

# Appendix F List of Acronyms

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°C	degrees Celsius
°F	degrees Fahrenheit
µg/L	micrograms/liter
µg/m <sup>3</sup>	micrograms per cubic meter
AADT	annual average daily traffic
AAQS	ambient air quality standards
AB	Assembly Bill
ac	acre/acres
ACMs	asbestos-containing materials
ACP	asbestos cement pipe
ADA	Americans with Disabilities Act
ADI	Area of Direct Impacts
ADL	Aerially Deposited Lead
ADT	average daily traffic
AFD	Anaheim Fire Department
ASHERA	Asbestos Hazard Emergency Response Act
AHS	American Housing Survey
Alternative 1	Add General-Purpose Lanes (GP Lanes Alternative)
Alternative 2	Add General-Purpose Lanes and Extend Express Lanes (GP + Express Lanes Alternative)
amsl	above mean sea level
APE	Area of Potential Effects
APN	Assessor's Parcel Number
APUD	Anaheim Public Utilities Department
AQMP	Air Quality Management Plan
ARB	California Air Resources Board
ARTBA	American Road and Transportation Builders Association
ASGCA	American Society of Golf Course Architects
ASR	Archaeological Survey Report
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
AT&T	AT&T/PacBell
AUSD	Alvord Unified School District
BACM	best available control measures
Basin	South Coast Air Basin
Basin Plan	Regional Water Quality Control Board Water Quality Control Plan

BAT/BCT	Best Available Technology (Economically Feasible)/Best Conventional Pollutant Control Technology
bgs	below ground surface
BMPs	best management practices
BNSF	Burlington Northern Santa Fe
BSA	biological study area
BTU	British thermal unit
BUOW	burrowing owl
C <sub>2</sub> F <sub>6</sub>	hexafluoroethane
CAA	Clean Air Act
CaCO <sub>3</sub>	calcium carbonate
CAGN	California gnatcatcher
CAL FIRE	California Department of Forestry and Fire Protection
Cal/EPA	California Environmental Protection Agency
California Register	California Register of Historical Resources
Cal-IPC	California Invasive Plant Council
Cal-OSHA	California Division of Occupational Safety and Health Administration
Caltrans	California Department of Transportation
CASSA	Criteria Area Species Survey Area
CCAA	California Clean Air Act
CCP	Construction Contingency Plan
CCR	California Code of Regulations
CDFG	California Department of Fish and Game
CDMG	California Department of Mines and Geology
CE/CE	Categorical Exemption/Categorical Exclusion
CEC	California Energy Commission
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CERFA	Community Environmental Response Facilitation Act
CESA	California Endangered Species Act
CETAP	Community and Environmental Transportation Acceptability Process
CF <sub>4</sub>	tetrafluoromethane
CFD	Corona Fire Department
CFR	Code of Federal Regulations
cfs	cubic feet per second
CGS	California Geological Survey

CGV	Compass Growth Vision
CH <sub>4</sub>	methane
CHP	California Highway Patrol
CHSP	Chino Hills State Park
CIA	<i>Community Impact Assessment</i>
CIDH	cast in drilled hole
CIP	Corridor Improvement Project
CMP	Contaminant Management Plan
CNDDDB	California Natural Diversity Database
CNF	Cleveland National Forest
CNPS	California Native Plant Society
CNUSD	Corona-Norco Unified School District
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
COLD	cold freshwater habitat
Corps	United States Army Corps of Engineers
COZEPP	Construction Zone Enhanced Enforcement Program
CPA	Consumer Power and Conservation Financing Authority
CPTC	California Private Transportation Company
CPUC	California Public Utilities Commission
CSC	Customer Service Center
CSS	coastal sage scrub
CVC	California Vehicle Code
CWA	Clean Water Act
CZMA	Coastal Zone Management Act of 1972
dB	decibels
dBA	A-weighted decibels
dbh	diameter at breast height
DEH	Riverside County Department of Environmental Health
Department	California Department of Transportation
Department Master Plan	<i>215/91 Landscape Corridor Master Plan</i>
DHHS	Department of Health and Human Services
DOI	United States Department of Interior
DOT	United States Department of Transportation
DPM	diesel particulate matter plus diesel exhaust organic gases
DRIR	<i>Draft Relocation Impact Report</i>
DSA	Disturbed Soil Area
DSA	Department of Toxic Substances Control
DUs	dwelling units
EA	Environmental Assessment

ECR	Environmental Commitments Record
EDR	Environmental Database Report
EIR	Environmental Impact Report
EIR/EIS	Environmental Impact Report/Environmental Impact Statement
EIS	Environmental Impact Statement
El.	elevation
EO	Executive Order
EOS	edge of shoulder
EPA	United States Environmental Protection Agency
ESAs	Environmentally Sensitive Areas
ESL	English as a Second Language
ETC	electronic toll collection
FAQ	Frequently Asked Question
FEIR	Final Environmental Impact Report
FEIS	Final Environmental Impact Statement
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHA	Federal Housing Administration
FHWA	Federal Highway Administration
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FIRMs	Flood Insurance Rate Maps
FMMP	Farmland Mapping and Monitoring Program
FONSI	Findings of No Significant Impact
FPPA	Farmland Protection Policy Act
FSTIP	Federal Statewide Transportation Improvement Program
ft	feet/foot
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Program
GHG	greenhouse gas
GIS	geographic information system
GMA <sub>s</sub>	Growth Management Areas
GMC	Growth Management Chapter
GP	general-purpose (lane)
ha	hectare(s)
HASP	Health and Safety Plan
HCM	<i>Highway Capacity Manual</i>
HCP	Habitat Conservation Plan
HCS	Highway Capacity Software
HEC-RAS	Hydrologic Engineering Center River Analysis System
HEI	Health Effects Institute

HFC-134a	s,s,s,2-tetrafluoroethane
HFC-152a	difluoroethane
HFC-23	fluoroform
HFCs	hydrofluorocarbons
HMMP	Habitat Mitigation and Monitoring Plan
HOT	high-occupancy toll
HOV	high-occupancy vehicle
HPSR	Historic Property Survey Report
HRER	Historical Resources Evaluation Report
HUD	Department of Housing and Urban Development
I-110	Interstate 110
I-15	Interstate 15
I-215	Interstate 215
I-5	Interstate 5
IEOC	Inland Empire-Orange County
IEPR	Integrated Energy Policy Report
in	inch/inches
in/yr	inches per year
IPCC	Intergovernmental Panel on Climate Change
IRIS	Integrated Risk Information System
IS	Initial Study
ISA	<i>Initial Site Assessment</i>
JPARP	Joint Project Acquisition/Review Process
JTU	Jackson turbidity units
kV	kilovolt
kWh	kilowatt-hour(s)
L&WCF	Land and Water Conservation Fund
LACM	Natural History Museum of Los Angeles County
LBP	lead-based paint
LBV	least Bell's vireo
LDV	light-duty vehicle
L <sub>eq</sub>	equivalent noise level
L <sub>eq</sub> (h)	equivalent continuous noise level over a specified period of time
LHS	Location Hydraulic Study
LOMR	Letter of Map Revision
LOS	levels of service
LPA	Locally Preferred Alternative
LPS	Locally Preferred Strategy
LUST	leaking underground storage tank
MA	metropolitan area

Master Plan	<i>215/91 Landscape Corridor Master Plan</i>
MBTA	Migratory Bird Treaty Act
MCE	Maximum Credible Earthquake
MCP	Mid County Parkway
MDP	Master Drainage Plan
mg/L	milligrams per liter
mi	miles
MIS	Major Investment Study
MIS Corridor	Riverside County-Orange County MIS Corridor
mL	milliliters
MLD	Most Likely Descendant
M <sub>max</sub>	maximum moment magnitude
MND	Mitigated Negative Declaration
MOU	Memorandum of Understanding
mpg	miles per gallon
mph	miles per hour
MPO	Metropolitan Planning Organization
MRZ	Mineral Resources Zone
MS4	Municipal Separate Storm Sewer System
MSAT	Mobile Source Air Toxics
MSHCP	Multiple Species Habitat Conservation Plan
MTBE	methyl tertiary-butyl ether
MUN	municipal water supply
MUTCD	<i>Manual on Uniform Traffic Control Devices</i>
mya	million years ago
N	nitrogen
N <sub>2</sub> O	nitrous oxide
NAAQS	national ambient air quality standards
NAC	noise abatement criteria
NADR	<i>Noise Abatement Decision Report</i>
NAHC	Native American Heritage Commission
NATA	National Air Toxics Assessment
National Register	National Register of Historic Places
NB	Noise Barrier
NCCP	Natural Communities Conservation Plan
NCHRP	National Cooperative Highway Research Program
ND	Negative Declaration
NEPA	National Environmental Policy Act
NEPSSA	Narrow Endemic Plant Species Survey Area
NES	<i>Natural Environment Study</i>

New OC Park (NNL)	New Orange County Park (National Natural Landmark)
NFD	City of Norco Fire Department
NH <sub>3</sub> -N	ammonia nitrogen
NHPA	National Historic Preservation Act of 1966
NNL	National Natural Landmark
NO <sub>2</sub>	nitrogen dioxide
NO <sub>3</sub>	nitrate
NOA	naturally occurring asbestos
NOAA	National Oceanic and Atmospheric Administration
NOD	Notice of Determination
NOI	Notice of Intent
NOP	Notice of Preparation
NOT	Notice of Termination
NO <sub>x</sub>	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NSR	<i>Noise Study Report</i>
NTU	nephelometric turbidity units
O <sub>3</sub>	ozone
OC	Orange County
OC Parks	Orange County Parks
OCFA	Orange County Fire Authority
OCFCD	Orange County Flood Control District
OCHCA	Orange County Health Care Agency
OCPW	Orange County Public Works
OCSD	Orange County Sheriff's Department
OCTA	Orange County Transportation Authority
OCTAM	Orange County Transportation Analysis Model
OCWD	Orange County Water District
OHWM	ordinary high water mark
OSHA	Occupational Safety and Health Act
PA	Programmatic Agreement
PA&ED	Project Approval and Environmental Document
PAC	Public Information/Public Awareness Campaign
PAH	polycyclic aromatic hydrocarbons
Pb	lead
pc/mi/ln	passenger cars per mile per lane
PCBs	polychlorinated biphenyls
PCE	perchloroethylene

pCi/L	picocuries per liter
PCL	Proposed Constrained Linkage
PDF	Project Design Feature
PDPM	<u>Project Development and Procedures Manual</u>
PDT	Project Development Team
PeMS	Performance Monitoring System
PFCs	perfluorocarbons
pH	percentage of hydrogen
Phase I ESA	Phase I Environmental Site Assessment
PM	Post Mile
PM <sub>10</sub>	particulate matter less than 10 microns in size
PM <sub>2.5</sub>	particulate matter less than 2.5 microns in size
PMP	<i>Paleontological Mitigation Plan</i>
PMR	<i>Paleontological Mitigation Report</i>
PNA <sub>s</sub>	polynuclear aromatic hydrocarbons
POAQC	project of air quality concern
POM	polycyclic organic matter
Porter-Cologne Act	Porter-Cologne Water Quality Control Act
ppm	parts per million
PR/ED	Project Report/Environmental Document
PRC	Public Resources Code
Protocol	(Department) Transportation Project-Level Carbon Monoxide Protocol
PS&E	Plans, Specifications and Estimates
psig	pounds per square inch gauge
PSR/PDS	Project Study Report/Project Development Support
PYLUSD	Placentia-Yorba Linda Unified School District
QA/QC	quality assurance/quality control
RAP	Relocation Assistance Program
RARE	Rare, Threatened, or Endangered Species
RCA	Regional Conservation Authority
RCB	reinforced concrete box
RCCHA	Riverside County Community Health Agency
RCFC&WCD	Riverside County Flood Control and Water Conservation District
RCFD	Riverside County Fire Department
RCP	Regional Comprehensive Plan
RCPG	Regional Comprehensive Plan and Guide
RCRA	Resource Conservation and Recovery Act of 1976
RCSD	Riverside County Sheriff's Department
RCTC	Riverside County Transportation Commission



REC1	Water Contact Recreation
REC2	Noncontact Water Recreation
RECs	Recognized Environmental Concerns
Resources Agency	California Resources Agency (now Natural Resources Agency)
RMM	Riverside Municipal Museum
ROD	Record of Decision
ROGs	reactive organic gases
RSA	resource study area
RTA	Riverside Transit Agency
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan
RUSD	Riverside Unified School District
RV	recreational vehicle
RWQCB	Regional Water Quality Control Board
SAFETEA-LU	Safe, Accountable, Flexible, and Efficient Transportation Equity Act: A Legacy for Users
SARI	Santa Ana Regional Interceptor
SAWA	Santa Ana Water Association
SAWPA	Santa Ana Watershed Project Authority
SB 1316	Senate Bill 1316
SBCM	San Bernardino County Museum
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison Company
SCG	Southern California Gas Company
SCH	State Clearinghouse
SCRRA	Southern California Regional Rail Authority
SEA	Supplemental Environmental Assessment
SEIS	Supplemental Environmental Impact Statement
SER	Standard Environmental Reference
sf	square foot/feet
SF <sub>6</sub>	sulfur hexafluoride
SHPO	State Historic Preservation Officer
SHS	State Highway System
SIP	State Implementation Plan
SJBL	San Jacinto Branch Line
SKR	Stephens' kangaroo rat
SKR HCP	Stephens' Kangaroo Rat Habitat Conservation Plan
SLF	Sacred Lands File
SMGB	State Mining and Geology Board

SO <sub>2</sub>	sulfur dioxide
SOC	Statement of Overriding Considerations
SOI	Sphere of Influence
SO <sub>x</sub>	sulfur oxide
SPWN	Spawning Habitat (beneficial use)
sq mi	square miles
SR-1	State Route 1
SR-55	State Route 55
SR-57	State Route 57
SR-60	State Route 60
SR-71	State Route 71
SR-74	State Route 74
SR-79	State Route 79
SR-91	State Route 91
SR-133	State Route 133
SR-241	State Route 241
SSP	Standard Special Provisions
Sta.	Station
State Parks	State Parks Department
STIP	State Transportation Improvement Program
SVP	Society of Vertebrate Paleontology
SWDR	Storm Water Data Report
SWMP	Storm Water Management Plan
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
SWWF	southwestern willow flycatcher
TCA	Transportation Corridor Agencies
TCAP	Temescal Canyon Area Plan
TCEs	temporary construction easements
TCWG	Transportation Conformity Working Group
TDM	Transportation Demand Management
TDS	total dissolved solids
TIFIA	Transportation Infrastructure Finance and Innovation Act
TIGAR	The Inland Gateway Association of Realtors
TMDL	total maximum daily load
TMP	Transportation Management Plan
TNM	Traffic Noise Model
TOC	Toll Operations Center
TOG	total organic gas
TPH-g	total petroleum hydrocarbons gasoline

TSCA	Toxic Substances Control Act
TSM	Transportation Systems Management
TSS	total suspended solids
UCL	upper confidence limit
UCMP	University of California, Berkeley Museum of Paleontology
Uniform Act	Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970
USA	Underground Service Alert
USC	United States Code
USDA	United States Department of Agriculture
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	underground storage tank
v/c	volume-to-capacity (ratio)
VA	Value Analysis
VCP	vitriified clay pipe
VHD	vehicle hours of delay
VHT	vehicle hours traveled
VIA	<i>Visual Impact Assessment</i>
VMT	vehicle miles traveled
vpd	vehicles per day
vph	vehicles per hour
vplph	vehicles per lane per hour
WARM	Warm Freshwater Habitat
WILD	Wildlife Habitat
WPCP	Water Pollution Control Plan
WRCOG	Western Riverside County Organization of Governments
ZEV	zero emission vehicle

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