

15 ACRONYMS AND ABBREVIATIONS

Since publication of the Draft Environmental Impact Report (EIR)/Environmental Impact Statement (EIS), the following acronyms and abbreviations have been added to this chapter: BDPA, C/CAG San Mateo County, COPD, eGRID, ESU, EVP, Google Project, I-ETMS, MBARD, MBUAPCD, NCCAB, NOC, NZE, OU-SM, OU-2, PMFA, Procedures, SAFE Vehicles Rule, SAR, SFPD, SJVAB, SQL, UWMP, and ZE.

This list of acronyms and abbreviations identifies and defines common terms used in the San Francisco to San Jose Project Section Final EIR/EIS. In a few instances, the same acronym or abbreviation will pertain to multiple terms. These are resource-specific instances, and multiple terms are not abbreviated the same way in any give section or chapter. Acronyms and abbreviations in this chapter are presented alphabetically, beginning with symbols and numbers.

°C degrees Celsius

°F degrees Fahrenheit

μg/m³ micrograms per cubic meter

μin/sec microinch per second

μT microtesla

1987 Manual Corps of Engineers Wetlands Delineation Manual

2005 Statewide Final Final Program Environmental Impact Report/Environmental Impact Program EIR/EIS Statement for the Proposed California High-Speed Train System

2008 Bay Area to Central Bay Area to Central Valley High-Speed Train Final Program
Valley Program EIR/EIS Environmental Impact Report/ Environmental Impact Statement

2012 Business Plan California High-Speed Rail Program Revised 2012 Business Plan

2016 Business Plan California High-Speed Rail Program 2016 Business Plan:

Connecting and Transforming California

2018 Business Plan California High-Speed Rail Program 2018 Business Plan:

Connecting California, Expanding Economy, Transforming Travel

AA assessment area

AAQA ambient air quality analysis

AASHTO American Association of State Highway and Transportation Officials

AB (California) Assembly Bill

AB 32 Scoping Plan Climate Change Scoping Plan

ABAG Association of Bay Area Governments

AC alternating current

AC Transit Alameda–Contra Costa County Transit District

ACE Altamont Corridor Express

ACGIH American Conference of Governmental Industrial Hygienists

ACHP Advisory Council on Historic Preservation

ACLUP airport comprehensive land use plan

ACM asbestos-containing materials
ACS American Community Survey
ADA Americans with Disabilities Act



ADL aerially deposited lead ADT average daily traffic

AEDT (Federal Aviation Administration) Aviation Environmental Design

Tool

AGR agricultural water supply
AIA airport influence area
ALS Advanced Life Support

AMR American Medical Response

ANSI American National Standards Institute

APE area of potential effect

APLIC Avian Power Line Interaction Committee

APN Assessor's Parcel Number
APS alternative planning strategy

AREMA American Railway Engineering and Maintenance-of-Way

Association

ASCE American Society of Civil Engineers

ASR Archaeological Survey Report

ASTM American Society for Testing and Materials

ATC automatic train control

ATOR above top of rail

ATP archaeological treatment plan

Authority California High-Speed Rail Authority

AWSS auxiliary water supply system

BA biological assessment

BAAQMD Bay Area Air Quality Management District

BART Bay Area Rapid Transit

Basin Plan Water Quality Control Plan

Bay Area San Francisco Bay Area

Bay Trail San Francisco Bay Trail

BCDC San Francisco Bay Conservation and Development Commission

Bcf billion cubic feet

BDPA Bay-Delta Plan Amendment

BEMP built environment monitoring plan

BETP built environment treatment plan

BFE base flood elevation
bgs below ground surface
BLS Basic Life Support



BMP best management practice

BNSF Railway (formerly Burlington Northern and Santa Fe Railroad)

BO biological opinion
BPT benefit per ton

BRMP biological resources management plan

BRT bus rapid transit
Btu British thermal unit

C&D construction and demolition
C.F.R. Code of Federal Regulations

C/CAG San Mateo

County

City/County Association of Governments of San Mateo County

CAA Clean Air Act

CAAQS California ambient air quality standards

CAFE Corporate Average Fuel Economy

CAL FIRE California Department of Forestry and Fire Protection

Cal OES California Office of Emergency Services

Cal. Code Regs. California Code of Regulations
Cal. Fish and Game Code
Cal. Gov. Code California Government Code

Cal. Public Res. Code California Public Resources Code
CalEEMod California Emissions Estimator Model

Cal-EPA California Environmental Protection Agency
Cal-ISO California Independent System Operator

Cal-OSHA California Occupational Safety and Health Administration
CalRecycle California Department of Resources Recycling and Recovery

Caltrans California Department of Transportation

CAP climate action plans

CARB California Air Resources Board
CAS California Academy of Sciences
CBA Community Benefits Agreement

CBC California Building Code

CBOE California (State) Board of Education

CCC central California coast

CCED California Conservation Easement Database
CDFG California Department of Fish and Game
CDFW California Department of Fish and Wildlife
CDMG California Division of Mines and Geology



CDOF California Department of Finance

CDP census-designated place

CDPH California Department of Public Health

CEC California Energy Commission
CED California Energy Demand

CEDD California Employment Development Department

CEMOF Centralized Equipment Maintenance and Operations Facility

Center Maritime Eco-Industrial Center
CEQ Council on Environmental Quality
CEQA California Environmental Quality Act

CERCLA Comprehensive Environmental Response, Compensation, and

Liability Act

CESA California Endangered Species Act

CGP Construction General Permit
CGS California Geological Society

CH₄ methane

CHP California Highway Patrol

CHRIS California Historic Resources Information System

CIP cast-in-place

CLUP comprehensive land use plan
CMP compensatory mitigation plan
CMP construction management plan

CNDDB California Natural Diversity Database
CNEL community noise equivalent level
CNPS California Native Plant Society

CNPS Online Inventory CNPS Online Inventory of Rare and Endangered Plants of California

CNRA California Natural Resources Agency

CO carbon monoxide

CO Protocol Transportation Project-Level Carbon Monoxide Protocol

CO₂ carbon dioxide

CO2e carbon dioxide equivalent
COG council of governments
COLD cold freshwater habitat

COMM commercial and sport fishing

COPD chronic obstructive pulmonary disease

CORA Community Overcoming Relationship Abuse

CP control point



CP construction package

CPAD California Protected Areas Database

CPCN certificate of public convienence and necessity

CPUC California Public Utilities Commission
CRAM California Rapid Assessment Method

CRHR California Register of Historical Resources

CRPR California Rare Plant Rank
CSE countywide siting element
CSRP Final California State Rail Plan

CT computed tomography

CTP construction transportation plan
CTP 2040 California Transportation Plan 2040
CUPA Certified Unified Program Agency

CWA Clean Water Act

CWG community working group

CWHR System California Wildlife Habitat Relationships Habitat Classification

Scheme

CZMA Coastal Zone Management Act

dB decibel

dBA A-weighted decibel

DC direct current

DDT dichlorodiphenyl-trichloroethane

DDV Diridon Design Variant

DOGGR (California) Division of Oil, Gas, and Geothermal Resources

DPM diesel particulate matter

DPR California Department of Parks and Recreation

DPS distinct population segment

DTSC California Department of Toxic Substances Control

DTX Downtown Rail Extension

DWR California Department of Water Resources
ECOS Environmental Conservation Online System

EFH essential fish habitat

EGPR Environmental Goals and Policy Report

eGRID Emissions and Generation Resource Integrated Database

EIA U.S. Energy Information Administration

EIR environmental impact report
EIS environmental impact statement



ELF extremely low frequency

EM electromagnetic

EMC electromagnetic compatibility

EMCPP Electromagnetic Compatibility Program Plan

EMF electromagnetic fields
EMFAC emission factors model

EMI electromagnetic interference

EMMA Environmental Mitigation Management and Assessment system

EMR electromagnetic radiation

EMS emergency medical services

EMU electric multiple unit

EO (California) Executive Order
ESA environmentally sensitive area
ESA environmental site assessment

EST estuarine habitat

ESU evolutionarily significant unit

EVP emergency vehicle preemption

FAA Federal Aviation Administration

FAR Federal Aviation Regulations

FAST Act Fixing America's Surface Transportation Act

FBI Federal Bureau of Investigation

FCC Federal Communications Commission

Fed. Reg. Federal Register

FEMA Federal Emergency Management Agency
FERC Federal Energy Regulatory Commission

FESA federal Endangered Species Act
FHWA Federal Highway Administration

FHZ flood hazard zone

FIRM Flood Insurance Rate Map

FIS flood insurance study

FLSSC Fire and Life Safety and Security Committee

FOE finding of effect

Footprint Report Technical Memorandum EIR/EIS Assessment of California High-

Speed Train Alignment Electromagnetic Field Footprint

Foundation Bay Area Clean Air Foundation
FRA Federal Railroad Administration



FRA guidance manual High-Speed Ground Transportation Noise and Vibration Impact

Assessment

FRSH freshwater replenishment

FTA Federal Transit Administration

FY fiscal year G Gauss

g/L grams per liter

GHAD geologic hazard abatement district

GHG greenhouse gas

GHz gigahertz

GIS geographic information system

GO General Order

Gov. Code (California) Government Code

gpd gallons per day

Google Project Downtown West Mixed-Use Plan

GPS global position system

Greenprint Santa Clara Valley Greenprint

GWP Global Warming Potential
GWR groundwater recharge

H + T housing plus transportation

HABS Historic American Buildings Survey
HAER Historic American Engineering Record
HALS Historic American Landscape Survey

HAP hazardous air pollutant

HASR Historic Architectural Survey Report

HCP habitat conservation plan

HEC-RAS Hydrologic Engineering Center's River Analysis System

HMBP hazardous materials business plan

HMF heavy maintenance facility

HOT high-occupancy toll

Hot Spots Act Air Toxics "Hot Spots" Information and Assessment Act

HOV high-occupancy vehicle
HRA health risk assessment

HSR high-speed rail
HTL high tide line

HUC hydrologic unit code

Hz Hertz



I- Interstate

I-ETMS Interoperable Electronic Train Management System

I/O Input-Output

IAMF impact avoidance and minimization feature

IBC International Building Code

ICNIRP International Commission on Non-Ionizing Radiation Protection

IEEE Institute of Electrical and Electronics Engineers

IGP Industrial General Permit
IND industrial service supply

NEPA Documents

IPM integrated pest management

ISEP CHSTP Implementation Stage Electromagnetic Compatibility

Program Plan

JPA Joint Powers Authority

K kindergarten kHz kilohertz kV kilovolt

kV/m kilovolts per meter
kVA kilovolt-ampere
KVP key viewpoint

L/kg liters per kilogram

LAX Los Angeles International Airport

LBP lead-based paint

L_{dn} day-night sound level, dBA

LEDPA least environmentally damaging practicable alternative

LEED Leadership in Energy and Environmental Design

LEP limited English proficiency L_{eq} equivalent sound level, dBA

L_{eq}(h) hourly equivalent sound level, dBA

 $\begin{array}{lll} \text{LID} & & \text{low-impact development} \\ L_{\text{max}} & & \text{maximum sound level} \\ \text{LMF} & & \text{light maintenance facility} \\ L_{\text{min}} & & \text{minimum sound level} \end{array}$

LOS level of service

LPMG local policy maker group

LRFD load and resistance factor design



LRT light rail transit

LSA lake and streambed alteration

LSR line source response L_v velocity level, VdB

LWCF Land and Water Conservation Fund

Magnuson-Stevens Act Magnuson-Stevens Fisheries Conservation and Management Act

Management Program Management Program for the San Francisco Bay Segment of the

California Coastal Zone

MAP-21 Moving Ahead for Progress in the 21st Century

MBARD Monterey Bay Air Resources District

MBUAPCD Monterey Bay Unified Air Pollution Control District

MBTA Migratory Bird Treaty Act

Metro Los Angeles County Metropolitan Transportation Authority

mG milligauss mg milligrams

mg/m³ milligrams per cubic meter mgd million gallon(s) per day

MHW mean high water

MHz megahertz
MIGR fish migration

MLD most likely descendant MM mitigation measure

MMBtu million British thermal units

MMcf million cubic feet
MMT million metric tons

MOA memorandum of agreement

MOU memorandum of understanding

MOVES Motor Vehicle Emission Simulator

MP milepost

MPE maximum permissible exposure

mpg miles per gallon mph miles per hour

MPO metropolitan planning organization

MRI magnetic resonance imaging MRP Municipal Regional Permit

MRZ mineral resource zone

MS4 municipal separate storm sewer system



MSASP Millbrae Station Area Specific Plan

MSAT mobile source air toxics

MT main track

MTC Metropolitan Transportation Commission

MUNI San Francisco Municipal Railway

MW megawatt N_2O nitrous oxide

NAAQS national ambient air quality standards

NAC noise abatement criteria

NAGPRA Native American Grave Protection and Repatriation Act

NAHC Native American Heritage Commission

NAICS North American Industry Classification System

NAL numeric action level

NAV navigation

NAVD North American Vertical Datum

NBA National Basketball Association

NCCAB North Central Coast Air Basin

NCCP natural community conservation plan

NCCPA Natural Community Conservation Planning Act

NEPA National Environmental Policy Act

NF negative feeder wire

NFIP National Flood Insurance Program
NFPA National Fire Protection Association

NHL National Historic Landmark

NHL National Hockey League

NHPA National Historic Preservation Act

NHTSA National Highway Traffic Safety Administration

NMFS National Marine Fisheries Service

NMR nuclear magnetic resonance

NO nitric oxide

NO₂ nitrogen dioxide

NOA naturally occurring asbestos

NOA Notice of Availability
NOC notice of completion
NOD Notice of Determination

NOI Notice of Intent

NOP Notice of Preparation

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California High-Speed Rail Authority



NO_X nitrogen oxides

NPDES National Pollutant Discharge Elimination System

NPPA California Native Plant Protection Act

NPS National Parks Service

NRCS Natural Resources Conservation Service

NRHP National Register of Historic Places

NSR New Source Review
NZE near-zero emission

O&M operations and maintenance

 O_3 ozone

OAK Metropolitan Oakland International Airport

OCP organochlorine pesticides
OCS overhead contact system

OEHHA Office of Environmental Health Hazard Assessment

OHWM ordinary high water mark

OPR California Office of Planning and Research
OSHA Occupational Safety and Health Administration

OU-SM Operable Unit San Mateo

OU-2 Operable Unit 2

Outreach Plan San Francisco to San Jose Project Section Environmental Justice

Outreach Plan

OWJ official(s) with jurisdiction
PA programmatic agreement

PAA Preliminary Alternatives Analysis
PAH polycyclic aromatic hydrocarbons

Pb lead

PBF physical or biological feature
PCB polychlorinated biphenyl
PCE primary constituent element

PCEP Caltrain Peninsula Corridor Electrification Project

PCJPB Peninsula Corridor Joint Powers Board

PEC potential environmental concern
PED OC pedestrian overhead crossing
PEM palustrine emergent wetlands

PEMC palustrine emergent seasonally flooded

Peninsula San Francisco Peninsula

PFMC Pacific Fishery Management Council



PG&E Pacific Gas and Electric Company

PHA preliminary hazard analysis

PI principal investigator

PJD preliminary jurisdictional determination

PL Public Law

PM particulate matter

PM₁₀ particulate matter smaller than or equal to 10 microns in diameter PM_{2.5} particulate matter smaller than or equal to 2.5 microns in diameter

PMFA Project Management and Funding Agreement

Porter-Cologne Act Porter-Cologne Water Quality Control Act

PPD pounds per day

PPV peak particle velocity

PRIIA Passenger Rail Investment and Improvement Act

PRM paleontological resources monitor

PRMMP paleontological resource monitoring and mitigation plan

Procedures Procedures for Discharges of Dredged or Fill Material to Waters of

the State

Project Section, project San Francisco to San Jose Project Section

Prop 1A Proposition 1A, The Safe, Reliable, High-Speed Passenger Train

Bond Act

Prop K Expenditure Plan Proposition K, The New Transportation Expenditure Plan for San

Francisco

PRS paleontological resources specialist

PTC positive train control

PUB palustrine unconsolidated bottom
QSD Qualified SWPPP Developer
QSP Qualified SWPPP Practitioner

RAP removal action plan

Rapanos Rapanos-Carabell consolidated decisions
RARE habitat for rare and endangered species
RCRA Resource Conservation and Recovery Act

REC-1 water recreation—contact
REC-2 water recreation—non-contact

Regional Rail Plan San Francisco Bay Area Regional Rail Plan

RF radio frequency

RFQ request for qualifications
RHA Rivers and Harbors Act

RHNA regional housing need allocation

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California High-Speed Rail Authority



RIMS II Regional Input-Output Modeling System II

RMS root-mean-square
ROD Record of Decision
ROG reactive organic gas

RPA Refined Program Alignment
RPS Renewables Portfolio Standard
RPW relatively permanent waters

RRP restoration and revegetation plan

RSA resources study area

RTP regional transportation plan

RWQCB Regional Water Quality Control Board

RWS Regional Water System

SAFE Vehicles Rule Safer Affordable Fuel-Efficient Vehicles Rule

SAMCEDA San Mateo County Economic Development Association

SamTrans San Mateo County Transit District

SAR standalone radio

SB (California) Senate Bill

SBWR South Bay Water Recycling

SCAQMD South Coast Air Quality Management District

SCC standard cost category

SCS sustainable community strategy
SCVHA Santa Clara Valley Habitat Agency
SCVHP Santa Clara Valley Habitat Plan

SCVOSA Santa Clara Valley Open Space Authority

SCVWD Santa Clara Valley Water District

SEL sound exposure level, dBA

SEL_{ref} sound exposure level reference

SEPP security and emergency preparedness plan

SF₆ sulfur hexafluoride

SFBAAB San Francisco Bay Area Air Basin

SFCTA San Francisco County Transportation Authority

SFE City and County of San Francisco Department of the Environment

SFMTA San Francisco Municipal Transportation Agency

SFO San Francisco International Airport
SFPD San Francisco Planning Department
SFPP San Francisco Products Pipeline

SFPUC San Francisco Public Utilities Commission



SFTC Salesforce Transit Center

SFTP San Francisco Transportation Plan

SGMA Sustainable Groundwater Management Act

SHELL shellfish harvesting

SHPO State Historic Preservation Officer

SIL significant impact level
SIP state implementation plan
SIP state implementation plan

SJC Norman Y. Mineta San Jose International Airport

SJRRC San Joaquin Regional Rail Commission

SJVAB San Joaquin Valley Air Basin

SJVAPCD San Joaquin Valley Air Pollution Control District

SJMWS San Jose Municipal Water System

SJWC San Jose Water Company

SMCWPPP San Mateo Countywide Water Pollution Prevention Program

SNAP Supplemental Nutrition Assistance Program

SO₂ sulfur dioxide

SOI Secretary of the Interior

SoMa South of Market

SOQ statement of qualifications

SO_X sulfur oxides

SPRR Southern Pacific Railroad

SPUR San Francisco Bay Area Planning and Urban Research Association

SPWN fish spawning sq. ft. square feet

SQL San Carlos Airport

SR State Route

SSMP safety and security management plan

SSP system safety program

SSPP system safety program plan

SST-FD seismic specialists team-fault displacement

Statewide Program Final Program EIR/EIS for the Proposed California High-Speed

EIR/EIS Train System

STB Surface Transportation Board

SVAWPC Silicon Valley Advanced Water Purification Center

SVP Silicon Valley Power

SVP Society of Vertebrate Paleontology

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SWPPP stormwater pollution prevention plan
SWRCB State Water Resources Control Board

T Tesla

TAC toxic air contaminant

TAIP Terminal Area Improvement Program

Tanner Act Toxic Air Contaminant Identification and Control Act

TCE temporary construction easement

TCP traditional cultural property

TEAMC Transportation Equity Allied Movement Coalition

TERPS terminal instrument procedures

TGV Train à Grande Vitesse (French high-speed train)

THPO Tribal Historic Preservation Officer
TIP transportation improvement program
TJPA Transbay Joint Powers Authority

TM technical memorandum

TMDL total maximum daily load

TNW traditional navigable water

TOD transit-oriented development

TPF traction power facility
TPSS traction power substation
TRA trackage rights agreement

TSA Transportation Security Administration
TVA threat and vulnerability assessment

TWG technical working group

UCERF3 Third Uniform California Earthquake Rupture Forecast

UCMP University of California Museum of Paleontology

UCSF University of California, San Francisco

Uniform Act Uniform Relocation Assistance and Real Property Acquisition

Policies Act

UPRR Union Pacific Railroad

U.S. Highway

USACE U.S. Army Corps of Engineers

U.S.C. United States Code

USCS Unified Soil Classification System
USDA U.S. Department of Agriculture
USDOI U.S. Department of the Interior
USDOT U.S. Department of Transportation



USEO U.S. Presidential Executive Order

USEPA U.S. Environmental Protection Agency

USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey

UST underground storage tanks

UWMP Urban Water Management Plan

Valley-to-Valley Line Silicon Valley to Central Valley Line

V/C volume to capacity

VCP vegetation control plan

VdB vibration decibel(s)

VegCAMP Vegetation Classification and Mapping Program

VHS very high-speed V/m volts per meter

VMT vehicle miles traveled

VOC volatile organic compound

VTA Santa Clara Valley Transportation Authority

VTP 2040 Valley Transportation Plan 2040: The Long-Range Transportation

Plan for Santa Clara County

W watt

WARM warm freshwater habitat

WCP weed control plan

WDR water discharge requirement

WEAP workers environmental awareness program

WER wildlife exclusion fencing
WER watershed evaluation report

WestCAT Western Contra Costa County Transit Authority

WETA San Francisco Bay Area Water Emergency Transportation Authority

WETS Tables Climate Analysis for Wetlands Tables

WHO World Health Organization

WHSRN Western Hemisphere Shorebird Reserve Network

WILD wildlife habitat
WiFi wireless fidelity

WSIP water system improvement program

WWTP wastewater treatment plant

ZE zero emission