

7 ABBREVIATIONS AND ACRONYMS

%	percent
+	plus
<	less than
>	greater than
§	section
°F	degree Fahrenheit
µg/m ³	micrograms per cubic meter
A.D.	Anno Domini (also commonly noted as “Common Era”)
AAQS	ambient air quality standards
AB	Assembly Bill
ABC	Accelerated Bridge Construction
ACM	asbestos-containing material
ADA	Americans with Disabilities Act
ADL	aerially deposited lead
AECOM	AECOM Technical Services Incorporated
af	artificial fill
AFY	acre feet per year
AHJ	Authority Having Jurisdiction
AHMP	All Hazards Mitigation Plan
AHPA	Archeological and Historic Preservation Act
AIA	Airport Influence Area
AIRFA	American Indian Religious Freedom Act
AIRS	Aerometric Information Retrieval System
ALS	advanced life support
Alt	Alternative
ALUC	Airport Land Use Commission
ALUP	airport land use plan
AM	ante meridiem (before noon)
amsl	above mean sea level
ANR	Agriculture and Natural Resources
AP-42	Compilation of Air Pollutant Emission Factors
APM	Automated People Mover
APTA	American Public Transportation Association
AQ	Air Quality

AQMP	Air Quality Management Plan
ARS	acceleration response spectrum
ASCE	American Society of Civil Engineers
ASEC	VCA Animal Specialty and Emergency Center
AST	aboveground storage tank
ASTM	American Society of Testing and Materials
AVTA	Antelope Valley Transit Authority
AZ	Arizona
BBB	Santa Monica Big Blue Bus
BenMAP	Environmental Benefits Mapping and Analysis Program
BERD	Built Environment Resources Directory
BGEPA	Bald and Golden Eagle Protection Act
bgs	below ground surface
BHMMP	Bat Habitat Mitigation and Monitoring Plan
BIO	Biological
Blvd	Boulevard
BMP	best management practices
BOE	Bureau of Engineering
BP	before present
BRT	bus rapid transit
Btu	British thermal unit
Btu/hr	British thermal units per hour
C/NR	Conservation and Natural Resources
CA	California
CAA	California Clean Air Act
CAAP	Climate Action and Adaption Plan
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CAL FIRE	California Department of Forestry and Fire Protection
Cal/OSHA	California Division of Occupational Safety and Health
CalARP	California Accidental Release Prevention Program
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CalGreen	California Green Building Standards
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association

CARB	California Air Resources Board
CAT	Climate Action Team
CBC	California Building Code
CBM18B	Metro Transportation Analysis Model 2018
CBSC	California Building Standards Commission
CCA	California Children’s Academy
CCAA	California Clean Air Act
CCB	Culver CityBus
CCR	California Code of Regulations
CCRC	Child Care Resource Center
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CERS	California Environmental Reporting System
CESA	California Endangered Species Act
CFGC	California Fish and Game Code
CFMP	Community Forestry Management Plan
CFP	CDFW Fully Protected
CFR	Code of Federal Regulations
CGP	construction general permit
CGS	California Geological Survey
CH4	methane
CHL	California Historical Landmark
CHMIRS	California Hazardous Material Incident Report System
CHP	California Highway Patrol
CI	compression ignition
CIDH	cast-in-drilled-hole
CIP	cast-in-place
CIWQS	California Integrated Water Quality System
CLAW	Citizens for Los Angeles Wildlife
CLUP	Comprehensive Land Use Plan
CMP	Construction Management Plan
CNDDB	California Natural Diversity Data Base

CNEL	community noise equivalent level
CNPS	California Native Plant Society
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
CoLA CEO	County of Los Angeles, Chief Executive Office
COPC	contaminant of potential concern
Cortese list	Hazardous Waste and Substances Sites list
CPA	Community Plan Area
CPS	Cleanup Program Sites
CPUC	California Public Utilities Commission
CRA	California Relocation Act
CRA	Coastal Resource Area
CRC	California Resources Code
CRHR	California Register of Historical Resources
CRPR	California Rare Plant Rank
CSP	California State Parks
CSPP	California State Preschool Program
CUL	Cultural
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
CY	cubic yard(s)
dB	decibel
dBA	A-weighted decibel
DBH	diameter at breast height
DCP	Los Angeles Department of City Planning
DD	Deputy Directive
DDT	dichlorodiphenyltrichloroethane
DEIR	Draft Environmental Impact Report
DES	Caltrans Division of Engineering Services
DGE	diesel gallon equivalent
DOC	California Department of Conservation
DPM	diesel particulate matter
DPR	California Department of Parks and Recreation
DRA	drought risk assessment
DTSC	California Department of Toxic Substances Control

DTSC-SL	DTSC Screening Levels
DWQ	Division of Water Quality
DWR	California Department of Water Resources
ECHO	Enforcement and Compliance History Information
ECMP	Energy Conservation and Management Plan
EFC	Equity Focus Community
eGIS	Enterprise GIS
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EMAP	Energy Management Action Plan
EMFAC	Emission Factor
EMI	Emissions Inventory Data
EMS	emergency medical services
ENG	Energy
E. O.	Executive Order
EPA	Environmental Protection Agency or U.S. Environmental Protection Agency
ESA	Endangered Species Act
ESA	environmental site assessment
ESFV	East San Fernando Valley
ESFV LRT	East San Fernando Valley Light Rail Transit Line
ESMM-NRPP	Eastern Santa Monica Mountains Natural Resource Protection Plan
EWCP	Emergency Water Conservation Plan
EWMP	Enhanced Watershed Management Program
ExpressLanes project	I-405 Sepulveda Pass ExpressLanes project
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulations
FBI	Federal Bureau of Investigation
FC	Federal Candidate for Listing Status Designation
FCC	Federal Communications Commission
FE	Federally Endangered Status Designation
FEIR	Final Environmental Impact Report
FEMA	Federal Emergency Management Agency
FFIS	Federal Facilities Information System
FHWA	Federal Highway Administration
FID	Facility Inventory Database
FINDS	Facility Index System/Facility Registry System

FIRM	Flood Insurance Rate Maps
FLM	first/last mile
FLSC	Fire/Life Safety Committee
FP	Federal Proposed
FPS	Federal Protective Services
FR	Federal Register
FRA	Federal Railroad Administration
FT	Federally Threatened Status Designation
ft ²	square foot/feet
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Program
FURS	Federal Underground Injection Control Reporting System
g	the standard acceleration due to gravity
g/mi	grams per mile
gal	gallon
galD/hp-hr	gallons diesel per horsepower-hour
GBN	groundborne noise
GBV	groundborne vibration
GEO	Geology, Soils, Seismicity, and Paleontological Resources
GHG	greenhouse gas
GIS	geographic information system
GLAC	Greater Los Angeles County
GO	General Order
GPS	Global Positioning System
GreenLA	GreenLA: An Action Plan to Lead the Nation in Fighting Global Warming
GSA	Groundwater Sustainability Agencies
GWh	gigawatt hour(s)
GWP	global warming potential
H ₂ S	hydrogen sulfide
HAULERS	Registered Waste Tire Haulers Listing
HAZ	Hazard
HAZNET	Hazardous Waste Information System
HCD	California Department of Housing and Community Development
HCP	Habitat Conservation Plan
HDM	Highway Design Manual
HFC	hydrofluorocarbon

HGL	hydrocarbon gas liquids
HHDT	heavy-heavy duty truck
HIST	Historical
HistoricPlacesLA	Los Angeles Historic Resources Inventory
HLRC	Historical Landmarks and Records Commission
HMBP	Hazardous Materials Business Plan
HNTB	HNTB Corporation
HOV	high-occupancy vehicle
hp	horsepower
HPOZ	Historic Preservation Overlay Zone
HQTS	High Quality Transit Stop
hr	hour
HRDF	high resilience direct fixation
HRT	heavy rail transit
HTA	HTA Partners
HUC	Hydrologic Unit Code
HVAC	heating, ventilation, and air conditioning
HWP	Hazardous Waste Program
HWQ	Hydrology and Water Quality
HWTS	hazardous waste tracking system
I-10	Interstate 10
I-405	Interstate 405
I-5	Interstate 5
ID	identification
IEPR	Integrated Energy Policy Report
IGP	Industrial General Permit
Inc	Incorporated
IPaC	Information for Planning and Consultation
IPCC	Intergovernmental Panel on Climate Change
ITP	Incidental Take Permit
JD	Joint Development
Jsm	Santa Monica Slate undivided
JsmP	Santa Monica Slate phyllite
Jsms	Santa Monica Slate spotted slate
JWPCP	Joint Water Pollution Control Plan
K	Kindergarten

kBTU	thousand British thermal units
kg	kilogram
KOP	key observation point
Kt	Cretaceous tonalite
kW	Kilowatt
kWh	Kilowatt-hours
LA	Los Angeles
LA100	Los Angeles 100% Renewable Energy Study
LAA	Los Angeles Aqueduct
LABOE	Los Angeles Bureau of Engineering
LACFCD	Los Angeles County Flood Control District
LACFD	Los Angeles County Fire Department
LADOT	Los Angeles Department of Transportation
LADPW	Los Angeles County Department of Public Works
LADWP	City of Los Angeles Department of Water and Power
LAFD	Los Angeles Fire Department
LAHCM	Los Angeles Historic Cultural Monuments
LAMC	Los Angeles Municipal Code
LAPD	Los Angeles Police Department
LAPL	Los Angeles Public Library
LARWQCB	Los Angeles Regional Water Quality Control Board
LASAN	City of Los Angeles Department of Sanitation
LASD	Los Angeles County Sheriff's Department
LASRE	LA SkyRail Express
LAUSD	Los Angeles Unified School District
LAX	Los Angeles International Airport
lb/MWh	pounds per megawatt-hour
LBP	lead-based paint
lbs	pounds
LBT	Long Beach Transit
LCFS	low-carbon fuel standard
LDA	light-duty autos
Ldn	day-night noise level
LDT	light duty trucks
LDT1	light duty trucks type 1
LDT2	light duty trucks type 2

LEED	Leadership in Energy and Environmental Design
Leq	equivalent noise level
Leq.equip	equipment noise levels
LEV	low-emission vehicle
LF	load factor
LHMP	Local Hazard Mitigation Plan
LHZ	landslide hazard zone
LID	low impact development
LOSSAN	Los Angeles-San Diego-San Luis Obispo
LPA	Locally Preferred Alternative
LQ	large quantity
LQG	large quantity generator
LRA	Local Responsibility Area
LRDP	Long-Range Development Plan
LRT	light rail transit
LRTP	Long-Range Transportation Plan
LSAA	Lake and Streambed Alternation Agreement
LST	localized significance threshold
LTS	less than significant
LU	landscape unit
LUP	Land Use and Planning
LUST	leaking underground storage tank
M	magnitude
MAP-21	Moving Ahead for Progress in the 21st Century Act
MBS	Moving Beyond Sustainability
MBTA	Migratory Bird Treaty Act
MBtu/hr	one million British thermal units per hour
MDE	Maximum Design Earthquake
Metro	Los Angeles County Metropolitan Transportation Authority
mg/L	milligrams per liter
mg/m ³	micrograms per cubic meter
MHDT	medium-heavy duty trucks
mi	mile
min	minutes
MJ	megajoules
MM	mitigation measure

mm	millimeter
MMBTU	million British thermal units
MMI	Modified Mercalli Intensity
MMTCO ₂ e	million metric tons of CO ₂ equivalent
MOW	maintenance-of-way
mph	miles per hour
MPO	Metropolitan Planning Organization
MRCA	Mountains Recreation and Conservation Authority
MRDC	Metro Rail Design Criteria
MRT	monorail transit
MRZ	mineral resource zone
MS4	Municipal Separate Storm Sewer Systems
MSF	maintenance and storage facility
MSPSP	Mulholland Scenic Parkway Specific Plan
MTCO ₂ e	metric tons of CO ₂ equivalent
MTCO ₂ e/Year	metric tons of CO ₂ equivalent per year
MVP	major vista point
Mw	moment magnitude
MW	megawatt
MWD	Metropolitan Water District of Southern California
MWh	megawatt-hours
N	North
n.d.	no date
N ₂ O	nitrous oxide
NA	not applicable
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NCCP	Natural Community Conservation Plan/Planning
NEH	National Engineering Handbook
NEHRP	National Earthquake Hazards Reduction Program
NEN	Neighborhood Enhanced Network
NEPA	National Environmental Policy Act
NF ₃	nitrogen trifluoride
NFIP	National Flood Insurance Program
NFPA	National Fire Protection Association
NFRAP	No Further Remedial Action Plan

NHD	National Hydrography Dataset
NHMLAC	Natural History Museum of Los Angeles County
NHPA	National Historic Preservation Act of 1966
NI	no impact
NLR	no longer regulated
NMA	neighborhood mobility area
No	Number
NO ₂	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NOI	Noise
NOP	Notice of Preparation
NOX	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPF	National Park Foundation
NPL	National Priorities List
NPPA	Native Plant Protection Act
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NREL	National Renewable Energy Laboratory
NRHP	National Register of Historic Places
NTD	National Transit Database
NV	Nevada
NWI	National Wetlands Inventory
NZE	near zero emissions
O ₃	ozone
OAERP	Operational Area Emergency Response Plan
ODE	Operating Design Earthquake
OHP	Office of Historic Preservation
OPR	Governor's Office of Planning and Research
OSHA	Occupational Safety and Health Administration
OU	operable unit
PADS	PCB Activity Database System
PAH	polycyclic aromatic hydrocarbons
Pb	Lead
PC/VN DASH	Panorama City/Van Nuys DASH

PCB	polychlorinated biphenyls
PCE	perchloroethylene or tetrachloroethylene
PCS	Permit Compliance System
PD	police department
PDA	pre-development agreement
PDA	Priority Development Area
PFC	perfluorocarbons
PHMSA	Pipeline and Hazardous Materials Safety Administration
pm	particulate matter
PM	project measure
PM	post meridiem (after noon or midday)
PM10	respirable particulate matter of diameter less than 10 microns
PM2.5	fine particulate matter of diameter less than 2.5 microns
POP	population
PPM	parts per million
PPV	peak particle velocity
PRC	Public Resource Code
Project	Sepulveda Transit Corridor Project
PS	potentially significant
PTASP	Public Transportation Agency Safety Plan
PV	photovoltaic
Qa	alluvium
Qof2	old alluvium fan deposits, unit 2
QSD	Qualified SWPPP Developer
QSP	Qualified SWPPP Practitioner
Qya2	young alluvium, unit 2
Qyf1	young alluvium fan deposits, unit 1
Qyf2	young alluvium fan deposits, unit 2
RAMP	Real Estate Acquisition Management Plan
RCRA	Resource Conservation and Recovery Act
REC	recognized environmental concern
REC	Recreation
RHNA	Regional Housing Needs Assessment
RMP	Risk Management Plan
ROG	reactive organic gases
ROW	right-of-way

ROWD	Report of Waste Discharge
RPS	Renewables Portfolio Standard
RSA	Resource Study Area
RSL	Regional Screening Levels
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
S	South
SAF	Safety
SAV	stand-alone validators
SB	Senate Bill
SC	CDFW State Candidate Species for Listing Status Designation
SC	Site Cleanups
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCEDC	Southern California Earthquake Data Center
SCS	Sustainable Communities Strategy
SCT	Santa Clarita Transit
SCW	South Coast Wildlands
SDC	seismic design criteria
SDWA	Safe Drinking Water Act
SE	CDFW State Endangered Status Designation
SEA	Significant Ecological Area
sec	second(s)
SEL	sound exposure level
SEM	sequential excavation method
SEMS	Superfund Enterprise Management System
SER	Standard Environmental Reference
sf	square foot/feet
SF6	sulfur hexafluoride
SFR	single-family residential
SGMA	Sustainable Groundwater Management Act
SIP	State Implementation Plan
SLF	Sacred Lands File
SLIC	spills, leaks, investigations, and clean-ups

SLTRP	Strategic Long-Term Resource Plan
SMMC	Santa Monica Mountains Conservancy
SMMNRA	Santa Monica Mountains National Recreation Area
SMMUSD	Santa Monica-Malibu Unified School District
SMPD	Santa Monica Police Department
SO ₂	sulfur dioxide
SoCalGas	Southern California Gas Company
SOE	Support of Excavation
SOG	small quantity generators
SOI	Secretary of the Interior
SOI	sphere of influence
SOI Standards	Secretary of the Interior's Standards for the Treatment of Historic Properties
SORE	small off-road engine
SOX	sulfur oxides
SQG	small quantity generators
SR	CDFW State Rare Status Designation
SR	State Route
SR-1	State Route 1
SR-27	State Route 27
SRA	Source Receptor Area
SRA	State Responsibility Area
SRTP	Short Range Transportation Plan
SRWQCB	State Regional Water Quality Control Board
SSC	Species of Special Concern designated by CDFW
SSDC	Supplemental Seismic Design Criteria
SSPP	System Safety Program Plan
ST	CDFW State Threatened Status Designation
St	Saint
St	Street
STA	station/stationing
STATE	State Environmental Laws and Statutes
STCP	Sepulveda Transit Corridor Partners
SU	Significant and Unavoidable
SUSMP	Standard Urban Storm Water Mitigation Plan
SVP	Society of Vertebrate Paleontology
SWEEPS	Statewide Environmental Evaluation and Planning System

SWF/LF	solid waste landfills or disposal sites
SWIS	Solid Waste Information System
SWP	State Water Project
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
SZ	Scientific Resource Zones
TAC	toxic air contaminant
TAHA	Terry A. Hayes Associates Incorporated
TAP	Tunnel Advisory Panel
TAZ	Transportation Analysis Zone
TBD	to be determined
TBM	tunnel boring machine
TCE	temporary construction easement
TCE	trichloroethylene
TCR	Tribal Cultural Resources
TDS	total dissolved solids
Tm	Model Formation undivided
Tmd	Modelo Formation diatomaceous shale
TMDL	Total Maximum Daily Load
TMP	Transportation Management Plan
Tms	Modelo Formation sandstone
TNP	Transit Neighborhood Plan
TNW	traditional navigable water
TOC	transit-oriented community/communities
TOD	transit-oriented development
TPA	transit priority area
TPSS	traction power substation
TPZ	Tree Protection Zone
TRA	Transportation
TSC	transit solution concepts
TSD	treatment, storage, and disposal
TSDF	treatment, storage, and disposal facility
TSO	transit security officer
Tt	Model Formation Topanga Group undivided
TWW	treated wood waste
U.S.C.	United States Code

UC	University of California
UCLA	University of California, Los Angeles
Uniform Act	Uniform Relocation Assistance and Real Property Acquisition Policies Act
US/U.S.	United States
US-101	U.S. Highway 101
USACE	U.S. Army Corps of Engineers
USAR	United States Army Reserve
USC	University of Southern California
USDOT	U.S. Department of Transportation
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
USPS	U.S. Postal Service
UST	underground storage tank
UWMP	Urban Water Management Plan
VA	U.S. Department of Veterans Affairs
Valley	San Fernando Valley
VAPD	Veterans Affairs Police Department
VdB	Vibration decibel notation
VHFHSZ	Very High Fire Hazard Severity Zone
VIB	Vibration
VMT	vehicle miles traveled
VN/SC DASH	Van Nuys/Studio City DASH
VOC	volatile organic compound
VRM	vehicle revenue mile
VRP	Visibility-Reducing Particles
vs.	versus
VSQG	very small quantity generators
W	Watt
W	West
W/O	2045 without Metro Line 761 improvements
W/P	2045 with Metro Line 761 improvements
WBWG	Western Bat Working Group
WDR	waste discharge requirement
WDS	waste discharge system
WEAP	Worker Environmental Awareness Plan
Westside	Westside of Los Angeles

WFR	Wildfire
Wh	Watt-hours
WLA TIMP	West Los Angeles Transportation Improvement and Mitigation Specific Plan
WMP	Watershed Management Program
WMP	wildlife movement pathway
WOTS	Waters of the State
WOTUS	Waters of the United States
WRCC	Western Regional Climate Center
WSCCOG	Westside Cities Council of Government
YMCA	Young Men’s Christian Association
YOE	Year of Expenditure
ZE	zero emissions
ZEV	zero emissions vehicle
ZIMAS	Zone Information and Map Access System