Acronyms and Abbreviations

°C degrees Celsius

°F degree(s) Fahrenheit

μg/g microgram(s) per gram μmhos/cm micromhos per centimeter

2016 Basin Plan Sacramento and San Joaquin Rivers Basin Study

AASHTO American Association of State Highway and Transportation Officials

AB Assembly Bill

ACM asbestos-containing material

ACEEE American Council for an Energy-Efficient Economy

ADA Americans with Disabilities Act

AEWSD Arvin Edison Water Storage District

af/yr acre feet per year

APCD Air Pollution Control District

AQMP Air Quality Management Plan

ARB Air Resources Board

ARP Archaeological Research Program

AST aboveground storage tank

ASTM American Society for Testing and Materials

Authority Sites Project Authority

B.P. before present

BAAQMD Bay Area Air Quality Management District

BACT best available control measure

BANC Balancing Authority of Northern California BAWQM Bay Area Water Quality Economics Model

BBL Environmental Information

BCDC Bay Conservation and Development Commission

BDCP Bay Delta Conservation Plan

BEA U.S. Bureau of Economic Analysis

BES Bulk Electric System bgs below ground surface

BLM Bureau of Land Management
BMP best management practices
BSA Broader Sacramento Area
C&LRR Colusa & Lake Railroad

CAA Clean Air Act

CAAQS California Ambient Air Quality Standard
CAISO California Independent System Operator

CAL FIRE California Department of Forestry and Fire Prevention Protection

CalEPA California Environmental Protection Agency

CALFED Bay-Delta Program
Cal-IPC California Invasive Plant Council

Caltrans California Department of Transportation

CAPCOA California Air Pollution Control Officers Association
CASGEM California Statewide Groundwater Elevation Monitoring

CBD Colusa Basin Drain
CCAA California Clean Air Act

CCAPCD Colusa County Air Pollution Control District

CCP Comprehensive Conservation Plan
CCR California Code of Regulations
CCSB Cache Creek Settling Basin
CCWD Contra Costa Water District

CDFA California Department of Food and Agriculture
CDFW California Department of Fish and Wildlife
CDPH California Department of Public Health

CEC California Energy Commission
CEQ Council on Environmental Quality
CEQA California Environmental Quality Act

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act of 1980

CESA California Endangered Species Act

CFR Code of Federal Regulations

cfs cubic feet per second

CGS California Geological Survey

CH₄ methane

CHP California Highway Patrol

CHRIS California Historical Resources Information System

CIIA Critical Infrastructure Information Act

CIWMB California Integrated Waste Management Board

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

CNRA California Natural Resources Agency

CO carbon monoxide

CO₂ carbon dioxide

CO₂e carbon dioxide equivalent

COA Coordinated Operations Agreement
CPUC California Public Utilities Commission
CRHR California Register of Historical Resources

CRPR California Rare Plant Rank
CRSB Coast Ranges-Sierran Block

CSIA California State Irrigation Association
CSLC California State Lands Commission

CVC Cross Valley Canal

CVFPB Central Valley Flood Protection Board
CVFPP Central Valley Flood Protection Plan
CVHM Central Valley Hydrologic Model

CVP Central Valley Project

CVPIA Central Valley Project Improvement Act

CVRWQCB Central Valley Regional Water Quality Control Board

CV-SALTS Central Valley Salinity Alternatives for Long-term Sustainability

CWA Clean Water Act

cy cubic yards dB decibels

dBA decibels, A-weighted
DBCP dibromochloropropane

DBP Rule Disinfection Byproduct Rule

DBW Department of Boating and Waterways

DCR 2015 DWR's 2015 Delivery Capability Report CALSIM II model

DEIR/EIS Draft Environmental Impact Report/Environmental Impact Statement

Delta Sacramento-San Joaquin Delta
DNL daytime-nighttime noise level

DOC California Department of Conservation

DOF California Department of Finance
DOI U.S. Department of the Interior

DPR Department of Parks and Recreation

DPS Distinct Population Segment
DPW Department of Public Works

DSHA deterministic seismic hazard analysis
DSOD California Division of Safety of Dams

DTSC California Department of Toxic Substances Control

DWR California Department of Water Resources

EA environmental assessment

EBMUD East Bay Municipal Utility District

EC electrical conductivity

EDD California Employment Development Department

EDWPA El Dorado Water and Power Authority

EFH essential fish habitat

EID El Dorado Irrigation District

EIR/EIS Environmental Impact Report/Environmental Impact Statement

EMF electric and magnetic field

EO Executive Order
EOM end of month

ESA Endangered Species Act

ESU Evolutionarily Significant Unit
FAA Federal Aviation Administration
FEIR Final Environmental Impact Report
FEIS Final Environmental Impact Statement
FEMA Federal Emergency Management Agency
FERC Federal Energy Regulatory Commission

FESA federal Endangered Species Act

FEW Fresh Emergent Wetland

FHWA Federal Highway Administration

FHWG Fisheries Hydroacoustic Working Group

FIRM Flood Insurance Rate Map

FMMP Farmland Mapping and Monitoring Program

FPPA Farmland Protection Policy Act of 1981

fps feet per second FR Federal Register

FRSA Feather River Service Area
FTA Federal Transit Administration

FTE full-time equivalent

FWCA Fish and Wildlife Coordination Act

FY fiscal year

GAMA Groundwater Ambient Monitoring and Assessment

GCAPCD Glenn County Air Pollution Control District

GCID Glenn-Colusa Irrigation District

GCM Global Climate Model

GHG greenhouse gas

GIS geographic information system

gpm gallon(s) per minute

GSA Groundwater Sustainability Agency
GSP Groundwater Sustainability Plan

GVS Great Valley Sequence

GWh gigawatt-hours

GWMP groundwater management plan
GWP global warming potential
HAP Hazardous Air Pollutants

HC hydrocarbon

HCP Habitat Conservation Plan

HCSD Hantavirus Cardiopulmonary Syndrome Disease

HFC high flow channel HFC hydrofluorocarbon

hp horsepower
I:E inflow:export
I-5 Interstate 5

IOU investor-owned utility

IPaC Information for Planning and Conservation
IPCC Intergovernmental Panel on Climate Change

ISO Independent System Operator

ITA Indian Trust Asset

IWM instream woody material JPA Joint Powers Authority

kg kilogram km kilometer kV kilovolt

kVA kilovolt-amperes

 L_{10} the noise level exceeded for 10 percent of the measurement period

L₉₀ the noise level that is exceeded during 90 percent of the measurement period

lb pound

LCPSIM Least Cost Planning Simulation Model

LCRBWQM Lower Colorado River Basin Water Quality Model

Land day-night average level daytime-nighttime noise level

LEDPA Least Environmentally Damaging Practicable Alternative

LFC Low Flow Channel

LLT Late Long Term

L_{max} the maximum sound pressure level over a defined period

LOS level of service
LOS level of significance

LRFD Load and Resistance Factor Design
LRMP Land and Resource Management Plan

m meter(s)

M&I municipal and industrial

MACT Maximum Achievable Control Technology

MAF million acre-feet

MBTA Migratory Bird Treaty Act
MCL maximum contaminant levels
MCV Manual of California Vegetation

MERP Mercury Exposure Reduction Program

mg/L milligram(s) per liter

MID Maxwell Irrigation District

MIDPD Merced Irrigation District Parks Department

MIDS Morrow Island Distribution System

milliohm/cm one thousandth of an ohm per centimeter

M_L local magnitude

MLD Most Likely Descendent mm/yr millimeters per year mmhos/cm millimhos per centimeter

MMT million metric tons

MNWS Maximum Normal Water Surface MOU Memorandum of Understanding

mt/yr metric ton(s) per year
MTBE methyl tertiary butyl ether

MW megawatt

M_W moment magnitudeMWh megawatt-hoursMYA million years ago

N/A not available; not reported

N₂O nitrous oxide NA not available

NAAQS National Ambient Air Quality Standard

NAGPRA Native American Graves Protection and Repatriation Act

NAHC Native American Heritage Commission
NAIP National Agricultural Imagery Program

NAS National Academy of Sciences

NAVD88 North American Vertical Datum of 1988

NAWMP North American Waterfowl Management Plan

NCCP Natural Community Conservation Plan

NCCPA Natural Community Conservation Planning Act

NCRWQCB North Coast RWQCB NDMA n-nitrosodimethylamine

NEIC Northeast Information Center

NEPA National Environmental Policy Act

NERC North American Electric Reliability Corporation

NESHAP National Emission Standards for Hazardous Air Pollutant

NFIP National Flood Insurance Program

ng/L nanogram(s) per liter

NHPA National Historic Preservation Act

NHTSA National Highway Traffic Safety Administration

NMFS National Marine Fisheries Service

NO₂ nitrogen dioxide

NOAA National Oceanic and Atmospheric Administration

NOAA/ESRL National Oceanic and Atmospheric Administration Earth System Research

Laboratory

NOC Notice of Completion
NOD Notice of Determination

NODOS North-of-the-Delta Offstream Storage

NOI Notice of Intent

NOP Notice of Preparation NO_x oxides of nitrogen

NPDES National Pollutant Discharge Elimination System

NPPA Native Plant Protection Act of 1977

NPS National Park Service
NRA National Recreation Area
NRC National Research Council

NRCS Natural Resources Conservation Service
NRHP National Register of Historic Places
NSPS new source performance standards

NSR New Source Review

NSVPA Northern Sacramento Valley Planning Area

NTR National Toxics Rule

NWI National Wetland Inventory
NWIC Northwestern Information Center

NWR National Wildlife Refuge

 O_3 ozone

OEHHA California Office of Environmental Health Hazard Assessment

OMWEM Other Municipal Water Economics Model
OPLMA Omnibus Public Land Management Act

OPR Office of Planning and Research

P&Gs Principle and Guidelines
PA programmatic agreement
PATON Private Aid to Navigation

Pb lead

PCB polychlorinated biphenyl PCE tetrachloroethylene

PEIS programmatic environmental impact statement

PFC perfluorocarbon

PFMC Pacific Fishery Management Council
PG&E Pacific Gas and Electric Company
PGA peak horizontal ground acceleration

 PM_{10} particulate matter less than 10 microns in aerodynamic diameter $PM_{2.5}$ particulate matter less than 2.5 microns in aerodynamic diameter

PMF probable maximum flood

ppb part(s) per billion ppm part(s) per million

ppmv part(s) per million by volume

ppt part(s) per thousand

PR&G Principle, Requirement, and Guideline

PRC Public Resources Code

PRMMP Paleontological Resources Monitoring and Mitigation Plan
Project Sites Reservoir/North-of-the-Delta Offstream Storage Project

Proposition 1 Water Quality, Supply, and Infrastructure Improvement Act of 2014

PSD Prevention of Significant Deterioration

psu practical salinity unit PTE potential to emit

PURPA Public Utility Regulatory Policies Act

RBDD Red Bluff Diversion Dam
RBPP Red Bluff Pumping Plant
RCC roller compacted concrete

RCRA Resource Conservation and Recovery Act

RD Reclamation District

RDEIR/SDEIS Recirculated Draft EIR/Supplemental Draft EIS

Reclamation Bureau of Reclamation

RM River Mile

ROD Record of Decision
ROG reactive organic gases

RPA Reasonable and Prudent Alternative

RPS renewable portfolio standard

RRDS Roaring River Distribution System

RTS reservoir triggered seismicity
RV recreation vehicle

RVD recreation visitor day

RWQCB Regional Water Quality Control Board

SA spectral acceleration

SacEFT Sacramento Ecological Flow Model

SACFEM Sacramento Valley Finite-Element Groundwater Model

SAFETEA-LU Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users

SARA Superfund Amendments and Reauthorization Act of 1986

SB Senate Bill

SCADA supervisory control and data acquisition

SCVWD Santa Clara Valley Water District

SDWA Safe Drinking Water Act

SDWTEA Safe Drinking Water and Toxics Enforcement Act

Secretary of the Department of the Interior

SEW Saline Emergent Wetland

SF₆ sulfur hexafluoride

SFB RWQCB San Francisco Bay Regional Water Quality Control Board

SFHA Special Flood Hazard Area SFTR South Fork Trinity River

SGMA Sustainable Groundwater Management Act

SGPWA San Gorgonio Pass Water Agency

SIP State Implementation Plan SJRA San Joaquin River Agreement SMARA Surface Mining and Reclamation Act

SMPA Suisun Marsh Protection Act

SMSCG Suisun Marsh Salinity Control Gate SNMP Salt and Nitrate Management Plan

SO₂ sulfur dioxide SOI sphere of influence SO_x oxides of sulfur

SPCC Spill Prevention, Control, and Countermeasures SPCCP spill prevention control and countermeasure plan

SPFC State Plan of Flood Control

SR State Route

SRA State Recreation Area

SRBPP Sacramento River Bank Protection Project
SRCD Suisun Resource Conservation District
SRFCP Sacramento River Flood Control Project

SRWA Sacramento River Wildlife Area

STAA Surface Transportation Assistance Act

State State of California

State Parks California Department of Parks and Recreation

SVAB Sacramento Valley Air Basin

SVP Society of Vertebrate Paleontology SWAP Statewide Agricultural Production

SWP State Water Project

SWPPP stormwater pollution prevention plan SWRCB State Water Resources Control Board

TAC toxic air contaminant
TAF thousand acre-feet

TAG Technical Advisory Group

TANC Transmission Agency of Northern California
TCAPCD Tehama County Air Pollution Control District

TCCA Tehama-Colusa Canal Authority

TCD temperature control device

TCE trichloroethylene

TCP traditional cultural properties

TCR tribal cultural resources; The Climate Registry

TDS total dissolved solids

TEPA Tribal Environmental Protection Agency

TID Turlock Irrigation District
TMDL total maximum daily load
TNC The Nature Conservancy

tpy tons per year

TRD Trinity River Diversion

TRFE Trinity River Flow Evaluation
TRR terminal regulating reservoir

TRRP Trinity River Restoration Program

U.S.C. U.S. Code

UCCE University of California Cooperative Extension

UCMP University of California Museum of Paleontology at Berkeley

ULEP Umpqua Land Exchange Project

URS URS Corporation

USACE U.S. Army Corps of Engineers
USDA U.S. Department of Agriculture
USE Utility Systems Efficiencies, Inc.

USEPA U.S. Environmental Protection Agency

USFS U.S. Forest Service

USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey

USRDOM Upper Sacramento River Daily Operations Model
USRWQM Upper Sacramento River Water Quality Model

UST underground storage tank

UWMP Urban Water Management Plan

VdB vibration decibel notation
VOC volatile organic compound
VRI Valley foothill riparian

WA Wildlife Area

WAPA Western Area Power Administration
WEAP Water Evaluation and Planning Model
WECC Western Electricity Coordinating Council

WGCEP Working Group for California Earthquake Possibilities

WHR Wildlife Habitat Relationships
WQCP water quality control plan
WRC Water Resources Council
WRP Wetlands Reserve Program
WSEL water surface elevation

WSIP Water Storage Investment Program

WUA Weighted-Usable-Area

WWR Wetlands and Water Resources

YCFCWCD Yolo County Flood Control and Water Conservation District

YCWA Yuba County Water Agency YNHP Yolo Natural Heritage Program

YOY young of year