

Chapter 12
Acronyms and Abbreviations

°C	degrees Celsius
°F	degrees Fahrenheit
µg/L	micrograms per liter
µg/m ³	micrograms per cubic meter
3-D	three dimensional
AAQS	Ambient Air Quality Standards
AB	Assembly Bill
ACG	allision, collision, and grounding
ACHP	Advisory Council on Historic Preservation
ACM	asbestos-containing material
ACTA	Alameda Corridor Transportation Authority
AHM	acutely hazardous materials
AIRFA	American Indian Religious Freedom Act of 1978
AMP	Alternative Maritime Power
APS	auxiliary power system
AQAC	Air Quality Advisory Committee
AQMP	Air Quality Management Plan
ARB	California Air Resources Board
ARPA	Archaeological Protection Act of 1979
ASJ	Amended Stipulated Judgment
ATCM	Airborne Toxic Control Measure
BACM	Best Available Control Measures
BACT	Best Available Control Technology
Basin	South Coast Air Basin
BAT	best available technology

BCT	best conventional pollutant control technology
BEA	Bureau of Economic Analysis
BFI	Browning Ferris Industries
bgs	below ground surface
bhp-hr	brake horsepower per hour
BLM	U.S. Department of the Interior, Bureau of Land Management
BLS	Bureau of Labor Statistics
BMP	Best Management Practice
BNSF	Burlington Northern and Santa Fe
Board	Port of Los Angeles Board of Harbor Commissioners
BP	before present
BPTCP	Bay Protection and Toxic Cleanup Program
Bq	Becquerel
BSFC	brake-specific fuel consumption
BTEX	benzene, toluene, ethylbenzene, and xylene
CAA	Clean Air Act
CAAP	Clean Air Action Plan
CAAQS	California Ambient Air Quality Standards
CAC	California Administrative Code
CalEPA	California Environmental Protection Agency
Caltrans	California Department of Transportation
CAP	Clean Air Plan
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCAR	California Climate Action Registry
CCC	California Coastal Commission
CCR	California Code of Regulations
CCW	Clean Coastal Waters
CD	compact disc
CDF	confined disposal facility
CDFG	California Department of Fish and Game
CDMG	California Division of Mines and Geology
CDP	Channel Deepening Project

CDPF	catalyzed diesel particulate filter
CDWR	California Department of Water Resources
CEIDARS	California Emission Inventory Development and Reporting System
CEQ	Council for Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CESA	California Endangered Species Act
CFR	<i>Code of Federal Regulations</i>
CGS	California Geological Survey
CH ₄	methane
CHC	City of Los Angeles Cultural Heritage Commission
CHE	Cargo-handling equipment
CHP	California Highway Patrol
CLE	contingency-level earthquake
cm	centimeter
CMA	Critical Movement Analysis
CMP	Congestion Management Program
CNA	Controlled Navigation Areas
CNEL	community noise equivalent level
CNG	compressed natural gas
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
COTP	Captain of the Ports
Cr	chromium
CRA/LA	City of Los Angeles Community Redevelopment Agency
CRHR	California Register of Historical Resources
CSLC	California State Lands Commission
CTR	California Toxics Rule
Cu	copper
CUPA	Certified Unified Program Agency
CWA	Clean Water Act

CWC	California Water Code
CY	calendar year
cy	cubic yard
CZMA	Coastal Zone Management Act
D/C	demand to capacity
DA	Department of the Army
dB	decibel
dba	A-weighted sound level
dbc	C-weighted sound level
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethene
DDT	dichlorodiphenyltrichloroethane
DHS	Department of Health Services
DNAPL	dense nonaqueous phase liquid
DO	dissolved oxygen
DOC	diesel oxidation catalyst
DoD	Department of Defense
DOF	Department of Finance
DOGGR	Conservation Division of Oil, Gas, and Geothermal Resources
DOT	Department of Transportation
DPF	diesel particulate filter
DPM	diesel particulate matter
DTSC	California Department of Toxic Substances Control
DWP	Department of Water and Power
EA	Environmental Assessment
EB	eastbound
EEZ	Exclusive Economic Zone
EF	emission factor
EFH	Essential Fish Habitat
EGR	exhaust gas recirculation
EIS/EIR	Environmental Impact Statement/Environmental Impact Report
EMD	Environmental Management Division
EMS	Environmental Management System; emergency medical service

EO	Executive Order
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ERL	Effect Range Low
ERM	Effect Range Medium
ESA	Endangered Species Act
FAR	floor area ratio
FARS	Fatality Analysis Reporting System
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHWA	Federal Highway Administration
FMCSA	Federal Motor Carrier Safety Administration
FMP	Fishery Management Plan
FONSI	finding of no significant impact
fps	foot per second
FS	Feasibility Study
FSA	Facility Security Assessment
FSO	Facility Security Officer
FSP	Facility Security Plan
ft ²	square foot
FY	fiscal year
g	acceleration of gravity at the Project site; gram
g/bhp-hr	grams per brake horsepower-hour
g/hp-hr	grams per horsepower-hour
g/m ²	grams per square meter
GCASP	General Construction Activities Stormwater Permit
GHG	greenhouse gas
GIASP	General Industrial Activities Stormwater Permit
GIS	geographic information system
GMP	Growth Management Plan
gpm	gallons per minute
GVWR	gross vehicle weight rating
GWP	Global warming potential

HARP	Hot Spot and Analysis Reporting Program
HC	Harbor Craft; hydrocarbon
HDV	heavy-duty vehicle
HEP	Harbor Environmental Projects
HFC	hydrofluorocarbon
HHW	higher-high water
HLW	higher-low water
HMI	Hazardous Materials Inventory
HMSD	Hazardous Materials Standards Division
hp	horsepower
hp/hr	horsepower per hour
HPOZ	City of Los Angeles Historic Preservation Overlay Zone
HRA	Health Risk Assessment
HSP	Harbor Safety Plan
HSWA	Hazardous and Solid Waste Amendments
Hz	hertz
I	Interstate
I-110	Interstate 110 or Harbor Freeway
I-405	Interstate 405 or San Diego Freeway
I-710	Interstate 710 or Long Beach Freeway
ICE	internal combustion engine
ICTF	Intermodal Container Transfer Facility
ICU	Intersection Capacity Utilization
IES	Illuminating Engineering Society of North America
ILWU	International Longshore and Warehouse Union
IMO	International Maritime Organization
IPCC	Intergovernmental Panel on Climate Change
IRP	Integrated Resources Plan
IS	Initial Study
ISCST3	Industrial Source Complex Short Term, Version 3
ISPS	International Ship and Port Facility Security
ITE	Institute of Transportation Engineers
ITP	Incidental Take Permit

ITS	International Transportation Service
IWG	interagency working group
kg	kilogram
kHz	kilohertz
km	kilometer
kPa	kilopascal
ksf	kips per square foot
kts	knots
kW	kilowatt
kWh	kilowatt-hour
L/kg-day	liters per kilogram of body weight per day
LA&I	Los Angeles and Independence Railroad
LA&SP	Los Angeles and San Pedro Railroad
LA/LB	Los Angeles and Long Beach
LAA	Lakebed Alternative Agreement
LABSD	Los Angeles Building and Safety Department
LACD	Los Angeles Customs District
LACFD	Los Angeles County Fire Department
LACMTA	Los Angeles County Metropolitan Transportation Authority
LACMVP	Natural History Museum of Los Angeles County Vertebrate Paleontology Department
LACSD	Los Angeles County Sanitation District
LADCP	City of Los Angeles Department of Community Planning
LADOT	City of Los Angeles Department of Transportation
LADWP	City of Los Angeles Department of Water and Power
LAEDC	Los Angeles Economic Development Corporation
LAFD	Los Angeles Fire Department
LAHD	Los Angeles Harbor Department
LAMC	Los Angeles Municipal Code
LAPD	Los Angeles Police Department
LARWQCB	Regional Water Quality Control Board, Los Angeles Region
LAUSD	Los Angeles Unified School District
lb/day	pounds per day

LCFS	Low-Carbon Fuel Standard
LCP	Local Coastal Program/Local Coastal Plan
L_{dn}	day-night sound level
LED	light-emitting diode
LEDPA	least environmentally damaging practicable alternative
LEED	Leadership in Energy and Environmental Design
LEL	low emissions level
LEPC	Local Emergency Planning Committee
L_{eq}	equivalent sound level
$L_{eq(h)}$	hourly equivalent sound level
LEV	low emissions vehicle
LHW	lower-high water
LLW	lower-low water
L_{max}	maximum sound level
L_{min}	minimum sound level
LNG	liquefied natural gas
LORS	laws, ordinances, regulations, and standards
LOS	level of service
LPC	Limited Permissible Concentration
LPG	liquefied propane gas
LST	Localized Significance Threshold
m	meter
M	Magnitude (on the Richter scale for earthquakes)
m/s	meter per second
M13	Marine Vessel Emissions Control Strategy
m^2	square meter
MARAD	U.S. Maritime Administration
MARSEC	Maritime Security
MATES-II	Multiple Air Toxics Exposure Study
MAX	Municipal Area Express
mby	million barrels per year
MCE	maximum credible earthquake
mcm	million cubic meters

mcy	million cubic yards
MDO	marine diesel oil
MEI	maximally exposed individual
Metropolitan	Metropolitan Water Districts of Southern California
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mgd	million gallons per day
MGO	marine gas oil
MLLW	mean lower-low water level
MMPA	Marine Mammal Protection Act
MND	Mitigated Negative Declaration
MOA	Memorandum of Agreement
MOTEMS	Marine Oil Terminal Engineering and Maintenance Standards
MOU	Memorandum of Understanding
MP	Monitoring Plan
MPE	maximum probable earthquake
mph	miles per hour
MPO	Metropolitan Planning Organization
MRZ	Mineral Resource Zone
msl	mean sea level
MSO	Marine Safety Office
MTA	Metropolitan Transportation Authority
MTSA	Maritime Transportation Security Act
MWD	Metropolitan Water District of Southern California
MWh	Megawatt hours
MXA	Municipal Area Express
N ₂ O	Nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAC	Noise Abatement Criteria
NAFTA	North American Free Trade Agreement
NAGPRA	Native American Graves Protection and Repatriation Act of 1990
NAHC	Native American Heritage Commission
NAPHL	nonaqueous phase liquids

NB	northbound
NBG	Neighborhood Block Grant
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NH ₃	ammonia
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
nm	nautical mile
NMFS	National Marine Fisheries Service
NMHC	nonmethane hydrocarbons
NNI	no net increase
NO ₂	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NOP	Notice of Preparation
NOS	National Ocean Service
NO _x	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NPS	nonpoint source
NRC	National Response Center
NRHP	National Register of Historic Places
NTP	Notice to Proceed
NTU	Nephelometric turbidity unit
O ₂	oxygen
O ₃	ozone
OBD	on-board diagnostic
OEHHA	Office of Environmental Health Hazard Assessment
OES	Office of Emergency Services
OGV	oceangoing vessel
OHP	Office of Historic Preservation
OLE	operational-level earthquake
OPR	Office of Planning and Research
OSCP	Oil Spill Contingency Plan

OSPR	Office of Spill Prevention and Response
PAH	polycyclic aromatic hydrocarbon
Pb	lead
PCAC	Port Community Advisory Committee
PCB	polychlorinated biphenyl
PCE	passenger car equivalent
PCE	tetrachloroethene
PCH	Pacific Coast Highway
PERP	Portable Equipment Registration Program
PF	Public Facility
PFC	perfluorocarbon
pH	potential hydrogen-ion concentration
PHGA	peak horizontal ground acceleration
PHL	Pacific Harbor Line
PIANC	Port International Navigation Association
Plan	Fire Protection and Prevention Plan
PM	particulate matter
PM ₁₀	particulate matter of less than 10 micrometers in aerodynamic diameter
PM _{2.5}	particulate matter of less than 2.5 micrometers in aerodynamic diameter
PMA	Pacific Maritime Association
PMP	Port Master Plan
PNA	polynuclear aromatic hydrocarbon
POLA	Port of Los Angeles
POLACAP	Port of Los Angeles Clean Air Program
POLB	Port of Long Beach
Port	Port of Los Angeles
Port Police	Los Angeles Harbor Department Police
PORTS	Physical Oceanographic Real Time System
ppm	parts per million
ppmv	parts per million by volume
ppt	parts per thousand
PQL	Practical Qualification Limit
PRC	Public Resources Code

proposed Project	China Shipping Line Berth 97-109 Container Terminal Improvement Project
psi	pounds per square inch
psia	pounds per square inch absolute
psig	pounds per square inch gauge
PTC	Permit to Construct
RCPG	Regional Comprehensive Plan and Guide
RCRA	Resource Conservation and Recovery Act
RDP	Rio Doce Pasha
REL	reference exposure level
RENEW LA Plan	Recovering Energy, Natural Resources, and Economic Benefit from Waste for Los Angeles
RfC	reference concentration
RGMP	Regional Growth Management Plan
RHA	Rivers and Harbors Act
RIMS	Response Information Management System
RMP	Regional Mobility Plan; Risk Management Plan
RMPP	Risk Management and Prevention Program
RMS	root mean square
RNA	regulated navigation area
ROC	reactive portion of volatile organic compounds
ROD	Record of Decision
ROG	reactive organic gas
ROI	Region of Influence
RORO	roll-on / roll-off
rpm	revolutions per minute
RRP	Release Response Plan
RTG	rubber-tired gantry
RWQCB	Regional Water Quality Control Board
SAA	Streambed Alteration Agreement
SAIC	Science Applications International Corporation
SARA	Superfund Amendments and Reauthorization Act
SB	Senate Bill; southbound
SCAG	Southern California Association of Governments

SCAQMD	South Coast Air Quality Management District
SCCB	Southern California Continental Borderland
SCCWRP	Southern California Coastal Water Research Project
SCEC	Southern California Earthquake Center
SCG	Southern California Gas
SCIG	Southern California International Gateway Project
SCP	Source Control Program
SCR	selective catalytic reduction
SCS	Soil Conservation Service
SEA	Significant Ecological Area
SECA	sulfur emission control area
SEIR	Supplemental Environmental Impact Report
SEIS	Supplemental Environmental Impact Statement
SERC	State Emergency Response Commission
SFG	sulfur hexafluoride
SHPO	State Historic Preservation Officer
SIP	State Implementation Plan
SMARA	Surface Mining and Reclamation Act of 1975
SMW	State Mussel Watch
SO ₂	sulfur dioxide
SO _x	sulfur oxide
SPCC	Spill Prevention Control and Countermeasure Plan
SPRR	Southern Pacific Railroad
SR	State Route
SR-103, SR-47	Terminal Island Freeway
SSO	Ship Security Officer
SUSMP	Standard Urban Stormwater Mitigation Plan
SV	simulation viewpoint
SVE	soil vapor extraction
SVOC	semivolatile organic compound
SWH	shallow water habitat
SWIRP	Solid Waste Integrated Resources Plan
SWPPP	Storm Water Pollution Prevention Plan

SWRCB	State Water Resources Control Board
TAC	toxic air contaminant; Technical Advisory Committee
TBT	tributyltin
TCA	tetrachloroethane
TCE	perchloroethylene
TCLP	Toxicity Characteristics Leaching Procedure Standard
TCP	traditional cultural property
TDS	Total Dissolved Solids
TEU	twenty-foot equivalent unit
TIA	Traffic Impact Analysis
TICTF	Terminal Island Intermodal Container Transfer Facility
TIFA	Trucks Involved in Fatal Accidents
TITP	Terminal Island Treatment Plant
TMDL	total maximum daily load
TMP	Transportation Master Plan
TNAP	Traffic Noise Analysis Protocol
TNM	Traffic Noise Model
TOG	total organic gas
TPH	total petroleum hydrocarbon
TRB	Transportation Research Board
Treatment Plant	Terminal Island Treatment Plant
TRU	transportation refrigeration unit
TSA	Transportation Security Administration
TWIC	Transportation Worker Identification Credential
U.S.	United States
U.S.C.	United States Code
UBC	Uniform Building Code
UFP	ultrafine particle (less than 0.1 microgram in diameter)
ULSD	ultra-low-sulfur diesel
UPRR	Union Pacific Railroad
USACE	United States Army Corps of Engineers
USAF	United States Air Force
USC	United States Code

USCG	United States Coast Guard
USDA	U.S. Department of Agriculture
USDI	U.S. Department of Interior
USDOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	underground storage tanks
UTM	Universal Transverse Mercator
UWMP	Urban Water Management Plan
V/C	volume to capacity
VDECS	verified diesel emission control system
VHF-FM	very high frequency – frequency modulation
VMC	Visual Modification Class
VMT	vehicle miles traveled
VOC	volatile organic compound
VRM	Visual Resource Management
VSP	Vessel Security Plan
VSR	vessel speed reduction
VS RP	Vessel Speed Reduction Program
VTIS	Vessel Traffic Information Services
VTS	Vessel Traffic System
WB	westbound
WB TIP	West Basin Transportation Improvements Program
WDR	Waste Discharge Requirements
WEFA	Wharton Economic Forecasting Associates
WES	Waterways Experiment Station
WGCEP	Working Group on California Earthquake Probabilities
WQS	Water Quality Standards
yd ³	cubic yard
Zn	zinc