Partial
Alternative 3 - Retention of Historic Buildings	YES	YES	YES	YES	Partial	NO	NO	YES
Alternative 4 - Relocation of Historic Buildings	NO	YES	YES	YES	YES	YES	YES	YES
Alternative 5 - Alternate Site	NO	YES	NO	NO	NO	YES	YES	Partial
Alternative 6 – No Project	NO	NO	NO	NO	NO	NO	YES	NO
Alternative 7 - No Federal Action	NO	Partial	NO	NO	NO	NO	NO	NO

2

3



## 6.3 Impacts Analysis of Project Alternatives

Section 3 of the Draft EIR analyzes the potential impacts associated with the construction and operation of the proposed Project for the 13 environmental resource areas. As with the proposed Project, several of the alternatives have significant and unavoidable impacts for at least one of the three significant and unavoidable environmental resources (Air Quality, Meteorology, and Greenhouse Gases, Cultural Resources, and Noise). One of the environmental resources evaluated (Biological Resources) has potentially significant impacts that can be mitigated to a less than significant level for all of the alternatives with water construction. As with the proposed Project, the remaining nine environmental resource areas (Aesthetics and Visual Resources, Geology, Groundwater and Soils, Hazards and Hazardous Materials, Land Use, Population and Housing, Public Services and Utilities, Traffic and Transportation, and Water Quality, Sediments, and Oceanography) have less than significant impacts associated with the alternatives.

The discussion below describes the impacts for each of the resources and identifies to which alternative the impacts apply.

### 6.3.1 Alternative Impact Analysis Summary

Table 6-3 presents a summary of the results of the analysis for the resource areas that involve significant unavoidable impacts or potentially significant impacts that can be mitigated to a less than significant level associated with one or more of the alternatives. Section 6.3.2 identifies and discusses in detail the alternatives that would result in significant unavoidable impacts. Resources with significant impacts that can be mitigated to less than significant are discussed in Section 6.3.3. The nine resource areas with less than significant impacts (not requiring any mitigation) are not listed in the tables below as their impacts are similar or less than the proposed Project and, therefore, do not require ranking in Table 6-4. However, these resources are discussed in more detail in Section 6.3.4.

**Table 6-3: Summary of Significant Impacts by Alternative**

Environmental Resource Area*	Proposed Project	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7
Air Quality	S	S	S	S	S	S	S	S
Biological Resources	M	L	M	M	M	M	L	L
Cultural Resources	S	N	S	N	S	S	S	S
Noise	S	L	S	S	S	S	L	L

Notes:

\*Only environmental resources with unavoidable significant impacts or significant but mitigable impacts are included in the table and the analysis used to rank alternatives; the analysis includes project-level impacts, not cumulative effects.

S = Unavoidable significant impact

M = Significant but mitigable impact

L = Less than significant impact (not significant)

N = No impact

1 Table 6-4 ranks the alternatives on the basis of a comparison of their environmental  
 2 impacts with those of the proposed Project. The ranking is based on the significance  
 3 determinations for each resources area, as discussed in Chapter 3, Environmental  
 4 Analysis, and the qualitative analysis below, and reflects differences in the levels of  
 5 impact among alternatives. This ranking also takes into consideration the relative  
 6 number of significant impacts that are mitigated to a level below significance, the number  
 7 of impacts that remain significant after mitigation, and the relative intensity of impacts.  
 8 As shown in Table 6-4, Alternative 1 - Reduced Project: Water Quality Improvements, is  
 9 the environmentally superior alternative because it would impact fewer resources.

**Table 6-4: Comparison of Alternatives to the Proposed Project**

Environmental Resource Area*	Alt 1	Alt 2	Alt 3	Alt 4	Alt 5	Alt 6	Alt 7
Air Quality	-2	-1	-1	-1	+1	-1	-1
Biological Resources	-1	0	0	0	0	-1	-1
Cultural Resources	-2	-1	-2	-1	-1	0	0
Noise	-2	-1	-1	+1	0	-2	-2
<b>Total</b>	<b>-7</b>	<b>-3</b>	<b>-4</b>	<b>+1</b>	<b>0</b>	<b>-4</b>	<b>-4</b>

Notes:

\*

(-2) = Impact considered to be substantially less when compared with the proposed Project.

(-1) = Impact considered to be somewhat less when compared with the proposed Project.

(0) = Impact considered to be equal to the proposed Project.

(1) = Impact considered to be somewhat greater when compared with the proposed Project.

(2) = Impact considered to be substantially greater when compared with the proposed Project.

Where significant unavoidable impacts would occur across numerous alternatives but there are impact intensity differences between those alternatives, decimal points are used to differentiate alternatives (i.e., in some cases, there are differences at the individual impact level, such as differences in number of impacts or relative intensity).

10

## 11 **6.3.2 Resources with Significant Unavoidable Impacts**

12 As noted above, the resource areas Air Quality, Meteorology, and Greenhouse Gases,  
 13 Cultural Resources and Noise, would result in both unavoidable and significant impacts,  
 14 as analyzed in Chapter 3, Environmental Analysis, for the proposed Project and following  
 15 is a qualitative analysis for each alternative:

### 16 **6.3.2.1 Air Quality, Meteorology, and Greenhouse Gases**

#### 17 **6.3.2.1.1 Proposed Project**

18 Proposed Project construction activities would involve the use of off-road construction  
 19 equipment, on-road trucks, tugboats, and dredging equipment. Because these sources  
 20 would primarily use diesel fuel, they would generate emissions of diesel exhaust in the  
 21 form of VOC, CO, NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub> and PM<sub>2.5</sub>. In addition, off-road construction  
 22 equipment traveling over unpaved surfaces and performing earthmoving activities such as  
 23 site clearing or grading would generate fugitive dust emissions in the form of PM<sub>10</sub> and  
 24 PM<sub>2.5</sub>. Building demolition activities would also generate fugitive dust emissions. Site  
 25 paving activities would generative fugitive emissions of VOCs. Worker commute trips  
 26 would generate vehicle exhaust and paved road dust emissions.

1 Construction-related emissions would vary substantially depending on the level of  
 2 activity, length of the construction period, specific construction operations, types of  
 3 equipment, number of personnel, wind and precipitation conditions, and soil moisture  
 4 content.

5 Construction of the proposed Project is anticipated to commence in 2012 and last for  
 6 approximately three years. Phase 1 would last approximately one year, employing  
 7 approximately 30 people. Phase 2 would last approximately six to ten months and would  
 8 employ 30 people. Phase 3 would last approximately six months and would employ 20  
 9 people. Construction would take place on the site Monday through Friday (with some  
 10 Saturdays) from 7:00 am until 3:30 pm. Operation of the proposed Project would occur  
 11 under a new 30-year lease. The new lease term would begin in 2012.

### 12 6.3.2.1.2 Alternative 1 – Reduced Project: Water Quality Improvements

#### 13 *Construction*

14 Construction of measures on the site to meet Los Angeles RWQCB requirements would  
 15 involve off-road equipment and limited earth-moving activities. However construction  
 16 activities would be substantially reduced from proposed Project construction and would  
 17 be less likely to exceed a SCAQMD threshold for criteria pollutant emissions.

18 The limited construction activity required for Alternative 1 would generate substantially  
 19 less emissions of CO, VOC, NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> as compared to the proposed  
 20 Project. Table 6-5 presents unmitigated Alternative 1 peak daily emissions. Unmitigated  
 21 peak daily emissions, while less than the proposed Project, would exceed the SCAQMD  
 22 NO<sub>x</sub> threshold for construction emissions, and are therefore significant. Emissions of all  
 23 other criteria pollutants would not exceed SCAQMD thresholds in any phase.

24  
**Table 6-5: Peak Daily Emissions Associated with Alternative 1 – Reduced Project: Water Quality Improvements – Without Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Alternative 1 Construction</b>						
Civil Construction	14	61	113	<1	12	6
<b>Alternative 1 Impact<sup>b,d</sup></b>	<b>14</b>	<b>61</b>	<b>113</b>	<b>&lt;1</b>	<b>12</b>	<b>6</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

Notes:

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

25

26

1 To reduce the level of impact during construction, Mitigation Measures **MM AQ-1**  
 2 **through MM AQ-6** would be applied. After mitigation, construction emissions shown  
 3 in Table 6-6 would be less than significant.

**Table 6-6: Peak Daily Emissions Associated with Alternative 1 – Reduced Project: Water Quality Improvements – With Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Alternative 1 Construction</b>						
Civil Construction	5	55	77	<1	6	4
<b>Alternative 1 Impact<sup>b,d</sup></b>	5	55	77	<1	6	4
Thresholds	75	550	100	150	150	55
Significant?	No	No	No	No	No	No

Notes:

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

4 Ambient air concentrations would be anticipated to be significant for Federal 1-hour NO<sub>2</sub>  
 5 NAAQS based off the relative emissions shown for the proposed Project in Table 3.2-11  
 6 and the emissions shown for Alternative 1 in Table 6.6 above.

7 *Operation*

8 There would be no increase in operational emissions under Alternative 1 (current  
 9 operations would continue). The new 600- and 100-ton boat hoists would not be installed  
 10 and the dredging would not occur, therefore the capacity of the boat shop would remain  
 11 the same, and the number of boats repaired would not be expected to increase as a result  
 12 of Alternative 1 improvements. In addition, ALBS would not be able to accommodate  
 13 larger vessels because dredging would be required to accommodate the larger vessels.  
 14 Operational emissions impacts (Alternative 1 minus the baseline) would be zero and  
 15 therefore there would be no impacts under this alternative.

16 *Health Risk*

17 Proposed Project health risk impacts shown in Table 3.2-18 are driven by construction  
 18 emissions, specifically dredging for acute impacts. Construction emissions would need  
 19 to be reduced by approximately 60 percent to eliminate these impacts. The residential  
 20 cancer risk significant impact in Table 3.2-18 is caused by diesel PM emissions, which  
 21 would be anticipated to be reduced sufficiently in Alternative 1 to remove this impact due  
 22 to the substantially reduced construction activity under Alternative 1. In addition, the  
 23 acute residential and occupational risks would similarly be anticipated to be less than  
 24 significant under Alternative 1 due to the reduction in dredging emissions.

25

### *Greenhouse Gas Emissions*

Emissions from Alternative 1 operations would be identical to the existing boat shop; therefore the impact for all GHGs would be zero. However the limited construction activities would emit GHGs and therefore Alternative 1 GHG emissions would be greater than zero and impacts would be significant. Impacts under this alternative would be less than the proposed Project.

To reduce the emission of GHGs during construction, Mitigation Measures **MM AQ-1 through MM AQ-6** would be applied. While Mitigation Measures **MM AQ-1 through MM AQ-6** would be applied to Alternative 1 construction, GHG emissions would continue to be greater than zero. After mitigation, GHG emissions from construction would therefore remain significant and unavoidable.

### **6.3.2.1.3 Alternative 2 – Reduced Project: Limited Demolition**

#### *Construction*

Alternative 2 peak daily emissions are similar to the proposed Project emissions with the exception of building demolition, which would occur during the peak day for the proposed Project, but not for Alternative 2. The limited construction activity required for Alternative 2 would not generate substantially less emissions of CO, VOC, NO<sub>x</sub>, SO<sub>x</sub>, PM<sub>10</sub>, or PM<sub>2.5</sub> as compared to the proposed Project. Table 6-7 presents Alternative 2 peak daily emissions.

Peak daily emissions shown in Phases 1 through 3 would exceed the SCAQMD NO<sub>x</sub> threshold for construction emissions and Phase 2 would exceed the SCAQMD VOC threshold for construction emissions. Emissions of all other criteria pollutants would not exceed SCAQMD thresholds in any phase.

**Table 6-7: Peak Daily Emissions Associated with Alternative 2 - Without Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Marine Construction	19	73	200	<1	9	7
Civil Construction	6	25	57	<1	4	3
Building Demolition	0	0	0	0	0	0
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>25</b>	<b>98</b>	<b>258</b>	<b>&lt;1</b>	<b>13</b>	<b>10</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 2 Construction</b>						
Marine Construction	13	49	126	<1	6	5
Civil Construction	74	287	852	1	65	41
Building Demolition	2	12	18	<1	1	1
<b>Peak Daily Phase 2 Impact<sup>b,d</sup></b>	<b>89</b>	<b>349</b>	<b>997</b>	<b>1</b>	<b>72</b>	<b>47</b>
Thresholds	75	550	100	150	150	55
Significant?	<b>Yes</b>	No	<b>Yes</b>	No	No	No
<b>Phase 3 Construction</b>						
Marine Construction	0	0	0	0	0	0
Civil Construction	29	114	285	<1	15	9
Building Demolition	0	0	0	0	0	0
<b>Peak Daily Phase 3 Impact<sup>b,d</sup></b>	<b>29</b>	<b>114</b>	<b>285</b>	<b>&lt;1</b>	<b>15</b>	<b>9</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

1  
2  
3

To reduce the level of impact during construction, Mitigation Measures **MM AQ-1 through MM AQ-6** would be applied. With implementation of these mitigation measures, emissions from construction activities would remain significant for NO<sub>x</sub> in all phases. These mitigation measures would be implemented by the responsible parties identified in Section 3.2.4.5. Table 6-8 presents the maximum daily criteria pollutant emissions associated with construction of Alternative 2, after mitigation, which shows NO<sub>x</sub> levels would remain significant. Impacts would therefore be significant and unavoidable during construction for NO<sub>x</sub>.

**Table 6-8: Peak Daily Emissions Associated with Alternative 2 - With Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Marine Construction	17	73	194	<1	8	7
Civil Construction	1	13	19	<1	1	1
Building Demolition	0	0	0	0	0	0
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>19</b>	<b>86</b>	<b>213</b>	<b>&lt;1</b>	<b>10</b>	<b>8</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 2 Construction</b>						
Marine Construction	12	49	125	<1	6	5
Civil Construction	18	99	264	1	31	10
Building Demolition	2	12	17	<1	1	1
<b>Peak Daily Phase 2 Impact<sup>b,d</sup></b>	<b>32</b>	<b>160</b>	<b>406</b>	<b>1</b>	<b>38</b>	<b>16</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 3 Construction</b>						
Marine Construction	0	0	0	0	0	0
Civil Construction	12	82	130	<1	9	7
Building Demolition	0	0	0	0	0	0
<b>Peak Daily Phase 3 Impact<sup>b,d</sup></b>	<b>12</b>	<b>82</b>	<b>130</b>	<b>&lt;1</b>	<b>9</b>	<b>7</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

1 Ambient air concentrations before and after mitigation would be nearly identical to the  
2 proposed Project concentrations discussed in Section 3.2.4.3, Tables 3.2-14 and 3.2-15.  
3 Ambient air concentrations would be significant for 1-hour NO<sub>2</sub> and peak daily PM<sub>10</sub> and  
4 PM<sub>2.5</sub>. While the application of Mitigation Measures **MM AQ-1 through MM AQ-6**  
5 would reduce emissions from Alternative 2 construction, ambient concentrations would  
6 remain significant and unavoidable for NO<sub>2</sub>, PM<sub>10</sub> and PM<sub>2.5</sub>.

#### 7 *Operation*

8 Alternative 2 operations would be similar to the proposed Project, and the impacts would  
9 be comparable to the proposed Project impacts. Section 3.2.4.3, Table 3.2-16 presents  
10 the operational emissions associated with the proposed Project. Operational emissions  
11 would be less than significant for all criteria pollutants and no mitigation is required. As  
12 shown in Table 3.2-17, proposed Project operations would generate significant off-site  
13 ambient air pollutant concentrations for 1-hour NO<sub>2</sub> and peak daily PM<sub>10</sub> and PM<sub>2.5</sub>. As  
14 with the proposed Project, the main source of NO<sub>x</sub> emissions from the ALBS is the air  
15 compressors used during spray coating operations. The air compressors must be portable  
16 and cannot feasibly be replaced with electric units and no other feasible methods to  
17 reduce emissions were identified. As a result, no mitigation measures are proposed to  
18 reduce NO<sub>2</sub> emissions. Therefore, operational emissions of 1-hour NO<sub>2</sub> and peak daily  
19 PM<sub>10</sub> and PM<sub>2.5</sub> would remain significant and unavoidable.

#### 20 *Health Risk*

21 Proposed Project health risk impacts shown in Table 3.2-18 are driven by construction  
22 emissions. A major source of acute risk is dredging equipment. The residential cancer  
23 risk significant impact in Table 3.2-18 is caused by diesel PM emissions, which would  
24 not be anticipated to be reduced sufficiently in Alternative 2 to remove this impact. After  
25 application of Mitigation Measures **MM AQ-1 through MM AQ-6**, impacts would be  
26 similar to those shown in Table 3.2-21 for the proposed Project. Therefore, after  
27 mitigation, the residential cancer risk and the residential and occupational acute hazard  
28 indices remain significant and unavoidable for construction activities.

#### 29 *Greenhouse Gases*

30 Alternative 2 GHG construction emissions would be similar, but slightly less than the  
31 GHG emissions for the proposed Project shown in Section 3.2.4.3, Table 3.2-22.  
32 Alternative 2 operational GHG emissions would be the same as for the proposed Project  
33 shown in Table 3.2-23. While Mitigation Measures **MM AQ-1 through MM AQ-10**  
34 would be applied to Alternative 2 construction and operations, GHG emissions would  
35 still be greater than the baseline. No other GHG-related mitigation measures are applied  
36 to proposed Project operations. Therefore after mitigation, GHG emissions from  
37 construction and operations would therefore remain significant and unavoidable.

### 38 **6.3.2.1.4 Alternative 3 – Retention of Historic Buildings**

#### 39 *Construction*

40 This alternative would retain both potentially historic buildings on the site, thus reducing  
41 the amount of demolition required as part of Project construction. Building demolition is  
42 not assumed to be part of the peak daily emissions for proposed Project or proposed  
43 Project without impacts on the potentially historic buildings. However under Alternative  
44 3 there would be less building construction which would decrease the amount of



1 construction emissions generated during Phase 3 compared to the proposed Project.  
 2 Maximum emissions for each construction phase were determined by totaling the daily  
 3 emissions from those construction activities that overlap in the proposed construction  
 4 schedule.

5 Peak daily emissions shown in Table 6-9 for Phase 1, Phase 2, and Phase 3 would exceed  
 6 the SCAQMD NO<sub>x</sub> threshold and Phase 2 would exceed the SCAQMD VOC threshold  
 7 for construction emissions. Emissions of all other criteria pollutants would not exceed  
 8 SCAQMD thresholds in any phase.

**Table 6-9: Peak Daily Emissions Associated with Alternative 3 – Retention of Historic Buildings Construction Activities – Without Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Marine Construction	19	73	200	<1	9	7
Civil Construction	6	25	57	<1	4	3
Building Demolition	0	0	0	0	0	0
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>25</b>	<b>98</b>	<b>258</b>	<b>&lt;1</b>	<b>13</b>	<b>10</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 2 Construction</b>						
Marine Construction	13	49	126	<1	6	5
Civil Construction	74	287	852	1	65	41
Building Demolition	2	12	18	<1	1	1
<b>Peak Daily Phase 2 Impact<sup>b,d</sup></b>	<b>89</b>	<b>349</b>	<b>997</b>	<b>1</b>	<b>72</b>	<b>47</b>
Thresholds	75	550	100	150	150	55
Significant?	<b>Yes</b>	No	<b>Yes</b>	No	No	No
<b>Phase 3 Construction</b>						
Marine Construction	0	0	0	0	0	0
Civil Construction	25	99	257	<1	19	13
Building Demolition	0	0	0	0	0	0
<b>Peak Daily Phase 3 Impact<sup>b,d</sup></b>	<b>25</b>	<b>99</b>	<b>257</b>	<b>&lt;1</b>	<b>19</b>	<b>13</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

1 To reduce the level of impact during construction Mitigation Measures **MM AQ-1**  
 2 **through MM AQ-6** would be applied. After mitigation, construction emissions shown  
 3 in Table 6-10 for NO<sub>x</sub> in Phases 1, 2 and 3 would remain significant and unavoidable.

**Table 6-10: Peak Daily Emissions Associated with Alternative 3 – Retention of Historic Buildings Construction Activities – With Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Marine Construction	17	73	194	<1	8	7
Civil Construction	1	13	19	<1	1	1
Building Demolition	0	0	0	0	0	0
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>19</b>	<b>86</b>	<b>213</b>	<b>&lt;1</b>	<b>10</b>	<b>8</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 2 Construction</b>						
Marine Construction	12	49	125	<1	6	5
Civil Construction	18	99	264	1	31	10
Building Demolition	2	12	17	<1	1	1
<b>Peak Daily Phase 2 Impact<sup>b,d</sup></b>	<b>32</b>	<b>160</b>	<b>406</b>	<b>1</b>	<b>38</b>	<b>16</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 3 Construction</b>						
Marine Construction	0	0	0	0	0	0
Civil Construction	9	68	103	<1	7	5
Building Demolition	0	0	0	0	0	0
<b>Peak Daily Phase 3 Impact<sup>b,d</sup></b>	<b>9</b>	<b>68</b>	<b>103</b>	<b>&lt;1</b>	<b>7</b>	<b>5</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

4  
 5 The ambient air concentrations for Alternative 3 would be less than the proposed Project  
 6 concentrations shown in Table 3.2-14 and 3.2-15, but would still be significant for 1-hour  
 7 NO<sub>2</sub> and daily PM<sub>10</sub> and PM<sub>2.5</sub> concentrations. Although emissions and subsequently  
 8 ambient air concentrations would be reduced with mitigation, impacts would be  
 9 significant and unavoidable for 1-hour NO<sub>2</sub>, and 24-hour PM<sub>10</sub> and PM<sub>2.5</sub>.

10

### *Operation*

The operational air quality emissions under this alternative would be less than the proposed Project. Under this alternative, there would not be enough room on the Project site to operate the 600-ton boat hoist. In addition, because one or two of the existing historic buildings proposed for demolition under the proposed Project would not be demolished or relocated under Alternative 3, implementation of this alternative would not result in the complete modernization of the existing boat shop facilities and would not provide for the same level of operational efficiency that would occur under the proposed Project. As a result, the boat shop would not be able to operate at the maximum capacity, including servicing the same number and size of vessels, as proposed under the proposed Project.

Therefore, operational emissions would be slightly less than the proposed Project and the unmitigated air quality impacts associated with proposed Project without Impacts on Historic Buildings operations would be less than significant.

### *Health Risk*

Proposed Project health risk impacts shown in Table 3.2-18 are driven by construction emissions. A major source of acute risk is dredging equipment. The residential cancer risk significant impact in Table 3.2-18 is caused by diesel PM emissions, which would not be anticipated to be reduced sufficiently in Alternative 3 to remove this impact. After application of Mitigation Measures **MM AQ-1 through MM AQ-6**, impacts would be similar to those shown in Table 3.2-20 for the proposed Project. Therefore, after mitigation, the residential cancer risk and the residential and occupational acute hazard indices remain significant and unavoidable for construction activities.

### *Greenhouse Gas Emissions*

Greenhouse gas emissions from proposed Project without Impacts on Historic Buildings would be similar, if not slightly less due to a slight decrease in operational efficiency on the site, to the emissions for the proposed Project. However GHG emissions from construction and operations would exceed the baseline (be greater than zero). Therefore emissions of Project-related GHGs would be significant. While Mitigation Measures **MM AQ-1 through MM AQ-6** would be applied to Alternative 3 construction and Mitigation Measures **MM AQ-7 through MM AQ-10** would be applied to Alternative 3 operations, GHG emissions would continue to be greater than zero. After mitigation, GHG emissions from construction and operations would therefore remain significant and unavoidable.

## **6.3.2.1.5 Alternative 4 –Relocation of Historic Buildings**

### *Construction*

Table 6-11 presents the maximum daily criteria pollutant emissions associated with construction of Alternative 4 – Relocation of Historic Buildings, before mitigation. Phase 1 peak daily emissions are higher than the proposed Project emissions because the potentially historic buildings slated for demolition would be relocated and reconstructed during Phase 2 at the new location, concurrent with construction of the new office building and infrastructure improvements at the Project site. Disassembly of the potentially historical buildings for relocation would occur during Phase 1, and the reassembly would occur during Phase 2.

**Table 6-11: Peak Daily Emissions Associated with Alternative 4 – Relocation of Historic Buildings Construction Activities – Without Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Marine Construction	19	73	200	<1	9	7
Civil Construction	6	25	57	<1	4	3
Building Demolition/disassembly	2	11	16	<1	2	1
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>27</b>	<b>109</b>	<b>273</b>	<b>&lt;1</b>	<b>15</b>	<b>11</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 2 Construction</b>						
Marine Construction	13	49	126	<1	6	5
Civil Construction	74	287	852	1	65	41
Building Demolition	2	12	18	<1	1	1
<b>Peak Daily Phase 2 Impact<sup>b,d</sup></b>	<b>89</b>	<b>349</b>	<b>997</b>	<b>1</b>	<b>72</b>	<b>47</b>
Thresholds	75	550	100	150	150	55
Significant?	<b>Yes</b>	No	<b>Yes</b>	No	No	No
<b>Phase 3 Construction</b>						
Marine Construction	0	0	0	0	0	0
Civil Construction	23	92	243	<1	18	12
Building Demolition	0	0	0	0	0	0
<b>Peak Daily Phase 3 Impact<sup>b,d</sup></b>	<b>23</b>	<b>92</b>	<b>243</b>	<b>&lt;1</b>	<b>18</b>	<b>12</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

1  
2 Peak daily emissions in Phase 1, Phase 2, and Phase 3 would exceed the SCAQMD NO<sub>x</sub>  
3 threshold for construction emissions and peak daily emissions in Phase 2 would exceed  
4 the SCAQMD VOC threshold for construction emissions. Emissions of all other criteria  
5 pollutants would not exceed SCAQMD thresholds in any phase.

6 To reduce the level of impact during construction Mitigation Measures **MM AQ-1**  
7 **through MM AQ-6** would be applied. Table 6-12 presents the maximum daily criteria  
8 pollutant emissions associated with construction of the proposed Project with relocation  
9 of the potentially historic buildings, after the application of Mitigation Measures **MM**  
10 **AQ-1 through MM AQ-6**. After mitigation, construction emissions of NO<sub>x</sub> in Phase 1  
11 and Phase 2 would remain significant and unavoidable.

**Table 6-12: Peak Daily Emissions Associated with Alternative 4 - Relocation of Historic Buildings Construction Activities –With Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Marine Construction	17	73	194	<1	8	7
Civil Construction	1	13	19	<1	1	1
Building Demolition	2	11	16	<1	2	1
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>21</b>	<b>97</b>	<b>229</b>	<b>&lt;1</b>	<b>12</b>	<b>9</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 2 Construction</b>						
Marine Construction	12	49	125	<1	6	5
Civil Construction	18	99	264	1	31	10
Building Demolition	2	12	17	<1	1	1
<b>Peak Daily Phase 2 Impact<sup>b,d</sup></b>	<b>32</b>	<b>160</b>	<b>406</b>	<b>1</b>	<b>38</b>	<b>16</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 3 Construction</b>						
Marine Construction	0	0	0	0	0	0
Civil Construction	7	62	90	<1	7	5
Building Demolition	0	0	0	0	0	0
<b>Peak Daily Phase 3 Impact<sup>b</sup></b>	<b>7</b>	<b>62</b>	<b>90</b>	<b>&lt;1</b>	<b>7</b>	<b>5</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	No	No	No	No

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

1  
2

1 Ambient air concentrations would be anticipated to be greater than for the proposed  
2 Project, because peak short-term emissions would be greater. Therefore ambient air  
3 concentrations of 1-hour NO<sub>2</sub>, and 24-hour PM<sub>10</sub> and PM<sub>2.5</sub> would be significant and  
4 unavoidable.

#### 5 *Operation*

6 The operations of Alternative 4 from an air quality standpoint would be similar to the  
7 proposed Project emissions in Section 3.2.4.3 Table 3.2-16. The capacity of the boat  
8 shop is assumed to be similar and there would be no difference in boat repair activities  
9 that would occur after Project completion. For purposes of this analysis, it is assumed  
10 that the relocated buildings would remain vacant and thus there would be no emissions  
11 associated with their operation.

12 The unmitigated peak daily emissions would not exceed baseline emissions for any  
13 criteria pollutants in 2014. Therefore, the unmitigated air quality impacts associated with  
14 proposed Project without Impacts on Historic Buildings operations would be less than  
15 significant.

#### 16 *Health Risk*

17 Proposed Project health risk impacts shown in Table 3.2-18 are driven by construction  
18 emissions. A major source of acute risk is dredging equipment. The residential cancer  
19 risk significant impact in Table 3.2-18 is caused by diesel PM emissions, which would  
20 not be anticipated to be reduced sufficiently in Alternative 4 to remove this impact given  
21 that the level of dredging that would occur is similar to that of the proposed Project.  
22 With Mitigation Measures **MM AQ-1 through MM AQ-6**, impacts would be similar to  
23 those shown in Table 3.2-20 for the proposed Project. Therefore, after mitigation, the  
24 residential cancer risk and the residential and occupational acute hazard indices remain  
25 significant and unavoidable for construction activities.

#### 26 *Greenhouse Gas Emissions*

27 Greenhouse gas emissions from Alternative 4 - Relocation of Historic Buildings would  
28 be similar, though slightly higher during construction, to the emissions for the proposed  
29 Project as shown in Tables 3.2-22 and 3.2-23. Construction and operational GHG  
30 emissions would exceed the baseline. Therefore emissions of Project-related GHGs  
31 would be significant. While Mitigation Measures **MM AQ-1 through MM AQ-10**  
32 would be applied to the proposed Project GHG emissions would still increase over the  
33 baseline. After mitigation, GHG emissions from construction and operations would  
34 therefore remain significant and unavoidable.

### 35 **6.3.2.1.6 Alternative 5 – Alternate Site**

#### 36 *Construction*

37 Table 6-13 presents the maximum daily criteria pollutant emissions associated with  
38 construction of Alternative 5 – Alternate Site, before mitigation. Construction emissions  
39 associated with the alternate site location would be higher than the proposed Project, as  
40 this alternative contains a number of components on both the ALBS and the alternate site.  
41 Under this alternative, all existing facilities on the ALBS site would have to be relocated  
42 or reconstructed on the alternate site, the facilities proposed under the proposed Project  
43 would be constructed at the new location, and all of the remaining buildings at the  
44 existing ALBS site would need to be demolished/relocated. To conservatively estimate

1 the worst-case emissions from Alternative 5, the demolition of the existing ALBS site is  
2 assumed to occur simultaneously with Phase 1 demolition/construction at the alternate  
3 site.

4 This alternative would contain as many of the components of the proposed Project as  
5 allowed by the particular alternate site. However, it is assumed that no dredging at the  
6 new site would be required. Dredging of existing site would still occur to remove the  
7 contaminated sediments. The sediments would be dried at the north end of Fish Harbor  
8 than hauled off-site within 30 days to landfill licensed to receive hazardous waste. Each  
9 of the four alternate sites is developed to varying degrees and the buildings on each of the  
10 sites would have to be demolished, or incorporated into the ALBS operations on that site.

11 Peak daily emissions in Phases 1, 2, and 3 would exceed the SCAQMD NO<sub>x</sub> threshold  
12 for construction emissions, while peak daily emissions in Phase 2 would exceed the  
13 SCAQMD VOC, CO, and PM<sub>2.5</sub> thresholds for construction emissions. Emissions of all  
14 other criteria pollutants would not exceed SCAQMD in any phase.

15 To reduce the level of impact during construction Mitigation Measures **MM AQ-1**  
16 **through MM AQ-6** would be applied. As shown in Table 6-14, with the proposed  
17 Project, after mitigation, construction emissions would remain significant for NO<sub>x</sub> in all  
18 phases.

19

**Table 6-13: Peak Daily Emissions Associated with Alternative 5 - Alternate Site –Without Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Marine Construction	19	73	200	<1	9	7
Civil Construction	12	49	113	<1	8	6
Building Demolition	2	11	16	<1	2	1
Additional Demolition	12	57	95	<1	23	5
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>44</b>	<b>191</b>	<b>424</b>	<b>&lt;1</b>	<b>42</b>	<b>19</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 2 Construction</b>						
Marine Construction	13	49	126	<1	6	5
Civil Construction	147	575	1,702	2	129	83
Building Demolition	2	12	18	<1	1	1
<b>Peak Daily Phase 2 Impact<sup>b,d</sup></b>	<b>162</b>	<b>636</b>	<b>1,847</b>	<b>2</b>	<b>136</b>	<b>89</b>
Thresholds	75	550	100	150	150	55
Significant?	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	No	No	<b>Yes</b>
<b>Phase 3 Construction</b>						
Marine Construction	0	0	0	0	0	0
Civil Construction	48	190	498	1	37	25
Building Demolition	3	13	18	<1	1	1
Dredge Material Hauling	14	55	167	<1	13	8
<b>Peak Daily Phase 3 Impact<sup>b,d</sup></b>	<b>64</b>	<b>258</b>	<b>684</b>	<b>1</b>	<b>52</b>	<b>34</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

1

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**Table 6-14: Peak Daily Emissions Associated with Alternative 5 Alternate Site –With Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Marine Construction	17	73	194	<1	8	7
Civil Construction	2	26	39	<1	3	2
Building Demolition	2	11	16	<1	2	1
Additional Demolition	12	57	95	0	23	5
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>33</b>	<b>167</b>	<b>343</b>	<b>&lt;1</b>	<b>36</b>	<b>15</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 2 Construction</b>						
Marine Construction	12	49	125	<1	6	5
Civil Construction	36	198	527	2	62	20
Building Demolition	2	12	17	<1	1	1
<b>Peak Daily Phase 2 Impact<sup>b,d</sup></b>	<b>50</b>	<b>259</b>	<b>669</b>	<b>2</b>	<b>68</b>	<b>26</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 3 Construction</b>						
Marine Construction	0	0	0	0	0	0
Civil Construction	14	97	155	<1	11	8
Building Demolition	2	12	17	<1	1	1
Dredge Material Hauling	14	55	167	<1	13	8
<b>Peak Daily Phase 3 Impact<sup>b,d</sup></b>	<b>30</b>	<b>164</b>	<b>339</b>	<b>&lt;1</b>	<b>25</b>	<b>17</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

Notes:

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

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3  
4  
5  
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1 Ambient air concentrations would be anticipated to be greater than for the proposed  
2 Project, because peak short-term emissions in all three phases would be greater than those  
3 associated with the proposed Project. Therefore ambient air concentrations of 1-hour  
4 NO<sub>2</sub>, and 24-hour PM<sub>10</sub> and PM<sub>2.5</sub> would be significant and unavoidable.

#### 5 *Operation*

6 The operations of this alternative from an air quality standpoint would be similar to the  
7 proposed Project. The operational capacity of ALBS would be as similar as possible to  
8 the proposed Project; therefore there would be no difference in boat repair activities that  
9 would occur after Project completion.

10 The unmitigated peak daily emissions would not exceed baseline emissions for any  
11 criteria pollutants in 2014. Therefore, the unmitigated air quality impacts associated with  
12 proposed Project operations would be less than significant.

#### 13 *Health Risk*

14 Health risk impacts are dependent upon the proximity of construction activities to  
15 residences, worker locations, and other sensitive uses. Construction activities associated  
16 with reassembling the relocated buildings and making the on-site improvements under  
17 this alternative would occur at a different location than for the proposed Project.  
18 However if the alternative location is adjacent to Fish Harbor, along the Main Channel, or  
19 near the East Basin, significant residential impacts are still anticipated. In addition,  
20 occupational impacts are still anticipated to be significant because industrial/commercial  
21 uses would be in close proximity to any other potential alternative ALBS location where  
22 construction might occur. Further, while no operational impacts would occur at the  
23 existing site, demolition and dredging activities would continue to occur. More  
24 construction emissions are anticipated from Alternative 5 than the proposed Project due to  
25 the additional work needed to return the existing ALBS site to its original condition and  
26 relocated the five potentially historic buildings to the new site. Therefore it is possible  
27 that the Alternative 5 impacts are greater than the proposed Project health risk impacts  
28 shown in Tables 3.2-18 and 3.2-20. After mitigation, health risk impacts would remain  
29 significant and unavoidable for construction activities.

#### 30 *Greenhouse Gas Emissions*

31 Greenhouse gas emissions from this alternative would be greater than the emissions for  
32 the proposed Project due to the additional construction emissions required to return the  
33 existing ALBS site to its original condition as well as construct the new site.  
34 Construction and operational GHG emissions would exceed the baseline. Therefore  
35 emissions of Project-related GHGs would be significant. While Mitigation Measures  
36 **MM AQ-1 through MM AQ-10** would be applied to proposed Project construction and  
37 operations, emissions are still anticipated to increase over baseline GHG emissions.  
38 After mitigation, GHG emissions from construction and operations would therefore  
39 remain significant and unavoidable.

40

### 6.3.2.1.7 Alternative 6 – No Project

#### *Construction*

This alternative represents the scenario under which the proposed Project would not be constructed. Under this alternative, ALBS would not be in compliance with the current NPDES permit, which would require them to implement measures on the site to redirect stormwater away from Fish Harbor. Because no development would occur, including the required water quality improvements, ALBS would cease operation on the site. Under this scenario, ALBS would be required to clear the site and return it to pre-lease conditions.

Emissions associated with this alternative would include those associated with demolition and the haul away of demolition debris and contaminated landside soils, dredging and haul away of the contaminated sediments, and grading the site to return it to pre-lease conditions. Construction emissions under this alternative would be greater than the proposed Project given the large amount of demolition, excavation, site grading, and hauling of sediment required.

Table 6-15 presents the maximum daily criteria pollutant emissions associated with construction of Alternative 6 – No Project. Peak daily emissions in Phase 1, Phase 2, and Phase 3 would exceed the SCAQMD NO<sub>x</sub> threshold for construction emissions and peak daily emissions in Phase 2 would exceed the SCAQMD VOC, CO, and PM<sub>2.5</sub> thresholds for construction emissions. Emissions of all other criteria pollutants would not exceed SCAQMD thresholds in any phase.

**Table 6-15: Peak Daily Emissions Associated with Alternative 6 - No Project Construction Activities – Without Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Marine Construction	13	49	130	<1	6	5
Civil Construction	12	49	113	<1	8	6
Additional Demolition	12	57	95	<1	23	5
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>36</b>	<b>156</b>	<b>338</b>	<b>&lt;1</b>	<b>37</b>	<b>15</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 2 Construction</b>						
Marine Construction	13	49	126	<1	6	5
Civil Construction	147	575	1,702	2	129	83
Building Demolition	2	12	18	<1	1	1
<b>Peak Daily Phase 2 Impact<sup>b,d</sup></b>	<b>162</b>	<b>636</b>	<b>1,847</b>	<b>2</b>	<b>136</b>	<b>89</b>
Thresholds	75	550	100	150	150	55
Significant?	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	No	No	<b>Yes</b>
<b>Phase 3 Construction</b>						
Civil Construction	39	154	429	1	33	21
Building Demolition	3	13	18	<1	1	1
Dredge Material Hauling	14	55	167	<1	13	8
<b>Peak Daily Phase 3 Impact<sup>b,d</sup></b>	<b>55</b>	<b>222</b>	<b>614</b>	<b>1</b>	<b>47</b>	<b>30</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

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Mitigation Measure **MM AQ-1 through MM AQ-6** would be applied to this alternative, as some construction activity would occur in order to bring the site back to its original condition. As shown in Table 6-16, after mitigation, construction emissions would remain significant for NO<sub>x</sub> under all three phases.

**Table 6-16: Peak Daily Emissions Associated with Alternative 6 - No Project Construction Activities – With Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Marine Construction	11	55	132	<1	6	5
Civil Construction	3	31	38	<1	3	2
Building Demolition	2	12	17	<1	1	1
Additional Building Demolition	12	57	95	<1	23	5
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>28</b>	<b>155</b>	<b>282</b>	<b>&lt;1</b>	<b>33</b>	<b>13</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 2 Construction</b>						
Marine Construction	12	49	125	<1	6	5
Civil Construction	36	198	527	2	62	20
Building Demolition	2	12	17	<1	1	1
<b>Peak Daily Phase 2 Impact<sup>b,d</sup></b>	<b>50</b>	<b>259</b>	<b>669</b>	<b>2</b>	<b>68</b>	<b>26</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No
<b>Phase 3 Construction</b>						
Civil Construction	5	56	86	<1	7	4
Dredge Material Hauling	14	55	167	<1	13	8
<b>Peak Daily Phase 3 Impact<sup>b,d</sup></b>	<b>19</b>	<b>112</b>	<b>253</b>	<b>&lt;1</b>	<b>19</b>	<b>12</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

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 2 Ambient air concentrations would be anticipated to be greater than for the proposed  
 3 Project, because peak short-term emissions in all three phases would be greater than those  
 4 estimated for the proposed Project. Therefore ambient air concentrations of 1-hour NO<sub>2</sub>,  
 5 and 24-hour PM<sub>10</sub> and PM<sub>2.5</sub> would be significant and unavoidable.

6 *Operation*

7 Operational air quality impacts would be completely eliminated when compared to the  
 8 proposed Project because the site would be completely cleared of structures and  
 9 employees. As a result, Alternative 6 operational emissions would be less than the  
 10 baseline and there would be no impacts.

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1                    *Health Risk*

2                    While no operational impacts would occur under Alternative 6, demolition and dredging  
3                    activities would take place. More construction emissions are anticipated from Alternative  
4                    6 than the proposed Project due to the additional work needed to return the existing  
5                    ALBS site to its original condition. Thus, it is anticipated that significant residential  
6                    cancer risk and significant residential and occupational acute hazard index impacts would  
7                    still occur. While mitigation would reduce impacts, health risk impacts would remain  
8                    significant and unavoidable for construction activities.

9                    *Greenhouse Gas Emissions*

10                  Under this alternative, the site would be completely cleared of structures and employees.  
11                  As a result, GHG emissions would be reduced as compared to the proposed Project.  
12                  However, construction activities would generate GHG emissions greater than the baseline.  
13                  It is anticipated that the reduction in operational emissions would be greater than the  
14                  short-term increase in construction emissions; therefore GHG emissions for this  
15                  alternative would be less than significant.

16                  **6.3.2.1.8      Alternative 7 – No Federal Action**

17                  *Construction*

18                  Table 6-17 presents the maximum daily criteria pollutant emissions associated with  
19                  construction of the No Federal Action alternative, before mitigation. Construction  
20                  impacts under this alternative would be related to landside improvements proposed under  
21                  the proposed Project. These landside improvements include redirecting stormwater away  
22                  from Fish Harbor to an oil/water separator, the demolition of the two potentially historic  
23                  structures, construction of the new building, and infrastructure upgrades on the site  
24                  related to paving, lighting, and utilities.

25                  However, because demolition and grading would still occur, peak daily emissions would  
26                  exceed the SCAQMD NO<sub>x</sub> threshold for construction emissions. Emissions of all other  
27                  criteria pollutants would not exceed SCAQMD thresholds.

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**Table 6-17: Peak Daily Emissions Associated with Alternative 7 - No Federal Action Construction Activities – Without Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Civil Construction	29	114	285	<1	21	14
Building Demolition	16	73	126	<1	8	6
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>45</b>	<b>187</b>	<b>411</b>	<b>1</b>	<b>29</b>	<b>21</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

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To reduce the level of impact during construction Mitigation Measures **MM AQ-1 through MM AQ-6** would be applied. Table 6-18 presents the maximum daily criteria pollutant emissions associated with construction of the Alternative 7, after the application of Mitigation Measures **MM AQ-1 through MM AQ-6**. After mitigation, construction emissions of NO<sub>x</sub> would remain significant and unavoidable. Overall, this alternative would result in fewer emissions than the proposed Project; however, impacts under this alternative would remain significant and unavoidable for NO<sub>x</sub>.

**Table 6-18: Peak Daily Emissions Associated with Alternative 7 - No Federal Action Construction Activities –With Mitigation**

Emission Source	Peak Daily Emissions (lb/day) <sup>c</sup>					
	VOC	CO	NO <sub>x</sub>	SO <sub>x</sub>	PM <sub>10</sub> <sup>a</sup>	PM <sub>2.5</sub> <sup>a</sup>
<b>Phase 1 Construction</b>						
Civil Construction	9	47	77	<1	5	4
Building Demolition	12	72	117	<1	7	6
<b>Peak Daily Phase 1 Impact<sup>b,d</sup></b>	<b>21</b>	<b>119</b>	<b>194</b>	<b>&lt;1</b>	<b>13</b>	<b>10</b>
Thresholds	75	550	100	150	150	55
Significant?	No	No	<b>Yes</b>	No	No	No

<sup>a</sup>Emissions of PM<sub>10</sub> and PM<sub>2.5</sub> assume that fugitive dust is controlled in accordance with SCAQMD Rule 403 by watering disturbed areas 3 times per day.

<sup>b</sup>Emissions might not add precisely due to rounding. For more explanation, refer to the discussion in Section 3.2.4.1.

<sup>c</sup>The emission estimates presented in this table were calculated using the latest available data, assumptions, and emission factors at the time this document was prepared. Future studies might use updated data, assumptions, and emission factors that are not currently available.

<sup>d</sup>The impact equals total Project construction emissions minus baseline construction emissions (which are zero).

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1 Ambient air concentrations resulting from Alternative 7 construction activities are  
2 anticipated to be significant and unavoidable for 1-hour NO<sub>2</sub> and 24-hour PM<sub>10</sub> and PM<sub>2.5</sub>  
3 based off the emissions of peak daily NO<sub>x</sub>, PM<sub>10</sub> and PM<sub>2.5</sub> for the proposed Project  
4 (Tables 3.2-12 and 3.2-13) relative to the emissions in Tables 6-17 and 6-18 for  
5 Alternative 7.

#### 6 *Operation*

7 There would be no increase in operational emissions under Alternative 1. The new 600-  
8 and 100-ton boat hoists would not be installed, therefore the capacity of the boat shop  
9 would remain the same, and the number and size of boats repaired would not be expected  
10 to increase under this alternative. As a result, impacts under this alternative would be  
11 less than significant. This impact would result in less operational emissions than the  
12 proposed Project.

#### 13 *Health Risk*

14 Health risk impacts under Alternative 7 are anticipated to be less than significant for all  
15 receptor types due to the reduced construction impacts (specifically no dredging) and  
16 removal of boat shop operations.

#### 17 *Greenhouse Gas Emissions*

18 Emissions from Alternative 7 operations would be identical to the existing boat shop;  
19 therefore, the impact for all GHGs would be zero. However GHG emissions would be  
20 greater than the baseline for Alternative 7 construction activities, even after application of  
21 Mitigation Measures **MM AQ-1 through MM AQ-6**. Therefore GHG impacts under  
22 this impact would significant and unavoidable.

## 23 **6.3.2.2 Cultural Resources**

### 24 **6.3.2.2.1 Proposed Project**

#### 25 *Archaeology and Paleontology*

26 Excavation, trenching, and pile driving, as well as other ground-disturbing actions, have  
27 the potential to damage or destroy archaeological and paleontological resources within  
28 the proposed Project area; however, the proposed Project site has a low potential to  
29 disturb, damage, or degrade unknown archaeological, ethnographic, and paleontological  
30 resources. Implementation of Mitigation Measures **MM CUL-1** would further reduce  
31 impacts on unknown archaeological resources. Therefore, a significant impact is not  
32 anticipated under the proposed Project, nor any of the alternatives.

#### 33 *Historical Buildings*

34 The proposed Project includes demolition of multiple buildings on the Project site, of  
35 which three (Buildings A2, A3, and C1) are eligible for listing in the California Register  
36 and potentially for listing as a City of Los Angeles Historic Cultural Monument (HCM).  
37 Buildings A2 and A3 are part of the Office and Workshop Complex that is comprised of  
38 three buildings are eligible for listing in the California Register of Historical Resources  
39 under Criterion 1, for its contribution to influencing patterns significant in our past. The  
40 Office and Workshop Buildings at the ALBS are significant for its association with the  
41 development of the Los Angeles shipbuilding and fishing industries between 1924 and  
42 1959. Because all three of the buildings associated with the complex quality as a



1 historical resource as defined by CEQA and may qualify for listing as a City of Los  
2 Angeles HCM, their removal would represent a significant impact to an historic resource.

3 In addition to the three buildings that comprise the Office and Workshop Complex,  
4 Project construction would also demolish one of two buildings that comprise the Machine  
5 Shop Complex (Building C1). Both buildings that comprise the Machine Shop Complex  
6 are eligible for listing in the California Register of Historical Resources under Criterion  
7 1, as they are directly associated with events that have made a significant contribution to  
8 the broad patterns of California's history (the diesel engine) and cultural heritage  
9 (fishing, tugboat, and yachting industries). It is also eligible under Criterion 3, because it  
10 embodies the distinctive characteristics of the maritime industrial building type, the mid-  
11 twentieth century period, from the late 1930s until the late 1950s, and West Coast region.  
12 Because the buildings qualify as a historical resource as defined by CEQA and may  
13 qualify for listing as a City of Los Angeles HCM, demolition of Building C1 would result  
14 in a significant impact to an historic resource. Implementation of Mitigation Measures  
15 **MM CUL-2** and **MM CUL-3** would reduce project impacts on historic resources, but not  
16 to less than significant. Impacts on historic resources would remain significant and  
17 unavoidable.

#### 18 **6.3.2.2.2 Alternative 1 – Reduced Project: Water Quality Improvements**

19 This alternative would not implement any of the proposed improvements on the Project  
20 site, other than those required to comply with the Los Angeles RWQCB requirements and  
21 remain in operation. These improvements include placing dikes around existing  
22 buildings and/or changing the slope of the site so stormwater runoff would drain away  
23 from Fish Harbor into an oil/water separator before discharge.

24 As compared to the proposed Project, this alternative would reduce the amount of  
25 development on the site. This alternative would reduce the amount of construction  
26 materials, construction vehicle emission, earthwork, grading, and construction noise.  
27 None of the potentially historic buildings would be impacted under this alternative and,  
28 thus, impacts under this alternative would be less than under the proposed Project.  
29 Impacts to cultural resources would be less than significant under this alternative.

#### 30 **6.3.2.2.3 Alternative 2 – Reduced Project: Limited Demolition**

31 This alternative is similar to the proposed Project; however, only some of the potentially  
32 historic structures (Buildings A2 and A3 of the Office/Workshop Complex and Building  
33 C1 of the Machine Shop Complex) would be demolished. With the exception of the  
34 construction of the new building, all other components of the proposed Project would be  
35 implemented. Implementation of this alternative would not result in the complete  
36 modernization of the facility, as some of the potentially historic structures would remain  
37 on the site. It would also not result in a full clean up of landside legacy contaminants, as  
38 all of the buildings would not be demolished.

39 Under this alternative, the impact on operations would differ with the choice of which  
40 buildings would be retained; however, the ALBS facility would not achieve the  
41 modernization and expansion to the extent planned under the proposed Project.

42 The amount of development would be reduced under this alternative, as some of historic  
43 structures on the site would remain. As a result, impacts on historic resources would be  
44 reduced under this alternative. However, the partial removal of any portion of either the  
45 Office/Workshop Complex or the Machine Shop Complex would result in a loss of  
46 integrity to the complex as a whole and, thus, a significant and unavoidable impact.

1 The implementation of Mitigation Measure **MM CUL-2** and **MM CUL-3** would still  
2 apply to this alternative, as only some of the historic buildings would be demolished and  
3 other construction activities would have the potential to impact the structures. As with  
4 the proposed Project, implementation of mitigation would reduce Project impacts, but not  
5 to a level of less than significant. Impacts on historic resources would remain significant  
6 and unavoidable under this alternative.

#### 7 **6.3.2.2.4 Alternative 3 – Retention of Historic Buildings**

8 This alternative would contain most of the elements of the proposed Project. The  
9 potentially historic buildings (Buildings A2 and A3 of the Office/Workshop Complex  
10 and Building C1 of the Machine Shop Complex) would not be demolished and the new  
11 building would not be constructed. Implementation of this alternative would not result in  
12 the complete modernization of the facility.

13 Under this alternative, the amount of development would be reduced as the two historic  
14 complexes on the site would remain. As a result, impacts to historic resources would be  
15 eliminated under this alternative. Therefore, impacts to cultural resources would be  
16 reduced to less than significant.

#### 17 **6.3.2.2.5 Alternative 4 –Relocation of Historic Buildings**

18 This alternative would be the same as the proposed Project; however, LAHD would  
19 relocate the three potentially historic buildings slated for demolition to another location  
20 within the Port. The relocation site would be one of two redevelopment Project sites  
21 within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront project.  
22 All of the components of the proposed Project would be constructed under this  
23 alternative.

24 Under this alternative, instead of demolishing the potentially historic buildings on the site,  
25 the buildings would be relocated to another site within the Harbor. Because the  
26 potentially historic buildings would be relocated elsewhere within the Port, the potential  
27 impact area would expand beyond the existing Project site.

28 In addition, relocation of the buildings could lead to a loss of integrity of the structure.  
29 As a result, this alternative would not eliminate the project impacts to historic resources.  
30 Implementation of Mitigation Measures **MM CUL-2** and **MM CUL-3** would still apply  
31 to this alternative. However, the implementation of mitigation would not fully mitigate  
32 impacts to less than significant. Impacts under this alternative would remain significant  
33 and unavoidable.

#### 34 **6.3.2.2.6 Alternative 5 – Alternate Site**

35 This alternative would construct and operate the ALBS at a different location elsewhere  
36 within the Port. LAHD has identified four possible alternate sites, which are shown on  
37 Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are  
38 located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue  
39 with vessel access from the Main Channel, and the fourth site is on the mainland, off the  
40 East Basin. ALBS would attempt to operate on one of the alternate sites at the same level  
41 and capacity as the proposed Project. Each alternate site has varying levels of  
42 development within its boundaries, which could impact potential ALBS operations at  
43 each of the four potential sites. Demolition of existing buildings would be required at  
44 each of the alternate sites. Three of the four sites contain historic buildings.

1 All four sites are developed to varying degrees and three of the four sites currently  
2 contain historic resources that would have to be demolished to make room for ALBS  
3 operations.

4 Mitigation Measures **MM CUL-2** and **MM CUL-3** would be applicable to this alternative  
5 to document the potentially historic structures on the ALBS site, as well as the historic  
6 structures on three of the four alternate sites (only one site could be affected). Mitigation  
7 would not reduce impacts to less than significant under this alternative, as resources on  
8 both the ALBS and on the alternate sites could be impacted under this alternative.

9 Removal of the potentially historic resources on three of the alternate sites could result in  
10 an additional significant impact. Impacts under this alternative would remain significant  
11 and unavoidable. Impacts under this alternative would be greater than those under the  
12 proposed Project.

### 13 **6.3.2.2.7 Alternative 6 – No Project**

14 Under this alternative, no development would occur on the site and no action would be  
15 taken by the tenant to bring the site into compliance with the applicable surface water  
16 quality standards. As a result, operation of ALBS would cease and the site would be  
17 cleared of all structures, including the removal of the historic structures, to return the site  
18 to pre-lease conditions. The removal of these structures would be considered significant.

19 Mitigation Measures **MM CUL-2** and **MM CUL-3** would apply to this alternative.  
20 Impacts under this alternative would be similar to the proposed Project in that the  
21 potentially historic structures would be demolished in both scenarios, however, all  
22 historic structures would be removed under this alternative as compared to the proposed  
23 Project where two potentially historic structures would be retained on-site. Impacts on  
24 historic resources would remain significant and unavoidable under this alternative.

### 25 **6.3.2.2.8 Alternative 7 – No Federal Action**

26 This alternative would reduce the overall amount of development on the site because only  
27 the landside construction would occur. No dredging, CDF construction or construction of  
28 the concrete piers for the 600- and 100-ton boat hoists would occur under this alternative.

29 Under this alternative, the landside improvements would occur, including the demolition  
30 of both potentially historic structures. These improvements include upgrading existing  
31 facilities as well as the implementation of improvements that would bring the facility into  
32 compliance with the NPDES stormwater requirements. Mitigation Measures **MM CUL-**  
33 **2** and **MM CUL-3** would still apply to this alternative. However, the implementation of  
34 mitigation would not fully mitigate impacts to historic resources to less than significant.  
35 Impacts under this alternative would remain significant and unavoidable and would be  
36 similar to those under the proposed Project.

## 37 **6.3.2.3 Noise**

### 38 **6.3.2.3.1 Proposed Project**

#### 39 *Construction*

40 Construction activities would typically last more than 10 days in any 3-month period.  
41 Based on the thresholds of significance, an impact would be considered significant if  
42 noise from these construction activities would exceed existing ambient exterior noise  
43 levels by 5 dBA or more at noise-sensitive use.

1 The proposed Project would result in a significant noise impact during construction. The  
2 noise level is projected to temporarily exceed ambient levels by more than 5 dBA to  
3 noise sensitive uses at Al Larson Marina (Fish Harbor) and Reservation Point. Noise  
4 from pile driving would be audible and may be perceived as intrusive or annoying by the  
5 community at the Al Larson Marina and Reservation Point. However, the potential for  
6 construction noise impacts is well below the threshold for residences and hotels along  
7 Harbor Boulevard in San Pedro, the other identified sensitive receptors in the vicinity.

8 Implementation of Mitigation Measures **MM NOI-1 through MM NOI-3** would not  
9 reduce impacts resulting from construction noise on noise sensitive uses at Al Larson  
10 Marina to a level of less than significant. Construction related noise impacts would  
11 remain significant and unavoidable.

#### 12 *Operation*

13 Operational activities at the ALBS site would not generate noise increases greater than 3  
14 dBA. Given that the types of equipment and operations planned for the proposed Project  
15 is similar what is currently existing uses at the site, noise increases at noise sensitive  
16 receptors is expected to be imperceptible. Therefore, operation of the proposed Project  
17 would not result in significant impacts to noise sensitive uses in the Port area.

#### 18 **6.3.2.3.2 Alternative 1 – Reduced Project: Water Quality Improvements**

19 This alternative would significantly decrease the amount of development on the site by  
20 eliminating all of the proposed improvements with the exception of those that would  
21 ensure compliance with the Los Angeles RWQCB requirements to remain in operation.  
22 Under this alternative, the majority of the construction noise would be eliminated. No  
23 demolition would occur on the site. In addition, the new wharf would not be constructed,  
24 and the two boat hoists would not be installed. No additional employees would be added  
25 and no increase in the number of vessels served would occur. As a result, the significant  
26 and unavoidable impact due to pile driving would be eliminated. No significant and  
27 unavoidable impacts would occur under this alternative. Impacts related to this  
28 alternative would be less than significant.

#### 29 **6.3.2.3.3 Alternative 2 – Reduced Project: Limited Demolition**

30 This alternative would decrease the amount of new development on the site, as the new  
31 building would not be constructed. The amount of demolition would decrease, as well, as  
32 only some of the potentially historic structures would be demolished. Because most of  
33 the Project components would be constructed/implemented, some of the proposed  
34 operational increases would occur, including the proposed increase in the number of  
35 ships serviced at the site and the proposed increase in employees, although at a lesser  
36 degree than under the proposed Project.

37 Although construction noise would be slightly reduced under this alternative, pile driving  
38 would still occur in conjunction with construction of the new wharf to support the 600-  
39 and 100-ton boat hoists. Mitigation Measures **MM NOI-1 through MM NOI-3** would  
40 apply to this alternative. These mitigation measures would reduce construction noise  
41 impacts related to pile driving and noise attenuation. However, these mitigation  
42 measures would not reduce impacts to less than significant. As a result, like the proposed  
43 Project, this alternative would result in a significant and unavoidable impact.

44

#### 6.3.2.3.4 Alternative 3 – Retention of Historic Buildings

This alternative would slightly decrease the amount of new development on the site, as all proposed Project components would be constructed on the site except for the new building. However, because the existing historic buildings would not be demolished or relocated, implementation of this alternative would neither result in the complete modernization of the existing boat yard facilities nor provide for the same level of operational efficiency that would occur under the proposed Project

Under this alternative, none of the potentially historic structures on the site would be demolished. As a result, the amount of noise produced as a result of construction activities would be slightly less than the proposed Project due to the decreased amount of demolition.

Although construction noise would be slightly reduced under this alternative, pile driving would still occur in conjunction with construction of the new finger piers to support the 600- and 100-ton boat hoists. Mitigation Measures **MM NOI-1 through MM NOI-3** would apply to this alternative. These mitigation measures would reduce construction noise impacts related to pile driving and noise attenuation. However, these mitigation measures would not reduce impacts to less than significant. As a result, like the proposed Project, this alternative would result in a significant and unavoidable impact during construction.

#### 6.3.2.3.5 Alternative 4 – Relocation of Historic Buildings

This alternative would be the same as the proposed Project; however, all of the potentially historic buildings slated for demolition would be located to another location within the Port. The relocation site would be one of two redevelopment project sites within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront project. All of the components of the proposed Project would be constructed under this alternative, as both buildings would be removed from the site. Under this alternative, noise impacts would occur beyond the boundaries of the existing ALBS site.

Because all of the Project components would be constructed on the site, operational impacts would be the same as the proposed Project.

Under this alternative, instead of demolishing three of the potentially historic buildings on the site, they would be relocated to another site within the Harbor. Because the historic buildings would potentially be relocated elsewhere within the Port, the potential impact area would expand beyond the existing Project site. Noise related to the relocation of one or both of the potentially historic structures would occur on the Project site, along the relocation route, and at the relocation site.

Impacts due to construction noise would be slightly greater when compared to the proposed Project because one or two of the historic buildings would be relocated, which is an additional component that would occur as part of the construction phase of the project. Mitigation Measures **MM NOI-1 through MM NOI-3** would apply to this alternative. Mitigation would reduce construction noise impacts related to pile driving and noise attenuation. However, these mitigation measures would not reduce impacts to less than significant. As with the proposed Project, construction noise impacts would remain significant and unavoidable.

### 6.3.2.3.6 Alternative 5 – Alternate Site

This alternative would construct and operate the ALBS at a different location elsewhere within the Port. LAHD has identified four possible alternate sites, which are shown on Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are located within Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue with vessel access from the Main Channel, and the fourth site is on the mainland, off the East Basin. ALBS would attempt to operate on one of the alternate sites at the same level and capacity as the proposed Project. Each alternate site has varying levels of development within its boundaries, which could impact potential ALBS operations at each of the four potential sites. Demolition of existing buildings would be required at each of the alternate sites.

This alternative would have operational impacts that are similar to the proposed Project, as ALBS would attempt to operate at the same levels as under the proposed Project.

Construction impacts under this alternative would be much greater than the proposed Project. All Project components would be constructed on an alternate site that is the same size as the existing ALBS site. Pile driving would occur in conjunction with construction of a new wharf to support the 600- and 100-ton boat hoists. Mitigation Measures **MM NOI-1** and **MM NOI-2** would apply all four alternate sites. Even with the inclusion of the mitigation measures, noise impacts related to pile driving would remain significant and unavoidable. As a result, this alternative would result in a significant and unavoidable construction noise impacts, similar to the proposed Project.

Three of the alternate sites are in close proximity to the ALBS site. Two of the alternate sites are in Fish Harbor (across Fish Harbor to the east of the ALBS site. These sites are further from all of the noise sensitive uses at Al Larson Marina and Reservation Point. No additional sensitive uses are located in close proximity to these two sites. As a result, both construction and operational noise impacts would be less at these two alternate sites than the proposed Project. In this case, both of these sites are located over 500 feet from the nearest sensitive use; therefore, Mitigation Measure **MM NOI-3** would not apply to these sites.

The third alternate site is located west of Seaside Avenue with vessel access to the Main Channel. This site is located just to the west of the ALBS site, and is within 500 feet of the Al Larson Marina. No additional noise sensitive uses are located in close proximity to this site. Therefore, Mitigation Measure **MM NOI-3** would apply to this alternate site.

The fourth alternate site is located on the mainland, off the East Basin. The California Yacht Marina, which is the only noise sensitive use located within close proximity to this site, is located less than 500 feet to the east of this alternate site. Therefore, Mitigation Measure **MM NOI-3** would apply to this alternate site.

Each of the alternate sites is developed at different levels. It is likely that buildings on each of the alternate sites would have to be demolished. In addition, all of the remaining non-historic buildings on the existing ALBS site would have to be demolished to return the site to its pre-lease conditions. The construction process would be much more involved and would occur at two different locations under this alternative, making noise impacts under this alternative much greater than the proposed Project.

### 6.3.2.3.7 Alternative 6 – No Project

Under this alternative, ALBS would not be in compliance with the current NPDES permit, which would require them to implement measures on the site to redirect stormwater away from Fish Harbor. Because no improvements would occur, including the required water quality improvements, ALBS could not continue to operate and the boat shop would close. Under this scenario, ALBS would be required to clear the site and return it to its original condition.

The No Project Alternative would not implement any of the proposed Project components, and all operation on the site would cease. As a result, there would be no operational noise increase on the site. Under this alternative, all operational noise would completely cease to exist.

No additional construction noise would be generated due to the construction of components associated with the proposed Project. However, construction noise would be generated by clearing the site of the existing operations and dredging of the contaminated sediments. No pile driving would occur under this alternative. As a result, construction noise impacts would be less than significant. Overall construction levels under this alternative would be less than the proposed Project.

### 6.3.2.3.8 Alternative 7 – No Federal Action

This alternative would reduce the overall amount of development on the Project site because only the landside construction would occur under this alternative. No dredging, CDF construction, or construction of the concrete piers for the new 600- and 100-ton boat hoists would occur under this alternative.

Improvements would be made that would bring the operation into compliance with the NPDES stormwater requirements. As a result, ALBS would be able to enter into a new 30-year lease.

Under this alternative, the dredging and installation of the 600- and 100-ton boat hoists would not occur, which would result in onsite operation levels similar to existing operations. No new employees would be added and an increase in the number and size of vessels serviced would not occur. As a result, operational noise impacts would be less than the proposed Project. Operational noise impacts would be less than significant.

Under this alternative, the landside aging infrastructure would be improved, including the replacement of paving, lighting, and utilities. The potentially historic structures would also be removed and the new building would be constructed under this alternative.

Because only landside project components would occur under this alternative, no pile driving would occur. As a result, construction noise impacts would be less than significant. Construction noise levels would be substantially less under this alternative due to the restricted nature of the project components being implemented under this alternative.

### 6.3.3 Resources with Significant Impacts that Can be Mitigated to Less than Significant

As noted above, one resource area - Biological Resources - has potentially significant impacts that can be mitigated to a less than significant level, as analyzed in Chapter 3 for the proposed Project and following is a qualitative analysis for each alternative:

#### 6.3.3.1 Biological Resources

##### 6.3.3.1.1 Proposed Project

Biological communities, the collection of species inhabiting a particular habitat or ecosystem, can potentially be disrupted by changes in environmental conditions that favor a different assemblage of species, or alter the dynamics among species that make up a biological community. The significance of changes in local conditions depends on the extent and duration of those changes, as well as the species or groups of species affected. The terrestrial portions of the Project site are developed, and the only plant life at the Project site is a few trees; therefore, impacts on terrestrial biological communities would be very limited. Construction-related impacts on marine biological communities are expected to be temporary, lasting through the construction period and for a short time thereafter. These include physical disturbance, underwater and overwater noise, and turbidity produced during dredging/disposal activities, pile driving and removal, and other subtidal construction (such as installation of the sealed sheet pile bulkheads).

Construction of the proposed Project includes fill (disposal of sediment to create the CDFs) that would result in the direct loss of approximately 0.9 acres of marine habitat in Fish Harbor. Even though the area proposed for construction of the CDFs is considered "impacted" due to the presence of contaminated sediments, it is still considered EFH for the Coastal Pelagics and Pacific Groundfish.

While disturbance to biological communities is expected during project construction and operation, most impacts are limited in scope and duration. The construction of the proposed Project would not cause a loss of individuals or habitat of a state- or federally-listed endangered, threatened, rare, protected, or candidate species, or a Species of Special Concern or the loss of federally listed critical habitat. The implementation of Mitigation Measure **MM BIO-1** would reduce Project impacts to less than significant.

##### 6.3.3.1.2 Alternative 1 – Reduced Project: Water Quality Improvements

This alternative would not implement any of the proposed improvements on the Project site, other than those required to comply with the Los Angeles RWQCB requirements and remain in operation. These improvements include placing dikes around existing buildings and/or changing the slope of the site so stormwater runoff would drain away from Fish Harbor into an oil/water separator before discharge.

As compared to the proposed Project, this alternative would reduce the amount of development on the site by not demolishing/relocating and reconstructing any buildings on the Project site. This alternative would reduce the amount of construction materials, construction vehicle emission, earthwork, and grading.

Because this alternative would result in a much smaller project and would be confined to landside improvements, impacts on biological resources would be less than those under the proposed Project. Under this alternative, impacts on biological resources would be less than significant.



### 6.3.3.1.3 Alternative 2 – Reduced Project: Limited Demolition

This alternative is similar to the proposed Project; however, only some of the potentially historic structures associated with the Office/Workshop and/or Machine Shop complexes would be demolished and all other Project components would be constructed with the exception of the new building. As compared to the proposed Project, this alternative would slightly reduce the overall amount of development on the site by demolishing fewer structures.

Because the majority of the components associated with the proposed Project would be constructed, impacts on biological resources would be similar to the proposed Project. Therefore, implementation of Mitigation Measure **MM BIO-1** would reduce impacts on marine habitat to less than significant levels. Impacts from this alternative would be the same as the proposed Project's, and would be less than significant after mitigation.

### 6.3.3.1.4 Alternative 3 – Retention of Historic Buildings

This alternative would contain the majority of the components of the proposed Project. Under this alternative, the potentially historic buildings (Buildings C1, A2, or A3) would not be demolished and the new building would not be constructed. As compared to the proposed Project, this alternative would slightly reduce the amount of development on the site by not demolishing/relocating either of the potentially historic buildings on the site.

Because all of the other components associated with the proposed Project would be constructed, except for the new building, impacts would be the same as the proposed Project. Therefore, implementation of Mitigation Measure **MM BIO-1** would reduce impacts on marine habitat to less than significant levels. Impacts from this alternative would be the same as the proposed Project's, and would be less than significant after mitigation.

### 6.3.3.1.5 Alternative 4 –Relocation of Historic Buildings

This alternative would be the same as the proposed Project except that all of the potentially historic buildings slated for demolition would be relocated to another location within the Port. The relocation site would be one of two redevelopment project sites within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront project. All of the components of the proposed Project would be constructed under this alternative, as both buildings would be removed from the site.

Under this alternative, instead of demolishing one or both of the potentially historic buildings on the site, one or both buildings would be relocated to another site within the Harbor. If only one building is relocated, the other would be demolished. Because one or two of the buildings would potentially be relocated elsewhere within the Port, the potential impact area would expand beyond the existing Project site. However, the buildings would be relocated to one of two sites that are completely developed and, thus, would not impact any biological resources.

As with the proposed Project, implementation of Mitigation Measure **MM BIO-1** would reduce impacts on marine habitat to less than significant levels. Impacts from this alternative would be the same as the proposed Project's, and would be less than significant after mitigation.

### 6.3.3.1.6 Alternative 5 – Alternate Site

This alternative would construct and operate the ALBS at a different location elsewhere within the Port. LAHD has identified four possible alternate sites, which are shown on Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue with vessel access from the Main Channel, and the fourth site is on the mainland, off the East Basin. ALBS would attempt to operate on one of the alternate sites at the same level and capacity as the proposed Project. Each alternate site has varying levels of development within its boundaries, which could impact potential ALBS operations at each of the four potential sites. Demolition of existing buildings would be required at each of the alternate sites. Dredging would occur at the existing site; however, no CDFs would be created.

All four sites are developed to varying degrees and do not contain any significant biological resources, as allowed by the constraints of the alternate site. As a result, impact to biological resources would be similar to the proposed Project. Implementation of Mitigation Measure **MM BIO-1** would be applicable to this alternative and implementation of this mitigation measure would result in a less than significant impact.

### 6.3.3.1.7 Alternative 6 – No Project

Under this alternative, no improvements would occur on the site and no action would be taken by the tenant to bring the site into compliance with the applicable surface water quality standards. As a result, operation of ALBS would cease and the site would be cleared of all structures. Because the site would be cleared, operational impacts on biological resources would not occur. Some construction impacts could occur during the construction process as the site is cleared and the contaminated sediments in Fish Harbor are dredged, but these impacts would not be any greater than under the proposed Project. Overall, biological impacts would be slightly less under this alternative than the proposed Project, due to the cease in operations.

### 6.3.3.1.8 Alternative 7 – No Federal Action

This alternative would involve the implementation of only the landside Project components. None of the Project components that would require a USACE Permit (i.e., all Project components that occur within the water) would be constructed.

The overall amount of development of this alternative would be much smaller than the proposed Project, and Project impacts would be much less than the proposed Project. Because this alternative would not impact the marine environment, no impacts to biological resources would occur.

## 6.3.4 Resources with Less than Significant Impacts

As noted above, the remaining nine environmental resources (Aesthetics and Visual Resources, Geology, Groundwater and Soils, Hazards and Hazardous Materials, Land Use, Population and Housing, Public Services and Utilities, Traffic and Transportation, and Water Quality, Sediments, and Oceanography) have no potentially significant impacts associated, as analyzed in Chapter 3 for the proposed Project and following is a qualitative analysis for each alternative:

## 6.3.4.1 Aesthetics and Visual Resources

### 6.3.4.1.1 Proposed Project

The ALBS site is a flat 7.70-acre parcel located within Fish Harbor in the larger Port of Los Angeles. The boatyard is comprised of aging infrastructure, such as the existing boat docks, piers, marine railways, a floating dry dock, and a number of structures. The facilities on the site are generally dilapidated and in need of improvement.

The Key Observation Points (KOPs) for visual impact analysis generally encompasses the following: 1) Fish Harbor and the surrounding areas (KOP-1); 2) the Ports O'Call Village commercial and recreational area (KOP-2); 3) Harbor Boulevard/Harbor Scenic Route (KOP-3); 4) residential areas of San Pedro (KOP-4); and, 5) San Pedro Bluffs and Friendship Park (KOP-5). Refer to Figure 3.1-3 for the location of the five KOPs.

Improvements on the site would be in keeping with the aesthetic character and quality of the site from key observation points, and sensitive viewer groups. Viewer groups may include two liveaboards (people living on their boats) within the Al Larson Marina, tourists, recreationists within the Harbor, boaters using the Harbor, commuting motorists, and workers within the Port.

Implementation of the proposed Project that would alter the aesthetic character and quality on the site would involve the construction and installation of new 600- and 100-ton boat hoists (these would be approximately 53 and 32 feet in height, respectively) at the dry dock pier along the north end of the Project site, the demolition of several buildings to create the necessary turning radius for the boat hoists, the construction of a new 2,400 square foot building, various water quality improvements, and various infrastructure improvements such as installation of lighting and high-strength pavement.

The visual changes that would result from implementation of the proposed Project would occur within the Port Complex, and would be similar to views of the existing ALBS and adjacent operations. Development in this area over the course of the past century, such as the construction of breakwaters, dredging of harbor waters, creation of landfills for use as terminals and berths, and construction of the required infrastructure needed to support Port operations have completely transformed the original natural setting, into a highly engineered landscape that is visually dominated by large-scale man-made features. As a result, the visual impacts would be less than significant.

### 6.3.4.1.2 Alternative 1 – Reduced Project: Water Quality Improvements

Alternative 1 would reduce the amount of visual changes that would occur on the site in comparison to the proposed Project, as this alternative would not implement any of the proposed improvements on the site with the exception of implementation of measures to comply with Los Angeles RWQCB requirements. Improvements associated with Los Angeles RWQCB requirements include either placing dikes around the existing buildings and/or changing the slope of the site to drain away from Fish Harbor. Under this alternative, very few changes to the site would occur. No demolition of existing structures would occur, no new building would be added to the site, and the new boat hoists would not be installed. The site would remain visually similar to its current condition. While the visual changes would be less under Alternative 1, the character and quality of site would continue to be that of a working boat shop under both Alternative 1 and the proposed Project. As a result, the visual impacts under this alternative would be similar, although reduced, as compared to the proposed Project and, therefore, less than significant.

### 6.3.4.1.3 Alternative 2 – Reduced Project: Limited Demolition

Alternative 2 would reduce the total amount of development on the site slightly in comparison to the proposed Project. This alternative would be similar to the proposed Project; however, unlike the proposed Project only some of the three potentially historic structures (Buildings C1, A2, or A3) would be demolished. In addition, the new building would not be constructed under this alternative. All of the other Project components would be the same as the proposed Project. Under this alternative, there would be slightly less demolition and the new building would not be constructed. Should the 600- and/or 100-ton boat hoists be installed at the site, these would be approximately 54 or 35 feet in height, respectively. As a result, the visual impacts under this alternative would be similar to, although slightly reduced, as compared to the proposed Project and, therefore, less than significant.

### 6.3.4.1.4 Alternative 3 - Retention of Historic Buildings

This alternative would reduce the overall amount of development on the site slightly in comparison to the proposed Project. This alternative would be similar to the proposed Project; however, the potentially historic buildings (Buildings C1, A2, or A3) would not be demolished. In addition, the new building would not be constructed on the site. All of the other Project components would be the same as the proposed Project. However, because the existing historic buildings would not be demolished or relocated, implementation of this alternative would neither result in the complete modernization of the existing boat yard facilities nor provide for the same level of operational efficiency that would occur under the proposed Project. Under this alternative, there would be slightly less demolition, as all of the historic structures would be retained, and the new structure would not be constructed. Though the use would be restricted as compared to the proposed Project, the 600- and/or 100-ton boat hoists would be installed at the site (these would be approximately 54 or 35 feet in height, respectively). As a result, the visual impacts under this alternative would be similar to the proposed Project and, therefore, less than significant.

### 6.3.4.1.5 Alternative 4 – Relocation of Historic Buildings

This alternative would be the same as the proposed Project; however, LAHD would relocate all of the potentially historic buildings slated for demolition to another location within the Port. The relocation site would be one of two redevelopment project sites within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront project. All of the components of the proposed Project would be constructed under this alternative, as both buildings would be removed from the site. Under this alternative, impacts would occur beyond the boundaries of the existing ALBS site.

Under this alternative, visual impacts on the proposed Project site would be the same as under the proposed Project, as all of the components of the proposed Project would occur under this alternative. Because visual impacts under the proposed Project are less than significant, they would remain less than significant under this alternative as well.

However, under this alternative, the historic structures would be relocated to one of two redevelopment project sites within the Port. Relocation of the structures to either of the redevelopment project sites would be consistent with the Port's "*Guide to Leasing and Development for the Port of Los Angeles*", which incorporates long-range facility planning and objectives in the two redevelopment project areas. The Guide includes plans and objectives to that would be considered when relocating the structures, including maximizing the value of public use areas to the community. It is assumed that through

1 this process the structures would be located amongst compatible Port-related and visitor  
2 serving uses and would not result in a significant aesthetic impact to the surrounding  
3 viewpoints or viewer groups. The relocation would take into account the “*LA Waterfront*  
4 *Design Guidelines*,” which provides a framework for addressing development along the  
5 Los Angeles Waterfront (which includes the San Pedro and Wilmington waterfront  
6 project areas). The design guidelines bring together open space, architectural design,  
7 signage, lighting, and sustainability guidelines for the unified development of the Los  
8 Angeles Waterfront, while also connecting with the unique history and visions of San  
9 Pedro and Wilmington (POLA, 2011). In particular, not all of the sub-areas in the design  
10 guidelines could accommodate, for various reasons, the buildings being relocated (i.e.,  
11 sub-areas W3, 2, and 4). However, relocation would occur consistent with the Guide and  
12 Design Guidelines; therefore, this alternative would remain less than significant.

#### 13 **6.3.4.1.6 Alternative 5 – Alternate Site**

14 This alternative would construct and operate the ALBS at a different location elsewhere  
15 within the Port. LAHD has identified four possible alternate sites, which are shown on  
16 Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are  
17 located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue  
18 with vessel access from the Main Channel, and the fourth site is on the mainland, off the  
19 East Basin. ALBS would attempt to operate on one of the alternate sites at the same level  
20 and capacity as the proposed Project. Each alternate site has varying levels of  
21 development within its boundaries, which could impact potential ALBS operations at  
22 each of the four potential sites. Demolition of existing buildings would be required at  
23 each of the alternate sites.

24 Under this alternative, all facilities within the existing ALBS site would be removed and  
25 relocated to one of four alternate sites. As a result, the visual character of the Project site  
26 would change from a working boat facility to vacant land. The Project site is located  
27 within the working port and the visibility of the site to sensitive viewers is generally  
28 limited to the immediate area and the visual change would cause no unfavorable or  
29 additional contrast with features associated with the valued aesthetic image of the area.  
30 Further, there are other vacant lots located on Terminal Island and thus this change in  
31 visual character would not create an aesthetic discontinuity with the surrounding  
32 Terminal Island viewscape.

33 Relocation of the ALBS facilities to one of four alternative sites would result in visual  
34 impacts beyond the existing ALBS site. However, each of these sites are located within  
35 the Port and are far enough from residential or other sensitive viewers that a significant  
36 impact would not occur. This alternative would remain less than significant.

#### 37 **6.3.4.1.7 Alternative 6 – No Project**

38 Under this alternative, ALBS would not be in compliance with the current NPDES permit,  
39 which would require them to implement measures on the site to redirect stormwater away  
40 from Fish Harbor. Because no development would occur, including the required  
41 improvements, ALBS would cease operation on the site. Under this scenario, ALBS  
42 would be required to clear the site and return it to its original condition. As discussed for  
43 Alternative 5, under Alternative 6 the visual character of the Project site would change  
44 from a working boat facility to vacant land. The Project site is located within the  
45 working port and the visibility of the site to sensitive viewers is generally limited to the  
46 immediate area and the visual change would cause no unfavorable or additional contrast  
47 with features associated with the valued aesthetic image of the area. Further, there are  
48 other vacant lots located on Terminal Island and thus this change in visual character

1 would not create an aesthetic discontinuity with the surrounding Terminal Island  
2 viewscape.

### 3 **6.3.4.1.8 Alternative 7 – No Federal Action**

4 This alternative would reduce the overall amount of development on the Project site  
5 because only the landside construction would occur under this alternative. No  
6 maintenance dredging, CDF construction or construction of the concrete piers for the  
7 proposed 600- and 100-ton boat hoists would occur under this alternative.

8 Improvements would be made that would bring the operation into compliance with the  
9 NPDES stormwater requirements. As a result, ALBS would be able to enter into a new  
10 30-year lease.

11 In addition, the landside aging infrastructure would be improved, including the  
12 replacement of paving, lighting, and utilities. The potentially historic structures would  
13 also be removed under this alternative.

14 Under this alternative, the total overall amount of development on the site would be  
15 reduced as compared to the proposed Project. As a result, this impact would remain less  
16 than significant.

## 17 **6.3.4.2 Geology**

### 18 **6.3.4.2.1 Proposed Project**

19 Seismic activity along the Palos Verdes Fault zone, or other regional faults, would  
20 potentially produce fault rupture, seismic ground shaking, liquefaction, or other  
21 seismically induced ground failure. Seismic hazards are common to the Los Angeles  
22 region and would not be increased by the proposed Project. The Project site lies  
23 approximately 1,600 feet to the west of the Palos Verdes fault. Construction would occur  
24 over a three year period and increased exposure of people and property during  
25 construction to seismic hazards from a major or great earthquake cannot be precluded.  
26 Because active faults are located near the Project area, and the area is mapped within an  
27 area of historic liquefaction, there is a potential for substantial risk of seismic impacts and  
28 subsequent potential to contribute to seismically induced ground shaking that could result  
29 in injury to people and damage to structures, because of the increase in the amount of  
30 structures and people working at the Project site, and therefore the Port. However,  
31 incorporation of modern construction engineering and safety standards and compliance  
32 with current building regulations, impacts due to seismically induced ground failure would  
33 be less than significant.

34 In addition, exposures of people or property to tsunami risks are minimal due to the  
35 remote nature of the tsunamis in the Project area and the relative low water levels  
36 associated with the worst-case faulting scenario, which predicted shoreline tsunami water  
37 level at Fish Harbor ranges from 3.9 to 5.2 feet above MSL. The Project site ranges in  
38 elevation from 10.1 feet above MSL (7.3 feet MLLW) along the timber wharf to  
39 approximately 14.8 feet MSL (12 feet above MLLW) in the upland areas. Flood hazard  
40 maps prepared by researchers at the Pacific Institute suggest that sea level rise of 1.4  
41 meters (55.11 inches or approximately 5 feet) would have some direct impact on the  
42 existing ALBS site and surroundings. Its predicted that over the next century sea level  
43 could rise as much as approximately 6 feet (69 inches) and over the ALBS 30-year lease  
44 term (and beyond - through 2050), sea levels are predicted to rise by 1.5 feet (17 inches)  
45 or less. This is not significant; therefore, as with the proposed Project, the site is not  
46 expected to be significantly impacted by sea level rise. Further, measures to minimize

1 impacts from seiches or tsunamis, such as the breakwater and constructing facilities at  
2 adequate elevation, are currently in place throughout the Port, which would also serve to  
3 limit the effects of sea level rise. Therefore, impacts would be less than significant.

#### 4 **6.3.4.2.2 Alternative 1 – Reduced Project: Water Quality Improvements**

5 Alternative 1 would substantially reduce the amount of development on the site in  
6 comparison to the proposed Project, as this alternative would not implement any of the  
7 proposed improvements on the site with the exception of implementation of measures to  
8 comply with Los Angeles RWQCB requirements. Improvements associated with Los  
9 Angeles RWQCB requirements include either placing dikes around the existing buildings  
10 and/or changing the slope of the site to drain away from Fish Harbor.

11 This alternative would occur entirely within the existing Project site, which lies  
12 approximately 1,600 feet to the west of the Palos Verdes fault. As such, there is a risk of  
13 seismic impact such as fault rupture, seismic ground shaking, liquefaction, or other  
14 seismically induced ground failure. Under this alternative, construction would be  
15 relatively minor and fewer people would be exposed to geologic hazards compared with  
16 the proposed Project. In addition, exposures of people or property to tsunami risks are  
17 minimal due to the remote nature of the tsunamis in the Project area and the relative low  
18 water levels associated with the worst-case faulting scenario, which predicted shoreline  
19 tsunami water level at Fish Harbor ranges from 3.9 to 5.2 feet above MSL. The Project  
20 site ranges in elevation from 10.1 feet above MSL (7.3 feet MLLW) along the timber  
21 wharf to approximately 14.8 feet MSL (12 feet above MLLW) in the upland areas. Flood  
22 hazard maps prepared by researchers at the Pacific Institute suggest that sea level rise of  
23 1.4 meters (55.11 inches or approximately 5 feet) would have some direct impact on the  
24 existing ALBS site and surroundings. Its predicted that over the next century sea level  
25 could rise as much as approximately 6 feet (69 inches) and over the ALBS 30-year lease  
26 term (and beyond - through 2050), sea levels are predicted to rise by 1.5 feet (17 inches)  
27 or less. This is not significant; therefore, as with the proposed Project, the site is not  
28 expected to be significantly impacted by sea level rise. Further, measures to minimize  
29 impacts from seiches or tsunamis, such as the breakwater and constructing facilities at  
30 adequate elevation, are currently in place throughout the Port, which would also serve to  
31 limit the effects of sea level rise. Therefore, impacts would be less than significant.

#### 32 **6.3.4.2.3 Alternative 2 – Reduced Project: Limited Demolition**

33 Alternative 2 would reduce the total amount of development on the site slightly in  
34 comparison to the proposed Project. This alternative would be similar to the proposed  
35 Project; however, unlike the proposed Project only some of the three potentially historic  
36 structures (Buildings C1, A2, or A3) would be demolished. In addition, the new building  
37 would not be constructed under this alternative. All of the other Project components  
38 would be the same as the proposed Project.

39 Because most of the Project components would be implemented, an additional 30  
40 employees could be added to the site. Increased exposure of people to seismic hazards  
41 during operations cannot be precluded. Incorporation of modern construction  
42 engineering and safety standards and compliance with current building regulations,  
43 impacts due to seismically induced ground failure would be similar to the proposed Project  
44 and less than significant. In addition, exposures of people or property to tsunami risks are  
45 minimal due to the remote nature of the tsunamis in the Project area and the relative low  
46 water levels associated with the worst-case faulting scenario, which predicted shoreline  
47 tsunami water level at Fish Harbor ranges from 3.9 to 5.2 feet above MSL. The Project

1 site ranges in elevation from 10.1 feet above MSL (7.3 feet MLLW) along the timber  
2 wharf too approximately 14.8 feet MSL (12 feet above MLLW) in the upland areas.  
3 During the next 30 years, sea level rise at the Project site is predicted to rise by 1.5 feet  
4 (17 inches) or less. This is not significant; therefore, as with the proposed Project, the  
5 site is not expected to be significantly impacted by sea level rise. Further, measures to  
6 minimize impacts from seiches or tsunamis, such as the breakwater and constructing  
7 facilities at adequate elevation, are currently in place throughout the Port, which would  
8 also serve to limit the effects of sea level rise. As a result, this alternative would be less  
9 than significant.

#### 10 **6.3.4.2.4 Alternative 3 - Retention of Historic Buildings**

11 This alternative would reduce the overall amount of development on the site slightly in  
12 comparison to the proposed Project. This alternative would be similar to the proposed  
13 Project; however, the historic buildings (Buildings C1, A2, or A3) would not be  
14 demolished and the new building would not be constructed. All of the other Project  
15 components would be the same as the proposed Project. However, because the existing  
16 historic buildings would not be demolished or relocated, implementation of this  
17 alternative would neither result in the complete modernization of the existing boat yard  
18 facilities nor provide for the same level of operational efficiency that would occur under  
19 the proposed Project.

20 Because most of the Project components would be implemented, an additional 30  
21 employees could be added to the site. Increased exposure of people to seismic hazards  
22 during operations cannot be precluded. When compared to the proposed Project, and  
23 incorporation of modern construction engineering and safety standards and compliance  
24 with current building regulations, impacts due to seismically induced ground failure would  
25 be less than significant. In addition, exposures of people or property to tsunami risks are  
26 minimal due to the remote nature of the tsunamis in the Project area and the relative low  
27 water levels associated with the worst-case faulting scenario, which predicted shoreline  
28 tsunami water level at Fish Harbor ranges from 3.9 to 5.2 feet above MSL. The Project  
29 site ranges in elevation from 10.1 feet above MSL (7.3 feet MLLW) along the timber  
30 wharf too approximately 14.8 feet MSL (12 feet above MLLW) in the upland areas.  
31 During the next 30 years, sea level rise at the Project site is predicted to rise by 1.5 feet  
32 (17 inches) or less. This is not significant; therefore, as with the proposed Project, the  
33 site is not expected to be significantly impacted by sea level rise. Further, measures to  
34 minimize impacts from seiches or tsunamis, such as the breakwater and constructing  
35 facilities at adequate elevation, are currently in place throughout the Port, which would  
36 also serve to limit the effects of sea level rise. As a result, this alternative would be less  
37 than significant.

#### 38 **6.3.4.2.5 Alternative 4 – Relocation of Historic Buildings**

39 This alternative would be the same as the proposed Project; however, LAHD would  
40 relocate all of the potentially historic buildings slated for demolition to another location  
41 within the Port. The relocation site would be one of two redevelopment project sites  
42 within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront project.  
43 All of the components of the proposed Project would be constructed under this  
44 alternative, as both buildings would be removed from the site. Under this alternative,  
45 impacts would occur beyond the boundaries of the existing ALBS site.

46 The relocation sites are within the Port and are in the area of the Palos Verdes Fault zone.  
47 Because the Project components would be implemented, and an additional 30 employees  
48 would be added to the facility, this increased exposure of people to seismic hazards



1 cannot be precluded. When compared to the proposed Project, and incorporation of  
2 modern construction engineering and safety standards and compliance with current  
3 building regulations, impacts due to seismically induced ground failure would be less than  
4 significant. In addition, exposures of people or property to tsunami risks are minimal due  
5 to the remote nature of the tsunamis in the Project area and the relative low water levels  
6 associated with the worst-case faulting scenario, which predicted shoreline tsunami water  
7 level at Fish Harbor ranges from 3.9 to 5.2 feet above MSL. The Project site ranges in  
8 elevation from 10.1 feet above MSL (7.3 feet MLLW) along the timber wharf to  
9 approximately 14.8 feet MSL (12 feet above MLLW) in the upland areas. During the  
10 next 30 years, sea level rise at the Project site is predicted to rise by 1.5 feet (17 inches)  
11 or less. This is not significant; therefore, as with the proposed Project, the site is not  
12 expected to be significantly impacted by sea level rise. Further, measures to minimize  
13 impacts from seiches or tsunamis, such as the breakwater and constructing facilities at  
14 adequate elevation, are currently in place throughout the Port, which would also serve to  
15 limit the effects of sea level rise. As a result, this alternative would be less than  
16 significant.

#### 17 **6.3.4.2.6 Alternative 5 – Alternate Site**

18 This alternative would construct and operate the ALBS at a different location elsewhere  
19 within the Port. LAHD has identified four possible alternate sites, which are shown on  
20 Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are  
21 located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue  
22 with vessel access from the Main Channel, and the fourth site is on the mainland, off the  
23 East Basin. ALBS would attempt to operate on one of the alternate sites at the same level  
24 and capacity as the proposed Project. Each alternate site has varying levels of  
25 development within its boundaries, which could impact potential ALBS operations at  
26 each of the four potential sites. Demolition of existing buildings would be required at  
27 each of the alternate sites.

28 Similar to the proposed Project, use of an alternate site within the Port Complex would  
29 result in a similar exposure of people during both operations and construction to seismic  
30 hazards such as seismic shaking, fault rupture, liquefaction, or other seismically induced  
31 ground failure. The alternate sites near the Project site (within Fish Harbor) are located a  
32 similar distance from the Palos Verdes Fault zone. The site along the Main Channel  
33 would be further from this fault but still in the general area. Because the Project  
34 components would be implemented at nearby sites, and an additional 30 employees  
35 would be added to the facility, this increased exposure of people to seismic hazards  
36 cannot be precluded. When compared to the proposed Project, and incorporation of  
37 modern construction engineering and safety standards and compliance with current  
38 building regulations, impacts due to seismically induced ground failure would be less than  
39 significant. In addition, exposures of people or property to tsunami risks are minimal due  
40 to the remote nature of the tsunamis in the Project area and the relative low water levels  
41 associated with the worst-case faulting scenario, which predicted shoreline tsunami water  
42 level at Fish Harbor ranges from 3.9 to 5.2 feet above MSL. During the next 30 years,  
43 sea level rise is not expected to significantly impact the Port. Further, measures to  
44 minimize impacts from seiches or tsunamis, such as the breakwater and constructing  
45 facilities at adequate elevation, are currently in place throughout the Port, which would  
46 also serve to limit the effects of sea level rise. It is assumed that elevations at the new  
47 site would be similar to elevations that of other areas within the Port, and as a result, this  
48 alternative would be less than significant.

#### 6.3.4.2.7 Alternative 6 – No Project

Under this alternative, ALBS would not be in compliance with the current NPDES permit, which would require them to implement measures on the site to redirect stormwater away from Fish Harbor. Because no development would occur, including the required improvements, the existing lease would be revoked, forcing ALBS to cease operation on the site. Under this scenario, ALBS would be required to clear the site and return it to its original condition. This alternative would have fewer impacts related to geologic resources than the proposed Project, including impacts from seismically induced events.

The No Project Alternative would expose fewer people and structures to potential fault rupture, seismic ground shaking, liquefaction, other seismically-induced ground failure within the Project area, and tsunami and sea level rise, as the site would be completely cleared of all operations and employees.

Impacts from seismically induced events would be completely eliminated when compared to the proposed Project because the site would be completely cleared of structures and employees. As a result, this alternative would be less than significant.

#### 6.3.4.2.8 Alternative 7 – No Federal Action

This alternative would reduce the overall amount of development on the Project site because only the landside construction would occur under this alternative. No maintenance dredging, CDF construction or construction of the concrete piers for the proposed 600- and 100-ton boat hoists would occur under this alternative. Improvements would be made that would bring the operation into compliance with the NPDES stormwater requirements. As a result, ALBS would be able to enter into a new 30-year lease. In addition, the landside aging infrastructure would be improved, including the replacement of paving, lighting, and utilities. The potentially historic structures would also be removed under this alternative.

Because the Project components would be implemented, and an additional 30 employees would be added to the facility, this increased exposure of people to seismic hazards cannot be precluded. When compared to the proposed Project, and incorporation of modern construction engineering and safety standards and compliance with current building regulations, impacts due to seismically induced ground failure would be less than significant. In addition, exposures of people or property to tsunami risks are minimal due to the remote nature of the tsunamis in the Project area and the relative low water levels associated with the worst-case faulting scenario, which predicted shoreline tsunami water level at Fish Harbor ranges from 3.9 to 5.2 feet above MSL. The Project site ranges in elevation from 10.1 feet above MSL (7.3 feet MLLW) along the timber wharf to approximately 14.8 feet MSL (12 feet above MLLW) in the upland areas. During the next 30 years, sea level rise at the Project site is predicted to rise by 1.5 feet (17 inches) or less. This is not significant; therefore, as with the proposed Project, the site is not expected to be significantly impacted by sea level rise. Further, measures to minimize impacts from seiches or tsunamis, such as the breakwater and constructing facilities at adequate elevation, are currently in place throughout the Port, which would also serve to limit the effects of sea level rise. As a result, this alternative would be less than significant.

### 6.3.4.3 Groundwater and Soils

#### 6.3.4.3.1 Proposed Project

The proposed Project site is located within the West Coast Basin of the Los Angeles Coastal Groundwater Basin. There are no designated groundwater recharge areas at the proposed Project site or in the vicinity, and only saline or otherwise non-potable groundwater underlies the coastal areas of the Los Angeles Basin.

Soil and/or groundwater contamination has been identified during previous investigations that were conducted at the Project site, as discussed in Section 3.6.2.3. Those results indicated that there are two issue areas within the Project site, including: 1) the northernmost portion of the site, which is contaminated with TPH and PCBs; and, 2) the marine railways, which is contaminated primarily as a result of spend sandblast grit. The construction and operation of the proposed Project would expose on-site personnel to soil contamination; however, the proposed Project would handle, transport, remediate, and/or dispose all contaminated soil in accordance with all applicable federal, state, and local laws and regulations and in accordance with the LAHD's Site Remediation and Contamination Contingency Plan Lease Requirements which would result in a less than significant Project-level impact.

#### 6.3.4.3.2 Alternative 1 – Reduced Project: Water Quality Improvements

This alternative would significantly decrease the amount of redevelopment on the Project site by eliminating all of the proposed improvements with the exception of those that would ensure compliance with the WDR and NPDES requirements to remain in operation. Because the majority of the improvements would not occur under this alternative, the amount of construction, including activities such as grading, trenching, and dredging, would not occur, which would reduce the possibility of exposing people to contaminated materials during the construction process. In addition, the potential for contaminated soils to impact other areas and/or ground water would be reduced, as they would not be disturbed through the construction process. Although the cleanup of legacy soils would not occur under this alternative, the conditions would not worsen as a result of this alternative. As a result, this alternative would remain less than significant. However, the benefits associated with the cleanup of legacy contaminants would not occur.

Because of the fragmented and saline nature of the groundwater beneath the site, the groundwater is unusable for human purposes. Neither the proposed Project nor this alternative would significantly impact groundwater use, levels, or flows. Therefore, impacts under this alternative would be less than significant.

#### 6.3.4.3.3 Alternative 2 – Reduced Project: Limited Demolition

The alternative would be similar to the proposed Project; however, unlike the proposed Project only some of the three potentially historic structures (Buildings C1, A2, or A3) would be demolished and no new building would be constructed. . Some of the legacy landside contamination and all the dredging of contaminated sediment and creation of CDFs associated the proposed would occur under this alternative. As a result, most of the proposed operational increases would occur, including the proposed increase in the number of ships serviced at the site and an increase in the number of employees at the site. Because impacts would be similar to the proposed Project, impacts would remain less than significant. However, the benefits associated with the cleanup of the landside legacy contaminants would be reduced.

1 Because of the fragmented and saline nature of the groundwater beneath the site, the  
2 groundwater is unusable for human purposes. Neither the proposed Project nor this  
3 alternative would significantly impact groundwater use, levels, or flows. Therefore,  
4 impacts under this alternative would be less than significant.

#### 5 **6.3.4.3.4 Alternative 3 – Retention of Historic Buildings**

6 The alternative would decrease the amount of development on the site, as all the  
7 potentially historic buildings would be retained and the new building would not be  
8 needed. Landside legacy contaminants would not be remediated under this alternative,  
9 but the dredging of legacy contaminated sediments would be placed in the two CDF's.  
10 Construction activities would be similar, with a decrease in the demolition activities  
11 because the potentially historic structures would not be demolished. Since none of the  
12 potentially historic structures would be demolished, the proposed operational increases  
13 would be limited, particularly related to the safety and efficient operation of one or both  
14 of the new boat hoists (assuming either would be deemed economical under the  
15 restrictive site lay out under this alternative). Because impacts would be similar or less  
16 than the proposed Project, impacts would be less than significant. However, the benefits  
17 associated with the cleanup of the landside legacy contaminants would be reduced.

18 Because of the fragmented and saline nature of the groundwater beneath the site, the  
19 groundwater is unusable for human purposes. Neither the proposed Project nor this  
20 alternative would significantly impact groundwater use, levels, or flows. Therefore,  
21 impacts under this alternative would be less than significant.

#### 22 **6.3.4.3.5 Alternative 4 –Relocation of Historic Buildings**

23 This alternative would be the same as the proposed Project; however, LAHD would  
24 relocate three of the potentially historic buildings slated for demolition to another  
25 location within the Port. The relocation site would be one of two redevelopment project  
26 sites within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront  
27 project. All of the components of the proposed Project would be constructed under this  
28 alternative, including the cleanup of legacy contaminants in soils and sediment, as all the  
29 buildings proposed for removal would be eliminated from the site.

30 Under this alternative, all of the proposed operational increases would occur, including  
31 the proposed increase in the number of ships serviced at the site and an increase in the  
32 number of employees at the site. Construction activities on the site would be similar to  
33 the proposed Project, except that the potentially historic structures would be relocated  
34 instead of demolished. As a result, impacts would be less than significant.

35 Because of the fragmented and saline nature of the groundwater beneath the site, the  
36 groundwater is unusable for human purposes. Neither the proposed Project nor this  
37 alternative would significantly impact groundwater use, levels, or flows. Therefore,  
38 impacts under this alternative would be less than significant.

39 Because the buildings would potentially be relocated elsewhere within the Port, the  
40 potential impact area would expand beyond the existing Project site. However, measures  
41 would be taken at either of the redevelopment sites through their respective entitlement  
42 processes to reduce construction impacts to groundwater and soils. As a result, relocation  
43 of the historic structures would remain less than significant.

#### 6.3.4.3.6 Alternative 5 – Alternate Site

This alternative would construct and operate the ALBS at a different location elsewhere within the Port. LAHD has identified four possible alternate sites, which are shown on Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue with vessel access from the Main Channel, and the fourth site is on the mainland, off the East Basin. ALBS would attempt to operate on one of the alternate sites at the same level and capacity as the proposed Project. Each alternate site has varying levels of development within its boundaries, which could impact potential ALBS operations at each of the four potential sites.

All four sites are developed to varying degrees and three of the four sites currently contain historic resources that would have to be demolished to make room for ALBS operations. Three of the alternate sites are located within the immediate vicinity of the existing Project site, and likely have similar contamination issues. As a result, both construction and operation impacts would likely be similar to the proposed Project. Similar to the proposed Project, the soils on an alternate site would be cleaned during the construction process, resulting in a beneficial impact on soils. Measures would be required by the LAHD through lease conditions to reduce impacts to groundwater and soils at all of the alternate sites, similar those required at the proposed Project site. Additionally, cleanup of soil and sediment contamination at the existing site would be occur; however, no CDFs would be created and instead the contaminated dredge material would be hauled off-site. Because impacts under this alternative would similar to the proposed Project, this alternative would remain less than significant.

Because of the fragmented and saline nature of the groundwater beneath Port Complex, the groundwater is unusable for human purposes. Neither the proposed Project nor this alternative would significantly impact groundwater use, levels, or flows. Therefore, impacts under this alternative would be less than significant.

#### 6.3.4.3.7 Alternative 6 – No Project

Under this alternative, ALBS would not be in compliance with the current NPDES permit, which would require them to implement measures on the site to redirect stormwater away from Fish Harbor. They would be required to cease operation on the site, and then clear the site of all operations. Under this alternative, impacts to groundwater and soils would be eliminated and ALBS would be required to return the site to its original conditions, including cleanup of legacy contamination in the soils and sediment. No CDFs would be created and instead the contaminated dredge material would be hauled off-site. As a result, this alternative would be less than significant.

Because of the fragmented and saline nature of the groundwater beneath the site, the groundwater is unusable for human purposes. Neither the proposed Project nor this alternative would significantly impact groundwater use, levels, or flows. Therefore, impacts under this alternative would be less than significant.

#### 6.3.4.3.8 Alternative 7 – No Federal Action

This alternative would reduce the overall amount of development on the site because only the landside construction would occur, allowing ALBS to remain in operation. There would be no maintenance dredging, no CDF construction, and no construction of the concrete piers for the new 600- and 100-ton boat hoists. Landside legacy contamination would be removed under this alternative similar to the proposed Project.

1 Because the majority of the improvements would not occur under this alternative (all the  
2 improvements within or over the water), the amount of construction, including activities  
3 such as grading, trenching, and dredging, would be greatly reduced, which would reduce  
4 the possibility of exposing people to contaminated materials during the construction  
5 process. As a result, overall this alternative would be less than the proposed Project and  
6 less than significant.

7 Because of the fragmented and saline nature of the groundwater beneath the site, the  
8 groundwater is unusable for human purposes. Neither the proposed Project nor this  
9 alternative would significantly impact groundwater use, levels, or flows. Therefore,  
10 impacts under this alternative would be less than significant.

#### 11 **6.3.4.4 Hazards and Hazardous Materials**

##### 12 **6.3.4.4.1 Proposed Project**

13 The primary features of the proposed Project that could contribute to increased risks  
14 include activities associated with the demolition of the existing buildings, timber wharf,  
15 finger piers, and other ancillary structures, excavation and grading (including removal of  
16 contaminated soils), dredging, and creation of the two CDFs.

17 The proposed Project site contains known and potentially unknown contamination related  
18 to past uses on the site and other uses in the Project vicinity; however, these areas are not  
19 expected to pose an exposure risk to the public or to the environment under the proposed  
20 Project. Construction and operation of the proposed Project would not involve the  
21 handling of significant amounts of hazardous materials beyond those needed for  
22 construction equipment and activities, and normal boat building/maintenance operations.  
23 Furthermore, with the implementation of BMPs and compliance with the state and federal  
24 requirements for the transport, handling, and storage of any hazardous materials would  
25 minimize the potential for an accidental release of hazardous materials and/or explosion  
26 during construction and operation of the proposed Project

27 The proposed Project would be subject to applicable federal, state, and local laws and  
28 regulations governing the spill prevention, storage, use, and transport of hazardous  
29 materials, as well as emergency response to hazardous material spills, thus minimizing  
30 the potential for adverse health and safety impacts. Compliance with all applicable  
31 hazardous waste laws and regulations would help ensure the safe development and  
32 operation of the expanded ALBS; therefore, impacts would be less than significant.

33 In addition, the contractor would coordinate with the agencies responsible for the  
34 emergency response and evacuation planning: the LAPD, LAFD, Port Police, and USCG.  
35 Construction and demolition activities would be subject to emergency response and  
36 evacuation systems implemented by LAFD.

##### 37 **6.3.4.4.2 Alternative 1 – Reduced Project: Water Quality Improvements**

38 Alternative 1 would substantially reduce the amount of development on the site in  
39 comparison to the proposed Project, as this alternative would not implement any of the  
40 proposed improvements on the site with the exception of implementation of measures to  
41 comply with Los Angeles RWQCB requirements. Improvements associated with Los  
42 Angeles RWQCB requirements include either placing dikes around the existing buildings  
43 and/or changing the slope of the site to drain away from Fish Harbor.

44 Under this alternative, very few changes to the site would occur. No demolition of  
45 existing structures would occur, the new building would not be added to the site, the new  
46 boat hoists would not be installed, and no dredging or creation of CDF's would occur.

1 As a result, existing legacy contaminated soils and sediments would not be disturbed and  
2 operations would not increase so the amount of hazardous materials used on the site  
3 would also not increase, as compared to the proposed Project. As a result, impacts under  
4 this alternative would be less than the proposed Project and, therefore, less than  
5 significant.

#### 6 **6.3.4.4.3 Alternative 2 – Reduced Project: Limited Demolition**

7 Alternative 2 would be similar to the proposed Project; however, unlike the proposed  
8 Project only some of the three potentially historic structures (Buildings C1, A2, or A3)  
9 would be demolished. In addition, the new building would not be constructed under this  
10 alternative. All of the other Project components would be the same as the proposed  
11 Project.

12 Under this alternative, the amount of demolition and construction would be reduced, and  
13 the proposed Project site would not operate at its maximum potential as compared to the  
14 proposed Project. As a result, impacts under this alternative would be less than the  
15 proposed Project and, therefore, less than significant. As with the proposed Project, this  
16 alternative would be subject to applicable federal, state, and local laws and regulations  
17 governing the spill prevention, storage, use, and transport of hazardous materials, as well  
18 as emergency response to hazardous material spills, thus minimizing the potential for  
19 adverse health and safety impacts. Compliance with all applicable hazardous waste laws  
20 and regulations would help ensure the safe development and operation of the expanded  
21 ALBS; therefore, impacts would be less than significant.

22 In addition, the contractor would coordinate with the agencies responsible for the  
23 emergency response and evacuation planning: the LAPD, LAFD, Port Police, and USCG.  
24 Construction and demolition activities would be subject to emergency response and  
25 evacuation systems implemented by LAFD.

#### 26 **6.3.4.4.4 Alternative 3 - Retention of Historic Buildings**

27 This alternative would reduce the overall amount of development on the site slightly in  
28 comparison to the proposed Project. This alternative would be similar to the proposed  
29 Project; however, the three potentially historic structures (Buildings C1, A2, or A3)  
30 would not be demolished and no new building would be constructed. All of the other  
31 Project components would be the same as the proposed Project. However, because the  
32 existing historic buildings would not be demolished or relocated, implementation of this  
33 alternative would neither result in the complete modernization of the existing boat yard  
34 facilities nor provide for the same level of operational efficiency that would occur under  
35 the proposed Project.

36 Under this alternative, the amount of demolition and construction would be reduced, and  
37 the proposed Project site would not operate at its maximum potential as compared to the  
38 proposed Project. As a result, impacts under this alternative would be less than the  
39 proposed Project and, therefore, less than significant. As with the proposed Project, this  
40 alternative would be subject to applicable federal, state, and local laws and regulations  
41 governing the spill prevention, storage, use, and transport of hazardous materials, as well  
42 as emergency response to hazardous material spills, thus minimizing the potential for  
43 adverse health and safety impacts. Compliance with all applicable hazardous waste laws  
44 and regulations would help ensure the safe development and operation of the expanded  
45 ALBS; therefore, impacts would be less than significant.

46 In addition, the contractor would coordinate with the agencies responsible for the  
47 emergency response and evacuation planning: the LAPD, LAFD, Port Police, and USCG.

1 Construction and demolition activities would be subject to emergency response and  
2 evacuation systems implemented by LAFD.

#### 3 **6.3.4.4.5 Alternative 4 – Relocation of Historic Buildings**

4 This alternative would be the same as the proposed Project; however, LAHD would  
5 relocate all of the potentially historic buildings slated for demolition to another location  
6 within the Port. The relocation site would be one of two redevelopment project sites  
7 within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront project.  
8 Should one of the two buildings not be relocated, it would be demolished. All of the  
9 components of the proposed Project would be constructed under this alternative, as both  
10 buildings would be removed from the site. Under this alternative, impacts would occur  
11 beyond the boundaries of the existing ALBS site.

12 Because all of the Project components would be constructed under this alternative,  
13 impacts would be the same as the proposed Project. The proposed Project would result in  
14 similar impacts; as a result, this alternative would be less than significant. As with the  
15 proposed Project, this alternative would be subject to applicable federal, state, and local  
16 laws and regulations governing the spill prevention, storage, use, and transport of  
17 hazardous materials, as well as emergency response to hazardous material spills, thus  
18 minimizing the potential for adverse health and safety impacts. Compliance with all  
19 applicable hazardous waste laws and regulations would help ensure the safe development  
20 and operation of the expanded ALBS; therefore, impacts would be less than significant.

21 In addition, the contractor would coordinate with the agencies responsible for the  
22 emergency response and evacuation planning: the LAPD, LAFD, Port Police, and USCG.  
23 Construction and demolition activities would be subject to emergency response and  
24 evacuation systems implemented by LAFD.

#### 25 **6.3.4.4.6 Alternative 5 – Alternate Site**

26 This alternative would construct and operate the ALBS at a different location elsewhere  
27 within the Port. LAHD has identified four possible alternate sites, which are shown on  
28 Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are  
29 located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue  
30 with vessel access from the Main Channel, and the fourth site is on the mainland, off the  
31 East Basin. ALBS would attempt to operate on one of the alternate sites at the same level  
32 and capacity as the proposed Project. Each alternate site has varying levels of  
33 development within its boundaries, which could impact potential ALBS operations at  
34 each of the four potential sites. Demolition of existing buildings would be required at  
35 each of the alternate sites.

36 Under this alternative, the amount of demolition would increase, as the entire existing site  
37 would be cleared, which would increase the potential exposure of workers to asbestos-  
38 containing materials (ACM), lead-containing paint (LCP), and/or other hazardous  
39 materials (e.g., mercury-containing switches, equipment containing PCBs), which could  
40 involve potential health hazards. Removal of buildings at the alternate site could also  
41 potentially expose workers to ACM, LCP, and/or other hazardous materials, as well as  
42 potential exposure to soil contamination should it be present at the alternative site.  
43 Known or suspected contaminated substances in structures and soil would be removed in  
44 accordance with federal, state, and local regulations prior to demolition, thereby  
45 minimizing the exposure of construction workers to contaminants, and minimizing the  
46 potential for releases of such substances to the environment.



1 The clearing of the site would allow for the landside legacy containments to be cleared  
2 across the entire site as opposed to the proposed Project where legacy contaminants  
3 below the remaining buildings would not be removed, and legacy contaminants in fish  
4 harbor would be dredged. The contaminated soils and dredge material would be hauled  
5 to an appropriate landfill for disposal.

6 Similar to the proposed Project, use of an alternate site within the Port Complex would  
7 result in a similar exposure of people during both operations and construction to hazards  
8 and hazardous materials because the Project would operate as close to peak conditions as  
9 possible at the alternate site. As with the proposed Project, this alternative would be  
10 subject to applicable federal, state, and local laws and regulations governing the spill  
11 prevention, storage, use, and transport of hazardous materials, as well as emergency  
12 response to hazardous material spills, thus minimizing the potential for adverse health  
13 and safety impacts. In addition, the contractor would coordinate with the agencies  
14 responsible for the emergency response and evacuation planning: the LAPD, LAFD, Port  
15 Police, and USCG. Construction and demolition activities would be subject to  
16 emergency response and evacuation systems implemented by LAFD.

17 Given that workers would have a increased potential for exposure to hazardous materials  
18 during construction activities due the greater amount of demolition that would occur  
19 under Alternative 6, the impact would be slightly greater as compared to the proposed  
20 Project. However, compliance with all applicable hazardous waste laws and regulations  
21 would help ensure the safe development and operation of the expanded ALBS; therefore,  
22 impacts would be less than significant.

#### 23 **6.3.4.4.7 Alternative 6 – No Project**

24 Under this alternative, ALBS would not be in compliance with the current NPDES permit,  
25 which would require them to implement measures on the site to redirect stormwater away  
26 from Fish Harbor. Because no development would occur, including the required  
27 improvements, the existing lease would be revoked, forcing ALBS to cease operation on  
28 the site. Under this scenario, ALBS would be required to clear the site and return it to its  
29 original condition.

30 Under this alternative, the amount of demolition would increase, as the entire site would  
31 be cleared, which would increase the potential exposure of workers to ACM, LCP, and/or  
32 other hazardous materials (e.g., mercury-containing switches, equipment containing  
33 PCBs), which could involve potential health hazards. Removal of buildings at the  
34 alternate site could also potentially expose workers to ACM, LCP, and/or other hazardous  
35 materials, as well as potential exposure to soil contamination should it be present at the  
36 alternate site. Known or suspected contaminated substances in structures and soil would  
37 be removed in accordance with federal, state, and local regulations prior to demolition,  
38 thereby minimizing the exposure of construction workers to contaminants, and minimizing  
39 the potential for releases of such substances to the environment.

40 The clearing of the site would allow for the landside legacy containments to be cleared  
41 across the entire site as opposed to the proposed Project where legacy contaminants  
42 below the remaining buildings would not be removed, and legacy contaminants in fish  
43 harbor would be dredged. The contaminated soils and dredge material would be hauled  
44 to an appropriate landfill for disposal.

45 No construction would occur under Alternative 6 and the proposed Project site would  
46 completely cease operations. The No Project Alternative would expose fewer people to

1 hazards and hazardous materials as compared to the proposed Project as operations would  
2 cease. As a result, impacts under this alternative would be less than significant.

### 3 **6.3.4.4.8 Alternative 7 – No Federal Action**

4 This alternative would reduce the overall amount of development on the Project site  
5 because only the landside construction would occur under this alternative. No dredging,  
6 CDF construction or construction of the concrete piers for the proposed 600- and 100-ton  
7 boat hoists would occur under this alternative.

8 Improvements would be made that would bring the operation into compliance with the  
9 NPDES stormwater requirements. As a result, ALBS would be able to enter into a new  
10 30-year lease.

11 Under this alternative, the amount of water side demolition and construction would be  
12 eliminated, and the boat shop would not operate at its maximum potential as compared to  
13 the proposed Project. As with the proposed Project, this alternative would be subject to  
14 applicable federal, state, and local laws and regulations governing the spill prevention,  
15 storage, use, and transport of hazardous materials, as well as emergency response to  
16 hazardous material spills, thus minimizing the potential for adverse health and safety  
17 impacts. Compliance with all applicable hazardous waste laws and regulations would  
18 help ensure the safe development and operation of the expanded ALBS; therefore,  
19 impacts would be less than significant.

20 In addition, the contractor would coordinate with the agencies responsible for the  
21 emergency response and evacuation planning: the LAPD, LAFD, Port Police, and USCG.  
22 Construction and demolition activities would be subject to emergency response and  
23 evacuation systems implemented by LAFD.

## 24 **6.3.4.5 Land Use**

### 25 **6.3.4.5.1 Proposed Project**

26 The proposed Project site would remain in use as a boat shop and all existing uses and  
27 activities occurring on the site would continue. No changes to the existing zoning would  
28 occur, and no additional uses would be added to the site that conflict with the existing  
29 zoning. The Project would be consistent with the adopted zoning for the site.

30 The Project is consistent with applicable objectives, policies, and programs contained in  
31 the Port of Los Angeles Plan, Los Angeles Plan Element of the City's General Plan, State  
32 Tidelands Trust, and the San Pedro Community Plan. The proposed Project would be  
33 consistent with all applicable SCAG policies, such as the Regional Comprehensive Plan  
34 and Guide developed by SCAG and with the Regional Housing Needs Assessment. The  
35 proposed Project would also be consistent with the industrial short- and long-range  
36 preferred uses identified in the PMP for Area 8, Fish Harbor, which encompasses the  
37 Project site.

38 Implementation of the proposed Project would not conflict with any surrounding land  
39 uses during either the construction or operation phase; therefore, a less than significant  
40 impact would occur.

### 41 **6.3.4.5.2 Alternative 1 – Reduced Project: Water Quality Improvements**

42 Alternative 1 would substantially reduce the amount of development on the site in  
43 comparison to the proposed Project, as this alternative would not implement any of the  
44 proposed improvements on the site with the exception of implementation of measures to

1 comply with Los Angeles RWQCB requirements. Improvements associated with Los  
2 Angeles RWQCB requirements include either placing dikes around the existing buildings  
3 and/or changing the slope of the site to drain away from Fish Harbor. This alternative  
4 would occur entirely within the existing Project site.

5 Under this alternative, very few changes to the site would occur. No demolition of  
6 existing structures would occur, no new buildings would be added to the site, and the new  
7 boat hoists would not be installed. The intensity of land uses on the site would be less  
8 than the proposed Project. No significant changes to the land use or zoning would occur  
9 that would make the site or the site uses incompatible with surrounding uses. This  
10 alternative would be less than significant.

#### 11 **6.3.4.5.3 Alternative 2 – Reduced Project: Limited Demolition**

12 Alternative 2 would reduce the total amount of development on the site slightly in  
13 comparison to the proposed Project. This alternative would be similar to the proposed  
14 Project; however, unlike the proposed Project only some of the three potentially historic  
15 structures (Buildings C1, A2, or A3) would be demolished. In addition, the new building  
16 would not be constructed under this alternative. All of the other Project components  
17 would be the same as the proposed Project. This alternative would occur entirely within  
18 the existing Project site.

19 Under this alternative, there would be slightly less demolition and the new structure  
20 would not be constructed. The intensity of land uses on the site would be slightly less  
21 than the proposed Project. No changes to the land use or zoning of the site would occur  
22 that would make the site or the site uses incompatible with surrounding uses. However,  
23 as with the proposed Project, an amendment to the PMP would be required to establish a  
24 zoning designation for the new land created by the CDF. This alternative would be less  
25 than significant.

#### 26 **6.3.4.5.4 Alternative 3 - Retention of Historic Buildings**

27 This alternative would reduce the overall amount of development on the site slightly in  
28 comparison to the proposed Project. This alternative would be similar to the proposed  
29 Project; however, the potentially historic buildings (Buildings C1, A2, or A3) would not  
30 be demolished and the new building would not be constructed. All of the other Project  
31 components would be the same as the proposed Project. However, because the existing  
32 historic buildings would not be demolished or relocated, implementation of this  
33 alternative would neither result in the complete modernization of the existing boat yard  
34 facilities nor provide for the same level of operational efficiency that would occur under  
35 the proposed Project. This alternative would occur entirely within the existing Project  
36 site.

37 Under this alternative, there would be slightly less demolition, as all of the historic  
38 structures would be retained, and the new structure would not be constructed. As a result,  
39 the land use intensity on the site would be slightly less than the proposed Project. No  
40 changes to the existing land use or zoning would occur that would conflict with existing  
41 regulations would occur and the site would not be incompatible with surrounding uses.  
42 However, as with the proposed Project, an amendment to the PMP would be required to  
43 establish a zoning designation for the new land created by the CDF. This alternative  
44 would be less than significant.

### 6.3.4.5.5 Alternative 4 – Relocation of Historic Buildings

This alternative would be the same as the proposed Project; however, LAHD would relocate all of the potentially historic buildings slated for demolition to another location within the Port. The relocation site would be one of two redevelopment project sites within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront project. Should one of the two buildings not be relocated, it would be demolished. All of the components of the proposed Project would be constructed under this alternative, as both buildings would be removed from the site. Under this alternative, impacts would occur beyond the boundaries of the existing ALBS site.

Under this alternative, all of the components of the proposed Project would be constructed on the site. As a result, the land use impacts would be identical to the proposed Project. Land use impacts under the proposed Project are less than significant and, as a result, would remain less than significant under this alternative.

However, under this alternative, the historic structures would be relocated to one of two redevelopment project sites within the Port. The structures would be located amongst other structures within one of the redevelopment areas and would not significantly change land use intensity on that site, require rezoning, and would not be incompatible with surrounding uses. However, as with the proposed Project, an amendment to the PMP would be required to establish a zoning designation for the new land created by the CDF. This alternative would not result in a significant land use impact.

### 6.3.4.5.6 Alternative 5 – Alternate Site

This alternative would construct and operate the ALBS at a different location elsewhere within the Port. LAHD has identified four possible alternate sites, which are shown on Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue with vessel access from the Main Channel, and the fourth site is on the mainland, off the East Basin. ALBS would attempt to operate on one of the alternate sites at the same level and capacity as the proposed Project. Each alternate site has varying levels of development within its boundaries, which could impact potential ALBS operations at each of the four potential sites. Demolition of existing buildings would be required at each of the alternate sites.

Under this alternative, all facilities within the existing ALBS site would be removed and relocated to one of four alternate sites. As a result, land use impacts on the existing Project site would be completely eliminated and impacts to the existing site would be, therefore, less than significant.

Relocation of the ALBS facilities to one of four alternative sites would result in land use impacts at the site where the facilities are ultimately located. All four sites are located within the Port and all of the sites are zoned for industrial use. The ALBS use would not conflict with the zoning or land use at any of the sites and it would not be incompatible with surrounding uses, which would all be industrial in nature. No CDFs would be installed at the alternate sites to create new land and thus, no amendment to the PMP would likely be required. As a result, this alternative would be less than significant.

#### 6.3.4.5.7 Alternative 6 – No Project

Under this alternative, ALBS would not be in compliance with the current NPDES permit, which would require them to implement measures on the site to redirect stormwater away from Fish Harbor. Because no development would occur, including the required improvements, the existing lease would be revoked, forcing ALBS to cease operation on the site. Under this scenario, ALBS would be required to clear the site and return it to its original condition. Because all of the existing infrastructure and structures on the site would be removed, no new land use impacts would occur and this alternative would remain less than significant.

#### 6.3.4.5.8 Alternative 7 – No Federal Action

This alternative would reduce the overall amount of development on the Project site because only the landside construction would occur under this alternative. No maintenance dredging, CDF construction or construction of the concrete piers for the proposed 600- and 100-ton boat hoists would occur under this alternative.

Improvements would be made that would bring the operation into compliance with the NPDES stormwater requirements. As a result, ALBS would be able to enter into a new 30-year lease.

In addition, the landside aging infrastructure would be improved, including the replacement of paving, lighting, and utilities. The potentially historic structures would also be removed under this alternative.

Under this alternative, there would be slightly less demolition, as all of the historic structures would be retained, and the new structure would not be constructed. As a result, there would be fewer land use changes to the Project site. No changes to the existing land use or zoning would occur that would conflict with existing regulations would occur and the site would not be incompatible with surrounding uses. This alternative would be less than significant.

### 6.3.4.6 Population and Housing

#### 6.3.4.6.1 Proposed Project

The geographic region of analysis for impacts on Population and Housing related to the proposed Project includes the Port of Los Angeles and the communities of San Pedro and Wilmington. The proposed Project would not directly or indirectly induce substantial population growth. It would not provide any new housing, nor would it directly induce development of new housing in the region by providing new infrastructure. Similarly, the amount of additional employment opportunities created by the proposed Project would be small when compared to the existing size of the regional economy, and therefore would not indirectly induce population growth through labor migration. The proposed Project would result in a less than significant impact.

#### 6.3.4.6.2 Alternative 1 – Reduced Project: Water Quality Improvements

Alternative 1 would substantially reduce the amount of development on the site in comparison to the proposed Project, as this alternative would not implement any of the proposed improvements on the site with the exception of implementation of measures to comply with Los Angeles RWQCB requirements. Improvements associated with Los Angeles RWQCB requirements include either placing dikes around the existing buildings and/or changing the slope of the site to drain away from Fish Harbor.

1 Under this alternative, very few changes to the site would occur. No demolition of  
2 existing structures would occur, no new buildings would be added to the site, and the new  
3 boat hoists would not be installed. As a result, no operational increases would occur, and  
4 no new employees would be added to the site, and the number of short-term construction  
5 jobs generated would be less than the proposed Project. The potential for growth in  
6 population would be less than the proposed Project and less of an overall impact in  
7 regards to population and housing would occur. This alternative would result in a less  
8 than significant impact on population and housing.

#### 9 **6.3.4.6.3 Alternative 2 – Reduced Project: Limited Demolition**

10 Alternative 2 would reduce the total amount of development on the site slightly in  
11 comparison to the proposed Project. This alternative would be similar to the proposed  
12 Project; however, unlike the proposed Project only some of the three potentially historic  
13 structures (Buildings C1, A2, or A3) would be demolished. In addition, the new building  
14 would not be constructed under this alternative. All of the other Project components  
15 would be the same as the proposed Project.

16 Under this alternative, there would be slightly less demolition and the new structure  
17 would not be constructed. Operational capacity would not be fully achieved in  
18 comparison the proposed Project because one or more of the potentially historic  
19 structures would remain on the site. As a result, fewer employees would be added to the  
20 site and less of an overall impact in regards to population and housing would occur. This  
21 alternative would result in a less than significant impact on population and housing.

#### 22 **6.3.4.6.4 Alternative 3 - Retention of Historic Buildings**

23 This alternative would reduce the overall amount of development on the site slightly in  
24 comparison to the proposed Project. This alternative would be similar to the proposed  
25 Project; however, the potentially historic buildings (Buildings C1, A2, or A3) would not  
26 be demolished. In addition, the new building would not be constructed on the site. All of  
27 the other Project components would be the same as the proposed Project. However,  
28 because the existing historic buildings would not be demolished or relocated,  
29 implementation of this alternative would neither result in the complete modernization of  
30 the existing boat yard facilities nor provide for the same level of operational efficiency  
31 that would occur under the proposed Project.

32 Under this alternative, there would be slightly less demolition and the new structure  
33 would not be constructed, which could result in slightly fewer construction jobs.  
34 Operational capacity would not be fully achieved in comparison the proposed Project  
35 because the potentially historic structures would remain on the site. As a result, fewer  
36 employees would be added to the site and less of an overall impact in regards to  
37 population and housing would occur. This alternative would result in a less than  
38 significant impact on population and housing.

#### 39 **6.3.4.6.5 Alternative 4 – Relocation of Historic Buildings**

40 This alternative would be the same as the proposed Project; however, LAHD would  
41 relocate all of the potentially historic buildings slated for demolition to another location  
42 within the Port. The relocation site would be one of two redevelopment project sites  
43 within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront project.  
44 Should one of the two buildings not be relocated, it would be demolished. All of the  
45 components of the proposed Project would be constructed under this alternative, as both  
46 buildings would be removed from the site.

1 The number of short-term construction jobs associated with this alternative would be  
2 similar or greater than the proposed Project. Under this alternative, all operational  
3 increases would occur because all of the Project components would be constructed and  
4 implemented, including the increased number of vessels serviced and the increased  
5 number of employees at the site. Because impacts on population would be less than  
6 significant under the proposed Project, they would remain less than significant under this  
7 alternative as well.

#### 8 **6.3.4.6.6 Alternative 5 – Alternate Site**

9 This alternative would construct and operate the ALBS at a different location elsewhere  
10 within the Port. LAHD has identified four possible alternate sites, which are shown on  
11 Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are  
12 located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue  
13 with vessel access from the Main Channel, and the fourth site is on the mainland, off the  
14 East Basin. ALBS would attempt to operate on one of the alternate sites at the same level  
15 and capacity as the proposed Project. Each alternate site has varying levels of  
16 development within its boundaries, which could impact potential ALBS operations at  
17 each of the four potential sites. Demolition of existing buildings would be required at  
18 each of the alternate sites.

19 The number of short-term construction jobs associated with this alternative would be  
20 similar or greater than the proposed Project. Operational increases would be the same  
21 under this alternative as under the proposed Project, as all Project components would be  
22 constructed and/or implemented. As a result, this alternative is less than significant.

#### 23 **6.3.4.6.7 Alternative 6 – No Project**

24 Under this alternative, ALBS would not be in compliance with the current NPDES permit,  
25 which would require them to implement measures on the site to redirect stormwater away  
26 from Fish Harbor. Because no development would occur, including the required  
27 improvements, the existing lease would be revoked, forcing ALBS to cease operation on  
28 the site. Under this scenario, ALBS would be required to clear the site and return it to its  
29 original condition.

30 Under this alternative, demolition of the existing buildings/structures and dredging and  
31 removal of contaminated sediments would result in short-term construction jobs similar  
32 to that of the proposed Project. However, operations on the site would cease, resulting in  
33 a decrease in employees on the site as compared to the proposed Project and existing  
34 conditions. While this loss of approximately 70 to 100 jobs would have localized affects,  
35 it would not significantly affect employment levels or population distribution in the local  
36 area and region as a whole. As a result, this alternative would be less than significant.

#### 37 **6.3.4.6.8 Alternative 7 – No Federal Action**

38 This alternative would reduce the overall amount of development on the Project site  
39 because only the landside construction would occur under this alternative. No  
40 maintenance dredging, CDF construction or construction of the concrete piers for the  
41 proposed 600- and 100-ton boat hoists would occur under this alternative.

42 Improvements would be made that would bring the operation into compliance with the  
43 NPDES stormwater requirements. As a result, ALBS would be able to enter into a new  
44 30-year lease.

1 In addition, the landside aging infrastructure would be improved, including the  
2 replacement of paving, lighting, and utilities. The potentially historic structures would  
3 also be removed under this alternative.

4 Under this alternative, the overall amount of development on the site would be reduced as  
5 compared to the proposed Project. Operational capacity would not be fully achieved in  
6 comparison the proposed Project because only a portion of the improvements would  
7 occur. As a result, fewer employees would be added to the site and less of an overall  
8 impact in regards to population and housing would occur. This alternative would result  
9 in a less than significant impact on population and housing.

## 10 **6.3.4.7 Public Services and Utilities**

### 11 **6.3.4.7.1 Proposed Project**

#### 12 *Public Services*

13 The proposed Project construction or operations would not affect emergency response  
14 times for police services, fire services, or the Coast Guard because the site would have  
15 the same land use and similar layout and same distances to emergency facilities as the  
16 existing boat shop. The operational capacity of the facility would not increase enough to  
17 create a significant increase in demand for public services. The proposed Project would  
18 not increase the demand for additional law enforcement officers and/or facilities such that  
19 the U.S. Coast Guard (USCG), Los Angeles Police Department (LAPD), or the  
20 Los Angeles Harbor Department Police (Port Police) would not be able to maintain an  
21 adequate level of service without additional facilities. Impacts to public services would  
22 be less than significant.

#### 23 *Public Utilities*

24 Construction of additional land area (i.e., CDF) would require additional infrastructure  
25 such as lighting and utility facilities/infrastructure to ensure optimum cargo movement.  
26 New onsite utility lines (water, wastewater, storm drains, electricity, and gas) would be  
27 constructed to serve increasing boat shop operations; the relocation and/or extension of  
28 some existing utility lines would also occur. This new infrastructure would tie into the  
29 existing utility lines that currently serve the Project site. Provisions for water and  
30 wastewater service to the proposed Project site could require some minor offsite  
31 construction to connect new onsite utilities with existing infrastructure. All infrastructure  
32 improvements and connections that occur within City streets would comply with the  
33 LAMC, and would be performed under permit by the City Bureau of Engineering and/or  
34 LADWP.

35 Although construction and/or expansion of on-site water or wastewater lines would be  
36 required to support new boat shop development, the increases in water demand and  
37 wastewater generation would be minimal and there is sufficient capacity.

38 The existing boat shop operations generate solid waste consisting of nonhazardous  
39 materials, such as food and beverage containers, paper products, and other miscellaneous  
40 personal trash disposed of by on-site staff. Solid waste generated by boat shop operations  
41 complies with federal, state, and local regulations and codes pertaining to solid waste  
42 disposal, as would solid wastes generated from subsequent boat shop operations. Impacts  
43 to utilities are less than significant.



#### 6.3.4.7.2 Alternative 1 – Reduced Project: Water Quality Improvements

This alternative would significantly decrease the amount of development on the site by eliminating all of the proposed improvements with the exception of those that would ensure compliance with the Los Angeles RWQCB requirements to remain in operation. Under this alternative, no increase in vessels would occur at the site over baseline conditions and no additional employees would be added to the existing operation. As a result, no additional demand on public services or utilities would occur. As compared to the proposed Project, impacts would be slightly reduced. Impacts under this alternative would be less than significant.

#### 6.3.4.7.3 Alternative 2 – Reduced Project: Limited Demolition

Alternative 2 would be similar to the proposed Project; however, unlike the proposed Project only some of the three potentially historic structures (Buildings C1, A2, or A3) would be demolished and the new building would not be constructed. Most of the proposed operational increases would occur, including the likely increase in the number of ships serviced at the site and the proposed increase in employees, although not to the extent of the proposed Project.

Under this alternative, only some of the two potentially historic structures on the site would be demolished. As a result, the amount of solid waste produced as a result of construction activities would be less than the proposed Project. Impacts on all other public services and utilities would be the similar to the proposed Project, because all of the other construction and operational components would be the similar; however it is more than likely they would be less as the site would not operate under optimal conditions. Impacts under this alternative would be less than significant and both construction and operational impacts on public services and utilities would be slightly less than the proposed Project under this alternative.

#### 6.3.4.7.4 Alternative 3 – Retention of Historic Buildings

This alternative would slightly decrease the amount of development on the site, as all of the potentially historic buildings (Buildings C1, A2, or A3) would remain on the site and the new building would not be constructed. As a result, all of the proposed operational increases would occur, including the proposed increase in the number of ships serviced at the site and the proposed increase in employees. However, the site would not provide for the same level of operational efficiency that would occur under the proposed Project and, thus, operational levels could be slightly impacted under this alternative.

Under this alternative, the potentially historic structures on the site would not be demolished and legacy soil contamination under the buildings would not be removed. As a result, the amount of solid waste produced as a result of construction activities would be less than the proposed Project. Impacts on all other public services and utilities would be similar, if not a slightly less due to a decrease in operational efficiency on the site, as the proposed Project, because all of the other construction and operational components would be similar to the proposed Project. Impacts under this alternative would be less than significant.

#### 6.3.4.7.5 Alternative 4 – Relocation of Historic Buildings

This alternative would have operational impacts similar to the proposed Project, as all project components would be constructed on the site. As a result, operational impacts would be the same as the proposed Project.

1 Under this alternative, LAHD would relocate all of the potentially historic buildings  
2 slated for demolition to another location within the Port. The relocation site would be  
3 one of two redevelopment project sites within the Port: the San Pedro Waterfront project,  
4 or the Wilmington Waterfront project. As a result, the amount of solid waste from  
5 demolition produced as a result of construction activities would be less than the proposed  
6 Project. Impacts on all other public services and utilities would be the same as the  
7 proposed Project, because all of the other construction and operational components would  
8 be the same. Impacts under this alternative would be less than significant.

#### 9 **6.3.4.7.6 Alternative 5 – Alternate Site**

10 This alternative would construct and operate the ALBS at a different location elsewhere  
11 within the Port. LAHD has identified four possible alternate sites, which are shown on  
12 Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are  
13 located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue  
14 with vessel access from the Main Channel, and the fourth site is on the mainland, off the  
15 East Basin. ALBS would attempt to operate on one of the alternate sites at the same level  
16 and capacity as the proposed Project. Each alternate site has varying levels of  
17 development within its boundaries, which could impact potential ALBS operations at  
18 each of the four potential sites. Demolition of existing buildings would be required at  
19 each of the alternate sites.

20 All four sites are developed to varying degrees and three of the four sites currently  
21 contain historic resources that would have to be demolished to make room for ALBS  
22 operations. In addition, the remaining facilities on the ALBS site would have to be  
23 demolished to return the site to pre-lease conditions. Additionally, the contaminated  
24 dredge material would be disposed of at a land fill instead of being sequestered onsite in  
25 CDFs. As a result, solid waste from the construction and demolition process would be  
26 greater than the proposed Project. Because ALBS would not operate at a greater level  
27 than under the proposed Project, operational impacts on public services and utilities  
28 would be approximately the same as the proposed Project. Although slightly greater than  
29 the proposed Project for construction, the impacts under this alternative are still  
30 anticipated to be less than significant.

#### 31 **6.3.4.7.7 Alternative 6 – No Project**

32 Under this alternative, the proposed Project would not be constructed. ALBS would not  
33 be in compliance with the current NPDES permit, which would require them to  
34 implement measures on the site to redirect stormwater away from Fish Harbor. Because  
35 no development would occur, including the required improvements, the existing lease  
36 would be revoked, forcing ALBS to cease operation on the site. Under this scenario,  
37 ALBS would be required to clear the site and return it to its original condition.

38 The No Project Alternative would not implement any of the proposed Project components,  
39 and all operation on the site would cease. As a result, there would be no increase in  
40 demand for public services and utilities the site. In this regard, impacts on public  
41 services and utilities would be less than the proposed Project.

42 However, the generation of solid waste would be greater than the proposed Project,  
43 because the Project site would be cleared of all facilities, there would be a greater amount  
44 of contaminated soil disposed of at a landfill than would occur under the proposed Project  
45 and, the contaminated dredge material would be disposed of at a land fill instead of being  
46 sequestered on-site in CDFs. As a result, this alternative would have a greater impact  
47 than the proposed Project for construction and a reduced impact compared to the

1 proposed Project for operations. Overall, impacts under this alternative would be less  
2 than significant.

### 3 **6.3.4.7.8 Alternative 7 – No Federal Action**

4 This alternative would reduce the overall amount of development on the site because only  
5 the landside construction would occur. There would be no dredging, no CDF  
6 construction, and no construction of the concrete piers for the new 600- and 100-ton boat  
7 hoists. Because the boat hoists would not be installed, the number of vessels serviced on  
8 the site would not increase and the number of employees would not increase. As a result,  
9 no operational increases on public services or utilities would occur.

10 Under this alternative, the potentially historic buildings slated for removal would still be  
11 demolished and the new building would be constructed. However, the overall amount  
12 construction debris would be less than the proposed Project because the majority of the  
13 Project components would not be implemented.

## 14 **6.3.4.8 Traffic and Transportation**

### 15 **6.3.4.8.1 Proposed Project**

16 The transportation environmental setting for the transportation analysis includes those  
17 streets and intersections that would be used by both automobile and truck traffic to gain  
18 access to and from the Project site, as well as those streets that would be used by  
19 construction traffic (i.e., equipment and commuting workers). The transportation  
20 analysis includes freeway/roadway segments and intersections (7 intersections) that  
21 would be used by truck and automobile traffic to gain access to and from the proposed  
22 Project site. The segments and key intersections are presented in Section 3.12. These  
23 roadways and intersections would also be used by construction traffic.

24 The analysis of roadway impacts presented in Section 3.12 reflects both existing and  
25 future (2013) buildout conditions projected with the proposed Project in place including  
26 traffic from other regional development that is expected to occur whether the proposed  
27 Project is implemented or not.

28 There would be increased travel on the study area roadway system during construction of  
29 the proposed Project associated with construction worker's vehicles and trucks delivering  
30 equipment to and removing material from the site. As a standard practice, the Port requires  
31 contractors to prepare a detailed traffic management plan for Port projects.

32 The proposed Project would increase traffic volumes and reduce LOS at intersections  
33 within the proposed Project vicinity. There would be increased travel on the study area  
34 roadway system during operation of the proposed Project associated with workers  
35 vehicles to and from the site. As shown in Section 3.12, the anticipated intersection LOS  
36 during operation of the proposed Project with the peak number of additional workers on  
37 the roadway system would not be significant.

### 38 **6.3.4.8.2 Alternative 1 – Reduced Project: Water Quality Improvements**

39 Alternative 1 would substantially reduce the amount of development on the site in  
40 comparison to the proposed Project, as this alternative would not implement any of the  
41 proposed improvements on the site with the exception of implementation of measures to  
42 comply with Los Angeles RWQCB requirements. Improvements associated with Los  
43 Angeles RWQCB requirements include either placing dikes around the existing buildings  
44 and/or changing the slope of the site to drain away from Fish Harbor.

1 Under this alternative, very few changes to the site would occur. No demolition of  
2 existing structures would occur, no new buildings would be added to the site, and the new  
3 boat hoists would not be installed. As a result, no operational increases would occur, and  
4 no new employees would be added to the site. Impacts on both construction and  
5 operational traffic levels would be less than the proposed Project. Impacts under this  
6 alternative would be less than significant.

#### 7 **6.3.4.8.3 Alternative 2 – Reduced Project: Limited Demolition**

8 Alternative 2 would reduce the total amount of development on the site slightly in  
9 comparison to the proposed Project. This alternative would be similar to the proposed  
10 Project; however, unlike the proposed Project only some of the three potentially historic  
11 structures (Buildings C1, A2, or A3) would be demolished. In addition, the new building  
12 would not be constructed under this alternative. All of the other Project components  
13 would be the same as the proposed Project.

14 Under this alternative, there would be slightly less demolition and the new structure  
15 would not be constructed. Operational capacity would not be fully achieved in  
16 comparison the proposed Project because one or more of the historic structures would  
17 remain on the site. As a result, fewer employees would be added to the site and less of an  
18 overall impact in regards to both construction and operational traffic levels would occur.  
19 This alternative would result in a less than significant impact on traffic and transportation.

#### 20 **6.3.4.8.4 Alternative 3 - Retention of Historic Buildings**

21 This alternative would reduce the overall amount of development on the site slightly in  
22 comparison to the proposed Project. This alternative would be similar to the proposed  
23 Project; however, the historic (Buildings C1, A2, or A3) would not be demolished. In  
24 addition, the new building would not be constructed on the site. All of the other Project  
25 components would be the same as the proposed Project. However, because the existing  
26 historic buildings would not be demolished or relocated, implementation of this  
27 alternative would neither result in the complete modernization of the existing boat yard  
28 facilities nor provide for the same level of operational efficiency that would occur under  
29 the proposed Project.

30 Under this alternative, there would be slightly less demolition and the new structure  
31 would not be constructed. Operational capacity would not be fully achieved in  
32 comparison the proposed Project because the historic structures would remain on the site.  
33 As a result, fewer employees would be added to the site and less of an overall impact in  
34 regards to both construction and operational traffic levels would occur. This alternative  
35 would result in a less than significant impact on traffic and transportation.

#### 36 **6.3.4.8.5 Alternative 4 – Relocation of Historic Buildings**

37 This alternative would be the same as the proposed Project; however, LAHD would  
38 relocate all of the potentially historic buildings slated for demolition to another location  
39 within the Port. The relocation site would be one of two redevelopment project sites  
40 within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront project.  
41 Should one of the two buildings not be relocated, it would be demolished. All of the  
42 components of the proposed Project would be constructed under this alternative, as both  
43 buildings would be removed from the site.

44 Under this alternative, all operational increases would occur because all of the Project  
45 components would be constructed and implemented, including the increased number of  
46 vessels serviced and the increased number of employees at the site. A small number of

1 additional truck trips could occur during the construction phase as a result of moving one  
2 or more of the historic structures. It is likely that this minimal number of truck trips  
3 would occur outside of the peak hours, thus not causing an additional impact due to  
4 construction traffic. Because impacts on traffic and transportation would be less than  
5 significant under the proposed Project, they would remain less than significant under this  
6 alternative as well.

#### 7 **6.3.4.8.6 Alternative 5 – Alternate Site**

8 This alternative would construct and operate the ALBS at a different location elsewhere  
9 within the Port. LAHD has identified four possible alternate sites, which are shown on  
10 Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are  
11 located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue  
12 with vessel access from the Main Channel, and the fourth site is on the mainland, off the  
13 East Basin. ALBS would attempt to operate on one of the alternate sites at the same level  
14 and capacity as the proposed Project. Each alternate site has varying levels of  
15 development within its boundaries, which could impact potential ALBS operations at  
16 each of the four potential sites. Demolition of existing buildings would be required at  
17 each of the alternate sites as well as on the existing site. The dredged materials from the  
18 cleanup of legacy contaminants would be hauled off-site under Alternative 5. Given that  
19 demolition/construction would occur at two locations (existing site and alternate site) and  
20 a greater number of haul trucks would be needed to remove contaminated dredge  
21 materials and relocate the potentially historic buildings, the amount of construction traffic  
22 would be slightly greater than would occur under the proposed Project. However, it is  
23 anticipated that this temporary traffic increase would generally occur outside of peak  
24 hours and would result in less than significant impacts.

25 Operational increases would be the same under this alternative as under the proposed  
26 Project, as operations at an alternate site would be generate the same number of vehicle  
27 trips as the proposed Project, As a result, this alternative is less than significant.

#### 28 29 **6.3.4.8.7 Alternative 6 – No Project**

30 Under this alternative, ALBS would not be in compliance with the current NPDES permit,  
31 which would require them to implement measures on the site to redirect stormwater away  
32 from Fish Harbor. Because no development would occur, including the required  
33 improvements, ALBS would cease operation on the site. Under this scenario, ALBS  
34 would be required to clear the site and return it to its original condition. While no new  
35 construction would occur, this alternative would generate a similar amount of  
36 construction traffic as it would involve a larger number of haul trucks because a more  
37 demolition would occur (i.e., all buildings/structures would be removed), a larger amount  
38 of landside soil would be removed, and dredge material would be hauled to an off-site  
39 landfill as opposed to sequestered in on-site CDFs.

40 Under this alternative, operations on the site would cease, resulting in a decrease in  
41 employees on the site as compared to the proposed Project. There would be some  
42 construction related traffic, as ALBS would be required to clear the site and haul  
43 sediments and dredge material for off-site disposal. However, the construction traffic  
44 would likely generate no more trips than the proposed Project. As a result, this  
45 alternative would be less than significant.

### 6.3.4.8.8 Alternative 7 – No Federal Action

This alternative would reduce the overall amount of development on the Project site because only the landside construction would occur under this alternative. No maintenance dredging, CDF construction or construction of the concrete piers for the proposed 600- and 100-ton boat hoists would occur under this alternative.

Improvements would be made that would bring the operation into compliance with the NPDES stormwater requirements. As a result, ALBS would be able to enter into a new 30-year lease.

In addition, the landside aging infrastructure would be improved, including the replacement of paving, lighting, and utilities. The potentially historic structures would also be removed under this alternative.

Under this alternative, the overall amount of development on the site would be reduced as compared to the proposed Project. Operational capacity would not be fully achieved in comparison the proposed Project because only a portion of the improvements would occur. As a result, fewer employees would be added to the site and less of an overall impact in regards to traffic and transportation would occur. This alternative would result in a less than significant impact on traffic and transportation.

### 6.3.4.9 Water Quality, Sediments, and Oceanography

#### 6.3.4.9.1 Proposed Project

Wastewater discharges associated with Project operations and runoff from the proposed Project site would be regulated by NPDES or stormwater permits. The permits would specify constituent limits and/or mass emission rates that are intended to protect water quality and beneficial uses of receiving waters. In addition, the proposed Project would be operated in accordance with industrial SWPPPs that require monitoring and compliance with permit conditions. SUSMP requirements would also be implemented via the planning, design, and building permit processes. Therefore, impacts would be less than significant.

In-water construction of the proposed Project has the potential to result in spills directly to Harbor waters. These project-level spills during construction would be subject to regulations and plans (such as the site's Spill Prevention Plan) and spill responses by the dredging contractors (deploy floating booms to contain and absorb the spill and use pumps to assist the cleanup) that would prevent the accidental spill from causing a nuisance or from adversely affecting beneficial uses of the Harbor. Such accidental spills of petroleum hydrocarbons, hazardous materials, and other pollutants from proposed Project-related upland operations are expected to be limited to small volume releases because large quantities of those substances are unlikely to be used, transported, or stored on the site. Therefore, impacts would be less than significant

As discussed in Section 3.13.4.3, the proposed Project site is designated by FEMA as Flood Zone X. However, the proposed Project site is not in a 100-year flood zone and would not result in increased flooding. Implementation of the proposed Project (construction and operational activities) would not increase the potential for flooding on-site because on-site storm drains would be installed, BMPs would be employed to provide significant treatment of the pollutants prior to discharge, site elevations and the flat site topography would remain generally the same, and because the site is located adjacent to Harbor waters; therefore, impacts would be less than significant.

1 The baseline potential for erosion of soils in the proposed Project site is low due to the  
2 flat terrain, infrequent rainfall events, and moderate wind velocities. In addition, the  
3 proposed Project would operate on a slightly larger area than baseline conditions, the  
4 Project site would be completely paved, which would prevent erosion from occurring  
5 during shipyard operations. Construction and operation of the proposed Project would  
6 not accelerate natural processes of wind and water erosion because all applicable BMPs  
7 and other standard soil management procedures would be implemented to minimize  
8 erosion from the Project site; therefore, impacts would be less than significant.

#### 9 **6.3.4.9.2 Alternative 1 – Reduced Project: Water Quality Improvements**

10 Alternative 1 would substantially reduce the amount of development on the site in  
11 comparison to the proposed Project, as this alternative would not implement any of the  
12 proposed improvements on the site with the exception of implementation of measures to  
13 comply with Los Angeles RWQCB requirements. Improvements associated with Los  
14 Angeles RWQCB requirements include either placing dikes around the existing buildings  
15 and/or changing the slope of the site to drain away from Fish Harbor. In addition, the  
16 proposed Project would be operated in accordance with industrial SWPPPs that require  
17 monitoring and compliance with permit conditions.

18 Under this alternative, very few changes to the site would occur. No demolition of  
19 existing structures would occur, no new buildings would be added to the site, the new  
20 boat hoists would not be installed, and no cleanup of the legacy contaminants would  
21 occur. As a result, no operational increases would occur, and no new employees would  
22 be added to the site. Impacts related to water quality, sediments, and oceanography  
23 would be reduced due to the reduction in project size under this alternative. Impacts  
24 under this alternative would be less than significant. However, the benefits to water  
25 quality that would occur by removing and sequestering legacy contaminants would not  
26 occur under Alternative 1.

#### 27 **6.3.4.9.3 Alternative 2 – Reduced Project: Limited Demolition**

28 Alternative 2 would reduce the total amount of development on the site slightly in  
29 comparison to the proposed Project. This alternative would be similar to the proposed  
30 Project; however, unlike the proposed Project only some of the three potentially historic  
31 structures (Buildings C1, A2, or A3) would be demolished. In addition, the new building  
32 would not be constructed under this alternative. All of the other Project components  
33 would be the same as the proposed Project, including implementation of measures to  
34 comply with Los Angeles RWQCB requirements and operation of the site in accordance  
35 with the SWPPP.

36 Under this alternative, there would be slightly less demolition and the new structure  
37 would not be constructed. Operational capacity would not be fully achieved in  
38 comparison the proposed Project because one or more of the historic structures would  
39 remain on the site. Because the overall amount of construction would be less than the  
40 proposed Project, impacts on water quality, sediments and oceanography would likely be  
41 less than the proposed Project. This alternative would result in a less than significant  
42 impact on water quality, sediments, and oceanography.

#### 43 **6.3.4.9.4 Alternative 3 - Retention of Historic Buildings**

44 This alternative would reduce the overall amount of development on the site slightly in  
45 comparison to the proposed Project. Under this alternative, none of the potentially  
46 historic buildings slated for removal would be demolished. In addition, the new building  
47 would not be constructed on the site. All of the other Project components would be the

1 same as the proposed Project including implementation of measures to comply with Los  
2 Angeles RWQCB requirements and operation of the site in accordance with the SWPPP.  
3 However, because the existing historic buildings would not be demolished or relocated,  
4 implementation of this alternative would neither result in the complete modernization of  
5 the existing boat yard facilities nor provide for the same level of operational efficiency  
6 that would occur under the proposed Project.

7 Under this alternative, there would be slightly less demolition and the new structure  
8 would not be constructed. Operational capacity would be greatly impaired in comparison  
9 the proposed Project because the historic structures would remain on the site. Because  
10 the overall amount of construction would be less than the proposed Project, impacts on  
11 water quality, sediments and oceanography would likely be less than the proposed Project.  
12 This alternative would result in a less than significant impact on water quality, sediments,  
13 and oceanography.

#### 14 **6.3.4.9.5 Alternative 4 – Relocation of Historic Buildings**

15 This alternative would be the same as the proposed Project; however, LAHD would  
16 relocate all of the potentially historic buildings slated for demolition to another location  
17 within the Port. The relocation site would be one of two redevelopment project sites  
18 within the Port: the San Pedro Waterfront project, or the Wilmington Waterfront project.  
19 All of the components of the proposed Project would be constructed under this  
20 alternative.

21 Because one or more of the buildings would potentially be relocated elsewhere within the  
22 Port, the potential impact area would expand beyond the existing Project site. However,  
23 measures have been taken at both of the redevelopment sites through their respective  
24 entitlement processes to reduce construction impacts (which could ultimately include  
25 relocation of the historic structures) to water quality, sediments, and oceanography. As a  
26 result, relocation of the potentially historic structures would remain less than significant.

#### 27 **6.3.4.9.6 Alternative 5 – Alternate Site**

28 This alternative would construct and operate the ALBS at a different location elsewhere  
29 within the Port. LAHD has identified four possible alternate sites, which are shown on  
30 Figure 6-3. Each alternate site is the same size as the existing ALBS site. Two sites are  
31 located in Fish Harbor to the east of the Project site, one is to the west of Seaside Avenue  
32 with vessel access from the Main Channel, and the fourth site is on the mainland, off the  
33 East Basin. ALBS would attempt to operate on one of the alternate sites at the same level  
34 and capacity as the proposed Project. Each alternate site has varying levels of  
35 development and leaseholds within its boundaries, which could impact potential ALBS  
36 operations at each of the four potential sites. Demolition of existing buildings would be  
37 required at each of the alternate sites.

38 Measures would be required by the Port to reduce impacts to water quality, sediments,  
39 and oceanography at all of the alternate sites, similar those required at the proposed  
40 Project site. Because impacts under this alternative would be similar to the proposed  
41 Project, this alternative would remain less than significant.

#### 42 **6.3.4.9.7 Alternative 6 – No Project**

43 Under this alternative, ALBS would not be in compliance with the current NPDES permit,  
44 which would require them to implement measures on the site to redirect stormwater away  
45 from Fish Harbor. Because no development would occur, including the required  
46 improvements, the existing lease would be revoked, forcing ALBS to cease operation on



1 the site. Under this scenario, ALBS would be required to clear the site and return it to its  
2 original condition. This alternative would have fewer construction-related impacts on  
3 geologic resources than the proposed Project, including impacts from seismically induced  
4 events.

5 Under this alternative, operations on the site would cease and the site would be returned  
6 to its original condition. Legacy contamination would be cleaned up under this  
7 alternative. Because the site would be cleared and operations would cease, impacts to  
8 water quality, sediments, and oceanography would be less than the proposed Project and,  
9 therefore, less than significant.

#### 10 **6.3.4.9.8 Alternative 7 – No Federal Action**

11 This alternative would reduce the overall amount of development on the Project site  
12 because only the landside construction would occur under this alternative. No dredging,  
13 CDF construction or construction of the concrete piers for the proposed 600- and 100-ton  
14 boat hoists would occur under this alternative.

15 Improvements would be made that would bring the operation into compliance with the  
16 NPDES stormwater requirements. As a result, ALBS would be able to enter into a new  
17 30-year lease.

18 In addition, the landside aging infrastructure would be improved, including the  
19 replacement of paving, lighting, and utilities. The potentially historic structures would  
20 also be removed under this alternative.

21 Under this alternative, the overall amount of development on the site would be reduced as  
22 compared to the proposed Project. Because the overall amount of construction would be  
23 significantly less than the proposed Project, impacts on water quality, sediments and  
24 oceanography would be less than the proposed Project. This alternative would result in a  
25 less than significant impact on water quality, sediments, and oceanography. However,  
26 the benefits to water quality that would occur by removing and sequestering legacy  
27 contaminants would not occur under Alternative 7.

## 28 **6.4 Environmentally Superior Alternatives**

29 CEQA requires identification of an environmentally superior alternative. The  
30 environmentally superior alternative was determined based on a ranking system that  
31 assigned numerical scores comparing the impacts under each resource area for each  
32 alternative with the baseline. The scoring system ranged from -2 if impacts are  
33 considered to be substantially reduced when compared to the baseline, to +1 if impact is  
34 considered to be somewhat greater when compared with the baseline. Table 6-4 presents  
35 the scoring system and rankings for each alternative.

36 Based on the above analysis, Alternative 1 – Reduced Project: Water Quality  
37 Improvements is the environmentally superior alternative because it would create fewer  
38 adverse impacts, including those which would be significant and unavoidable.

39 Under Alternative 1, Reduced Project, Water Quality Improvements, ALBS would not  
40 implement any of the proposed improvements on the site. However, in order to comply  
41 with the Los Angeles RWQCB requirements and remain in operation, they would  
42 implement measures on the site to redirect water away from Fish Harbor. Under this  
43 alternative, ALBS would place dikes around existing buildings and/or change the slope of  
44 the site so stormwater runoff would drain away from Fish Harbor into an oil/water

1 separator before discharge. Under this alternative, ALBS would continue to operate on  
2 the site. Impacts on Air Quality, Meteorology, and Greenhouse Gases, Biological  
3 Resources, Cultural Resources, and Noise, would all be reduced. Impacts on Air Quality,  
4 Meteorology, and Greenhouse Gases would remain significant and unavoidable. The  
5 benefits to water quality that would occur by removing and sequestering legacy  
6 contaminants would not occur under Alternative 1.

7 As discussed above, this alternative would only meet one of the Project objectives.  
8 Under this alternative, ALBS would only be in compliance with its WDR and NPDES  
9 requirements by rerouting runoff away from Fish Harbor and into an oil/water separator.  
10 As a result, ALBS would be able to enter into a new 30-year lease.