

7. Acronyms and Abbreviations

°F	Fahrenheit
μips	micro-inch per second
2016 RTP/SCS	2016-2040 Regional Transportation Plan/Sustainable Communities Strategy
2020 RTP/SCS	Connect SoCal 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy
AADTs	annual average daily traffic volumes
AASHTO	American Association of State Highway and Transportation Officials
AB	Assembly Bill
ACC	Advanced Clean Cars
ACC II	Advanced Clean Cars II
ACE	Advanced Conceptual Engineering
ACM	asbestos-containing material
ACS	American Community Survey
Act	Water Quality Control Act of 1969
ADA	American Disabilities Act
ADI	area of direct impacts
ADL	aerially-deposited lead
ANSI	American National Standards Institute
APE	area of potential effects
API	area of potential impact
APN	assessor's parcel number
APTA	American Public Transportation Association
AQMP	Air Quality Management Plan
AR4	Intergovernmental Panel on Climate Change Fourth Assessment Report

AREMA	American Railway Engineering and Maintenance-of-Way Association
ARP	average return period
ASI	application screening index
AT&SF	Atchison, Topeka and Santa Fe Railway
AV	autonomous vehicles
BAAQMD	Bay Area Air Quality Management District
BART	Bay Area Rapid Transit
Basin Plans	Water Quality Control Plans
BCE	Before the Common Era
bgs	below ground surface
BMP	Best Management Practice
BNSF	Burlington Northern Santa Fe
BP	before present
BRSA	Biological Resources Study Area
BRT	Bus Rapid Transit
C ₂ F ₆	perfluoroethane
CAA	Clean Air Act
CAAP	Climate Action and Adaptation Plan
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
Cal/OSHA	California Occupational Safety and Health Administration
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CalGEM	California Geologic Energy Management Division
CalRecycle	California Department of Resources Recycling and Recovery

Caltrans	California Department of Transportation
CAP	climate action plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBC	California Building Code
CBM18	Corridor Based Model 2018
CBO	Community Based Organizations
CCAA	California Clean Air Act
CCAP	community climate action plan
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CDMG	California department of Conservation, Division of Mines and Geology
CE	Common Era
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CF ₄	perfluoromethane
CFCs	chlorofluorocarbons
CFR	Code of Federal Regulations
CGS	California Geological Survey
CH ₄	methane
CHL	California Historical Landmarks
CHP	California Highway Patrol
CHRIS	California Historical Resources Information System
CIDH	cast-in-drilled-hole

CNDDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO ₂	carbon dioxide
CO _{2e}	carbon dioxide equivalent
COOP	Cooperative Observer Network
Cortese List	Hazardous Waste and Substances Sites
CPTED	crime prevention through environmental design
CPUC	California Public Utility Commission
CRHR	California Register of Historical Resources
CRMMP	Cultural Resources Monitoring and Mitigation Plan
CSMD	Consolidated Sewer Maintenance District
CUPA	Certified Unified Program Agency
CV	connected vehicles
CWA	Clean Water Act
CWR	continuous welded rail
dB	decibels
dBA	A-weighted decibel
dbh	diameter at breast height
DDT	dichlorodiphenyltrichloroethane
DHS	Department of Health Services
DPM	diesel particulate matter
DPR	California Department of Parks and Recreation
DSA	detailed study area

DTSC	California Department of Toxic Substances Control
DWQ	Division of Water Quality
DWR	Department of Water Resources
DWSAP	Drinking Water Source Assessment and Protection
EC	Engineer Circular
ECMP	Metro's Energy Conservation and Management Plan
EEI	Edison Electric Institute
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EMFAC	Emission Factor Model for On-road Motor Vehicles
EO	Executive Order
EWMP	Enhanced Watershed Management Programs
FCC	Federal Communications Commission
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FLM	first/last mile
FMV	fair market value
FR	Federal Register
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Program
g	gravity
g/mi	grams per mile
GBN	ground-borne noise
GBV	ground-borne vibration

GCCOG	Gateway Cities Council of Governments
GHG	greenhouse gas
GIS	geographic information system
GLAC	Greater Los Angeles County
GSA	general study area
GTTC	Gabrielino-Tongva Tribal Council
GVWR	gross vehicle weight rating
GWh	gigawatt-hours
GWP	global warming potential
GWR	Groundwater Recharge
HABS	Historic American Building Survey
HAER	Historic American Engineering Record
HALS	Historic American Landscape Survey
Handbook	CEQA Air Quality Handbook
HASP	health and safety plan
HCFC	hydrochlorofluorocarbon
HDD	horizontal directional drilling
HFC	hydrofluorocarbon
HI	Hazard Index
HMBP	Hazardous Materials Business Plan
HRA	Health Risk Assessment
HRI	Historic Resources Inventory
HVAC	heating, ventilation, and air conditioning
I	Interstate
ICT	Innovative Clean Transit

ID	Identification
IOS	Initial Operating Segment
IPaC	Information for Planning and Consultation
IPCC	Intergovernmental Panel on Climate Change
ips	inches per second
IRP	Integrated Resource Plan
ISA	Initial Site Assessment
ITS	Intelligent Transportation System
k-12	kindergarten through 12th grade
kWh	kilowatt-hours
LA Basin Plan	Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties
LACDPW	Los Angeles County Department of Public Works
LACFCD	Los Angeles County Flood Control District
LACFD	Los Angeles County Fire Department
LADWP	Los Angeles Department of Water and Power
LAPD	Los Angeles Police Department
LARWQCB	Los Angeles Regional Water Quality Control Board
LASD	Los Angeles County Sheriff's Department
LAX	Los Angeles International Airport
LBP	lead-based paints
LBPD	Long Beach Police Department
LCFS	low carbon fuel standard
Ldn	day-night noise level
Leq(h)	average hourly equivalent noise level
LEV III	Low-Emission Vehicle III

LEV III GHG	Low-Emission Vehicle III Regulation for greenhouse Gases
LID	low impact development
Lmax	maximum noise level
LOS	level of service
LPA	Locally Preferred Alternative
LRFD	Load and Resistance Factor Design
LRT	light rail transit
L RTP	Long Range Transportation Plan
LRV	light rail vehicle
LST	localized significance threshold
LUST	Leaking Underground Storage Tank
MAP-21	Moving Ahead for Progress in the 21st Century Act
MATES IV	Multiple Air Toxics Exposure Study IV
MBS	Moving Beyond Sustainability
MBTA	Massachusetts Bay Transportation Authority
MBTA	Migratory Bird Treaty Act
MDE	Maximum Design Earthquake
Metro	Los Angeles County Metropolitan Transportation Authority
MGL EE	Metro Gold Line Eastside Extension
MICR	Maximum Individual Cancer Risk
MLD	most likely descendant
MM	mitigation measure
MMBTU	metric million British thermal unit
MMT	million metric tons
MMTCO _{2e}	Million metric tons carbon dioxide equivalent

MOD	Mobility on Demand
mpg	miles per gallon
mph	miles per hour
MPO	metropolitan planning organizations
MRDC	Metro Rail Design Criteria
MS ₄	municipal separate storm sewer systems
MSA	Metropolitan Statistical Area
MSE	mechanically stabilized earth
MSF	maintenance and storage facility
MTP	MicroTransit Pilot
MUN	Municipal and Domestic Supply
Muni	San Francisco Municipal Railway
MUTCD	Manual of Uniform Traffic Control Devices
MW	megawatts
MWD	Metropolitan Water District
N/A	not applicable
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NAVD	North American Vertical Datum
NFIP	National Flood Insurance Program
NFPA	National Fire Protection Association
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NO ₂	nitrogen dioxide

NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NOP	Notice of Preparation
NOx	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRHP	National Register of Historic Places
NSDV	North Side Design Variation
NTD	National Transit Database
NWI	National Wetlands Inventory
O ₃	ozone
OAL	Office of Administrative Law
OCP	organochlorine pesticide
OCR	overhead conductor rail
OCS	overhead catenary system
ODE	Operating Design Earthquake
OFFROAD	Emissions Model for Off-road Equipment
OHWM	ordinary high water mark
OII	Operating Industries, Inc.
OIIWDG	Operating Industries, Inc. Work Defendants Group
Omega	Omega Chemical Corporation
OPR	Governor's Office of Planning and Research
OSHA	Occupational Safety and Health Administration
OU ₂	Operable Unit 2
Pb	lead

PCB	polychlorinated biphenyls
PCE	perchloroethylene
PFAS	Per- and Polyfluoroalkyl Substances
PFC	perfluorocarbon
PGA	peak ground acceleration
PHI	Points of Historical Interest
PHMSA	Pipeline and Hazardous Materials Safety Administration
PIH	Presbyterian Intercommunity Hospital
PM ₁₀	inhalable particulate matter or particulate matter with an aerodynamic diameter less than or equal to 10 micrometers
PM _{2.5}	fine particulate matter or particulate matter with an aerodynamic diameter less than or equal to 2.5 micrometers
ppmv	parts per million by volume
PRC	Public Resources Code
PROC	Process Supply
Project	Eastside Transit Corridor Phase 2 Project
PV	photovoltaic
Qls	landslide deposits
Qof	old alluvial fan deposits
Qw	wash deposits
Qya	young deposits of axial valley floors
Qyf	young alluvial fan deposits
RCRA	Resource Conservation and Recovery Act
REC-1	Water Contact Recreation
RHA	Rivers and Harbors Act
RMP	Risk Management Plan

RMS	Root Mean Square
ROG	reactive organic gases
ROP	Regional Occupational Program
ROW	right-of-way
RPS	Renewable Portfolio Standard
RSA	resource study area
RTAC	Regional Targets Advisory Committee
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SAFE	Safer Affordable Fuel-Efficient
SAFE Vehicles Rules	Safer Affordable Fuel-Efficient Vehicles Rule for Model Years 2021–2026 Passenger Cars and Light Trucks
SARA	Superfund Amendments and Reauthorization Act
SB	Senate Bill
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison
SCS	Sustainable Communities Strategy
SDC	Supplemental Seismic Design Criteria
SDWA	Safe Drinking Water Act
SEA	Significant Ecological Areas
SEL	sound exposure level
SF6	sulfur hexafluoride
SGMA	Sustainable Groundwater Management Act
SHPO	State Historic Preservation Officer

SIP	state implementation plan
SLF	Sacred Lands File
SLIC	Spills, Leaks, Investigations, and Cleanups
SMD	Sewer Maintenance Division
SO ₂	sulfur dioxide
SoCAB	South Coast Air Basin
SoCalGas	Southern California Gas Company
SOE	support of excavation
SO _x	sulfur oxides
SPaT	signal phase and timing
SR	State Route
SRA	Source-Receptor Area
SSCIC	South Central Coastal Information Center
SSMP	Sewer System Management Plan
SUSMP	Standard Urban Stormwater Mitigation Plan
SVE	soil vapor extraction
SVP	Society of Vertebrate Paleontology
SWIS	Solid Waste Information System
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminants
TBM	tunnel boring machine
TCE	trichloroethylene
TCP	Traditional Cultural Property
TCR	The Climate Registry

TCR	Tribal Cultural Resources
TDS	Total Dissolved Solids
TIP	Transportation Improvement Program
TMDL	Total Maximum Daily Load
TOC	transit oriented communities
TOD	transit-oriented development
TOG	total organic gases
TPSS	traction power substation
TSCA	Toxic Substances Control Act
Tsh	Tertiary shale and siltstone
Tss	Tertiary sandstone
TWW	Treated Wood Waste
U.S.	United States
U.S.C.	United States Code
UBC	Uniform Building Code
UPRR	Union Pacific Railroad
USACE	United States Army Corps of Engineers
USC	United States Code
USDOT	United States Department of Transportation
USEIA	United States Energy Information Administration
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	Underground Storage Tank
UWMP	Urban Water Management Plan

VdB	vibration decibels
VMT	vehicle miles traveled
VOC	volatile organic compounds
WARM	Warm Freshwater Habitat
WDR	Waste Discharge Requirement
WILD	Wildlife Habitat
WMP	Watershed Management Programs
WPA	Water and Power Associates
WRCC	Western Regional Climate Center
WRD	Water Replenishment District of Southern California
WSDM	Water Surplus and Drought Management Plan
ZEB	zero-emission bus
ZEV	zero-emission vehicle

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