

# 3.13

## UTILITIES AND PUBLIC SERVICES

### 3.13.1 Introduction

This chapter addresses construction and operation impacts of the proposed Project and its alternatives on utilities and service systems (water, wastewater, storm drainage, solid waste, electrical, and natural gas) as well as public services (fire protection, emergency response, law enforcement services, and other public facilities). For each of the utilities and energy systems included in this section, existing infrastructure and levels of service are described, in addition to possible improvements that would be required to accommodate the proposed Project. Fire and police access, response times, available equipment, and station locations are also addressed.

#### 3.13.1.1 Relationship to 1992 Deep Draft EIS/EIR

The 1992 Deep Draft Final Environmental Impact Statement/Environmental Impact Report (FEIS/FEIR) discussion of utilities and public services is comprised of three sections that include Energy, Public and System Safety (inclusive of fire protection and risk of upset), and Utilities. These three sections were evaluated at a project-specific level and at a general programmatic level.

The project-specific level recommended mitigation, to the extent feasible, for all significant impacts to public and system safety, utilities, and energy systems that would result from navigation and landfill improvements required to create Pier 400, including portions of the current proposed Project that are located on Pier 400.

The Deep Draft FEIS/FEIR also evaluated at a general, or programmatic, level. The general evaluation projected impacts of development and operation of terminal facilities planned for location on Pier 400. These impacts include the development of a marine oil terminal as well as impacts from the development and use of the marine terminal's associated infrastructure.

The Deep Draft FEIS/FEIR identified the utility impacts of terminal development and operation in relationship to 1) water supply; 2) wastewater treatment; 3) solid waste; 4) storm drain systems; 5) telecommunications; and 6) pipelines.

1 The Deep Draft FEIS/FEIR concluded that no significant energy system impacts would  
2 result from the creation of Pier 400 and associated facilities, and therefore no energy  
3 mitigation measures were provided. Similarly, discussion of impacts on public services  
4 was not carried forward for detailed analysis in the Deep Draft FEIS/FEIR since the  
5 Initial Study for that project determined that no significant impacts would occur.

6 The Public and System Safety section stated that the isolated location of the proposed  
7 Pier 400 would result in a reduction in response time of safety services and mitigation  
8 measures were provided to reduce the impact to a level below significance. The Deep  
9 Draft FEIS/FEIR indicated that **Mitigation Measure (MM) 4I-4** (which required  
10 facilities on the landfill to have built-in fire protection measures), **MM 4I-5** (which  
11 required that the landfill be able to use seawater for fire protection), **MM 4I-6** (which  
12 required continued implementation of the Fire Protection Master Plan), and **MM 4I-7**  
13 (which required adequate Port Police security coverage) would be applicable to reduce  
14 significant impacts on public safety. The applicability of these mitigation measures for  
15 the proposed Project is analyzed in Section 3.12, Risk of Upset/Hazardous Materials.

16 Demands on utilities were expected to increase, but it was concluded that the  
17 supplemental infrastructure would be able to accommodate the increase in demand  
18 without adversely affecting existing utility systems for wastewater treatment, solid waste  
19 disposal, storm drains, telecommunications, and pipelines. A potential significant  
20 impact was identified regarding water supply; in response, a mitigation measure was  
21 included to be implemented as part of the project. This mitigation measure, as described  
22 below, would result in more efficient use of the water supply, thereby reducing the  
23 impact on water supply to an insignificant level.

### 24 **Mitigation Measures from the 1992 Deep Draft Final EIS/EIR that are** 25 **Applicable to the Proposed Project**

26 The approved Deep Draft FEIS/FEIR incorporated **MM 4N-1** as described below. This  
27 mitigation measure is applicable and must be implemented by the proposed Project.  
28 New measures developed specific to the proposed Project in this Draft Supplemental  
29 Environmental Impact Statement/Subsequent Environmental Impact Report  
30 (SEIS/SEIR) must also be implemented. Mitigation measures from the Deep Draft  
31 FEIS/FEIR and new project-specific mitigation measures developed as part of this Draft  
32 SEIS/SEIR would be enforced by inclusion in the proposed Project Mitigation  
33 Monitoring and Reporting Plan (MMRP).

34 **MM 4N-1** stated that water conservation devices and systems would be incorporated  
35 into project designs, including those required by the State of California Department of  
36 Water Resources. These included the following:

- 37 • Any landscape plans shall emphasize a planting scheme that minimizes water  
38 irrigation requirements and shall use drought-resistant, native vegetation.
- 39 • The proposed Project shall pursue the use of reclaimed water from the  
40 Terminal Island Treatment Plant for use in terminal operations.
- 41 • The use of seawater for fire suppression shall be investigated.

## 3.13.2 Environmental Setting

### 3.13.2.1 Public Services

#### 3.13.2.1.1 Fire Protection

Fire prevention, fire protection, and emergency medical services within the City of Los Angeles are operated under the Fire Protection and Prevention Plan (FPPP), an element of the City of Los Angeles General Plan, and the Fire Code section of the Los Angeles Municipal Code. The FPPP serves as a guide for the construction, maintenance, and operation of fire protection facilities in the City of Los Angeles. The Plan sets forth policies and standards for fire station distribution and location, fire suppression water flow (fire flow), fire hydrant standards and locations, firefighting equipment access, emergency ambulance services, and fire prevention activities (City of Los Angeles 2001). The Los Angeles Fire Department (LAFD) considers population, density, nature of on-site land uses, and traffic flow in evaluating the adequacy of fire protection services for a specific area or land use.

Fire protection is also dependent on the required fire flow (i.e., water quantity necessary for fire protection). The amount of fire flow necessary for site-specific fire protection varies and is based on land use type, size, occupancy, type of construction, and degree of present fire hazards. Typical urban fire-flow requirements vary from 2,000 gallons per minute (gpm) in low-density residential areas to 12,000 gpm in high-density commercial and industrial areas. Required fire flow is defined as the rate of water flow, measured in gpm and duration, needed for firefighters to contain a major fire to the buildings within the surrounding block (City of Los Angeles 2001). City of Los Angeles Fire Code standards require that a minimum residual water pressure of 20 pounds per square inch (psi) remain in the water system in excess of the required fire flow. The total required flow rate for the proposed Project facility is between 6,000 and 9,000 gpm per City of Los Angeles fire code and NFPA (Spec Services 2005). The LAFD assigns fire protection standards and response times for both engine and truck companies.

The LAFD provides fire protection and emergency services to the proposed Project area and the entire Port of Los Angeles (Port). The proposed Project site is located within the Harbor Industrial Division service district. The LAFD facilities include numerous land-based fire stations and fireboat companies located in the proposed Project vicinity. The citywide average response time for fire and emergency medical service (EMS) is approximately 8 to 10 minutes (City of Los Angeles 2001).

The first responder to the Pier 400 portion of the proposed Project site would be Station 111, Battalion 6, located approximately 0.75 mile (1.2 kilometer [km]) to the northwest, at 1444 Seaside Avenue, at Berth 256. Station 111 is a boathouse with a staff of three per shift that primarily serves Fish Harbor and the Main Channel areas. Response time from Station 111 to Pier 400 would range from 4 to 15 minutes depending on several factors including the state of seas, wake, boat traffic, and distance to the fire (personal communication, M. Pesich, 2006). Station 112 houses the larger Fireboat #2, which would also assist in the case of a fire at Pier 400. Response time from Station 112 to Pier 400 would be approximately 15 minutes because the large size of the boat requires it to travel slower so as to not create a wake in the harbor (personal communication, Captain Frasier, 2006). The closest land-based fire engine company to the proposed

1 Project sites is Fire Station 40, located approximately 2.0 miles (3.2 km) from Pier 400.  
2 Fire Station 40 is located at 330 Ferry Street, and contains a task force station with a  
3 truck and engine company, and paramedic ambulance. Response times from Station 40  
4 to Pier 400 are approximately 3 to 5 minutes (personal communication, Captain Spencer,  
5 2006). Each station would serve as a backup to the other responder in the event of an  
6 emergency within any portion of the proposed Project area (personal communication, T.  
7 Hix, 2004).

8 Water for domestic use and firefighting purposes may be derived from two major 36-  
9 inch water mains serving the Port provided by the Los Angeles Department of Water and  
10 Power (LADWP). These distribution mains run parallel to Gaffey Street (City of Los  
11 Angeles 1995). Additional water mains are located throughout the interior of Terminal  
12 Island and Pier 400, which serve existing fire protection needs adequately.  
13 Approximately 10 fire hydrants are located in the vicinity of the proposed Tank Farm  
14 Site 2 on Terminal Island, and numerous fire hydrants are located on Pier 400. LAFD  
15 requires accessible fire hydrants at a distance of no more than 300 ft (91 m) from each  
16 other in heavy industrial areas, such as the proposed Tank Farm Site 1 on Pier 400.  
17 Current fire flow is adequate in the proposed Project area and nearby Port facilities  
18 (personal communication, M. Kleckner, 2004).

#### 19 **3.13.2.1.2 Police Protection**

20 Police protection services to the Port are provided by the Los Angeles Police Department  
21 (LAPD) and the Los Angeles Harbor Department Police (Port Police). The proposed  
22 Project site is located in the LAPD's Harbor Division Area, which includes a 27.5  
23 square-mile (71.2 square-km) area including Harbor City, Harbor Gateway, San Pedro,  
24 Wilmington, and Terminal Island.

25 The Port Police is the first response agency in the Port and is responsible for operations  
26 within the Port property boundaries. Headquarters for the Port Police are located in the  
27 Harbor Administration Building at 425 South Palos Verdes Street, San Pedro. Designs  
28 for a new Port Police facility are underway that will be equipped with the latest in  
29 surveillance, command and control, and interoperable communications technologies.  
30 The new facility will be directly linked with the Long Beach Harbor Patrol command  
31 center. Since September 11, 2001, the number of Port Police officers has increased by  
32 30 percent. The Port Police is authorized to maintain a staff of 88 sworn officers who  
33 enforce municipal, state, and federal laws, as well as the Port tariff regulations. The  
34 department maintains 24-hour land and water patrols with a fleet of 24 vehicles, 6 police  
35 boats, and a single zodiac (rubber boat with a motor) used to transport police divers. A  
36 service ratio of 0.72 officers per square mile of developed Port land is used by the Port  
37 Police to determine the number of officers required to provide adequate police protection  
38 services to a given area (personal communication, C. Provinchain, 2007). Port Police  
39 currently patrol the proposed Project site and vicinity, and response time to any portion  
40 of the proposed Project site is estimated between 2 and 3 minutes (personal  
41 communication, K. Hawks, 2004). The Port Police received an \$800,000 federal grant  
42 to purchase two new patrol boats, substantially enhancing patrol and response  
43 capabilities.

44 Although the Port Police provide first response to an emergency, the Port is located  
45 within the City of Los Angeles; and the LAPD has primary responsibility for police

1 services. The LAPD provides support to the Port Police and response to Port incidents  
 2 under the following special circumstances: 1) complex crimes including homicides and  
 3 major traffic incidents, 2) special investigations including narcotics, organized crime,  
 4 and terrorism, and 3) unusual occurrences as identified by the City protocol, such as  
 5 events that require special resources, expertise, or staffing beyond current competencies  
 6 (personal communication, C. Provinchain, 2007). The LAPD Harbor Division is located  
 7 at 221 N. Bayview, San Pedro. The Harbor Division has a staff of approximately 80  
 8 officers per day (16 to 24 officers per shift, 4 shifts per day). This station is responsible  
 9 for patrols throughout San Pedro, Harbor City, and Wilmington. The department  
 10 maintains a fleet of radio cars and helicopters. Response time from the station to Pier  
 11 400 in an emergency situation would be approximately 2 minutes (personal  
 12 communication, Officer Flores, 2006). South Bureau divisions include the 77<sup>th</sup> Street  
 13 Area, Southeast Division, and the Southwest Division. The standard response time for  
 14 emergencies is approximately 7.5 to 9 minutes, and for non-emergencies is 30 minutes.  
 15 Officers also are available from other divisions within the City of Los Angeles, the Los  
 16 Angeles County Sheriff's Department, and the Long Beach Police Department.

17 In addition to City and Port Police protection, each tenant occupying a berth or berths  
 18 in the Port maintains its own internal security staff.

### 19 **3.12.2.1.3 U.S. Coast Guard**

20 The primary responsibility of the U.S. Coast Guard (USCG) is to ensure the safety of  
 21 vessel traffic in the channels of the Port and in coastal waters. The USCG maintains a  
 22 facility on Reservation Point, approximately 0.75 miles (1.2 km) northwest of the  
 23 proposed Pier 400 Marine Terminal. The 11<sup>th</sup> USCG District provides USCG support to  
 24 the Port, including the proposed Project area, and to the Port of Long Beach. The USCG  
 25 in cooperation with the Marine Exchange also operates the Vessel Traffic Service  
 26 (VTS). This voluntary service is intended to enhance vessel safety in the main  
 27 approaches to the Port. Please see Section 3.9 (Marine Transportation) for additional  
 28 information. The USCG determines emergency response time based on the distance that  
 29 the USCG must travel to reach a given facility. An increase in vessel calls does not  
 30 necessarily correlate to an increase in response times (personal communication, P.  
 31 Gooding, 2007) because adequate staffing levels will be maintained and although the  
 32 vessel calls will increase annually, daily calls are expected to remain the same.

## 33 **3.13.2.2 Utilities**

### 34 **3.13.2.2.1 Water Services**

35 Water service is provided to the proposed Project area by the LADWP. The LADWP is  
 36 responsible for supplying, conserving, treating, and distributing water for domestic,  
 37 industrial, agricultural, and firefighting purposes within the City of Los Angeles. Water  
 38 sources utilized by the LADWP consist of local sources, such as wells and recycled  
 39 water (for non-potable uses), and imported sources, including the Los Angeles  
 40 Aqueducts and purchases from the Metropolitan Water District of Southern California  
 41 (MWD). Water supply and conveyance structures comprise a series of reservoirs and a  
 42 network of pipelines, including reservoir outlets, major trunk lines, and other delivery  
 43 lines.

1 The City of Los Angeles has an Urban Water Management Plan (UWMP) prepared by  
2 LADWP that was adopted in 2005 and is updated every 5 years, as required by the  
3 California Water Code (Section 10621a). The LADWP UWMP is designed to serve as  
4 the City master plan for water supply and resources management. This plan provides the  
5 basic policy principles that will guide the LADWP decision making process to secure an  
6 adequate sustainable water supply for the entire City of Los Angeles area of 464 square  
7 miles, including the Port of Los Angeles. The LADWP Urban Water Management Plan  
8 uses a service area-wide method in developing City water demand projections. This  
9 methodology does not rely on individual development demands to determine areawide  
10 growth. Rather, the growth in water use for the entire service area was considered in  
11 developing long-term water projections for the City of Los Angeles to 2030, including  
12 water use by Port tenants. The driving factors for this growth are demographics,  
13 weather, and conservation. LADWP used anticipated growth in the various customer  
14 class sectors as provided by SCAG. The data used were based on the 2003 Regional  
15 Transportation Plan Forecast by SCAG (LADWP 2005). The UWMP provides water  
16 resources and supply planning through the year 2030. The LADWP UWMP is available  
17 at the Los Angeles Harbor Department (LAHD), Environmental Management Division,  
18 425 South Palos Verdes Street, San Pedro CA and at [http://www.ladwp.com/ladwp](http://www.ladwp.com/ladwp/cms/ladwp007157.pdf)  
19 [/cms/ladwp007157.pdf](http://www.ladwp.com/ladwp/cms/ladwp007157.pdf) (LADWP 2005).

20 To provide a reliable water supply, LADWP has invested in groundwater, recycled  
21 water, and water conservation. Specific supply and demand-side management strategies  
22 are designed to provide a “hedge” against droughts and variability of surface water.  
23 Calculations in the UWMP are based on assumptions regarding the various supplies of  
24 water available (including water from the Los Angeles Aqueduct, groundwater, water  
25 purchased from MWD, and recycled water) and existing and projected levels of water  
26 conservation. Based on these calculations, LADWP predicts service reliability for  
27 average and single dry year conditions. Total demand for water is predicted to be  
28 755,000 acre feet in 2025 and 776,000 in 2030. LADWP forecasts include anticipated  
29 demand from the Port of Los Angeles, including the proposed Project. LADWP expects  
30 it will be able to meet this demand with a combination of existing supplies, planned  
31 supplies, and MWD purchases (existing and planned) (LADWP 2005).

32 The 2005 MWD UWMP is also incorporated by reference and is available at LAHD  
33 Environmental Management Division, 425 South Palos Verdes Street, San Pedro CA and  
34 at <http://www.mwdh20.com/>. As discussed above, the 2005 LADWP UWMP relies, in  
35 part, on water supply purchases from MWD. Section A.1 of the 2005 MWD UWMP  
36 explains the methodology for forecasting demand from the full spectrum of urban water  
37 users within the six-county MWD that includes the City of Los Angeles, including  
38 residential, commercial, industrial, institutional, and unmetered users. Section A.3 of the  
39 2005 MWD UWMP provides justifications for its supply projections including existing  
40 supplies, historical supplies, and contracts for future supplies.

41 The LADWP requires consultation with applicants whose projects would be completed  
42 after 2015 by means of a Service Advisory Request (SAR) in order to assess whether the  
43 current infrastructure would be able to accommodate the increased water demand based  
44 on fire flow requirements. If the SAR determines that current infrastructure would not,  
45 the LADWP requires that additional infrastructure (i.e., water line) be constructed at the  
46 applicant’s expense (personal communication, J. Porras, 2007).

1 The LADWP utilizes existing distribution mains located throughout the proposed Project  
2 area. The major water mains near the proposed Project site run parallel to Gaffey Street:  
3 one in San Pedro, running approximately 4,400 ft (1,340 m), and the other in the  
4 Wilmington Community, running approximately 6,800 ft (2,070 m) in length (City of  
5 Los Angeles 1995). Water mains serving Tank Farm Sites 1 and 2 include 8- and 12-  
6 inch lines. A 30-inch water line parallels Navy Way to provide newly installed water  
7 services to Pier 400 (personal communication, M. Kleckner, 2004).

8 Water hydrants in the proposed Project area include double 4-inch hydrants, single 2.5-  
9 inch hydrants, and double 4-inch plus 2.5-inch hydrants. Existing on-site water systems  
10 may need to be altered to accommodate additional needs imposed by the proposed  
11 Project.

#### 12 **3.13.2.2.2 Wastewater**

13 Sewer service to the proposed Project area is provided by the City of Los Angeles  
14 Department of Public Works, Bureau of Sanitation. The Bureau of Sanitation maintains  
15 both sewer lines throughout the proposed Project area and a nearby wastewater treatment  
16 facility. The Terminal Island Treatment Plant (TITP) is located at 455 Ferry Street. The  
17 TITP can treat up to 30 million gallons per day (mgd); TITP presently operates at less  
18 than 50 percent of capacity, treating approximately 15 mgd. In order to determine the  
19 amount of wastewater that will be produced by an industrial project, the TITP maintains  
20 a generation factor of 150 gallons per day per person (personal communication, D.  
21 Gumaer, 2007). The plant treats all wastewater flows received to third stage tertiary  
22 treatment levels, discharging treated effluent into the harbor in the vicinity of Pier 400.  
23 Some wastewater is further treated for reuse within the Port (e.g., for irrigation and  
24 industrial water supplies) (personal communication, D. Gumaer, 2004).

#### 25 **3.13.2.2.3 Storm Drainage**

26 Storm drains are located throughout the proposed Project area and maintained by the  
27 LAHD, City of Los Angeles, and Los Angeles County. Pier 400 has approximately  
28 22,000 linear ft (6,700 m) of reinforced concrete storm drains to collect stormwater.  
29 There are five storm drain outfalls into the harbor, including a 6.5 ft x 5.5 ft (2.0 m x 1.7  
30 m) reinforced concrete box at Face C. Storm drainage on Terminal Island consists of  
31 surface runoff catch basins along Seaside Avenue near Navy Way and a 96-inch outfall  
32 line. This system collects the water and discharges it in the East Basin Channel. An  
33 additional system runs parallel to Ferry Street near Seaside Avenue and consists of a 78-  
34 inch outfall line. This outfall also terminates at the East Basin Channel. Other storm  
35 drain systems include a 78-inch line along Earle Street and the 48-inch Terminal island  
36 storm drain (USACE and LAHD 1992). All of the storm drain system in the proposed  
37 Project area is maintained by the LAHD, City of Los Angeles, and Los Angeles County.  
38 In addition, tenants will be expected to maintain and implement a storm water pollution  
39 prevention plan (SWPPP) in order to ensure that pollution to storm drain systems are  
40 minimized.

#### 41 **3.13.2.2.4 Solid Waste**

42 Solid waste generated at the proposed Project site consists generally of non-hazardous  
43 materials, such as food and beverage containers, paper products, and other miscellaneous

1 personal trash disposed of by onsite staff. Solid waste generated by existing operations  
2 complies with federal, state, and local regulations and codes pertaining to solid waste  
3 disposal. Codes include Chapter VI Article 6 Garbage, Refuse Collection of the City of  
4 Los Angeles Municipal Code, Part 13 Title 42-Public Health and Welfare of the  
5 California Health and Safety Code, and Chapter 39 U.S. Solid Waste Disposal Code.  
6 The terminal complies with the California Solid Waste Management Act (Assembly Bill  
7 [AB] 939), mandating every city in the state to divert at least fifty percent of solid waste  
8 from landfill disposal through source reduction, recycling, and composting. The City of  
9 Los Angeles has met and exceeded the AB 939 requirement, with a 62 percent solid  
10 waste diversion in 2005 (Tseng, 2007). A 70 percent diversion rate is California's new  
11 goal for the year 2020 (California Integrated Waste Management Board 2006). In 2003,  
12 the Port's diversion rate was 41.8 percent, or 1,998.2 tons (LAHD 2005). Most  
13 construction/demolition debris will be crushed for reuse construction purposes within the  
14 Port; however, construction/demolition activities still result in a substantial one-time  
15 contribution to the solid waste stream. The following programs are implemented by the  
16 Port to assist in waste diversion (LAHD 2005):

- 17 • Duplex Printing and Photocopying
- 18 • Wood Waste Diversion Program
- 19 • Green Waste Recycling Program.
- 20 • Administrative Office Recycling Program.
- 21 • Toner Cartridge Recycling
- 22 • Ferrous Metals Recovery Program
- 23 • Inerts Recycling Program
- 24 • Motor Oil Recycling Program
- 25 • Tire Recycling Program
- 26 • Office Paper
- 27 • Cardboard Recycling Program
- 28 • Scrap Metal
- 29 • Beverage Container Recycling
- 30 • Fish Sludge Recovery
- 31 • Wood Waste Collection Program
- 32 • Non-food Donation
- 33 • Office Furniture Source Reduction

34 The Port tenants usually contract with private waste haulers for solid waste disposal.  
35 The City of Los Angeles Bureau of Sanitation, in general, and Browning Ferris  
36 Industries (BFI) (a private waste management service) provide solid waste collection and  
37 disposal services at the proposed Project site. Los Angeles County Ordinance 7A  
38 prohibits solid waste from the City of Los Angeles from being handled by or disposed of  
39 in facilities and landfills operated by the Los Angeles County Sanitation District.

1 Currently, nonhazardous solid waste generated would be disposed of at the Chiquita  
 2 Canyon Landfill or Sunshine Canyon Landfill, depending on daily capacities and hours  
 3 of operation. Chiquita Canyon Landfill, owned by Republic Services, Inc., located at  
 4 29201 Henry Mayo Drive in Valencia, has a daily capacity of up to 5,000 tons.  
 5 Sunshine Canyon Landfill is located at 14747 San Fernando Road in Sylmar. Sunshine  
 6 Canyon Landfill is owned by BFI and has an average capacity of 12,100 tons per day,  
 7 with 5,500 tons per day allotted for City use. As of July 2007, Chiquita Canyon Landfill  
 8 is projected to close by 2025, and Sunshine Canyon Landfill is projected to close by  
 9 2029 (Sanitation Districts of Los Angeles County, 2007). Solid waste generated by the  
 10 Port of Los Angeles facilities and transported to Sunshine Canyon Landfill is determined  
 11 using a generation factor of 0.372 ton per year per acre of Port land (LAHD 2005). In  
 12 addition to the Chiquita Canyon Landfill and the Sunshine Canyon Landfill, the City of  
 13 Los Angeles diverts 600 tons per day of solid waste to the El Sobrante Landfill in  
 14 Riverside County. El Sobrante Landfill has a maximum daily permitted capacity of  
 15 10,000 tons per day, and its projected closure date is 2030 (Sanitation Districts of Los  
 16 Angeles County, 2007). Approximately 4,000 tons per day of capacity is reserved for  
 17 refuse generated in Riverside County (City of Lake Elsinore, 2006).

18 Hazardous materials, such as contaminated soils and petroleum byproducts, that may be  
 19 encountered during construction are first tested first tested to characterize the nature and  
 20 extent of contamination. Based on the characterization, treatment and disposal options  
 21 are developed. In general, treatment options are considered before disposal because  
 22 treatment can be less expensive and because long-term liability can be avoided by  
 23 rendering contaminated soil inert. Treatment of petroleum-contaminated soils can  
 24 include thermal desorption. Other processes include stabilization or fixation.

25 Based on the characterization, if disposal is required, wastes would be taken to an  
 26 appropriate disposal facility or landfill, including Class I landfills. There are numerous  
 27 contaminated waste treatment facilities in California, including TPS Technologies in  
 28 Adelanto and TRS in Azusa. The closest Class I hazardous waste landfill is the  
 29 Buttonwillow Landfill, located in Kern County, approximately 8 miles west of  
 30 Buttonwillow and 36 miles west of Bakersfield. In addition, the Class I Kettleman Hills  
 31 facility is located further to the north in Kings County and has a remaining capacity of  
 32 1,901,860 cubic yards, with no daily limit (CIWMB, 2007). Several other hazardous  
 33 waste disposal sites are located in California and neighboring states. For asbestos-  
 34 containing wastes, disposal facilities include Azusa Land Reclamation Company, Toland  
 35 Road Sanitary landfill, and the Simi Valley Landfill and Recycling Center.

### 36 **3.13.2.2.5 Energy (Electricity and Natural Gas)**

37 The LADWP provides electrical services within the Port and the proposed Project area.  
 38 The LADWP maintains the Harbor Generating Station at the intersection of Island  
 39 Avenue and Harry Bridges Boulevard, near the Port. Numerous above- and below-  
 40 ground electrical transmission lines are in the proposed Project area. There are two  
 41 distribution lines that would serve the proposed Project area: a 4.8 and a 34.5 kilo-Volt  
 42 (kV) distribution lines (Jones & Stokes 2002). These facilities provide sufficient  
 43 electricity to meet current demands (personal communication, V. Haddadian, 2004).

44 The Port, and the rest of the City of Los Angeles, receives its electricity from a network  
 45 of power stations and other sources operated by the LADWP. The industrial power

1 station closest to the Port has four main 138-kV supply lines, two from the Harbor steam  
2 plant, and two from North Wilmington. A 34.5-kV line connects with the steam plant  
3 generator, and underwater circuits from San Pedro (a 4.8-kV line) and Wilmington (a  
4 34.5-kV line) cross to Terminal Island. Several other electrical power cables are  
5 distributed throughout the Harbor area.

6 Both Long Beach Energy (LBE) and the Southern California Gas Company (SCGC)  
7 provide natural gas services to the proposed Project area. LBE and the Port recently  
8 installed a new gas line to serve Pier 400. A 4-inch gas line ties into the LBE network  
9 south of the intersection of Navy Way and Reeves Avenue, and runs south along Navy  
10 Way to Pier 400. This line follows the contour of Pier 400, ending at a meter station  
11 north of the least tern nesting area.

12 The proposed Tank Farm Site 2 at the intersection of Navy Way and Seaside Avenue  
13 would be served by SCGC. The nearest SCGC service facility, a 10-inch line, runs  
14 parallel to and on the north side of Dock Street, which is approximately 900 ft north of  
15 Seaside Avenue. There are no SCGC lines serving the intersection of Seaside Avenue  
16 and Navy Way (personal communication, P. Rongavilla, 2004).

### 17 **3.13.3 Applicable Regulations**

18 The Port is directed by internal standards and policies that guide the provision of service  
19 to its customers. Each agency charged with protecting the public (LAFD, LAPD, Port  
20 Police, and USCG) maintains specific standards, such as response times and levels of  
21 service that must be adhered to during construction and operation of a project. Each  
22 public utility agency and private utility provider, including the LADWP, SCGC, the City  
23 of Los Angeles Department of Public Works Bureau of Sanitation, and Consolidated  
24 Disposal Services, are directed by internal standards and policies that guide the provision  
25 of service to their customers. Specific to the LADWP and SCGC, the CEC regulates the  
26 provision of natural gas and electricity within the state.

#### 27 **3.13.3.1 The Maritime Transportation Security Act**

28 The Maritime Transportation Security Act (MTSA) and its international equivalent, the  
29 ISPS Code (adopted by the International Marine Organization [IMO]), require port  
30 authorities and facility operators to designate and train company, vessel, and facility  
31 security officers and develop security plans for facilities and vessels based on security  
32 assessments and surveys. MTSA regulations also guide implementation of security  
33 measures specific to the operations of each facility and compliance with maritime  
34 security levels. Regulations regarding the submittal of security plans became effective  
35 December 31, 2003; operational compliance were mandated by July 1, 2004.

#### 36 **3.13.3.2 California Urban Water Management Act**

37 The California Urban Water Management Planning Act requires urban water suppliers to  
38 initiate planning strategies that make every effort to ensure the appropriate level of  
39 reliability in its water service sufficient to meet the needs of its various categories of  
40 customers during normal, dry, and multiple dry-water years. The LADWP would be the  
41 water supplier, and as such the proposed Project would be under the jurisdiction of the

LADWP UWMP, prepared pursuant to the California Urban Water Management Planning Act.

### **3.13.3.3 California Solid Waste Reuse and Recycling Access Act**

The California Solid Waste Reuse and Recycling Access Act of 1991 required each jurisdiction to adopt an ordinance by September 1, 1994, requiring any "development project" for which an application for a building permit is submitted to provide an adequate storage area for collection and removal of recyclable materials. AB 1327 regulations govern the transfer, receipt, storage, and loading of recyclable materials at the Port.

### **3.13.3.4 AB939: California Integrated Waste Management Act**

AB939 was designed to focus on source reduction, recycling and composting, and environmentally safe landfilling and transformation activities. This act required cities and counties to divert 25 percent of all solid waste from landfills and transformation facilities by 1995, and 50 percent by year 2000. The City of Los Angeles met and exceeded the year 2000 goals; in 2005, the City's diversion rate was 62 percent (Tseng, 2007). In 2003, the Port's diversion rate was 41.8 percent (LAHD 2005).

### **3.13.3.5 California's Building Code CCR, Title 24, Part 6**

Title 24, Part 6 of the California Building Code describes California's energy efficient standards for residential and nonresidential buildings. These standards were established in 1978 in response to a legislative mandate to reduce California's energy consumption and have been updated periodically to include new energy efficiency technologies and methods. Title 24 requires building according to energy efficient standards for all new construction, including new buildings, additions, alternations, and, in non-residential buildings, repairs.

### **3.13.3.6 City of Los Angeles Plans and Directives**

#### **3.13.3.6.1 Solid Waste Plans**

The City of Los Angeles has initiated the Recovering Energy, Natural Resources, and Economic Benefit from Waste for Los Angeles Plan (RENEW LA) as a guide for solid waste and resource management in the future. The RENEW LA Plan is a comprehensive plan for the recovery and beneficial use of materials currently being disposed of in landfills. The key goal of the RENEW LA Plan is creation of a new system of resource management based on the concept of "Zero Waste." The goal of zero waste as defined in the Plan is to reduce, reuse, recycle, or convert the resources now going to disposal to achieve an overall diversion level of 90 percent or more by 2025 and to leave for disposal only a small amount of inert residual material (City of Los Angeles, 2005). The Plan not only puts forth the vision of where the City of Los Angeles wants to be in 2025 but also provides a guiding "blueprint" of how to get there. The blueprint highlights milestones, facility development, and key actions to be accomplished during four 5-year time periods: 2005, 2010, 2010 to 2015, 2015 to 2020, and 2020 to 2025. Actions will be required in technology and programs, policy, and education.

1 Building on the RENEW LA Plan, the City of Los Angeles is developing the Solid  
2 Waste Integrated Resources Plan (SWIRP), which will serve as the 20-year master plan  
3 for City solid waste and recycling programs. The SWIRP will outline City objectives to  
4 provide sustainability, resource conservation, source reduction, recycling, renewable  
5 energy, maximum material recovery, and public health and environmental protection for  
6 solid waste management planning through 2025—leading Los Angeles toward being a  
7 “zero waste” city. Achieving zero waste will require radical changes in three areas:  
8 product creation (manufacturing and packaging), product use (use of sustainable and  
9 recyclable products), and product disposal (resource recovery or landfilling). Changes in  
10 these areas will affect how we live, work, and interact with the environment.  
11 Stakeholders will be instrumental in guiding this visionary 20-year solid waste  
12 management plan. This plan will seek input from stakeholders representing a broad  
13 section of the community, from diverse cultural backgrounds and income levels, and will  
14 result in the development and implementation of a 20-year master plan for the City’s  
15 solid waste and recycling programs.

#### 16 **3.13.3.6.2 LADWP Urban Water Management Plan**

17 Consistent with the California Urban Water Management Planning Act, LADWP has  
18 prepared the UWMP to describe how water resources are used and to present strategies  
19 that will be used to meet the current and future water needs of the City. To meet the  
20 objectives of the California Urban Water Management Planning Act, the LADWP  
21 UWMP focuses primarily on reliability of the water supply and efficiency measures for  
22 water use.

23 The California Urban Water Management Planning Act requires water suppliers to  
24 develop water management plans every 5 years. LADWP most recently completed this  
25 5-year update in 2005. This plan, the *2005 Urban Water Management Plan*, was  
26 completed as an update to the previous 2000 UWMP to comply with the Urban Water  
27 Management Planning Act. LADWP also published annual fiscal year updates in the  
28 2005 UWMP. The plan projects water demand and supplies through 2030. Total  
29 LADWP demand for water is predicted to be 755,000 acre-feet in 2025 and 776,000 in  
30 2030. LADWP forecasts include anticipated demand from the Port of Los Angeles,  
31 including the proposed Project. LADWP expects to be able meet this demand with a  
32 combination of existing supplies, planned supplies, and MWD purchases (existing and  
33 planned) (LADWP, 2005).

#### 34 **3.13.3.6.3 LADWP Integrated Resources Plan**

35 The LADWP prepared an Integrated Resources Plan (IRP) in 2000 and 2006 to provide  
36 a framework to assure that future energy needs of LADWP customers are reliably met at  
37 the least cost and are consistent with the City commitment to environmental excellence  
38 (City of Los Angeles 2006b). Under the Los Angeles City Charter (Sections 220 and  
39 673), LADWP has the power and duty to construct, operate, maintain, extend, manage,  
40 and control water and electric works and property for the benefit of the City and its  
41 habitats. As a consequence, LADWP is charged with maintaining sufficient capability  
42 to provide its customers with a reliable supply of power.

43 In 2002, Senate Bill (SB) 1078 implemented a Renewable Portfolio Standard, which  
44 established a goal that 20 percent of the energy sold to customers be generated by

1 renewable resources by 2017. The IRP provides objectives and recommendations to  
 2 reliably supply LADWP customers with power and to meet the 20 percent renewable  
 3 energy goal by 2010.

4 As of the 2006 IRP, LADWP prepared a Load Forecast that predicts that LADWP  
 5 customers' electricity consumption will increase at an average rate of 1.1 percent per  
 6 year, and that peak demand will increase an average of 70 megawatts per year for the  
 7 foreseeable future. For 2025, LADWP predicts that peak demand will reach  
 8 7,370 megawatts and that total resources will amount to 8,516 megawatts (including a  
 9 reserve margin).

#### 10 **3.13.3.6.4 Wastewater Facilities Plan**

11 The City prepares a wastewater facilities plan approximately every 10 years or so in  
 12 order to review the existing wastewater treatment system, project future wastewater  
 13 service demands, and identify various facility improvements to meet future demands.  
 14 Future wastewater demand projections are based, in part, on SCAG population  
 15 projections.

16 The Los Angeles Bureau of Sanitation with LADWP recently prepared the IRP for the  
 17 wastewater program. Flows generated in the Port of Los Angeles are conveyed to the  
 18 Terminal Island Treatment Plant. The IRP projects that by the Year 2020, wastewater  
 19 flows within the TITP service area will grow to 19.9 million gallons per day from its  
 20 current flows of approximately 17 million gallons per day (City of Los Angeles 2006b).  
 21 With the capacity of the TITP at 30 million gallons per day, approximately 10 mgd in  
 22 daily capacity at TITP would remain unused by 2020. The projected wastewater flow  
 23 level increase from 16.2 mgd to 19.9 mgd over a 14-year period (2006 to 2020) is  
 24 equivalent to an annual increase in wastewater generation in the Terminal Island Service  
 25 Area of approximately 0.264 mgd. Applying this growth percentage to project future  
 26 flows in the Service Area beyond the 2020 planning horizon in the IRP shows that, in  
 27 2045, Service Area wastewater flows could reach 26.5 mgd, which is below TITP  
 28 capacity.

### 29 **3.13.4 Impacts and Mitigations**

#### 30 **3.13.4.1 Methodology**

##### 31 **Public Services**

32 The proposed Project and alternatives were evaluated to determine if police, USCG, and  
 33 fire protection facilities were adequately staffed and located so they could respond to an  
 34 emergency situation in a timely manner, without the provision of additional physical  
 35 facilities. All agencies were contacted to obtain information regarding their existing and  
 36 projected service capacity, as well as the projected impacts that would result from  
 37 implementation of the proposed Project. Wherever possible (i.e., for agencies that  
 38 provided a demand factor or service ratio), quantifications were included to demonstrate  
 39 specific demands. Modeling of the activity of the proposed Project site shows that crude  
 40 oil capacity would be maximized at year 2025 and would not increase from year 2025 to

1 2040 (Table 2-1). Therefore, 2025 proposed Project data is used for the analysis of  
 2 operational utility demands in the Draft SEIS/SEIR.

3 The Port Police maintains a service ratio of 0.72 officers required per square mile. The  
 4 Port Police officer demands under baseline, proposed Project, and alternatives conditions  
 5 were determined using this service ratio and the applicable developed site acreages, as  
 6 shown below in Table 3.13-1.

**Table 3.13-1. Port Police Demand**

	<i>CEQA Baseline</i>	<i>NEPA Baseline</i>	<i>Proposed Project</i>	<i>No Federal Action/ No Project</i>	<i>Reduced Project</i>
Area (acre) <sup>1</sup>	0	10.7	52.7	10.7	52.7
Conversion (sq mi/acre)	0.0015625	0.0015625	0.0015625	0.0015625	0.0015625
Area (sq mi)	0	0.017	0.093	0.017	0.093
Service Ratio (officer/sq mi) <sup>2</sup>	0.72	0.72	0.72	0.72	0.72
<b>Total Officer Demand</b>	<b>0</b>	<b>0.012</b>	<b>0.059</b>	<b>0.012</b>	<b>0.059</b>
<i>Notes:</i>					
1. The acreage used for quantifying Port Police Demand under the Proposed Project and Reduced Project Alternative represents the sum of the marine terminal acreage (i.e., 5.0 acres) and the total tank farm acreage (i.e., 47.7 acres). The acreage used for NEPA Baseline and No Federal Action/No Project Alternative quantifications represents the total acreage of the proposed Project's Tank Farm Site 1.					
2. Source: personal communication, C. Provinchain, 2007.					

7 **Public Utilities**

8 Assessment of the proposed Project and alternatives impacts on utilities (water,  
 9 wastewater, storm drainage, solid waste) and energy providers (electricity and natural  
 10 gas) varies depending on the utility, but generally includes a comparison of the project-  
 11 generated demand against existing and anticipated resource supplies and/or conveyance  
 12 capacity. Quantifications of demands and generations were included based on factors  
 13 provided by the applicable agencies, as shown in Tables 3.13-2 through 3.13-4.

14 Water supply or conveyance impacts are typically evaluated by estimating water consumption  
 15 factors associated with proposed Project site land use(s) or, for nonresidential development,  
 16 unit demand factors per acre or gross square foot, as established by the City of Los Angeles.  
 17 Construction activities would result in a total water demand of 4,675 thousand gallons (KGal),  
 18 or 14.3 acre feet for both the proposed Project and the Reduced Project Alternative (detailed  
 19 calculations provided in Appendix S). The LADWP maintains operational water consumption  
 20 factors of 150 gallons per day per 1,000 sf of office uses space and 80 gallons per day per 1,000  
 21 sf of industrial uses space (personal communication, F. Akhter, 2007). The office and  
 22 industrial square footages were determined using the total areas of the various buildings  
 23 described in Section 2.4.2. The Terminal Control Building, Administration Building, Security  
 24 Building, and Tank Farm Operator Office and Control Building were included in the area  
 25 designated for office uses; the Motor Control Building and Motor Control Center were  
 26 included in the area designated for industrial uses. Berthing ships would also result in  
 27 additional water demands in the event that an onboard distillation plant fails. In this case, the  
 28 ship would require enough potable water to fill one tank, or 42,300 to 46,200 gallons. Based on  
 29 the experience of the Project applicant, a conservative assumption is that one tanker per month

1 at most would experience distillation plant failure and require potable water while at berth.  
 2 Table 3.13-2 shows the water demand and the percent of water supply this demand represents  
 3 under baseline, proposed Project, and alternatives conditions.

**Table 3.13-2. Water Demands**

	<i>CEQA Baseline</i>	<i>NEPA Baseline</i>	<i>Proposed Project</i>	<i>No Federal Action/ No Project</i>	<i>Reduced Project</i>
<b>CONSTRUCTION ACTIVITY DEMANDS</b>					
Total Demand During Construction (acre feet) <sup>1</sup>	0	0	14.3	0	14.3
<b>Total LADWP Supply (acre feet)<sup>2,3</sup></b>	<b>680,000</b>	<b>683,000</b>	<b>683,000</b>	<b>683,000</b>	<b>683,000</b>
<b>Percent of LADWP Supply</b>	<b>0</b>	<b>0</b>	<b>0.0021</b>	<b>0</b>	<b>0.0021</b>
<b>OPERATIONAL DEMANDS</b>					
<b>Office Use Demands</b>					
Office Uses Factor (gpd/1000 sf) <sup>4</sup>	150	150	150	150	150
Total Office Area (sf)	0	0	37,500	0	37,500
<i>Office Water Demand (gpd)</i>	<i>0</i>	<i>0</i>	<i>5,625</i>	<i>0</i>	<i>5,625</i>
<b>Industrial Use Demands</b>					
Industrial Uses Factor (gpd/1000 sf) <sup>4</sup>	80	80	80	80	80
Total Industrial Area (sf)	0	0	19,800	0	19,800
<i>Industrial Water Demand (gal/day)</i>	<i>0</i>	<i>0</i>	<i>1,584</i>	<i>0</i>	<i>1,584</i>
<b>Berthing Ships Demands</b>					
Berthing Ship Tank Fill Rate (tank fills/year) <sup>5</sup>	0	0	12	0	12
Tank Volume (gal/tank) <sup>5</sup>	46,200	46,200	46,200	46,200	46,200
<i>Berthing Ships Demand (gal/day)</i>	<i>0</i>	<i>0</i>	<i>1,518.9</i>	<i>0</i>	<i>1,518.9</i>
<b>Total Water Demand (gal/day)</b>	<b>0</b>	<b>0</b>	<b>8,727.9</b>	<b>0</b>	<b>8,272.9</b>
Conversion (gal/acre feet)	325,851.4	325,852.4	325,851.4	325,851.4	325,851.4
<b>Total Water Demand (acre feet/year)</b>	<b>0</b>	<b>0</b>	<b>9.8</b>	<b>0</b>	<b>9.8</b>
Total LADWP Supply (acre feet) <sup>3,6</sup>	680,000	755,000	755,000	755,000	755,000
<b>Percent of LADWP Supply</b>	<b>0</b>	<b>0</b>	<b>0.0013</b>	<b>0</b>	<b>0.0013</b>
<i>Notes:</i>					
1. See Appendix S for detailed calculations of construction related water demands.					
2. The 2010 water supply data is used for Project construction as construction activities would occur throughout 2009 and 2010.					
3. Source: LADWP 2005					
4. Source: personal communication, F. Akhter, 2007					
5. Source: PLAMT 2007					
6. The 2025 water supply data is used for Project operations as full capacity operations are reached in this year.					

**Table 3.13-3. Wastewater Generation**

	<i>CEQA Baseline</i>	<i>NEPA Baseline</i>	<i>Proposed Project</i>	<i>No Federal Action/ No Project</i>	<i>Reduced Project</i>
CONSTRUCTION ACTIVITY GENERATIONS					
Total Construction Workers	0	0	90	0	90
Waste Factor (gpd/person) <sup>1</sup>	150	150	150	150	150
Total Waste (gpd)	0	0	13,500	0	13,500
<b>Total Waste (mgd)</b>	<b>0</b>	<b>0</b>	<b>0.01</b>	<b>0</b>	<b>0.01</b>
Existing Flow (mgd) <sup>1</sup>	16.20	16.20	16.20	16.20	16.20
<b>Percent of Existing Flow</b>	<b>0</b>	<b>0</b>	<b>0.08</b>	<b>0</b>	<b>0.08</b>
Daily Plant Capacity (mgd) <sup>1</sup>	30.00	30.00	30.00	30.00	30.00
<b>Percent of Daily Plant Capacity</b>	<b>0</b>	<b>0</b>	<b>0.05</b>	<b>0</b>	<b>0.05</b>
OPERATIONAL GENERATIONS					
Total Employees <sup>2</sup>	0	0	45	0	45
Waste Factor (gpd/person) <sup>1</sup>	150	150	150	150	150
Total Waste (gpd)	0	0	6,000	0	6,000
<b>Total Waste (mgd)</b>	<b>0</b>	<b>0</b>	<b>0.007</b>	<b>0</b>	<b>0.007</b>
Existing Flow (mgd) <sup>1</sup>	16.20	16.20	16.20	16.20	16.20
<b>Percent of Existing Flow</b>	<b>0</b>	<b>0</b>	<b>0.04</b>	<b>0</b>	<b>0.04</b>
Daily Plant Capacity (mgd) <sup>1</sup>	30.00	30.00	30.00	30.00	30.00
<b>Percent of Daily Plant Capacity</b>	<b>0</b>	<b>0</b>	<b>0.02</b>	<b>0</b>	<b>0.02</b>
<i>Notes:</i>					
1. Source: personal communication, D. Gumaer, 2007					
2. This employee number represents the employees on site at the terminal or other Project sites, such as pipeline maintenance and inspection workers.					

**Table 3.13-4. Solid Waste Generation**

	<i>CEQA Baseline</i>	<i>NEPA Baseline</i>	<i>Proposed Project</i>	<i>No Federal Action/No Project</i>	<i>Reduced Project</i>
CONSTRUCTION ACTIVITY GENERATIONS					
<b>Total Generation During Construction (tons)<sup>1</sup></b>	<b>0</b>	<b>5,524</b>	<b>0</b>	<b>0</b>	<b>5,524</b>
OPERATIONAL GENERATIONS					
24/7 Operating Staff Generations					
Total 24/7 Operating Staff	0	0	5	0	5
Shifts Per Day	0	0	3	0	3
Days Per Year	0	0	365	0	365
Generation Factor (pounds/person/day[shift]) <sup>2</sup>	1.5	1.5	1.5	1.5	1.5
<i>Total 24/7 Operation Staff Generations (pounds/year)</i>	<i>0</i>	<i>0</i>	<i>8,212.5</i>	<i>0</i>	<i>8,212.5</i>

**Table 3.13-4. Solid Waste Generation (continued)**

	<i>CEQA Baseline</i>	<i>NEPA Baseline</i>	<i>Proposed Project</i>	<i>No Federal Action/No Project</i>	<i>Reduced Project</i>
OPERATIONAL GENERATIONS (CONTINUED)					
Average Terminal Staff Generations					
Total Average Terminal Staff <sup>3</sup>	0	0	45	0	45
Shifts Per Day	0	0	1	0	1
Days Per Year	0	0	260	0	260
Generation Factor (pounds/person/day) <sup>2</sup>	1.5	1.5	1.5	1.5	1.5
<i>Total Average Terminal Staff Generations (pounds/year)</i>	<i>0</i>	<i>0</i>	<i>17,550</i>	<i>0</i>	<i>17,550</i>
Miscellaneous Terminal Related Waste					
Generation Factor (50% of Staff Related Waste) <sup>2</sup>	0.5	0.5	0.5	0.5	0.5
<i>Total Miscellaneous Waste Generations (pounds/year)</i>	<i>0</i>	<i>0</i>	<i>12,881.3</i>	<i>0</i>	<i>12,881.3</i>
<b>Total Solid Waste Generations (pounds/year)</b>	<b>0</b>	<b>0</b>	<b>38,643.8</b>	<b>0</b>	<b>38,643.8</b>
Total Solid Waste Generations (tons/day)	0	0	0.053	0	0.053
Chiquita Permitted Throughput (tons/day)	5,000	5,000	5,000	5,000	5,000
<b>% Chiquita Permitted Capacity</b>	<b>0</b>	<b>0</b>	<b>0.000010</b>	<b>0</b>	<b>0.000010</b>
Sunshine Permitted Capacity (tons/day) <sup>4</sup>	5,500	5,500	5,500	5,500	5,500
<b>% Sunshine Permitted Capacity</b>	<b>0</b>	<b>0</b>	<b>0.000011</b>	<b>0</b>	<b>0.000011</b>
El Sobrante Permitted Capacity (tons/day) <sup>5</sup>	6,000	6,000	6,000	6,000	6,000
<b>% El Sobrante Permitted Capacity</b>	<b>0</b>	<b>0</b>	<b>0.000009</b>	<b>0</b>	<b>0.000009</b>
<i>Notes:</i>					
1. See Appendix S for data on construction related solid waste generations.					
2. Source: PLAMT 2007					
3. This employee number represents the employees on site at the terminal or other Project sites, such as pipeline maintenance and inspection workers.					
4. Source: Sunshine Landfill 2006					
5. Daily landfill capacity that is not allocated to Riverside County					

1 Water supply or conveyance impacts are typically evaluated by estimating water  
2 consumption factors associated with proposed Project site land use(s) or, for  
3 nonresidential development, unit demand factors per acre or gross square foot, as  
4 established by the City of Los Angeles. Construction activities would result in a total  
5 water demand of 4,675 thousand gallons (KGal), or 14.3 acre feet for both the proposed  
6 Project and the Reduced Project Alternative (detailed calculations provided in Appendix  
7 S). The LADWP maintains operational water consumption factors of 150 gallons per  
8 day per 1,000 sf of office uses space and 80 gallons per day per 1,000 sf of industrial  
9 uses space (personal communication, F. Akhter, 2007). The office and industrial square  
10 footages were determined using the total areas of the various buildings described in  
11 Section 2.4.2. The Terminal Control Building, Administration Building, Security  
12 Building, and Tank Farm Operator Office and Control Building were included in the  
13 area designated for office uses; the Motor Control Building and Motor Control Center

1 were included in the area designated for industrial uses. Berthing ships would also result  
2 in additional water demands in the event that an onboard distillation plant fails. In this  
3 case, the ship would require enough potable water to fill one tank, or 42,300 to 46,200  
4 gallons. Based on the experience of the Project applicant, a conservative assumption is  
5 that one tanker per month at most would experience distillation plant failure and require  
6 potable water while at berth. Table 3.13-2 shows the water demand and the percent of  
7 water supply this demand represents under baseline, proposed Project, and alternatives  
8 conditions.

9 Assessment of impacts on sewers or wastewater treatment systems generally includes the  
10 comparison of the project-related, land use-based wastewater flow generation to the  
11 existing and projected wastewater treatment capacity of the Treatment Plant. The  
12 wastewater generation factor, as provided by the TITP, is 150 gallons per day per  
13 person. Table 3.13-3 shows the total wastewater that would be generated under baseline,  
14 proposed Project, and alternatives conditions. This table also shows the percent these  
15 generations would contribute to the existing flow and to the TITP capacity.

16 Assessment of impacts to the storm drain system is based primarily on the determination  
17 of the contribution of the proposed Project to storm water runoff. These contributions  
18 are compared to existing conditions or the diversion and disruption of surface water  
19 flows in the event that flooding would occur.

20 Impacts related to solid waste generally involve the estimation of the project-related,  
21 land use-based, solid waste generation, as compared to the capacity of the landfill(s)  
22 serving the proposed Project area. Construction activities would result in a total solid  
23 waste generation of 5,524 tons for both the proposed Project and Reduced Project  
24 Alternative (see Appendix S for detailed calculations). The operational solid waste  
25 generated under baseline, proposed Project, and alternatives conditions was determined  
26 using a generation factor of 1.5 pounds of solid waste per person per day. This factor  
27 was determined by numerous studies and the experience of the Project applicant. An  
28 additional 50 percent of the employee generated waste was included to account for  
29 miscellaneous terminal related waste. The percent contribution to the permitted daily  
30 capacities of both Bradley and Sunshine Canyon Landfills was then determined based on  
31 the solid waste generation, as shown below in Table 3.13-4.

32 The determination of impacts on electricity and natural gas supplies depends on an  
33 estimation of demand generated by the proposed Project uses, as compared to  
34 availability and capacity of existing supplies and the conveyance infrastructure.

35 **Energy Conservation**

36 The proposed Project was analyzed in this Draft SEIS/SEIR to determine whether the  
37 development would result in efficient and necessary consumption of energy. Relevant  
38 proposed Project elements, such as new buildings, were described in terms of energy  
39 efficiency in order to analyze future energy consumption.

40 PLAMT would design and build all three buildings that are proposed for construction at  
41 the Marine Terminal under the Leadership in Energy and Environmental Design (LEED)  
42 Green Building Rating System. This system provides certifications that a building  
43 project is designed, constructed, and operated at high performance green building

standards. To earn a LEED certification, a building project must meet certain prerequisites and earn performance benchmarks within each category. The six categories include Sustainable Sites, Water Efficiency, Energy and Atmosphere, Materials and Resources, Indoor Environmental Quality, and Innovation in Design. The prerequisites that are met and the benchmarks that are earned determine the level of LEED certification, which can be Certified, Silver, Gold, or Platinum (U.S. Green Building Council 2007).

## School Services

Development of the proposed Project would not result in any impact on the demand for school services, and is therefore not discussed further. As explained in Chapter 7, the proposed Project would not induce growth or population migration. Short-term construction employees, as well as long-term employees, would be accommodated by the existing local labor pool within the greater Los Angeles area. The proposed Project would not result in impacts to school services associated with increases in population on the surrounding communities, including Wilmington and San Pedro, as no increase in population would occur.

### 3.13.4.1.1 CEQA Baseline

Section 15125 of the CEQA Guidelines requires EIRs to include a description of the physical environmental conditions in the vicinity of a project that exist at the time of the NOP. These environmental conditions would normally constitute the baseline physical conditions by which the CEQA lead agency determines whether an impact is significant. For purposes of this Draft SEIS/SEIR, the CEQA Baseline for determining the significance of potential impacts under CEQA is June 2004. CEQA Baseline conditions are described in Section 2.6.2.

The CEQA Baseline represents the setting at a fixed point in time, with no project growth over time, and differs from the “No Federal Action/No Project” Alternative (discussed in Section 2.5.2.1) in that the No Federal Action/No Project Alternative addresses what is likely to happen at the site over time, starting from the baseline conditions. The No Federal Action/No Project Alternative allows for growth at the proposed Project site that would occur without any required additional approvals.

### 3.13.4.1.2 NEPA Baseline

For purposes of this Draft SEIS/SEIR, the evaluation of significance under NEPA is defined by comparing the proposed Project or other alternative to the No Federal Action scenario (i.e., the NEPA Baseline and No Federal Action Alternative are equivalent for this project). Unlike the CEQA Baseline, which is defined by conditions at a point in time, the NEPA Baseline/No Federal Action is not bound by statute to a “flat” or “no growth” scenario; therefore, the USACE may project increases in operations over the life of a project to properly analyze the NEPA Baseline/No Federal Action condition.

The NEPA Baseline condition for determining significance of impacts is defined by examining the full range of construction and operational activities that are likely to occur without a permit from the USACE. As documented in Section 2.6.1, the USACE, the LAHD, and the applicant have concluded that no part of the proposed Project would be

1 built absent a USACE permit. Thus, for the case of this project, the NEPA Baseline is  
2 identical to the No Federal Action/No Project Alternative (see Section 2.6.1). Elements of  
3 the NEPA Baseline include:

- 4 • Paving, lighting, fencing, and construction of an access road at Tank Farm  
5 Site 1 to allow temporary storage of chassis-mounted containers on the site  
6 by APM;
- 7 • Paving, fencing, and lighting at Tank Farm Site 2 to accommodate temporary  
8 wheeled container storage by APL or Evergreen; and
- 9 • Additional crude oil deliveries at existing crude oil terminals in the San  
10 Pedro Bay Ports.

11 Significance of the proposed Project or alternative is defined by comparing the proposed  
12 Project or alternative to the NEPA Baseline (i.e., the increment). The NEPA Baseline  
13 conditions are described in Section 2.6.1 and 2.5.2.1.

#### 14 3.13.4.2 Thresholds of Significance

15 The following significance criteria are based on the *L.A. CEQA Thresholds Guide* (City  
16 of Los Angeles 2006a) and other criteria applicable to LAHD projects. According to the  
17 *L.A. CEQA Thresholds Guide* (City of Los Angeles 2006a), a project would normally be  
18 considered to have a significant impact on fire protection and law enforcement services  
19 based on several underlying factors that can affect the need for additional infrastructure  
20 to maintain these public services. Although the *L.A. CEQA Thresholds Guide* does not  
21 address thresholds of significance in regards to the Port Police and the USCG, these law  
22 enforcement agencies serve the proposed Project and would potentially be affected by  
23 proposed Project activities. Accordingly, the LAHD has included the USCG and Port  
24 Police in this discussion. Therefore, the proposed Project would have a significant  
25 impact on *public services* if it would:

26 **PS-1:** Burden existing USCG, LAPD, or Port Police staff levels and facilities such  
27 that the USCG, LAPD or Port Police would not be able to maintain an  
28 adequate level of service without additional facilities, the construction of  
29 which could cause significant environmental effects.

30 **PS-2:** Require the addition of a new fire station or the expansion, consolidation, or  
31 relocation of an existing facility to maintain service.

32 The proposed Project would have a significant impact on *public utilities* if it would:

33 **PS-3:** Require or result in the construction or expansion of water, wastewater,  
34 storm drains, or electrical utility lines, the construction or expansion of  
35 which could cause significant environmental effects.

36 **PS-4:** Exceed existing water supply, wastewater treatment facilities, or landfill  
37 capacities.

1                   **PS-5:** Require new, offsite energy supply and distribution infrastructure, or  
 2                   capacity-enhancing alternations to existing facilities that are not anticipated  
 3                   by adopted plans or programs.

4                   The discussion under PS-4 assumes implementation of AB 939 because the City is  
 5                   actively implementing measures to comply with AB 939 requirements, such as recycling  
 6                   programs and other means of complying with the California Solid Waste Reuse and  
 7                   Recycling Access Act to reduce the generation of solid waste and assist the City in  
 8                   maintaining solid waste diversion goals pursuant to AB 939.

### 9                   **3.13.4.2.1 Proposed Project Public Services Relocation Plan**

10                   As part of the proposed Project, the LAHD would prepare a Public Services Relocation  
 11                   Plan to address the public utilities and services that would require relocation or  
 12                   otherwise be affected during the proposed Project construction. The Plan would be  
 13                   developed with input from the service providers for the proposed Project site and would  
 14                   be submitted to City regulatory departments for review and approval. Construction  
 15                   affecting utilities could not begin until the Plan is approved. The Plan would be on file  
 16                   with the LAHD during construction. The Plan would include the following measures:

- 17                   • Prior to disconnecting any existing services, new facilities (e.g., water,  
 18                   sewer, communications, gas, electricity) would be installed. Pipeline  
 19                   installation would occur within existing utility corridors/easements.
- 20                   • Minor service interruptions (defined as those lasting 1 day or less) may occur  
 21                   when onsite utilities are connected with in-street utility services. Affected  
 22                   properties would be properly notified prior to any service interruption.
- 23                   • Full access to all utilities would be restored after the completion of proposed  
 24                   Project construction.

### 25                   **3.13.4.3 Project Impacts and Mitigation**

#### 26                   **3.13.4.3.1 Proposed Project**

27                   **Impact PS-1: The proposed Project would not increase the demand for**  
 28                   **additional law enforcement officers and/or facilities such that the USCG,**  
 29                   **LAPD, or Port Police would not be able to maintain an adequate level of**  
 30                   **service without additional facilities, the construction of which could cause**  
 31                   **significant environmental effects.**

32                   Construction activities would not increase demand on police protection services because  
 33                   of a possible increased security risk or the presence of employees during construction.  
 34                   However, construction activities have the potential to reduce response times where  
 35                   traffic detours or congestion results. The analysis of the proposed Project on traffic  
 36                   congestion and intersection levels of service is contained in Section 3.6, Ground  
 37                   Transportation. The contractor would be required pursuant to the Public Services  
 38                   Relocation Plan (Section 2.4.3.5) to coordinate with LAPD and the Port Police to allow  
 39                   for the identification of alternative response routes during all construction phases,  
 40                   thereby preventing the temporary interruption and/or delays for law enforcement  
 41                   responses. Additionally, proposed Project construction would require the use of one or

1 more sites for construction staging of equipment and materials, which would be  
2 vulnerable to unauthorized trespassing or theft; however, private security provided by  
3 the construction contractor and LAPD, as needed, would protect against such risk.

4 The LAPD is not the primary police service provider in the Port area and primarily  
5 provides support to the Port Police under special circumstances (as described in Section  
6 3.13.2.1.2). The Port and individually operated terminals might be recognized as sites at  
7 heightened risk for terrorism, which is a special circumstance under which the LAPD  
8 would respond. Therefore, recent protocols have been implemented which require a  
9 security plan and strict procedures for each terminal operator. The proposed Project  
10 would include development and approval of a security plan. The security plan would be  
11 prepared in accordance with the Maritime Transportation Security Act of 2002 (46 Code  
12 of Federal Regulations [CFR] 701) and 33 CFR 101-106. The plan would be approved  
13 by the USCG in collaboration with local LAHD and police authorities. In order to  
14 maintain security, the specifics of the plans would not be released to the public. The  
15 security plan's design would include local and remote monitoring systems, equipment  
16 systems, terminal personnel training programs, and emergency response procedures. All  
17 facilities would be within a perimeter security barrier/fence around the sites. Additional  
18 details of the security protocols for the Marine Terminal and Tank Farm Sites 1 and 2  
19 are described in Section 3.12.2.6 and the Project Description. These strict individual  
20 security parameters for each terminal operator contribute considerably to managing  
21 potential crime and work in concert with local police authorities. For additional  
22 discussion of the risk for terrorism, see Section 3.12 Risk of Upset/Hazardous Materials.  
23 With the implementation of the security measures described above, the proposed Project  
24 would result in a minimal increased likelihood that a special circumstance situation  
25 might occur (i.e., terrorism). This would result in a negligible increase in demand on the  
26 LAPD because such situations would be rare or would not occur at all.

27 Proposed terminal operations would result in increased vessel traffic in the proposed  
28 Project area; however, the corresponding increase in demands for law enforcement  
29 would be infrequent because the proposed Project includes basic security equipment,  
30 including perimeter security fencing, 24-hour guard service, cameras with local and  
31 remote monitoring and control, and a perimeter security system with remote monitoring  
32 and alarm notification. Specifically, the proposed Project would not burden the Port  
33 Police such that they would not be able to maintain an adequate level of service. Table  
34 3.13-1 demonstrates that proposed development of 53.2 acres (0.093 square miles) of  
35 terminal lands would require less than one (i.e., 0.059) new Port Police officer (as  
36 determined by applying the Port Police service ratio of 0.72 officers per square mile of  
37 developed Port land). This represents a negligible increase in demand for police protection  
38 personnel. Due to the ongoing increase in Port Police staffing levels in conjunction with  
39 Port development, existing service ratios would not decrease and average response times  
40 would not increase above the existing five minutes or less (personal communication, C.  
41 Provinchain, 2007).

42 Construction of all proposed Project components would be entirely land-based, with the  
43 exception of the proposed Marine Terminal, and would, therefore, not affect marine  
44 traffic or USCG operations. Construction of the Marine Terminal at Pier 400 would  
45 require use of marine-based construction equipment to support development of the berth  
46 (e.g., pile driving) and installation of a Spill Containment System such as a boom. Any  
47 support boat to be used during these construction activities would be significantly  
48 smaller and more mobile than the tankers that would be berthed at Pier 400 during

1 proposed Project operations. As standard safety precautions would be utilized by the  
2 LAHD (see Section 3.9, Marine Transportation) in piloting these vessels through harbor  
3 waters, the short-term presence of a support boat at the proposed Berth 408 would not  
4 reduce the existing level of safety for vessel navigation in the Port and would not affect  
5 USCG's ability to maintain an adequate level of service.

6 The available statistical data on accidents that involve ships and tankers (see Section  
7 3.9.4.3.1.2) lead to the conclusion that proposed Project tankers are likely to have one  
8 ACG incident during the life of the Project. However, the potential for this to happen is  
9 minimized by the proposed Project's location, which requires minimal transit time from  
10 the Angels Gate entry to Pier 400 and is away from the Main Channel where the highest  
11 level of ship traffic occurs. Additionally, the International Safety Guide for Oil Tankers  
12 and Terminals (ISGOTT) and the Oil Companies International Marine Forum (OCIMF)  
13 Tanker Mooring Guidelines would be adhered to for tanker mooring and operations at  
14 the terminal. The USCG determines response times based on the distance that is required  
15 to travel to the various Port facilities. Proposed development would not affect USCG  
16 response times as the proposed Project would be located within the same operating  
17 distance of other facilities within the jurisdiction of Sector Los Angeles and Long Beach;  
18 therefore, response times would not increase due to the proposed Project. As described in  
19 Table 2-1, the proposed Project would result in an increase in annual vessel calls; however,  
20 this increase would not diminish the resources or response times provided by the USCG  
21 (personal communication, P. Gooding 2007) due to adequate staffing levels and the fact  
22 that, although vessel calls will increase annually, daily calls are expected to remain the  
23 same.

#### 24 **CEQA Impact Determination**

25 As previously described in Section 3.13.2.1.2, existing response times provided by the  
26 USCG, LAPD, and Port Police are considered adequate. Proposed Project construction  
27 would have the potential to reduce response times where traffic detours or congestion  
28 results, thereby increasing law enforcement response times. However, construction  
29 contractors would be required pursuant to the Public Services Relocation Plan to coordinate  
30 with LAPD and Port Police to establish alternative response routes, ensuring continuous law  
31 enforcement access to surrounding areas. Although Marine Terminal operations would  
32 result in a minimal increase in calls to the Port Police and/or LAPD, provisions for security  
33 features including perimeter security fencing, 24-hour guard service, cameras with local  
34 and remote monitoring and control, a perimeter security system with remote monitoring  
35 and alarm notification, and additional security features mandated by the MTSA would  
36 reduce the demand for law enforcement. As shown in Table 3.13-1, operation of the  
37 proposed Project would require 0.059 new officers. CEQA Baseline conditions do not  
38 produce a demand for officers, so the proposed Project related demands represent a total  
39 increase over baseline conditions. The proposed Project would be located within the same  
40 operating distance of other facilities served by the USCG and would therefore not increase  
41 emergency response times. Additionally, at the maximum capacity level of operations  
42 (reached in 2025), the proposed Project would result in an increase of 249 vessel calls per  
43 year over CEQA Baseline levels, which would not reduce available USCG resources or  
44 increase response times due to adequate staffing levels and the fact that, although vessel  
45 calls will increase annually, daily calls are expected to remain the same. Accordingly, the  
46 proposed Project would not increase the demand for additional law enforcement officers  
47 and/or facilities such that the USCG, LAPD, or Port Police would not be able to maintain an

1 adequate level of service without additional facilities, the construction of which could cause  
2 significant environmental effects, and impacts would be less than significant under CEQA.

3 *Mitigation Measures*

4 No mitigation is required.

5 *Residual Impacts*

6 Less than significant impact.

7 **NEPA Impact Determination**

8 The proposed Project would include development of a Marine Terminal and Tank Farm  
9 Sites, which would require a greater total site area compared to NEPA Baseline  
10 conditions; however, the associated increase in calls to the Port Police and LAPD would  
11 not substantially impact existing levels of service during proposed Project construction  
12 as the proposed Project includes security features consistent with MTSA regulations that  
13 would minimize the demand for police protection. The proposed Project would result in  
14 a total area of 53.2 acres and a corresponding Port Police demand of less than one (i.e.,  
15 0.059) officer. This demand is slightly greater than the 0.012 officers required by the  
16 10.7 acre temporary storage site under baseline conditions. The proposed Project would  
17 be located within the same operating distance of other facilities served by the USCG and  
18 would therefore not increase emergency response times. Additionally, since the  
19 proposed Project would see more vessel calls at the maximum capacity level of  
20 operation than the NEPA Baseline (i.e., 201 vessel calls in the Port under the proposed  
21 Project as compared to 267 vessel calls in the San Pedro Bay Ports under the NEPA  
22 Baseline), available USCG resources and response times within either of the San Pedro  
23 Bay Ports would be substantially similar. Accordingly, the proposed Project would not  
24 increase the demand for additional law enforcement officers and/or facilities such that  
25 the USCG, LAPD, or Port Police would not be able to maintain an adequate level of  
26 service without additional facilities, the construction of which could cause significant  
27 environmental effects, and less than significant impacts would occur under NEPA.

28 *Mitigation Measures*

29 No mitigation is required.

30 *Residual Impacts*

31 Less than significant impact.

32 **Impact PS-2: Development of the proposed Project would not require the**  
33 **addition of a new fire station or the expansion, consolidation, or relocation**  
34 **of an existing facility to maintain service.**

35 Construction activities would not be expected to substantially increase the risk of fire or  
36 other emergencies. However, construction of a crude oil Marine Terminal may result in  
37 an accidental spill and require the response of LAFD. The analysis of construction-  
38 related hazards is contained in Section 3.12, Risk of Upset/Hazardous Materials.  
39 Standard prevention measures (e.g., BMPs identified in the tenant's SWPPP) would be

1 implemented during construction to reduce the potential for construction-related  
2 accidents. As standard prevention measures would be implemented that would reduce  
3 construction-related accidents, the demand on LAFD to respond to such construction-  
4 related accidents and emergencies would be minimal. Therefore, there would not be a  
5 need for new or expanded facilities during proposed Project construction to maintain  
6 service objectives.

7 As discussed in Section 3.13.2.2, the citywide average response time for fire and EMS is  
8 approximately 8 to 10 minutes (City of Los Angeles 2001). To the proposed Project site,  
9 the average response time of land-based fire services is 3 to 5 minutes, which is much  
10 lower than the citywide average. The water-based fire services average response time  
11 ranges from 4 minutes to 15 minutes.

12 The fire fighting systems for each area of the proposed Project would be designed in  
13 accordance with applicable City of Los Angeles Fire Codes (See Chapter 2, Project  
14 Description, for a complete description). As part of the detailed design process,  
15 approved standards for minimum emergency equipment access would be applied to  
16 ensure adequate emergency circulation throughout each site (this includes adequate  
17 roadway width, turning radii, and staging areas for emergency equipment).

18 The Marine Terminal would be equipped with a complete fire suppression system. Each  
19 fire fighting location would have a connection to the LADWP fire water supply line, a  
20 high-volume fire pump, aqueous foam fire-fighting (AFFF) storage and injection  
21 capability, and fixed monitor and hose reel stations. At Berth 408, fire pumps would  
22 have the capability to draw upon seawater for use in the event of a water supply  
23 emergency. Both fire truck and fireboat connections would be provided to enable access  
24 for additional emergency fire fighting resources. The fire pumps at the Marine Terminal  
25 would be electrically driven and backed up by a standby power generator. Devices  
26 capable of detecting the presence of open flames (“fire eyes”) would be installed at the  
27 Marine Terminal. Fire eyes and a fire suppression system similar to what would be  
28 installed at the Marine Terminal would also be installed at Tank Farm Sites 1 and 2 and  
29 would function in the same manner as described above. Each Tank Farm would be  
30 protected by a firewater loop line and equipped with a foam storage tank and mixing  
31 skid. The crude oil tanks would be equipped with a foam ring, and injector/mixing  
32 nozzles. All systems would be monitored locally from the Marine Terminal Control  
33 Building and remotely from the Operation Control Center.

34 The terminal operator would also prepare an Oil Spill Response Plan (OSRP) for review  
35 and approval by appropriate federal, state, and local agencies (including the USCG,  
36 Department of Fish and Game, Office of Spill Prevention and Response, the California  
37 State Lands Commission). Chapter 2 and Section 3.12, Risk of Upset/Hazardous  
38 Materials, provide further detail on the proposed Project’s handling of hazardous  
39 materials and associated emergency response plans.

40 LAFD emergency response times during proposed Project construction and operations  
41 would be affected only by changes to land use and accessibility to the site (personal  
42 communication, F. Comfort, 2007). As discussed in Section 3.8.4.3.1 under Impact LU-  
43 2.1, land use designations would remain the same under the proposed Project for both  
44 the Marine Terminal and Tank Farm Sites, and would be consistent with the short-term  
45 and long-term uses defined in the PMP, RMP, and City of Los Angeles Planning and  
46 Zoning Code. No access roads would be altered or removed during proposed Project

1 construction or operation; however, traffic congestion could occur during proposed  
2 Project construction, potentially increasing LAFD emergency response times.  
3 Construction contractors would coordinate with LAFD pursuant to the Public Services  
4 Relocation Plan prior to commencement of construction activities to identify alternative  
5 response routes, ensuring continuous adequate fire and emergency vehicular access to  
6 the proposed Project area. For the reasons described above, operation of the proposed  
7 Project would not result in an increase in average emergency response times and the  
8 LAFD would be able to accommodate proposed Project related fire protection demands.

9 **CEQA Impact Determination**

10 Proposed Project construction would have the potential to reduce response times where  
11 traffic detours or congestion results, thereby increasing LAFD emergency response  
12 times. However, construction contractors would coordinate with LAFD pursuant to the  
13 Public Services Relocation Plan prior to commencement of construction activities to  
14 identify alternative response routes, ensuring continuous adequate fire and emergency  
15 vehicular access to the proposed Project area. Any removal and/or relocation of fire  
16 hydrants, water supply trunk lines, and distribution mains in the proposed Project area  
17 would be conducted in accordance with the proposed Public Services Relocation Plan,  
18 which is described in Section 2.4.3.5, and subject to review and approval by the LAFD  
19 and LADWP. Therefore, the proposed Project construction would not impede  
20 emergency response services in the proposed Project area. As fire protection features,  
21 such as firewater mains and fire monitors, would be incorporated into the design process,  
22 proposed Project operations would not substantially increase the demand for fire  
23 protection services. Furthermore, the LAFD would be notified in advance and afforded  
24 the opportunity to review and comment on any proposed Project features affecting  
25 emergency access. Project operations would not affect emergency response times as the  
26 site would have the same land use, no existing fire lanes or hydrants would be removed,  
27 and site access would be reviewed by the LAFD. Because the proposed Project  
28 construction and operations would not increase the demand for fire services to a degree  
29 that would require the addition of a new fire station or the expansion, consolidation, or  
30 relocation of an existing facility to maintain service, impacts would be less than  
31 significant under CEQA.

32 *Mitigation Measures*

33 No mitigation is required.

34 *Residual Impacts*

35 Less than significant impact.

36 **NEPA Impact Determination**

37 The proposed Project would include development of a Marine Terminal and two Tank  
38 Farm sites that would not be part of the NEPA Baseline. Proposed Project construction  
39 would have the potential to reduce response times where traffic detours or congestion  
40 results, thereby increasing LAFD emergency response times. However, construction  
41 contractors would coordinate with LAFD pursuant to the Public Services Relocation  
42 Plan prior to commencement of construction activities to identify alternative response  
43 routes, ensuring continuous adequate fire and emergency vehicular access to the  
44 proposed Project area. As fire protection features, such as firewater mains and fire

1 monitors, would be incorporated into the design process, proposed Project operations  
2 would not substantially increase the demand for fire protection services. Furthermore,  
3 the LAFD would be notified in advance and afforded the opportunity to review and  
4 comment on any proposed Project features affecting emergency access. However, these  
5 activities would not require removal and/or relocation of fire hydrants and utilities in the  
6 proposed Project area. Project operations would not affect emergency response times as  
7 the site would have the same land use, no existing fire lanes or hydrants would be  
8 removed, and site access would be reviewed by the LAFD. Because the proposed  
9 Project would not increase the demand for fire services to a degree that would require  
10 the addition of a new fire station or the expansion, consolidation, or relocation of an  
11 existing facility to maintain service, less than significant impact would occur under  
12 NEPA.

### 13 *Mitigation Measures*

14 No mitigation is required.

### 15 *Residual Impacts*

16 Less than significant impact.

17 **Impact PS-3: The proposed Project would not result in a substantial**  
18 **increase in utility demands; however, construction and/or expansion of**  
19 **onsite water, wastewater, or storm drain lines would be required to**  
20 **support new terminal development.**

21 Project construction would require infrastructure such as lighting and the addition of  
22 utility facilities to ensure optimum terminal productivity. New onsite utility lines (water,  
23 wastewater, and storm drains) would be constructed to serve proposed Marine Terminal  
24 operations; the relocation and/or extension of some existing utility lines would also  
25 occur. New water connections would be provided by LADWP, and new sanitary sewer  
26 connections provided by the City of Los Angeles Bureau of Sanitation. These new  
27 utilities would tie into the existing utility lines that currently serve the vicinity of the  
28 proposed Project site. Provisions for water and wastewater service to the proposed  
29 Project site would require some minor offsite construction to connect new utility with  
30 existing infrastructure. All infrastructure improvements and connections would occur  
31 within City streets, would comply with the City's municipal code as well as permits  
32 from applicable agencies (e.g., Los Angeles Regional Water Quality Control Board  
33 [LARWQCB]), and would be performed under permit by the City Bureau Engineering  
34 and/or LADWP. Additionally, the LAHD would prepare a Public Services Relocation  
35 Plan as part of the proposed Project (see Section 2.4.3.5) to address the public utilities  
36 that would be affected by proposed Project construction, which would be reviewed by  
37 the service providers and City departments prior to implementation.

38 Implementation of the proposed Project would generate minimal increased demands for  
39 water consumption associated with onsite usage (restrooms and sinks in buildings,  
40 berthing vessels taking on water) and/or general site maintenance (washing). Additional  
41 trunk lines and distribution lines would need to be extended to direct water to the new  
42 Marine Terminal facilities and Tank Farm sites. However, as the proposed Project has  
43 limited building development and would not include major water consuming industrial  
44 or commercial processes, terminal construction and operation would not require

1 substantial quantities of water. Trunk lines and distribution mains in the proposed  
2 Project area would be constructed consistent with the proposed Project's Public Services  
3 Relocation Plan.

4 The proposed Project would also result in minimal increases in wastewater demands.  
5 Increased staff levels associated with proposed construction and operation would  
6 generate minor increase wastewater flows. Wastewater flows generated from  
7 implementation of the proposed Project would be conveyed to, and treated by, the TITP.  
8 Based on the wastewater generation factor of 150 gallons per day per person (personal  
9 communication, D. Gumaer, 2007), Project construction activities would generate 0.01  
10 million gallons per day, and Project operation would generate 0.006 million gallons per  
11 day, as shown in Table 3.13-3. The TITP currently operates at 54 percent capacity. The  
12 City projects that by 2020, wastewater flows in the TITP service area will grow from the  
13 current 16.2 mgd (about 54 percent of TITP capacity) to 19.9 mgd (City of Los Angeles  
14 2006b); therefore, approximately 10 mgd in daily capacity at TITP would remain unused  
15 and available for future years. The negligible increase in wastewater flows from the  
16 proposed Project construction and operation would not exceed the capacity of the  
17 Treatment Plan or conveyance system due to the substantial remaining capacity at TITP  
18 beyond 2020, which is estimated to adequately handle 2025 and 2045 wastewater flow  
19 demands.

20 A storm water treatment and discharge system would be installed as part of the proposed  
21 Project. A storm water collection system consisting of collection headers and isolation  
22 valves would be installed in the tank dike containment areas for each Tank Farm. Storm  
23 water collected in the tank dike containment areas during storms would be directed to a  
24 treatment system that would include oil/water separation, filtration, and carbon  
25 adsorption to remove hydrocarbons.

26 New equipment areas would be sloped and graded so that rainwater, equipment wash  
27 downs, and any equipment leaks would drain to a collection apron or a buried piping  
28 network. The drain system would be designed to allow safe drainage of firewater during  
29 a fire-fighting situation. Any liquids collected in drains within the new equipment areas  
30 would be collected in a sump, for eventual disposal through pumping in the outbound  
31 pipeline or to a transport truck. Stormwater falling inside of bermed or diked equipment  
32 or processing areas would flow to a storm water treatment system for removal of oil and  
33 grease. Treated water would be discharged under an approved National Pollutant  
34 Discharge Elimination System (NPDES) permit.

### 35 **CEQA Impact Determination**

36 As shown in Table 3.13-2, construction of the proposed Project would result in a water  
37 demand that would represent 0.0021 percent of the available water supply; proposed  
38 Project operation water demands would represent 0.0013 percent of the available water  
39 supply. Construction and/or expansion of onsite water lines would be required to  
40 support new terminal development; however, the water mains serving the Project area  
41 and LADWP supplies have sufficient capacity to accommodate water required to support  
42 proposed Project operations.

43 Project construction would generate 0.01 mgd of wastewater and proposed Project  
44 operation would generate 0.007 mgd (Table 3.13-3). The amount of wastewater  
45 generated by the Project would exceed that of the CEQA Baseline; however, it would

1 not significantly affect existing or future capacity at TITP due to the substantial  
2 remaining capacity at TITP beyond 2020, which is estimated to adequately handle 2045  
3 wastewater flow demands. The proposed Project area is served by existing wastewater  
4 conveyance systems that would not be significantly affected by wastewater generated  
5 during construction.

6 The development of the Project site would include an onsite drainage system that would  
7 convey site runoff directly to the Harbor. Because the Project site is adjacent to the  
8 Harbor, construction and/or expansion of offsite stormwater drainage facilities would not  
9 be required or affected.

10 As previously stated, the Port would prepare a Public Services Relocation Plan as part of  
11 the proposed Project to address the public utilities that would be affected by proposed  
12 Project construction, which would be reviewed by the service providers and City  
13 departments prior to implementation. Because new utility lines would be located within  
14 exiting City streets or existing pipeline corridor easements, utility connections would  
15 comply with the City's municipal code, and would be performed under permit by the  
16 City Bureau of Engineering and/or LADWP. Modifications of or connections with  
17 utility lines would not result in significant environmental impacts. Therefore, impacts to  
18 public utility locations or alignments would be less than significant under CEQA.

#### 19 *Mitigation Measures*

20 No mitigation is required.

#### 21 *Residual Impacts*

22 Less than significant impact.

#### 23 **NEPA Impact Determination**

24 As shown in Table 3.13-2, construction of the proposed Project would result in a water  
25 demand that would represent 0.0021 percent of the available water supply; proposed  
26 Project operation water demands would represent 0.0013 percent of the available water  
27 supply. NEPA Baseline conditions would only have minimal water demands during  
28 construction (i.e., paving and installing access roads) and would not demand any water  
29 during operational activities. Construction and/or expansion of onsite water lines would  
30 be required to support new terminal development; however, the water mains serving the  
31 Project area and LADWP supplies have sufficient capacity to accommodate water  
32 required to support proposed Project operations.

33 As shown in Table 3.13-3, proposed Project construction would generate 0.01 million  
34 gallons per day and operation would generate 0.007 million gallons per day. Similar to  
35 water demands, NEPA Baseline conditions would only generate minimal wastewater  
36 during site improvements and would not generate any wastewater during operations as  
37 no employees would be present. Proposed Project generations would not significantly  
38 affect existing or future capacity at TITP due to the substantial remaining capacity at  
39 TITP beyond 2020, which is estimated to adequately handle 2045 wastewater flow  
40 demands. The proposed Project area is served by existing wastewater conveyance  
41 systems that would not be significantly affected by wastewater generated during  
42 construction.

1 The development of the Project site would include an onsite drainage system that would  
2 convey site runoff directly to the Harbor. Because the Project site is adjacent to the  
3 Harbor, construction and/or expansion of offsite stormwater drainage facilities would not  
4 be required or affected.

5 As previously stated, the Port would prepare a Public Services Relocation Plan as part of  
6 the proposed Project to address the public utilities that would be affected by proposed  
7 Project construction, which would be reviewed by the service providers and City  
8 departments prior to implementation. Because new utility lines would be located within  
9 exiting City streets or existing pipeline corridor easements, utility connections would  
10 comply with the City's municipal code, and would be performed under permit by the  
11 City Bureau of Engineering and/or LADWP. Modifications of or connections with  
12 utility lines would not result in significant environmental impacts. Therefore, impacts to  
13 public utility locations or alignments would be less than significant under NEPA.

14 *Mitigation Measures*

15 No mitigation is required.

16 *Residual Impacts*

17 Less than significant impact.

18 **Impact PS-4: The proposed Project would not generate substantial water**  
19 **and/or wastewater demands that would exceed the capacity of existing**  
20 **facilities in the proposed Project area. The proposed Project would**  
21 **generate substantial solid waste demands that could exceed capacities.**

22 As stated previously (see Impact PS-3), new onsite utility lines/infrastructure (water,  
23 wastewater, and storm drains) would be constructed to serve proposed Marine Terminal  
24 and Tank Farm operations and would be designed to accommodate water and  
25 wastewater demands that would be created by onsite development and Marine Terminal  
26 and Tank Farm operations. Because the proposed Project construction would be  
27 completed prior to 2015, the applicant would not be required to file an SAR with the  
28 LADWP, as described in Section 3.13.2.2.1.

29 As shown in Table 3.13-2, construction of the proposed Project would result in a water  
30 demand of approximately 14.3 acre feet, or 0.0021 percent of the available water supply  
31 in 2010 of 683,000 acre feet. In addition to daily construction water needs, water must  
32 also be supplied for hydrostatic testing of the pipeline segments. Hydrotest water would  
33 be obtained from LADWP sources in the area. Transferring the water used for each  
34 hydrotest from one component to another would minimize the amount of water that  
35 would be used for hydrostatic tests. Hydrotest water would be collected, treated, and  
36 discharged in accordance with a NPDES permit issued by the LARWQCB. The quantity  
37 of water used for these purposes would not be sufficient to burden regional water  
38 supplies, as the amount used for this purpose would be comparatively minimal.  
39 Operation of the proposed Project would result in a water demand of approximately 9.8  
40 acre feet per year, or 0.0013 percent of the available water supply in 2025 of 755,000  
41 acre feet. The marine berth fire pumps would have the capability to draw upon seawater  
42 for use in the event of a water supply emergency. The 2005 UWMP includes Project  
43 water demand and shows that water supply will meet overall LADWP demand

1 (including the Project) in 2030. Maximum Project water demand would be reached in  
2 2025, which is within the UWMP timeframe. Water is expected to be continued to be  
3 supplied to the Project after 2025 under future water planning and updated UWMPs  
4 (required every 5 years) because the Project demand would be treated as existing  
5 demand in future water supply planning. Based on the ongoing water demand and  
6 supply planning and management efforts of the City, the negligible incremental  
7 difference in water demand would not significantly affect water supplies or water  
8 distribution infrastructure.

9 As shown in Table 3.13-3, Project construction would generate 0.01 million gallons of  
10 wastewater per day and proposed Project operation would generate 0.004 million gallons  
11 per day, or 0.08 and 0.02 percent of existing TITP flow, and 0.05 and 0.01 percent of  
12 TITP capacity, respectively. The minimal amounts of wastewater generated by proposed  
13 Project construction and operation would not exceed the capacity of the TITP or sewer  
14 trunk lines in the vicinity of the proposed Project due to the substantial remaining  
15 capacity at TITP beyond 2030, which is estimated to adequately handle 2025 and 2045  
16 wastewater flow demands.

17 Construction activities would generate debris that would require disposal in a landfill.  
18 Construction debris is one of the greatest individual contributors to solid waste capacity,  
19 making up approximately 22 percent of the State of California's waste disposal demand  
20 (CIWMB 2004). Solid wastes generated from construction would generally be in the  
21 form of short sections of line pipe, wastes from welding and coating, as well as boxes  
22 and crates used in the shipment of materials. Recyclable materials, which would  
23 constitute most of the solid waste, would be hauled to local recycling centers, as is  
24 common in most construction projects in the region. Waste that is not recyclable would  
25 be taken to a local landfill. Trash containers, including containers for disposal of  
26 recyclable material, would be provided for daily refuse generated by construction  
27 workers. Other construction wastes might include contaminated soils, asphalt, concrete,  
28 and contaminated water used in hydrostatic test of the pipelines. The non-hazardous  
29 wastes would be hauled to a sanitary landfill or recycler. Please see Section 3.12 Risks  
30 of Upset/Hazardous Materials for additional discussion on hazardous wastes. Proposed  
31 construction activities would generate 5,524 tons of solid waste, which would be a  
32 substantial one-time contribution to the solid waste stream, possibly contributing to the  
33 exceedance of solid waste facility capacities (see detailed calculations provided in  
34 Appendix S)

35 Proposed Project operations would result in a negligible increase in the generation of  
36 solid waste. The proposed Project would comply with federal, state, and local  
37 regulations and codes pertaining to solid waste disposal. Solid waste would largely be  
38 composed of food wrappers, paper products, and personal waste. Other waste, such as  
39 oil coated rags, and miscellaneous non-hazardous trash would be collected on-site in  
40 containers and transported from the site periodically by approved methods. Please see  
41 Section 3.12 Risks of Upset/Hazardous Materials for discussion on hazardous waste.  
42 Operation of the proposed Project would be required to comply with applicable waste  
43 diversion requirements, as well as all existing hazardous waste laws and regulations,  
44 including the federal Resource Conservation and Recovery Act (RCRA) and  
45 Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA),  
46 and California Code of Regulations (CCR) Title 22 and Title 26.

1 Based on the solid waste generation factor of 0.372 ton per year per acre of land (LAHD  
2 2005), the proposed Project would generate approximately 17.9 tons of solid waste per  
3 year (0.053 ton per day) that would require transportation to Chiquita Canyon Landfill,  
4 Sunshine Canyon Landfill, or other disposal facility. This amount represents 0.000010  
5 percent of the permitted daily capacity of 5,000 tons at Chiquita Canyon Landfill,  
6 0.000011 percent of the permitted daily capacity of 5,500 at the Sunshine Canyon  
7 Landfill, or 0.00009 percent of the available permitted daily capacity at the El Sobrante  
8 Landfill. The landfills would be able to accommodate the negligible increase in solid  
9 waste generated by Project operations through their respective closure dates estimated to  
10 be approximately 2030. Solid waste generated from Project operations after closure of  
11 the Chiquita Canyon Landfill, the Sunshine Canyon Landfill, and the El Sobrante  
12 Landfill (2030 and after) would represent a significant impact to landfill capacity.  
13 However, if additional adequate landfill capacity is permitted and made available, if  
14 more distant landfill capacity is utilized for solid waste generated in the City, and/or if  
15 the achievement of Zero-Waste solutions in the City occurs over an extended time  
16 period, then the solid waste generated by the Project likely would not represent a  
17 significant impact to landfill capacity.

18 **CEQA Impact Determination**

19 The proposed Project collectively constitutes negligible demands for water and  
20 wastewater supplies that would be accommodated by LADWP, onsite water supply  
21 sewer infrastructure, and existing TITP capacity. Construction of the proposed Project  
22 would result in a water demand of approximately 14.3 acre feet, or 0.0021 percent of the  
23 LADWP water supply of 683,000 acre feet in 2010. The proposed Project would result  
24 in a water demand of approximately 8,728 gallons per day, or 9.8 acre feet per year at  
25 the full-capacity level of operation. This would represent 0.0013 percent of the  
26 projected available water supply of 755,000 acre feet in 2025. There is no water demand  
27 associated with CEQA Baseline conditions, and all proposed Project related demands  
28 would represent an increase over baseline conditions. Because the UWMP addresses  
29 water supply for the City of Los Angeles, and because the Project site and the Port of  
30 Los Angeles are a part of the City, the UWMP accounts for the water usage of the  
31 Project. In addition, the UWMP is required to be updated every 5 years, thus water  
32 demand and supply planning would be continued. Based on efforts by the City for  
33 ongoing water demand and supply planning and management, the negligible incremental  
34 difference in water demand would not significantly affect water supplies or water  
35 distribution infrastructure.

36 Construction of the proposed Project would result in a wastewater generation of 0.01  
37 million gallons per day. Operational generations would be 0.007 million gallons per  
38 day. Proposed Project generated wastewater would constitute 0.05 percent of the TITP  
39 daily capacity during construction activities and 0.02 percent during operational  
40 activities. As there is no wastewater generations associated with CEQA Baseline  
41 conditions, all proposed Project related demands would represent an increase over  
42 baseline conditions. However, as the TITP currently operates at 54 percent capacity,  
43 these increases would be negligible. The amount of wastewater generated by the Project  
44 would not significantly affect existing or future capacity at TITP due to the limited  
45 operational Project flows and the substantial remaining capacity at TITP beyond 2020,  
46 as described previously. Therefore, impacts associated with exceeding the capacity of  
47 the existing water supply and the TITP wastewater treatment facility would be less than  
48 significant.

1 The amount of solid waste generated by construction activities would total  
2 approximately 5,524 tons, which would be a substantial one-time contribution to the  
3 solid waste stream, possibly contributing to the exceedance of solid waste facility  
4 capacities. Because construction waste is one of the greatest individual contributors to  
5 reductions in solid waste capacity, impacts associated with solid waste generation from  
6 Project construction are assumed to be significant under CEQA.

7 Although hazardous materials could be encountered and require disposal during  
8 construction activities, several contaminated soil treatment and disposal options and  
9 Class I landfills are available for offsite disposal, providing adequate capacity. Because  
10 of this, impacts related to exceeding the capacity of a Class I landfill would be less than  
11 significant.

12 The proposed Project would generate 17.9 tons of solid waste per year during operations,  
13 representing 0.000010 percent of the permitted daily capacity of 5,000 tons at Chiquita  
14 Canyon Landfill, 0.000011 percent of the permitted daily capacity of 5,500 at the  
15 Sunshine Canyon Landfill, or 0.00009 percent of the available permitted daily capacity  
16 at the El Sobrante Landfill. As no solid waste is generated under CEQA Baseline  
17 conditions, all proposed Project operation generations would represent an increase over  
18 baseline conditions. Solid waste generated from Project operations after closure of the  
19 Chiquita Canyon Landfill, the Sunshine Canyon Landfill, and the El Sobrante Landfill  
20 (2030 and after) might represent a significant impact to landfill capacity if no new  
21 capacity were available and landfill demand remains constant. However, additional  
22 adequate landfill capacity is expected to be permitted and made available, including the  
23 utilization of more distant landfill capacity for solid waste generated in the City.  
24 Additionally, the achievement of Zero-Waste solutions in the City will reduce the overall  
25 need for landfill capacity. Thus, the post-2030 solid waste generated by the Project  
26 would not represent a significant impact to landfill capacity.

27 In conclusion, impacts associated with exceeding the capacity of the existing water  
28 supply and the TITP wastewater treatment facility would be less than significant.  
29 However, as solid waste generated during construction activities is one of the greatest  
30 individual contributors to solid waste capacity and would represent a substantial one-  
31 time contribution to the solid waste stream, impacts associated with solid waste  
32 generation during construction activities would be significant under CEQA.

### 33 *Mitigation Measures*

34 Although impacts on water supply would be less than significant, **MM 4N-1** from the  
35 Deep Draft FEIS/FEIR would apply. This measure requires that water conservation  
36 devices and systems be incorporated into project designs, including those required by the  
37 State of California Department of Water Resources. These include the following:

- 38 • Any landscape plans shall emphasize a planting scheme that minimizes water  
39 irrigation requirements and shall use drought-resistant, native vegetation.
- 40 • The proposed Project shall pursue the use of reclaimed water from the  
41 Terminal Island Treatment Plant for use in terminal operations.
- 42 • The use of seawater for fire suppression shall be investigated.

1 In addition, the following measures would reduce the amount of solid waste requiring  
2 transportation to a landfill that would be generated during proposed Project construction:

3 **MM PS-1: Recycling of Construction Materials.** Demolition and/or excess  
4 construction materials shall be separated on-site for reuse/recycling or proper disposal.  
5 During grading and construction, separate bins for recycling of construction materials  
6 shall be provided on-site.

7 **MM PS-2: Materials with Recycled Content.** Materials with recycled content shall  
8 be used in project construction. Chippers on site during construction shall be used to  
9 further reduce excess wood for landscaping cover.

10 **MM PS-3: Solid Waste Integrated Resources Plan Compliance.** To ensure adequate  
11 long-term solid waste management, the proposed Project will be required to comply with  
12 policies and standards set forth in the City's Solid Waste Integrated Resources Plan  
13 (SWIRP) following 2025.

14 *Residual Impacts*

15 Impacts to water supply and wastewater treatment capacity would be less than  
16 significant. Implementation of **MMs PS-1** and **PS-2** would reduce proposed Project  
17 construction-related solid waste generation, ensuring less than significant impacts  
18 through approximately 2030 when existing landfills are projected to close. **MM PS-3**  
19 would ensure adequate long-term solid waste management for the proposed Project  
20 starting from 2025. Long-term impacts to solid waste disposal would be less than  
21 significant after mitigation.

22 **NEPA Impact Determination**

23 As discussed under **Impact PS-3**, the proposed Project collectively constitutes negligible  
24 demands for water and wastewater supplies that would be accommodated by LADWP,  
25 onsite water supply sewer infrastructure, and existing TITP capacity. Construction of the  
26 proposed Project would result in a water demand representing 0.0021 percent of the  
27 LADWP water supply, and operation would result in a water demand representing  
28 0.0013 percent of the projected available water supply. Baseline condition demands and  
29 generations are minimal, and all proposed Project related demands are considered an  
30 increase over baseline conditions. Because the UWMP addresses water supply for the  
31 City of Los Angeles, and because the Project site and the Port of Los Angeles are a part  
32 of the City, the UWMP accounts for the water usage of the Project. In addition, the  
33 UWMP is required to be updated every 5 years, thus water demand and supply planning  
34 would be continued. Based on efforts by the City for ongoing water demand and supply  
35 planning and management, the negligible incremental difference in water demand would  
36 not significantly affect water supplies or water distribution infrastructure.

37 Construction of the proposed Project would result in a wastewater generation of 0.01  
38 million gallons per day, and operational generations would be 0.007 million gallons per  
39 day. Proposed Project generated wastewater would constitute 0.05 percent of the TITP  
40 daily capacity during construction activities and 0.02 percent during operational  
41 activities. Under baseline conditions, site improvements (i.e., paving and installing  
42 access roads) would result in minimal water demands and wastewater generations; there  
43 would be no demands or generations during operations. Therefore, all proposed Project

1 related demands would represent an increase over baseline conditions. As the TITP  
2 currently operates at 54 percent capacity, these increases would be negligible. The  
3 amount of wastewater generated by the Project would not significantly affect existing or  
4 future capacity at TITP due to the limited operational Project flows and the substantial  
5 remaining capacity at TITP beyond 2020, as described previously. Therefore, impacts  
6 associated with exceeding the capacity of the existing water supply and the TITP  
7 wastewater treatment facility would be less than significant.

8 The amount of solid waste generated by construction activities would total  
9 approximately 5,524 tons, which would be a substantial one-time contribution to the  
10 solid waste stream, possibly contributing to the exceedance of solid waste facility  
11 capacities. Because construction waste is one of the greatest individual contributors to  
12 reductions in solid waste capacity, impacts associated with solid waste generation from  
13 Project construction are assumed to be significant under NEPA.

14 Although hazardous materials could be encountered and require disposal during  
15 construction activities, several contaminated soil treatment and disposal options and  
16 Class I landfills are available for offsite disposal, providing adequate capacity. Because  
17 of this, impacts related to exceeding the capacity of a Class I landfill would be less than  
18 significant.

19 The proposed Project would generate 17.9 tons of solid waste per year during operations,  
20 representing 0.000010 percent of the permitted daily capacity of 5,000 tons at Chiquita  
21 Canyon Landfill, 0.000011 percent of the permitted daily capacity of 5,500 at the  
22 Sunshine Canyon Landfill, or 0.00009 percent of the available permitted daily capacity  
23 at the El Sobrante Landfill. Under baseline conditions, site improvements (i.e., paving  
24 and installing access roads) would result in minimal solid waste generation; there would  
25 be no demands or generations during operations. As baseline condition generations are  
26 minimal, all proposed Project related generations are considered an increase over  
27 baseline conditions. Solid waste generated from Project operations after closure of the  
28 Chiquita Canyon Landfill, the Sunshine Canyon Landfill, and the El Sobrante Landfill  
29 (2030 and after) might represent a significant impact to landfill capacity if no new  
30 capacity were available and landfill demand remains constant. However, additional  
31 adequate landfill capacity is expected to be permitted and made available, including the  
32 utilization of more distant landfill capacity for solid waste generated in the City.  
33 Additionally, the achievement of Zero-Waste solutions in the City will reduce the overall  
34 need for landfill capacity. Thus, the post-2030 solid waste generated by the Project  
35 would not represent a significant impact to landfill capacity.

36 In conclusion, impacts associated with exceeding the capacity of the existing water  
37 supply and the TITP wastewater treatment facility would be less than significant.  
38 However, as solid waste generated during construction activities is one of the greatest  
39 individual contributors to solid waste capacity and would represent a substantial one-  
40 time contribution to the solid waste stream, impacts associated with solid waste  
41 generation during construction activities would be potentially significant under NEPA.

42 *Mitigation Measures*

43 Although impacts on water supply would be less than significant, **MM 4N-1** from the  
44 Deep Draft FEIS/FEIR would apply. **MMs PS-1** through **PS-3** would apply to the  
45 proposed Project construction solid waste impacts.

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*Residual Impacts*

There would be less than significant impacts to water supply and wastewater treatment capacity. Implementation of **MMs PS-1** and **PS-2** would reduce proposed Project construction related solid waste generation, ensuring less than significant impacts through approximately 2030 when existing landfills are projected to close. **MM PS-3** would ensure adequate long-term solid waste management for the proposed Project starting from 2025. Long-term impacts to solid waste disposal would be less than significant after mitigation.

**Impact PS-5: Implementation of the proposed Project would generate minor increases in energy demands; however, construction of new offsite energy supply facilities and distribution infrastructure would not be required to support proposed Project activities.**

Energy (diesel fuel and electricity) would be used during construction of the proposed Project. Energy expenditures during construction would be short term in duration, occurring periodically during each of the proposed Project construction phases. Construction would not result in substantial waste or inefficient of energy because construction would be competitively bit, which would facilitate efficiency in all construction stages. Current LAHD bid specifications include provisions to reduce energy consumption, such as staging work during non-peak hours when appropriate. Additionally, construction of modern buildings and structures incorporates energy-efficient designs that are mandated by current building codes.

Proposed Project development would include installation of lighting, utilities, and buildings. Electricity demands as the proposed Project site would be related to industrial uses including vessel-unloading operations, transfer of crude oil, Alternative Marine Power (AMP) system usage (if AMP is implemented as a mitigation measure), site and security lighting, and general site maintenance. However, the increase in electricity demands associated with the Berth 408 Terminal operations would not exceed existing supplies and/or result in the need for major new facilities. The proposed Project would provide new energy distribution infrastructure required to support proposed Project operations. The proposed Marine Terminal and Tank Farm Site 1 would be served by a 34.5-kV electrical transmission service provided by the LADWP, electrical switch gear and motor control centers; power and control conduits and cables; terminal and building lighting systems; terminal grounding system; and miscellaneous associated electrical equipment. This equipment would be necessary to power the electric shore side pumps, provide general facility load, and to accommodate potential future electrical loads associated with “cold ironing” of tankers (if the AMP system is used as a mitigation measure). Tank Farm Site 1 would also be served by the same 34.5-kV electrical transmission service described above for the Marine Terminal. Tank Farm Site 2 would be served by a 34.5-kV electrical transmission service provided by the LADWP. The service would include extension of the existing 34.5-kV transmission line, a substation, and associated metering. The proposed electrical facilities would include associated electrical switchgear, step-down transformers, motor control centers, ground systems, conduit, wire, lighting, and associated electrical equipment.

Electricity for the proposed Project would be provided by the LADWP. The LADWP has ample generation capacity to meet the needs of its customers and will continue to do so with proper planning and development of facilities in accordance with the City

1 Charter. The LADWP electrical load is projected to grow at 1.1 percent per year over  
2 the next 20 years. Annual peak demand is projected to grow slightly slower, 1.0 percent  
3 per annum (Holloway 2002). Based on the LADWP IRP, electricity resources and  
4 reserves at LADWP will adequately provide electricity for the Project. The IRP does not  
5 provide load demand forecasts or supply resources because the IRP planning horizon  
6 extends only to 2025 (City of Los Angeles 2006b). However, because LADWP is  
7 required by the Charter to provide a reliable supply of electricity for its customers and  
8 because LADWP is moving toward increasing renewable energy supplies in its resource  
9 portfolio, the electricity demand of the proposed Project, by itself, would not result in the  
10 need to construct a new offsite power station or facility. For a discussion of cumulative  
11 impacts related to electricity demand, see Chapter 4.

12 The proposed Pier 400 Marine Terminal buildings (i.e., the Terminal Control Building,  
13 Administration Building, and Security Building) would be designed to and built under  
14 the LEED Green Building Rating System. This system provides certifications that a  
15 building project is designed, constructed, and operated at high performance green  
16 building standards. Additionally, the proposed Project would incorporate energy  
17 conservation measures in compliance with California's Building Code CCR Title 24 that  
18 requires building energy efficient standards for new construction (including  
19 requirements for new buildings, additions, alterations, and, in non-residential buildings,  
20 repairs). Incorporation of these design standards, as required by state law, would reduce  
21 wasteful energy consumption. In addition to energy efficient designs that are mandated  
22 by current building codes, onsite structures would be sited and constructed to maximize  
23 natural heating and cooling.

24 The proposed Project would generate minimal demands for natural gas associated with  
25 space and water heating. As administrative offices represent a minor component of  
26 proposed Project operations, the increased demand for natural gas would be  
27 accommodated by SCG via the existing infrastructure located adjacent to and within the  
28 proposed Project site.

### 29 **CEQA Impact Determination**

30 Energy (diesel fuel and electricity) would be required to support proposed construction  
31 activities. Energy demands during construction activities would be short-term and  
32 temporary and are not anticipated to result in the substantial waste or inefficient use of  
33 energy as a result of the competitive bid process that facilitates cost effective strategies  
34 that support energy efficiency and conservation throughout all construction stages, as  
35 described above. Project operations would generate demands for electricity associated  
36 with vessel-unloading operations, transfer of crude oil, AMP system usage (if AMP is  
37 used as a mitigation measure), site and security lighting, and general site maintenance.

38 Project-related natural gas demands (space and water heating) would exceed the usage  
39 under the CEQA Baseline, but would not be substantial because administration buildings  
40 represent a minor part of proposed terminal operations.

41 Electricity for the proposed Project would be provided by the LADWP. The LADWP  
42 has ample generation capacity to meet the needs of its customers and will continue to do  
43 so with proper planning and development of facilities in accordance with the City  
44 Charter. LADWP has communicated that it would be able to provide power to the  
45 proposed Project site because LADWP has more than enough electrical power to supply

1 the proposed container terminal (Joe 2005). Based on the LADWP IRP, electricity  
2 resources and reserves at LADWP will adequately provide electricity for the Project.  
3 The IRP does not provide load demand forecasts or supply resources beyond 2025  
4 because its planning horizon extends only to 2025. However, because LADWP is  
5 required by the Charter to provide a reliable supply of electricity for its customers and  
6 because LADWP is moving toward increasing renewable energy supplies in its resource  
7 portfolio, the electricity demand of the proposed Project by itself would not result in the  
8 need to construct a new offsite power station or facility (for a discussion of cumulative  
9 impacts related to electricity demand, see Chapter 4).

10 As the proposed Project would provide new energy distribution infrastructure required to  
11 support proposed Project operations, and Berth 408 Terminal operations would not  
12 exceed existing supplies and/or result in the need for major new facilities. Additionally,  
13 the proposed Project would include three new buildings that would be built under the  
14 LEED Green Building Rating System in order to optimize energy efficiency.  
15 Consequently, impacts would be less than significant under CEQA.

#### 16 *Mitigation Measures*

17 No mitigation is required.

#### 18 *Residual Impacts*

19 Less than significant impacts.

#### 20 **NEPA Impact Determination**

21 The proposed Project would include development of a Marine Terminal, two tank farm  
22 sites, and new pipelines that would not be part of the NEPA Baseline. Energy demands  
23 during construction activities would be short-term and temporary, and are not anticipated  
24 to result in the substantial waste or inefficient use of energy as a result of the competitive  
25 bid process that facilitates cost effective strategies that support energy efficiency and  
26 conservation throughout all construction stages, as described above. Project operations  
27 would generate demands for electricity associated with vessel-unloading operations,  
28 transfer of crude oil, AMP system usage (if AMP is used as a mitigation measure), site  
29 and security lighting, and general site maintenance.

30 Project-related natural gas demands (space and water heating) would exceed the usage  
31 under the CEQA Baseline, but would not be substantial because administration buildings  
32 represent a minor part of proposed terminal operations.

33 Electricity for the proposed Project would be provided by the LADWP. The LADWP  
34 has ample generation capacity to meet the needs of its customers and will continue to do  
35 so with proper planning and development of facilities in accordance with the City  
36 Charter. LADWP has communicated that it would be able to provide power to the  
37 proposed Project site because LADWP has more than enough electrical power to supply  
38 the proposed container terminal (Joe 2005). Based on the LADWP IRP, electricity  
39 resources and reserves at LADWP will adequately provide electricity for the Project.  
40 The IRP does not provide load demand forecasts or supply resources beyond 2025  
41 because its planning horizon extends only to 2025. However, because LADWP is  
42 required by the Charter to provide a reliable supply of electricity for its customers and

1 because LADWP is moving toward increasing renewable energy supplies in its resource  
 2 portfolio, the electricity demand of the proposed Project by itself would not result in the  
 3 need to construct a new offsite power station or facility (for a discussion of cumulative  
 4 impacts related to electricity demand, see Chapter 4).

5 Proposed Project energy demands would be greater than those under baseline conditions  
 6 because only minimal energy would be demanded during site improvements (i.e., paving  
 7 and installing access roads) and operations (i.e., lighting). However, as the proposed  
 8 Project would provide new energy distribution infrastructure required to support proposed  
 9 Project operations, and Berth 408 Terminal operations would not exceed existing supplies  
 10 and/or result in the need for major new facilities. Additionally, the proposed Project would  
 11 include three new buildings that would be built under the LEED Green Building Rating  
 12 System in order to optimize energy efficiency. There would be less than significant  
 13 impacts under NEPA.

#### 14 *Mitigation Measures*

15 No mitigation is required.

#### 16 *Residual Impacts*

17 Less than significant impact.

### 18 **3.13.4.3.2 No Federal Action/No Project Alternative**

19 Under the No Federal Action/No Project Alternative, proposed Project facilities would  
 20 not be constructed or operated. As described in Section 2.5.2.1, the No Federal  
 21 Action/No Project Alternative considers the only remaining allowable and reasonably  
 22 foreseeable use of the proposed Project site: Use of the site for temporary storage of  
 23 wheeled containers on the site of Tank Farm 1 and on Tank Farm Site 2. This use would  
 24 require paving, construction of access roads, and installation of lighting and perimeter  
 25 fencing.

26 In addition, for analysis purposes, under the No Federal Action/No Project Alternative a  
 27 portion of the increasing demand for crude oil imports is assumed to be accommodated at  
 28 existing liquid bulk terminals in the San Pedro Bay Ports, to the extent of their remaining  
 29 capacities. Although additional demand, in excess of the capacity of existing marine  
 30 terminals to receive it, may come in by rail, barge, or other means, rather than speculate  
 31 about the specific method by which more crude oil or refined products would enter  
 32 southern California, for analysis purposes, the impact assessment for the No Federal  
 33 Action/No Project Alternative in this SEIS/SEIR is based on marine deliveries only up to  
 34 the available capacity of existing crude oil berths. As described in Section 2.5.2.1, the  
 35 impact assessment for the No Federal Action/No Project Alternative also assumes existing  
 36 terminals would eventually comply with the California State Lands Commission (CSLC)  
 37 Marine Oil Terminal Engineering and Maintenance Standards (MOTEMS), that LAHD  
 38 and the Port of Long Beach would renew the operating leases for existing marine  
 39 terminals, and that existing terminals would comply with Clean Air Action Plan (CAAP)  
 40 measures as of the time of lease renewal (i.e., 2008 for Port of Long Beach Berths 84-87,  
 41 2015 for LAHD Berths 238-240, and 2023 for Port of Long Beach Berths 76-78).

1 The NEPA Baseline condition coincides with the No Federal Action/No Project  
2 Alternative for this project because the USACE, the LAHD, and the applicant have  
3 concluded that, absent a USACE permit, no part of the proposed Project would be built  
4 (Section 2.6.1). All elements of the No Federal Action/No Project Alternative are  
5 identical to the elements of the NEPA Baseline. Therefore, under a NEPA determination  
6 there would be no impact associated with the No Federal Action/No Project Alternative.

7 **Impact PS-1: The No Federal Action/No Project Alternative would not**  
8 **increase the demand for additional law enforcement officers and/or**  
9 **facilities such that the USCG, LAPD, or Port Police would not be able to**  
10 **maintain an adequate level of service without additional facilities, the**  
11 **construction of which could cause significant environmental effects.**

12 **CEQA Impact Determination**

13 Construction and operation in the No Federal Action/No Project Alternative would result  
14 in a slight increase in demands for Port Police and LAPD services. As the Port Police  
15 determines the demand for additional officers based on area, the demand generated  
16 under construction and operations would be equal. As shown in Table 3.13-1, the 10.7  
17 acres developed under the No Federal Action/No Project Alternative would result in a  
18 demand for less than one (i.e., 0.012) new officer. CEQA Baseline conditions do not  
19 produce a demand for officers, so the No Federal Action/No Project Alternative related  
20 demands represent a total increase over baseline conditions. No Federal Action/No Project  
21 Alternative demands are less than those for the proposed Project (i.e., 0.059 officers)  
22 because this alternative has a smaller area than the proposed Project. Incorporation of  
23 MTSA security features, including perimeter fencing and lighting, would further reduce  
24 demand on police protection. The No Federal Action/No Project Alternative would not  
25 affect USCG response times as the USCG determines response time based on the distance  
26 that is required to travel to the various Port facilities, and the alternative would be located  
27 within the same operating distance of other facilities within the jurisdiction of Sector Los  
28 Angeles and Long Beach. Although vessel calls would increase annually, USCG staffing  
29 levels are adequate, and daily calls are expected to remain the same. Consequently, the  
30 No Federal Action/No Project Alternative would not increase the demand for additional law  
31 enforcement officers and/or facilities such that the LAPD, Port Police, and USCG would not  
32 be able to maintain an adequate level of service without additional facilities. Therefore,  
33 impacts would be less than significant.

34 *Mitigation Measures*

35 No mitigation is required.

36 *Residual Impacts*

37 Less than significant impact.

38 **NEPA Impact Determination**

39 Because the No Federal Action/No Project Alternative is identical to the NEPA Baseline  
40 in this project, under NEPA the No Federal Action/No Project Alternative would have  
41 no impact.

1 *Mitigation Measures*

2 No mitigation is required.

3 *Residual Impacts*

4 No impact.

5 **Impact PS-2: The No Federal Action/No Project Alternative would not**  
6 **require the addition of a new fire station or the expansion, consolidation,**  
7 **or relocation of an existing facility to maintain service.**

8 **CEQA Impact Determination**

9 The No Federal Action/No Project Alternative would not significantly affect fire  
10 protection services because it would not result in a land use change or unsafe site access  
11 that would jeopardize emergency response routes. Construction contractors would  
12 coordinate with LAFD pursuant to the Public Services Relocation Plan prior to  
13 commencement of construction of site improvements (i.e., paving the site and installing  
14 an access road) to identify alternative response routes, ensuring continuous adequate fire  
15 and emergency vehicular access to the No Federal Action/No Project Alternative area.  
16 The No Federal Action/No Project Alternative operations would not significantly affect  
17 emergency response times as the site would have the same land use, no existing fire  
18 lanes or hydrants would be removed, and site access would be reviewed by the LAFD.  
19 The No Federal Action/No Project Alternative fire protection demands would be less  
20 than the proposed Project because this alternative would not involve operation of the  
21 Marine Terminal or Tank Storage sites. As the No Federal Action/No Project  
22 Alternative would not increase the demand for fire services to a degree that would  
23 require the addition of a new fire station or the expansion, consolidation, or relocation of  
24 an existing facility to maintain service, impacts would be less than significant under  
25 CEQA.

26 *Mitigation Measures*

27 No mitigation is required.

28 *Residual Impacts*

29 Less than significant impact.

30 **NEPA Impact Determination**

31 Because the No Federal Action/No Project Alternative is identical to the NEPA Baseline  
32 in this project, under NEPA the No Federal Action/No Project Alternative would have  
33 no impact.

34 *Mitigation Measures*

35 No mitigation is required.

1 *Residual Impacts*

2 No impact.

3 **Impact PS-3: The No Federal Action/No Project Alternative would not result**  
4 **in a substantial increase in utility demands and construction and/or**  
5 **expansion of onsite water, wastewater, or storm drain lines would not be**  
6 **required to support new terminal development.**

7 **CEQA Impact Determination**

8 Water demands associated with the No Federal Action/No Project Alternative would be  
9 minimal and would only occur during construction of the site improvements (i.e., paving  
10 the site and installing an access road). No Federal Action/No Project Alternative  
11 operational activities would not result in any water demands as no employees would be  
12 required. Baseline conditions do not have any water demands, and demands under the  
13 No Federal Action/No Project Alternative would represent a minimal and temporary  
14 increase over baseline conditions. These demands would, however, be less than the 14.3  
15 and 9.8 acre feet demanded by proposed Project construction and operation,  
16 respectively. Similarly, wastewater generations associated with the No Federal  
17 Action/No Project Alternative would also be minimal and only occur during construction  
18 of the site improvements because no employees would be present during operations,  
19 representing minimal and temporary increase over baseline conditions. No Federal  
20 Action/No Project Alternative wastewater generations would be less than proposed  
21 Project demands of 0.01 million gallons per day.

22 Trunk lines and distribution mains would not be extended to direct water and wastewater  
23 to and from the new terminal facilities. Any water required during the No Federal  
24 Action/No Project Alternative construction would be brought to the site by truck (see  
25 Appendix S for more detail), and construction workers would utilize portable chemical  
26 toilets. As utility demands and generations are not affected by vessel calls, the increased  
27 vessel trips at LAHD Berths 238-240 and Port of Long Beach Berths 76-78 and 84-87  
28 would not substantially impact utility services. Therefore, as no new utility lines would  
29 be required, impacts would be less than significant under CEQA.

30 *Mitigation Measures*

31 No mitigation is required.

32 *Residual Impacts*

33 Less than significant impact.

34 **NEPA Impact Determination**

35 Because the No Federal Action/No Project Alternative is identical to the NEPA Baseline  
36 in this project, under NEPA the No Federal Action/No Project Alternative would have  
37 no impact.

1                    *Mitigation Measures*

2                    No mitigation is required.

3                    *Residual Impacts*

4                    No impact.

5                    **Impact PS-4: The No Federal Action/No Project Alternative would not**  
6                    **generate substantial solid waste, water, and/or wastewater demands that**  
7                    **would exceed the capacity of existing facilities in the proposed Project**  
8                    **area.**

9                    **CEQA Impact Determination**

10                  As discussed under **Impact PS-3**, the No Federal Action/No Project Alternative would  
11                  not require a substantial amount of water or produce a substantial amount of wastewater.  
12                  Water demands associated with the No Federal Action/No Project Alternative would be  
13                  minimal and would only occur during construction of the site improvements (i.e., paving  
14                  the site and installing an access road). No Federal Action/No Project Alternative  
15                  operational activities would not result in any water demands as no employees would be  
16                  required. Baseline conditions do not have any water demands, and No Federal  
17                  Action/No Project Alternative related demands would represent a minimal and  
18                  temporary increase over baseline conditions. These demands would, however, be less  
19                  than the 14.3 and 9.8 acre feet demanded by proposed Project construction and  
20                  operation, respectively. Because the UWMP addresses water supply for the City of Los  
21                  Angeles, and because the Project site and the Port of Los Angeles are a part of the City,  
22                  the UWMP accounts for the water usage of the No Federal Action/No Project  
23                  Alternative. In addition, the UWMP is required to be updated every 5 years, thus water  
24                  demand and supply planning would be continued. Based on efforts by the City for  
25                  ongoing water demand and supply planning and management, the negligible incremental  
26                  difference in water demand would not significantly affect water supplies or water  
27                  distribution infrastructure.

28                  Similarly, wastewater generations associated with the No Federal Action/No Project  
29                  Alternative would also be minimal and only occur during construction of the site  
30                  improvements because no employees would be present during operations, representing  
31                  minimal and temporary increase over baseline conditions. No Federal Action/No Project  
32                  Alternative wastewater generations would be less than proposed Project demands of 0.01  
33                  million gallons per day. The amount of wastewater generated by the No Federal  
34                  Action/No Project Alternative would not significantly affect existing or future capacity  
35                  at TITP due to the lack of operational flows and the substantial remaining capacity at  
36                  TITP beyond 2020, as described previously. Therefore, impacts associated with  
37                  exceeding the capacity of the existing water supply and the TITP wastewater treatment  
38                  facility would be less than significant.

39                  The No Federal Action/No Project Alternative would result in only negligible solid  
40                  waste generations during site improvement construction activities because these  
41                  activities (i.e., paving the site and installing an access road) would be minimal. No  
42                  Federal Action/No Project Alternative construction would be substantially less than that  
43                  of the proposed Project (i.e., because the No Federal Action/No Project Alternative does

1 not include construction of the Marine Terminal or Tank Farm sites. As no employees  
2 would be required under No Federal Action/No Project Alternative operations,  
3 operational activities (i.e., temporary storage of wheeled containers) would not generate  
4 any solid waste. No Federal Action/No Project Alternative solid waste generation  
5 during construction activities would represent minimal and temporary increases over  
6 baseline conditions, where generations are zero. Solid waste generations would be  
7 substantially less than proposed Project construction (5,524 tons) and operation (17.9  
8 tons per year) generations because the No Federal Action/No Project Alternative does  
9 not include construction of the Marine Terminal or Tank Farm sites and does not include  
10 any employees. Impacts to the Chiquita Canyon Landfill, Sunshine Canyon Landfill,  
11 and El Sobrante Landfill would be less than significant.

12 Furthermore, as water demands and wastewater/solid waste generations are not  
13 substantially affected by vessel calls, the increased vessel trips at LAHD Berths 238-240  
14 and Port of Long Beach Berths 76-78 and 84-87 would not impact utility services. In  
15 conclusion, the No Federal Action/No Project Alternative impacts to water supply,  
16 wastewater treatment capacities, and solid waste treatment capacities would be less than  
17 significant under CEQA.

18 *Mitigation Measures*

19 No mitigation is required.

20 *Residual Impacts*

21 Less than significant impact.

22 **NEPA Impact Determination**

23 Because the No Federal Action/No Project Alternative is identical to the NEPA Baseline  
24 in this project, under NEPA the No Federal Action/No Project Alternative would have  
25 no impact.

26 *Mitigation Measures*

27 No mitigation is required.

28 *Residual Impacts*

29 No impact.

30 **Impact PS-5: Implementation of the No Federal Action/No Project**  
31 **Alternative would generate minor increases in energy demands; however,**  
32 **construction of new offsite energy supply facilities and distribution**  
33 **infrastructure would not be required.**

34 **CEQA Impact Determination**

35 Energy (diesel fuel and electricity) would be required to support site improvement  
36 activities (i.e., paving the site and installing an access road) under the No Federal  
37 Action/No Project Alternative.

1 Energy demands during construction activities would be short-term and temporary, and  
2 are not anticipated to result in the substantial waste or inefficient use of energy as a  
3 result of the competitive bid process that facilitates cost effective strategies that support  
4 energy efficiency and conservation. No Federal Action/No Project Alternative  
5 operations would generate minimal demands for electricity associated with site lighting.  
6 The No Federal Action/No Project Alternative would have no natural gas demands  
7 (space and water heating) because administration buildings would not be included. As  
8 the project site is currently vacant, no energy demands are associated with baseline  
9 conditions. Energy demands associated with the No Federal Action/No Project  
10 Alternative would be less than the proposed Project because this alternative would not  
11 include the construction or operation of the Marine Terminal or Tank Farm sites.

12 Electricity would be provided by the LADWP. The LADWP has ample generation  
13 capacity to meet the needs of its customers and will continue to do so with proper  
14 planning and development of facilities in accordance with the City Charter. The  
15 LADWP electrical load is projected to grow at 1.1 percent per year over the next  
16 20 years. Annual peak demand is projected to grow slightly slower, 1.0 percent per  
17 annum (Holloway, 2002). Based on the LADWP IRP, electricity resources and reserves  
18 at LADWP will adequately provide electricity for the No Federal Action/No Project  
19 Alternative. The IRP does not provide load demand forecasts or supply resources  
20 because the IRP planning horizon extends only to 2025 (City of Los Angeles, 2006b).  
21 However, because LADWP is required by the Charter to provide a reliable supply of  
22 electricity for its customers and because LADWP is moving toward increasing  
23 renewable energy supplies in its resource portfolio, the electricity demand of the No  
24 Federal Action/No Project Alternative, by itself, would not result in the need to construct  
25 a new offsite power station or facility.

26 Additionally, because utility demands, including energy, are not affected by vessel calls,  
27 assuming that vessels would not use AMP at other berths, and the increased vessel trips  
28 at LAHD Berths 238-240 and Port of Long Beach Berths 76-78 and 84-87 would not  
29 impact energy services. As the No Federal Action/No Project Alternative would provide  
30 new energy distribution infrastructure required to support proposed operations (i.e.,  
31 lighting), and operations would not exceed existing supplies and/or result in the need for  
32 major new facilities, impacts would be less than significant under CEQA.

### 33 *Mitigation Measures*

34 No mitigation is required.

### 35 *Residual Impacts*

36 Less than significant impact.

### 37 **NEPA Impact Determination**

38 Because the No Federal Action/No Project Alternative is identical to the NEPA Baseline  
39 in this project, under NEPA the No Federal Action/No Project Alternative would have  
40 no impact.

1                    *Mitigation Measures*

2                    No mitigation is required.

3                    *Residual Impacts*

4                    No impact.

5                    **3.13.4.3.3 Reduced Project Alternative**

6                    Under the Reduced Project Alternative, as described in Section 2.5.2.2, construction and  
7                    operation at Berth 408 would be identical to the proposed Project with the exception of  
8                    the lease cap limiting throughput in certain years. However, as explained in Section  
9                    2.5.2.2, the lease cap would not change the amount of crude oil demanded in southern  
10                    California, and therefore the analysis of the Reduced Project Alternative also includes  
11                    the impacts of marine delivery of incremental crude oil deliveries to existing liquid bulk  
12                    terminals in the San Pedro Bay Ports in years where demand exceeds the capacity of the  
13                    lease-limited Berth 408.

14                    As described in Section 2.5.2.2, the impact assessment for the Reduced Project Alternative  
15                    also assumes existing terminals would eventually comply with the MOTEMS, that the  
16                    LAHD and the Port of Long Beach would renew the operating leases for existing marine  
17                    terminals, and that existing terminals would comply with CAAP measures as of the time of  
18                    lease renewal (i.e., 2008 for Port of Long Beach Berths 84-87, 2015 for LAHD Berths  
19                    238-240, and 2023 for Port of Long Beach Berths 76-78).

20                    **Impact PS-1: The Reduced Project Alternative would not increase the**  
21                    **demand for additional law enforcement officers and/or facilities such that**  
22                    **the USCG, LAPD, or Port Police would not be able to maintain an adequate**  
23                    **level of service without additional facilities, the construction of which**  
24                    **could cause significant environmental effects.**

25                    **CEQA Impact Determination**

26                    Reduced Project Alternative construction and operation would result in a slight increase  
27                    in demands for Port Police and LAPD services. As the Port Police determines the  
28                    demand for additional officers based on area, the demand generated under construction  
29                    and operations would be equal. As shown in Table 3.13-1, the 53.2 acres under the  
30                    Reduced Project Alternative would result in a demand for less than one (i.e., 0.059) new  
31                    officer. CEQA Baseline conditions do not produce a demand for officers, so the Reduced  
32                    Project Alternative related demands represent a total increase over baseline conditions.  
33                    Additionally, Reduced Project Alternative construction demands are the same as those  
34                    for the proposed Project because this alternative is identical to the proposed Project in  
35                    terms of design and construction. Incorporation of MTSA security features, including  
36                    terminal security personnel, gated entrances, perimeter fencing, terminal and backlands  
37                    lighting, camera systems, and other security features, would reduce demand on police  
38                    protection. Pursuant to the Public Services Relocation Plan, coordination with LAPD and  
39                    Port Police to establish alternative response routes would ensure continuous law enforcement  
40                    access to surrounding areas. The Reduced Project Alternative would not affect USCG  
41                    response times as the USCG determines response time based on the distance that is required  
42                    to travel to the various Port facilities, and the alternative would be located within the same

1 operating distance of other facilities within the jurisdiction of Sector Los Angeles and Long  
2 Beach. Although vessel calls would increase annually under operations, USCG staffing  
3 levels are adequate and daily calls are expected to remain the same. Furthermore, as  
4 USCG, LAFD, and Port Police services are not affected by vessel calls, the increased  
5 vessel trips at LAHD Berth 408 and 238-240 and Port of Long Beach Berths 76-78 and  
6 84-87 would not impact these services. Consequently, the Reduced Project Alternative  
7 would not increase the demand for additional law enforcement officers and/or facilities such  
8 that the LAPD, Port Police, and USCG would not be able to maintain an adequate level of  
9 service without additional facilities. Therefore, impacts would be less than significant.

#### 10 *Mitigation Measures*

11 No mitigation is required.

#### 12 *Residual Impacts*

13 Less than significant impact.

#### 14 **NEPA Impact Determination**

15 The Reduced Project Alternative would include development of a Marine Terminal and  
16 Tank Farm Sites, which would require a greater total site area compared to NEPA  
17 Baseline conditions; however, the associated increase in calls to the Port Police and  
18 LAPD would not substantially impact existing levels of service during proposed  
19 Reduced Project Alternative construction as this alternative includes security features  
20 consistent with MTSA regulations that would minimize the demand for police  
21 protection. The Reduced Project Alternative would result in a total area of 53.2 acres  
22 and a corresponding Port Police demand of less than one (i.e., 0.059) officer. This  
23 demand is slightly greater than the 0.012 officers required by the 10.7 acre temporary  
24 storage site under baseline conditions. The Reduced Project Alternative would be  
25 located within the same operating distance of other facilities served by the USCG and  
26 would therefore not increase emergency response times due to adequate staffing levels  
27 and the fact that, although vessel calls would increase annually, daily calls are expected  
28 to remain the same. Port Police, LAPD, and USCG demands resulting from the Reduced  
29 Project Alternative would be the same as the proposed Project because this alternative is  
30 identical to the proposed Project in terms of design, construction and operation.  
31 Furthermore, as USCG, LAFD, and Port Police services are not affected by vessel calls,  
32 the increased vessel trips at LAHD Berth 408 and 238-240 and Port of Long Beach  
33 Berths 76-78 and 84-87 would not impact these services. Accordingly, the Reduced  
34 Project Alternative would not increase the demand for additional law enforcement  
35 officers and/or facilities such that the USCG, LAPD, or Port Police would not be able to  
36 maintain an adequate level of service without additional facilities, the construction of  
37 which could cause significant environmental effects, and less than significant impacts  
38 would occur under NEPA.

#### 39 *Mitigation Measures*

40 No mitigation is required.

1                    *Residual Impacts*

2                    Less than significant impact.

3                    **Impact PS-2: Development of the Reduced Project Alternative would not**  
4                    **require the addition of a new fire station of the expansion, consolidation,**  
5                    **or relocation of an existing facility to maintain service.**

6                    **CEQA Impact Determination**

7                    The Reduced Project Alternative would not significantly affect fire protection services  
8                    because it would not result in a land use change or unsafe site access that would  
9                    jeopardize emergency response routes. Construction contractors would coordinate with  
10                    LAFD pursuant to the Public Services Relocation Plan prior to commencement of  
11                    construction activities to identify alternative response routes, ensuring continuous  
12                    adequate fire and emergency vehicular access to the Reduced Project Alternative area  
13                    and reducing impacts to a less than significant level. Any removal and/or relocation of  
14                    fire hydrants, water supply trunk lines, and distribution mains in the Reduced Project  
15                    Alternative area would be conducted in accordance with the proposed Public Services  
16                    Relocation Plan, which is described in Section 2.4.3.5, and subject to review and  
17                    approval by the LAFD and LADWP. Therefore, the Reduced Project Alternative  
18                    construction would not impede emergency response services in the vicinity. As fire  
19                    protection features, such as firewater mains and fire monitors, would be incorporated  
20                    into the design process, the Reduced Project Alternative operations would not  
21                    substantially increase the demand for fire protection services. Furthermore, the LAFD  
22                    would be notified in advance and afforded the opportunity to review and comment on  
23                    any Reduced Project Alternative features affecting emergency access. The Reduced  
24                    Project Alternative operations would not significantly affect emergency response times  
25                    as the site would have the same land use, no existing fire lanes or hydrants would be  
26                    removed, and site access would be reviewed by the LAFD. The Reduced Project  
27                    Alternative police protection demands would be the same as the proposed Project  
28                    because this alternative is identical to the proposed Project in terms of design and  
29                    construction. Furthermore, as LAFD services are not affected by vessel calls, the  
30                    increased vessel trips at LAHD Berth 408 and 238-240 and Port of Long Beach Berths  
31                    76-78 and 84-87 under operations would not require the addition of a new fire station or  
32                    the expansion, consolidation, or relocation of an existing facility to maintain service. As  
33                    the Reduced Project Alternative construction and operations would not increase the  
34                    demand for fire services to a degree that would require the addition of a new fire station  
35                    or the expansion, consolidation, or relocation of an existing facility to maintain service,  
36                    impacts would be less than significant under CEQA.

37                    *Mitigation Measures*

38                    No mitigation is required.

39                    *Residual Impacts*

40                    Less than significant impact.

### NEPA Impact Determination

The Reduced Project Alternative would include development of a Marine Terminal and two Tank Farm sites that would not be part of the NEPA Baseline. Reduced Project Alternative construction would have the potential to reduce response times where traffic detours or congestion results, thereby increasing LAFD emergency response times. However, construction contractors would coordinate with LAFD pursuant to the Public Services Relocation Plan prior to commencement of construction activities to identify alternative response routes, ensuring continuous adequate fire and emergency vehicular access to the Reduced Project Alternative area. As fire protection features, such as firewater mains and fire monitors, would be incorporated into the design process, Reduced Project Alternative operations would not substantially increase the demand for fire protection services. Furthermore, the LAFD would be notified in advance and afforded the opportunity to review and comment on any Reduced Project Alternative features affecting emergency access. However, these activities would not require removal and/or relocation of fire hydrants and utilities in the Reduced Project Alternative area. Reduced Project Alternative operations would not affect emergency response times as the site would have the same land use, no existing fire lanes or hydrants would be removed, and site access would be reviewed by the LAFD. Reduced Project Alternative fire protection demands would be the same as the proposed Project because this alternative is identical to the proposed Project in terms of design and construction. Furthermore, as LAFD services are not affected by vessel calls, the increased vessel trips at LAHD Berth 408 and 238-240 and Port of Long Beach Berths 76-78 and 84-87 under operations would not require the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service. Because the Reduced Project Alternative construction and operations would not increase the demand for fire services to a degree that would require the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service, less than significant impacts would occur under NEPA.

### *Mitigation Measures*

No mitigation is required.

### *Residual Impacts*

Less than significant impact.

**Impact PS-3: The Reduced Project Alternative would not result in a substantial increase in utility demands; however, construction and/or expansion of onsite water, wastewater, or storm drain lines would be required to support new terminal development.**

### CEQA Impact Determination

As with the proposed Project, water demands associated with the Reduced Project Alternative would be minimal because this alternative would have limited building development and would lack water-consuming industrial or commercial processes. As shown in Table 3.13.2, the construction of the Reduced Project Alternative would result in a water demand that would represent 0.0021 percent of the LADWP water supply; proposed Project operation water demands would represent 0.0013 percent of the available water supply. Construction and/or expansion of onsite water lines would be

1 required to support new terminal development; however, the water mains serving the  
2 Project area and LADWP supplies have sufficient capacity to accommodate water  
3 required to support proposed Project operations.

4 As shown in Table 3.13-3, wastewater generated during Reduced Project Alternative  
5 construction would be 0.01 million gallons per day, and operational wastewater  
6 generation would be 0.007 million gallons per day. The TITP currently operates at 54  
7 percent capacity. As there are no water demands or wastewater generations under  
8 CEQA Baseline conditions, all Reduced Project Alternative related demands and  
9 generations represent increases over baseline conditions. The City projects that by 2020,  
10 wastewater flows in the TITP service area will grow from the current 16.2 mgd (about  
11 54 percent of TITP capacity) to 19.9 mgd (City of Los Angeles 2006b); therefore,  
12 approximately 10 mgd in daily capacity at TITP would remain unused and available for  
13 future years. As the generation of wastewater is not affected by vessel calls, the  
14 increased vessel trips to LAHD Berth 408 and 238-240 and Port of Long Beach Berths  
15 76-78 and 84-87 under operations would not impact wastewater treatment facilities.

16 Trunk lines and distribution mains would need to be extended to direct water and  
17 wastewater to and from the new terminal facilities. As previously stated, the Port would  
18 prepare a Public Services Relocation Plan to address the public utilities that would be  
19 affected by proposed Reduced Project Alternative construction, which would be  
20 reviewed by the service providers and City departments prior to implementation.  
21 Because new utility lines would be located within exiting City streets or existing pipeline  
22 corridor easements, utility connections would comply with the City's municipal code,  
23 and would be performed under permit by the City Bureau of Engineering and/or  
24 LADWP. Modifications of or connections with utility lines would not result in  
25 significant environmental impacts. Therefore, impacts to public utility locations or  
26 alignments would be less than significant under CEQA.

27 *Mitigation Measures*

28 No mitigation is required.

29 *Residual Impacts*

30 Less than significant impact.

31 **NEPA Impact Determination**

32 As shown in Table 3.13-2, construction of the Reduced Project Alternative would result  
33 in a water demand that would represent 0.0021 percent of the available water supply;  
34 Reduced Project Alternative operational water demands would represent 0.0013percent  
35 of the available water supply. NEPA Baseline conditions would only have minimal  
36 water demands during site improvement construction and would not demand any water  
37 during operational activities. Construction and/or expansion of onsite water lines would  
38 be required to support new terminal development; however, the water mains serving the  
39 Project area and LADWP supplies have sufficient capacity to accommodate water  
40 required to support Reduced Project Alternative operations.

41 As shown in Table 3.13-3, Reduced Project Alternative construction would generate  
42 0.01 million gallons of wastewater per day and operation would generate 0.007 million

1 gallons per day. Similar to water demands, NEPA Baseline conditions would only  
2 generate minimal wastewater during site improvements and would not generate any  
3 wastewater during operations as no employees would be present. As the generation of  
4 wastewater is not affected by vessel calls, the increased vessel trips to LAHD Berth 408  
5 and 238-240 and Port of Long Beach Berths 76-78 and 84-87 under operations would  
6 not impact wastewater treatment facilities.

7 Reduced Project Alternative construction activities would not require the removal and  
8 relocation of water supply distribution mains and sewer trunk lines within the vicinity of  
9 the Reduced Project Alternative sites. Reduced Project Alternative water and  
10 wastewater demands, and impacts to water, wastewater, and storm drain infrastructure,  
11 would be the same as the proposed Project because this alternative is identical to the  
12 proposed Project in terms of design, construction and operation. As public utilities  
13 would not be affected by proposed Reduced Project Alternative construction or  
14 operational activities, adverse impacts associated with construction and/or expansion of  
15 water, wastewater, and storm drain infrastructure would not occur. Therefore, there  
16 would be less than significant impacts under NEPA.

#### 17 *Mitigation Measures*

18 No mitigation is required.

#### 19 *Residual Impacts*

20 Less than significant impact.

21 **Impact PS-4: The Reduced Project Alternative would not generate**  
22 **substantial water and/or wastewater demands that would exceed the**  
23 **capacity of existing facilities in the proposed Project area. The Reduced**  
24 **Project Alternative would generate substantial solid waste demands that**  
25 **could exceed capacities.**

#### 26 **CEQA Impact Determination**

27 The Reduced Project Alternative would not require a substantial amount of water or  
28 produce a substantial amount of wastewater. Table 3.13-2 demonstrates construction of  
29 the Reduced Project Alternative would result in a water demand of approximately 14.3  
30 acre feet, or 0.0021 percent of the LADWP water supply of 683,000 acre feet in 2010.  
31 The Reduced Project Alternative would result in a water demand of approximately 8.728  
32 gallons per day, or 9.8 acre feet per year at the full-capacity level of operation. This  
33 would represent 0.0013 percent of the projected available water supply of 755,000 acre  
34 feet in 2025. Because the UWMP addresses water supply for the City of Los Angeles,  
35 and because the Project site and the Port of Los Angeles are a part of the City, the  
36 UWMP accounts for the water usage of the Project. In addition, the UWMP is required  
37 to be updated every 5 years, thus water demand and supply planning would be  
38 continued. Based on efforts by the City for ongoing water demand and supply planning  
39 and management, the negligible incremental difference in water demand would not  
40 significantly affect water supplies or water distribution infrastructure.

41 As shown in Table 3.13-3, wastewater generated during Reduced Project Alternative  
42 construction would be 0.01 million gallons per day, or 0.08 percent of the existing flow

1 and 0.05 percent of TITP capacity. Operational wastewater generation would be 0.007  
2 million gallons per day, or 0.04 percent of the existing flow and 0.02 percent of TITP  
3 capacity. The TITP currently operates at 54 percent capacity. The amount of  
4 wastewater generated by the Reduced Project Alternative would not significantly affect  
5 existing or future capacity at TITP due to the limited operational flows and the  
6 substantial remaining capacity at TITP beyond 2020, as described previously.  
7 Therefore, impacts associated with exceeding the capacity of the existing water supply  
8 and the TITP wastewater treatment facility would be less than significant.

9 As there are no water demands or wastewater generations under CEQA Baseline  
10 conditions, all Reduced Project Alternative related demands and generations represent  
11 increases over baseline conditions. The water demands and wastewater generations  
12 associated with the Reduced Project Alternative are the same as those for the proposed  
13 Project because this alternative is identical to the proposed Project in terms of design and  
14 construction. As water and wastewater demands are not affected by vessel calls, the  
15 increased vessel trips to LAHD Berth 408 and 238-240 and Port of Long Beach Berths  
16 76-78 and 84-87 under operations would not impact water or wastewater service  
17 facilities.

18 The amount of solid waste generated by construction activities would total  
19 approximately 5,524 tons, which would be a substantial one-time contribution to the  
20 solid waste stream, possibly contributing to the exceedance of solid waste facility  
21 capacities. Because construction waste is one of the greatest individual contributors to  
22 reductions in solid waste capacity, impacts associated with solid waste generation from  
23 Reduced Project Alternative construction are assumed to be significant under CEQA.

24 Although hazardous materials could be encountered and require disposal during  
25 construction activities, several contaminated soil treatment and disposal options and  
26 Class I landfills are available for offsite disposal, providing adequate capacity. Because  
27 of this, impacts related to exceeding the capacity of a Class I landfill would be less than  
28 significant.

29 Reduced Project Alternative operations would generate 17.9 tons of solid waste per year,  
30 representing 0.000010 percent of the permitted daily capacity of 5,000 tons at Chiquita  
31 Canyon Landfill, 0.000011 percent of the permitted daily capacity of 5,500 at the  
32 Sunshine Canyon Landfill, or 0.00009 percent of the available permitted daily capacity  
33 at the El Sobrante Landfill. As no solid waste is generated under CEQA Baseline  
34 conditions, all Reduced Project Alternative construction and operation generations  
35 would represent an increase over baseline conditions. The solid waste generated under  
36 the Reduced Project Alternative would be equal to the proposed Project because, as  
37 previously described, this alternative is identical to the proposed Project in terms of  
38 design and construction. As solid waste generations are not affected by vessel calls, the  
39 increased vessel trips to LAHD Berth 408 and 238-240 and Port of Long Beach Berths  
40 76-78 and 84-87 under operations would not impact solid waste facilities. Solid waste  
41 generated from Project operations after closure of the Chiquita Canyon Landfill, the  
42 Sunshine Canyon Landfill, and the El Sobrante Landfill (2030 and after) might represent  
43 a significant impact to landfill capacity if no new capacity were available and landfill  
44 demand remains constant. However, additional adequate landfill capacity is expected to  
45 be permitted and made available, including the utilization of more distant landfill  
46 capacity for solid waste generated in the City. Additionally, the achievement of Zero-  
47 Waste solutions in the City will reduce the overall need for landfill capacity. Thus, the

1 post-2030 solid waste generated by the Project would not represent a significant impact  
2 to landfill capacity.

3 In conclusion, the Reduced Project Alternative would result in less than significant  
4 impacts to water supply and wastewater treatment capacities; however, as solid waste  
5 generated during construction activities is one of the greatest individual contributors to  
6 solid waste capacity and would represent a substantial one-time contribution to the solid  
7 waste stream, impacts associated with solid waste generation during construction  
8 activities would be significant under CEQA.

### 9 *Mitigation Measures*

10 Although impacts on water supply would be less than significant, **MM 4N-1** from the  
11 Deep Draft FEIS/FEIR would apply. In addition, **MMs PS-1** through **PS-3** would apply  
12 to solid waste impacts associated with construction activities.

### 13 *Residual Impacts*

14 Impacts to water supply and wastewater treatment capacity would be less than  
15 significant. Implementation of **MMs PS-1** and **PS-2** would lessen Reduced Project  
16 Alternative construction related solid waste generation, ensuring less than significant  
17 impacts through approximately 2030 when existing landfills are projected to close. **MM**  
18 **PS-3** would ensure adequate long-term solid waste management for the proposed Project  
19 starting from 2025. Long-term impacts to solid waste disposal would be less than  
20 significant after mitigation.

### 21 **NEPA Impact Determination**

22 As discussed under **Impact PS-3**, the Reduced Project Alternative collectively  
23 constitutes negligible demands for water and wastewater supplies that would be  
24 accommodated by LADWP, onsite water supply sewer infrastructure, and existing TITP  
25 capacity. Construction of the Reduced Project Alternative would result in a water  
26 demand representing 0.0021 percent of the LADWP water supply, and operation would  
27 result in a water demand representing 0.0013 percent of the projected available water  
28 supply. Baseline condition demands and generations are minimal, and all Reduced  
29 Project Alternative related demands are considered an increase over baseline conditions.  
30 Because the UWMP addresses water supply for the City of Los Angeles, and because the  
31 Project site and the Port of Los Angeles are a part of the City, the UWMP accounts for  
32 the water usage of the Project. In addition, the UWMP is required to be updated every 5  
33 years, thus water demand and supply planning would be continued. Based on efforts by  
34 the City for ongoing water demand and supply planning and management, the negligible  
35 incremental difference in water demand would not significantly affect water supplies or  
36 water distribution infrastructure.

37 Construction of the Reduced Project Alternative would result in a wastewater generation  
38 of 0.01 million gallons per day, and operational generations would be 0.007 million  
39 gallons per day. Reduced Project Alternative generated wastewater would constitute  
40 0.05 percent of the TITP daily capacity during construction activities and 0.02 percent  
41 during operational activities. As the TITP currently operates at 54 percent capacity,  
42 these increases would be negligible. The amount of wastewater generated by the Project  
43 would not significantly affect existing or future capacity at TITP due to the limited

1 operational Project flows and the substantial remaining capacity at TITP beyond 2020,  
2 as described previously. Therefore, impacts associated with exceeding the capacity of  
3 the existing water supply and the TITP wastewater treatment facility would be less than  
4 significant.

5 Under baseline conditions, site improvements (i.e., paving the site and installing an  
6 access road) would result in minimal water demands and wastewater generations; there  
7 would be no demands or generations during operations. As baseline condition demands  
8 and generations are minimal, all Reduced Project Alternative related demands are  
9 considered an increase over baseline conditions. However, these increases would be  
10 negligible and would be accommodated by existing facilities. The water demands and  
11 wastewater generations associated with the Reduced Project Alternative are the same as  
12 those for the proposed Project because this alternative is identical to the proposed Project  
13 in terms of design and construction. As water and wastewater demands are not affected  
14 by vessel calls, the increased vessel trips to LAHD Berth 408 and 238-240 and Port of  
15 Long Beach Berths 76-78 and 84-87 under operations would not impact water or  
16 wastewater service facilities.

17 The amount of solid waste generated by construction activities would total  
18 approximately 5,524 tons, which would be a substantial one-time contribution to the  
19 solid waste stream, possibly contributing to the exceedance of solid waste facility  
20 capacities. Because construction waste is one of the greatest individual contributors to  
21 reductions in solid waste capacity, impacts associated with solid waste generation from  
22 Reduced Project Alternative construction are assumed to be significant under NEPA.

23 Although hazardous materials could be encountered and require disposal during  
24 construction activities, several contaminated soil treatment and disposal options and  
25 Class I landfills are available for offsite disposal, providing adequate capacity. Because  
26 of this, impacts related to exceeding the capacity of a Class I landfill would be less than  
27 significant.

28 The Reduced Project Alternative would generate 17.9 tons of solid waste per year during  
29 operations, representing 0.000010 percent of the permitted daily capacity of 5,000 tons  
30 at Chiquita Canyon Landfill, 0.000011 percent of the permitted daily capacity of 5,500  
31 at the Sunshine Canyon Landfill, or 0.00009 percent of the available permitted daily  
32 capacity at the El Sobrante Landfill. Under baseline conditions, site improvements (i.e.,  
33 paving the site and installing an access road) would result in minimal solid waste  
34 generation; there would be no demands or generations during operations. As baseline  
35 condition generations are minimal, all Reduced Project Alternative related generations  
36 are considered an increase over baseline conditions. Solid waste generated from Project  
37 operations after closure of the Chiquita Canyon Landfill, the Sunshine Canyon Landfill,  
38 and the El Sobrante Landfill (2030 and after) might represent a significant impact to  
39 landfill capacity if no new capacity were available and landfill demand remains constant.  
40 However, additional adequate landfill capacity is expected to be permitted and made  
41 available, including the utilization of more distant landfill capacity for solid waste  
42 generated in the City. Additionally, the achievement of Zero-Waste solutions in the City  
43 will reduce the overall need for landfill capacity. Thus, the post-2030 solid waste  
44 generated by the Project would not represent a significant impact to landfill capacity.  
45 The solid waste generated under the Reduced Project Alternative would be equal to the  
46 proposed Project because, as previously described, this alternative is identical to the  
47 proposed Project in terms of design, construction and operation.

1 In conclusion, impacts associated with exceeding the capacity of the existing water  
 2 supply and the TITP wastewater treatment facility would be less than significant.  
 3 However, as solid waste generated during construction activities is one of the greatest  
 4 individual contributors to solid waste capacity and would represent a substantial one-  
 5 time contribution to the solid waste stream, impacts associated with solid waste  
 6 generation during construction activities would be potentially significant under NEPA.

### 7 *Mitigation Measures*

8 Although impacts on water supply would be less than significant, **MM 4N-1** from the  
 9 Deep Draft FEIS/FEIR would apply. **MMs PS-1** through **PS-3** would apply to solid  
 10 waste impacts associated with construction activities.

### 11 *Residual Impacts*

12 There would be less than significant impacts to water supply and wastewater treatment  
 13 capacity. Implementation of **MMs PS-1** and **PS-2** would lessen Reduced Project  
 14 Alternative construction related solid waste generation, ensuring less than significant  
 15 impacts through approximately 2030 when existing landfills are projected to close. **MM**  
 16 **PS-3** would ensure adequate long-term solid waste management for the Reduced Project  
 17 Alternative starting from 2025. Long-term impacts to solid waste disposal would be less  
 18 than significant after mitigation.

19 **Impact PS-5: Implementation of the Reduced Project Alternative would**  
 20 **generate minor increases in energy demands; however, construction of**  
 21 **new offsite energy supply facilities and distribution infrastructure would**  
 22 **not be require to support Reduced Project Alternative activities.**

### 23 **CEQA Impact Determination**

24 Energy (diesel fuel and electricity) would be required to support proposed construction  
 25 activities under the Reduced Project Alternative. Energy demands during construction  
 26 activities would be short-term and temporary, and are not anticipated to result in the  
 27 substantial waste or inefficient use of energy as a result of the competitive bid process  
 28 that facilitates cost effective strategies that support energy efficiency and conservation  
 29 throughout all construction stages. Reduced Project Alternative operations would  
 30 generate demands for electricity associated with vessel-unloading operations, transfer of  
 31 crude oil, AMP system usage (if AMP is used as a mitigation measure), site and security  
 32 lighting, and general site maintenance. Reduced Project Alternative natural gas demands  
 33 (space and water heating) would not be substantial because administration buildings  
 34 represent a minor part of proposed terminal operations. Additionally, the Reduced  
 35 Project Alternative would include three new buildings that would be built under the  
 36 LEED Green Building Rating System in order to optimize energy efficiency. As the  
 37 project site is currently vacant, no energy demands are associated with baseline  
 38 conditions. Energy demands associated with the Reduced Project Alternative would be  
 39 the same as for the proposed Project because this alternative is identical to the proposed  
 40 Project in terms of design, construction, and operation.

41 Electricity would be provided by the LADWP. The LADWP has ample generation  
 42 capacity to meet the needs of its customers and will continue to do so with proper  
 43 planning and development of facilities in accordance with the City Charter. The

1 LADWP electrical load is projected to grow at 1.1 percent per year over the next  
2 20 years. Annual peak demand is projected to grow slightly slower, 1.0 percent per  
3 annum (Holloway 2002). Based on the LADWP IRP, electricity resources and reserves  
4 at LADWP will adequately provide electricity for the Reduced Project Alternative. The  
5 IRP does not provide load demand forecasts or supply resources because the IRP  
6 planning horizon extends only to 2025 (City of Los Angeles 2006b). However, because  
7 LADWP is required by the Charter to provide a reliable supply of electricity for its  
8 customers and because LADWP is moving toward increasing renewable energy supplies  
9 in its resource portfolio, the electricity demand of the Reduced Project Alternative, by  
10 itself, would not result in the need to construct a new offsite power station or facility.

11 Additionally, utility demands, including energy, are not affected by vessel calls, and the  
12 increased vessel trips at LAHD Berth 408 and 238-240 and Port of Long Beach Berths  
13 76-78 and 84-87 would not impact energy services. As the Reduced Project Alternative  
14 would provide new energy distribution infrastructure required to support proposed  
15 operations, and Berth 408 Terminal operations would not exceed existing supplies  
16 and/or result in the need for major new facilities, impacts would be less than significant  
17 under CEQA.

18 *Mitigation Measures*

19 No mitigation is required.

20 *Residual Impacts*

21 Less than significant impacts.

22 **NEPA Impact Determination**

23 The Reduced Project Alternative would include development of a Marine Terminal and  
24 two Tank Farm sites that would not be part of the NEPA Baseline. Energy demands  
25 during construction activities would be short-term and temporary, and are not anticipated  
26 to result in the substantial waste or inefficient use of energy as a result of the competitive  
27 bid process that facilitates cost effective strategies that support energy efficiency and  
28 conservation throughout all construction stages, as described above. Reduced Project  
29 Alternative operations would generate demands for electricity associated with vessel-  
30 unloading operations, transfer of crude oil, AMP system usage (if AMP is used as a  
31 mitigation measure), site and security lighting, and general site maintenance. Natural gas  
32 demands (space and water heating) would not be substantial because administration  
33 buildings represent a minor part of proposed terminal operations. Additionally, the  
34 Reduced Project Alternative would include three new buildings that would be built under  
35 the LEED Green Building Rating System in order to optimize energy efficiency. Reduced  
36 Project Alternative energy demands would be greater than those under baseline conditions  
37 because energy demands would be minimal during NEPA Baseline site improvements  
38 (i.e., paving the site and installation of an access road). Additionally, minimal energy  
39 would be demanded during baseline operation because the site would include lighting.  
40 Energy demands associated with the Reduced Project Alternative would be the same as  
41 for the proposed Project because this alternative is identical to the proposed Project in  
42 terms of design, construction, and operation.

Electricity would be provided by the LADWP. The LADWP has ample generation capacity to meet the needs of its customers and will continue to do so with proper planning and development of facilities in accordance with the City Charter. The LADWP electrical load is projected to grow at 1.1 percent per year over the next 20 years. Annual peak demand is projected to grow slightly slower, 1.0 percent per annum (Holloway 2002). Based on the LADWP IRP, electricity resources and reserves at LADWP will adequately provide electricity for the Reduced Project Alternative. The IRP does not provide load demand forecasts or supply resources because the IRP planning horizon extends only to 2025 (City of Los Angeles 2006b). However, because LADWP is required by the Charter to provide a reliable supply of electricity for its customers and because LADWP is moving toward increasing renewable energy supplies in its resource portfolio, the electricity demand of the Reduced Project Alternative, by itself, would not result in the need to construct a new offsite power station or facility.

Additionally, utility demands, including energy, are not affected by vessel calls, and the increased vessel trips at LAHD Berth 408 and 238-240 and Port of Long Beach Berths 76-78 and 84-87 would not impact energy services. As the Reduced Project Alternative would provide new energy distribution infrastructure required to support Reduced Project Alternative operations, and Berth 408 Terminal operations would not exceed existing supplies and/or result in the need for major new facilities. There would be less than significant impacts under NEPA.

#### *Mitigation Measures*

No mitigation is required.

#### *Residual Impacts*

Less than significant impact.

### **3.13.4.3.4 Summary of Impact Determinations**

Table 3.13-5 summarizes the CEQA and NEPA impact determinations of the proposed Project and its alternatives related to Utilities and Public Services, as described in the detailed discussion in Sections 3.13.4.3.1 through 3.13.4.3.3. This table is meant to allow easy comparison between the potential impacts of the proposed Project and its alternatives with respect to this resource. Identified potential impacts may be based on Federal, State, or City of Los Angeles significance criteria, Port criteria, and the scientific judgment of the report preparers.

For each type of potential impact, the table describes the impact, notes the CEQA and NEPA impact determinations, describes any applicable mitigation measures, and notes the residual impacts (i.e.: the impact remaining after mitigation). All impacts, whether significant or not, are included in this table. Note that impact descriptions for each of the alternatives are the same as for the proposed Project, unless otherwise noted.

1

### 3.13.4.4 Mitigation Monitoring

<b>Impact PS-4: The proposed Project would not generate substantial water and/or wastewater demands that would exceed the capacity of existing facilities in the proposed Project area. The proposed Project would generate substantial solid waste demands that could exceed capacities.</b>	
<b>MM 4N-1: Incorporate Water Conservation into Project Design</b>	
Mitigation Measure	Water conservation devices and systems shall be incorporated into the proposed Project designs, including those required by the State of California Department of Water Resources. These include the following: <ol style="list-style-type: none"> <li>1. Any landscape plans shall emphasize a planting scheme that minimizes water irrigation requirements and shall use drought-resistant, native vegetation.</li> <li>2. The proposed Project shall pursue the use of reclaimed water from the Terminal Island Treatment Plant for use in terminal operations.</li> <li>3. The use of seawater for fire suppression shall be investigated.</li> </ol>
Timing	Prior to building permit, during facility design.
Methodology	LAHD shall ensure that water conservation devices and systems are incorporated into facility designs.
Responsible Parties	Proposed Project applicant; LAHD.
<b>MM PS-1: Recycling of Construction Materials</b>	
Mitigation Measure	Demolition and/or excess construction materials shall be separated on-site for reuse/recycling or proper disposal. During grading and construction, separate bins for recycling of construction materials shall be provided on-site.
Timing	Prior to and concurrent with proposed Project construction.
Methodology	The LAHD shall include <b>MM PS-1</b> in the contract specifications for construction. LAHD shall monitor implementation of mitigation measures during construction.
Responsible Parties	LAHD
Residual Impacts	Less than significant after mitigation.
<b>MM PS-2: Materials with Recycled Content</b>	
Mitigation Measure	Materials with recycled content shall be used in project construction. Chippers on site during construction shall be used to further reduce excess wood for landscaping cover.
Timing	Prior to and concurrent with proposed Project construction.
Methodology	The LAHD shall include <b>MM PS-2</b> in the contract specifications for construction. LAHD shall monitor implementation of mitigation measures during construction.
Responsible Parties	LAHD
Residual Impacts	Less than significant after mitigation.
<b>MM PS-3: Solid Waste Integrated Resources Plan Compliance</b>	
Mitigation Measure	To ensure adequate long-term solid waste management, the proposed Project will be required to comply with policies and standards set forth in the City's Solid Waste Integrated Resources Plan (SWIRP) following 2025.
Timing	Prior to and concurrent with proposed Project construction.
Methodology	The LAHD shall include <b>MM PS-3</b> in the contract specifications for construction. LAHD shall monitor implementation of mitigation measures during construction.
Responsible Parties	LAHD
Residual Impacts	Less than significant after mitigation.

1     **3.13.5     Significant Unavoidable Impacts**

2             No significant unavoidable impacts on utilities and public services would occur during  
3             construction or operation for the proposed Project or the alternatives

**Table 3.13-5. Summary Matrix of Potential Impacts and Mitigation Measures for Utilities and Public Services Associated with the Proposed Project and Alternatives**

<i>Alternative</i>	<i>Environmental Impacts</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
<b>3.13 Utilities and Public Services</b>				
Proposed Project	<b>PS-1:</b> The proposed Project would not increase the demand for additional law enforcement officers and/or facilities such that the USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without additional facilities, the construction of which could cause significant environmental effects.	CEQA: Less than significant impact NEPA: Less than significant impact	Mitigation not required Mitigation not required	CEQA: Less than significant impact NEPA: Less than significant impact
	<b>PS-2:</b> Development of the proposed Project would not require the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service.	CEQA: Less than significant impact NEPA: Less than significant impact	Mitigation not required Mitigation not required	CEQA: Less than significant impact NEPA: Less than significant impact
	<b>PS-3:</b> The proposed Project would not result in a substantial increase in utility demands; however, construction and/or expansion of onsite water, wastewater, or storm drain lines would be required to support new terminal development.	CEQA: Less than significant impact NEPA: Less than significant impact	Mitigation not required Mitigation not required	CEQA: Less than significant impact NEPA: Less than significant impact
	<b>PS-4:</b> The proposed Project would not generate substantial water and/or wastewater demands that would exceed the capacity of existing facilities in the proposed Project area. The proposed Project would generate substantial solid waste demands that could exceed capacities.	CEQA: <u>Water Supply and Wastewater Treatment Capacity:</u> Less than significant impact <u>Solid Waste:</u> <b>Significant</b> impact	<b>MM 4N-1:</b> Incorporate water conservation devices and systems into project design <b>MM PS-1:</b> Recycling of Construction Materials <b>MM PS-2:</b> Materials with Recycling Content <b>MM PS-3:</b> Solid Waste Integrated Resources Plan Compliance	CEQA: Less than significant impact

**Table 3.13-5. Summary Matrix of Potential Impacts and Mitigation Measures for Utilities and Public Services Associated with the Proposed Project and Alternatives (continued)**

<i>Alternative</i>	<i>Environmental Impacts</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
<b>3.13 Utilities and Public Services (continued)</b>				
Proposed Project (continued)	<b>PS-4</b> (continued)	NEPA: <u>Water Supply and Wastewater Treatment Capacity</u> : Less than significant impact <u>Solid Waste</u> : <b>Significant</b> impact	<b>MM 4N-1</b> <b>MM PS-1</b> <b>MM PS-2</b> <b>MM PS-3</b>	NEPA: Less than significant impact
	<b>PS-5</b> : Implementation of the proposed Project would generate minor increases in energy demands; however, construction of new offsite energy supply facilities and distribution infrastructure would not be required to support proposed Project activities.	CEQA: Less than significant impact  NEPA: Less than significant impact	Mitigation not required  Mitigation not required	CEQA: Less than significant impact  NEPA: Less than significant impact
No Federal Action/No Project Alternative	<b>PS-1</b> : The No Federal Action/No Project Alternative would not increase the demand for additional law enforcement officers and/or facilities such that the USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without additional facilities, the construction of which could cause significant environmental effects.	CEQA: Less than significant impact  NEPA: No impact	Mitigation not required  Mitigation not required	CEQA: Less than significant impact  NEPA: No impact
	<b>PS-2</b> : The No Federal Action/No Project Alternative would not require the addition of a new fire station or the expansion, consolidation, or relocation of an existing facility to maintain service.	CEQA: Less than significant impact  NEPA: No impact	Mitigation not required  Mitigation not required	CEQA: Less than significant impact  NEPA: Less than significant impact
	<b>PS-3</b> : The No Federal Action/No Project Alternative would not result in a substantial increase in utility demands and construction and/or expansion of onsite water, wastewater, or storm drain lines would not be required to support new terminal development.	CEQA: Less than significant impact  NEPA: No impact	Mitigation not required  Mitigation not required	CEQA: Less than significant impact  NEPA: No impact
	<b>PS-4</b> : The No Federal Action/No Project Alternative would not generate substantial solid waste, water, and/or wastewater demands that would exceed the capacity of existing facilities in the proposed Project area.	CEQA: Less than significant impact  NEPA: No impact	Mitigation not required  Mitigation not required	CEQA: Less than significant impact  NEPA: No impact

**Table 3.13-5. Summary Matrix of Potential Impacts and Mitigation Measures for Utilities and Public Services Associated with the Proposed Project and Alternatives (continued)**

<i>Alternative</i>	<i>Environmental Impacts</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
<b>3.13 Utilities and Public Services (continued)</b>				
No Federal Action/No Project Alternative (continued)	<b>PS-5:</b> Implementation of the No Federal Action/No Project Alternative would generate minor increases in energy demands; however, construction of new offsite energy supply facilities and distribution infrastructure would not be required.	CEQA: Less than significant impact  NEPA: No impact	Mitigation not required  Mitigation not required	CEQA: Less than significant impact NEPA: No impact
Reduced Project Alternative	<b>PS-1:</b> The Reduced Project Alternative would not increase the demand for additional law enforcement officers and/or facilities such that the USCG, LAPD, or Port Police would not be able to maintain an adequate level of service without additional facilities, the construction of which could cause significant environmental effects.	CEQA: Less than significant impact  NEPA: Less than significant impact	Mitigation not required  Mitigation not required	CEQA: Less than significant impact NEPA: Less than significant impact
	<b>PS-2:</b> Development of the Reduced Project Alternative would not require the addition of a new fire station of the expansion, consolidation, or relocation of an existing facility to maintain service.	CEQA: Less than significant impact  NEPA: Less than significant impact	Mitigation not required  Mitigation not required	CEQA: Less than significant impact NEPA: Less than significant impact
	<b>PS-3:</b> The Reduced Project Alternative would not result in a substantial increase in utility demands; however, construction and/or expansion of onsite water, wastewater, or storm drain lines would be required to support new terminal development.	CEQA: Less than significant impact  NEPA: Less than significant impact	Mitigation not required  Mitigation not required	CEQA: Less than significant impact NEPA: Less than significant impact
	<b>PS-4:</b> The Reduced Project Alternative would not generate substantial water and/or wastewater demands that would exceed the capacity of existing facilities in the proposed Project area. The Reduced Project Alternative would generate substantial solid waste demands that could exceed capacities.	CEQA: <u>Water Supply and Wastewater Treatment Capacity:</u> Less than significant impact <u>Solid Waste:</u> <b>Significant</b> impact NEPA: <u>Water Supply and Wastewater Treatment Capacity:</u> Less than significant impact <u>Solid Waste:</u> <b>Significant</b> impact	<b>MM 4N-1</b> <b>MM PS-1</b> <b>MM PS-2</b> <b>MM PS-3</b>  <b>MM 4N-1</b> <b>MM PS-1</b> <b>MM PS-2</b> <b>MM PS-3</b>	CEQA: Less than significant impact      NEPA: Less than significant impact

**Table 3.13-5. Summary Matrix of Potential Impacts and Mitigation Measures for Utilities and Public Services Associated with the Proposed Project and Alternatives (continued)**

<i>Alternative</i>	<i>Environmental Impacts</i>	<i>Impact Determination</i>	<i>Mitigation Measures</i>	<i>Impacts after Mitigation</i>
<b>3.13 Utilities and Public Services (continued)</b>				
Reduced Project Alternative (continued)	<b>PS-5:</b> Implementation of the Reduced Project Alternative would generate minor increases in energy demands; however, construction of new offsite energy supply facilities and distribution infrastructure would not be require to support Reduced Project Alternative activities.	CEQA: Less than significant impact  NEPA: Less than significant impact	Mitigation not required  Mitigation not required	CEQA: Less than significant impact NEPA: Less than significant impact

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