

## 7.0 ACRONYMS AND ABBREVIATIONS

---

$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
AB	Assembly Bill
ABAG	Association of Bay Area Governments. The regional planning agency in the San Francisco Bay area working to help solve problems in areas such as land use, housing, environmental quality, and economic development.
ACFD	Alameda County Fire Department
AC Transit	Alameda-Contra Costa Transit
ADA	Americans with Disabilities Act
ADP	Adjusted Daily Population
ADT	Average Daily Traffic
ALUC	Airport Land Use Commission
ANSI	American National Standards Institute
APCD	Air Pollution Control District
ASCR	Advanced Scientific Computing Research
asf	assignable square feet
ASF	age sensitivity factor
ASTM	American Society for Testing and Materials
ATCM	Airborne Toxics Control Measure
BAAQMD	Bay Area Air Quality Management District. A nine-county regional air district created under the provisions of the California Health and Safety Code Section 40200. It consists of nine member counties: all of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Santa Clara counties, and the southern portions of Solano and Sonoma counties. The BAAQMD is responsible for the developing the overall attainment strategy for its respective geographic area (see SFBAAB below) and has the authority to regulate stationary sources, some area sources, and some aspects of mobile sources.
BACT	Best Available Control Technology
BART	Bay Area Rapid Transit

Bay Area	San Francisco Bay Area
BCDC	San Francisco Bay Conservation and Development Commission
BCT	Best Conventional Pollutant Control Technology
Bear Transit	UC Berkeley Shuttle Service
BELLA	Berkeley Lab Laser Accelerator
BFD	Berkeley Fire Department
bgs	below ground surface
BMPs	best management practices
BRT	Bus Rapid Transit
BSL	Biosafety Level
BTU	British thermal unit
BUSD	Berkeley Unified School District
C <sub>2</sub> H <sub>3</sub> Cl	vinyl chloride
CAA	Clean Air Act. The federal air pollution control statute first passed in 1963, following a 1955 federal statute authorizing research and technical assistance. The 1965 and 1967 amendments began automobile and stationary source standards. The most recent amendments of the CAA were passed in 1990.
CAAQS	California Ambient Air Quality Standards
CAP	Clean Air Plan
CARB	California Air Resources Board. The state's lead air quality agency consisting of an 11-member board appointed by the Governor. CARB is responsible for attainment and maintenance of the state and federal air quality standards, and is fully responsible for motor vehicle pollution control. It oversees county and regional air pollution management programs.

Cal/EPA	California Environmental Protection Agency. The state agency established in 1991 for unifying environmental activities related to public health protection in the State of California. The Cal/EPA boards, departments, and offices are directly responsible for implementing California environmental laws, or play a cooperative role with other regulatory agencies at regional, local, state, and federal levels. There are six boards, departments, and offices under the organization of Cal/EPA including the California Air Resources Board (ARB), California Integrated Waste Management Board (IWMB), State Water Resources Control Board (SWRCB) and its nine Regional Water Quality Control Boards (RWQCB), Department of Pesticide Regulation (DPR), Department of Toxic Substances Control (DTSC), and Office of Environmental Health Hazard Assessment (OEHHA).
Cal/OSHA	California Occupational Safety and Health Administration
Caltrans	California Department of Transportation
CBC	California Building Code
CCAA	California Clean Air Act. The state law that was passed in 1988 to provide the basis for air quality planning and regulation independent of federal regulations. A major element of the CCAA is the requirement that local air districts in violation of the CAAQS must prepare attainment plans that identify air quality problems, causes, trends, and actions to be taken to attain and maintain California's air quality standards by the earliest practicable date.
CCR	California Code of Regulations
CDFG	California Department of Fish and Game
CDMG	California Division of Mines and Geology
CEC	California Energy Commission
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Responsibility, Compensation, and Liability Act
CESA	California Endangered Species Act
CFCs	chlorofluorocarbons
CFR	Code of Federal Regulations
CGS	California Geological Survey
CH <sub>4</sub>	methane

CHP	California Highway Patrol
CIWMB	California Integrated Waste Management Board
CMP	Congestion Management Plan
CNDDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2e</sub>	carbon dioxide equivalent
CRD	Computational Research Division
CRT	Computational Research and Theory
CSE	Computational Science and Engineering
CTMP	Construction Traffic Management Plan
CTR	California Toxics Rule
CUPA	Certified Unified Program Agency
CVC	California Vehicle Code
CWA	Clean Water Act
cy	cubic yard
dB	decibels
dBA	A-weighted decibels (Level of Noise Measurement)
DHS	Department of Health Services (California)
DOE	United States Department of Energy
DOE SC	United State Department of Energy Office of Science
DOT	Department of Transportation
DPM	diesel particulate matter

DTSC	Department of Toxic Substances Control (California)
DWR	Department of Water Resources (California)
EA	Environmental Assessment
EBMUD	East Bay Municipal Utility District
EBRPD	East Bay Regional Park District
EH&S	LBL Environment, Health, and Safety (Division)
EIR	Environmental Impact Report
EPCRA	Emergency Planning and Community Right-to-Know Act
ESA	Environmentally Sensitive Area
ESL	Environmental Screening Level
ESnet	Energy Sciences Network
FAA	Federal Aviation Administration
FDA	United States Food and Drug Administration
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FONSI	Finding of No Significant Impact
FTE	full-time equivalent
g/hp-hr	grams per horsepower hour
GHGs	greenhouse gases
GMMP	Groundwater Monitoring and Management Plan
gpd	gallons per day
GPL	General Purpose Laboratory
GSA	General Services Administration

gsf	gross square feet
GWP	Global Warming Potential
H <sub>2</sub> O	water vapor
H <sub>2</sub> S	hydrogen sulfide
HAP	Hazardous Air Pollutant. Chemicals that cause serious health and environmental effects. Health effects include cancer, birth defects, nervous system problems, and death due to massive accidental releases. Hazardous air pollutants are released by sources such as chemical plants, dry cleaners, printing plants, and motor vehicles (cars, trucks, buses, etc.).
HCFCs	hydrochlorofluorocarbons
HCM	Highway Capacity Manual
HFCs	hydrofluorocarbons
HHRA	Human Health Risk Assessment
HMMP	Hazardous Materials Management Plan
HMP	Hydrograph Modification Management Plan
HPC	high-performance computing
HOV	high-occupancy vehicle
HVAC	heating, ventilation, and air conditioning
HWHF	Hazardous Waste Handling Facility
Hz	Hertz
IPCC	Intergovernmental Panel on Climate Change
ISM	Integrated Safety Management
ITE	Institute of Traffic Engineers
kv	kilovolts
kVA	kilovolt (annual)
kW	kilowatts
lb/day	pounds per day

LBNL	Lawrence Berkeley National Laboratory
LCFS	Low Carbon Fuel Standards
LECR	lifetime excess cancer risk
LEED	Leadership in Energy and Environmental Design
L <sub>10</sub>	noise level exceeded 10 percent of the time
L <sub>90</sub>	noise level exceeded 90 percent of the time
L <sub>dn</sub>	measured day/night average noise level
L <sub>eq</sub>	energy-equivalent noise level
L <sub>max</sub>	instantaneous maximum noise level
LHS	Lawrence Hall of Science
LOS	level of service
LRDP	Long Range Development Plan
LUST	leaking underground storage tank
M&O	Management and Operating
MEI	maximally exposed individual
MEPP	Master Emergency Program Plan
mgd	million gallons per day
mgy	million gallons per year
MMBtu	million British thermal units
MMTCO <sub>2e</sub>	CO <sub>2</sub> -equivalent million metric tons
MOA	Memorandum of Agreement
mph	miles per hour
MPO	Metropolitan Planning Organization
MS4s	Municipal Separate Storm Sewer Systems
MSL	Mean Sea Level

MTC	Metropolitan Transportation Commission
MTCO <sub>2e</sub>	CO <sub>2</sub> -equivalent metric tons
MVA	megavolt-amperes
MW	megawatts
MWh	megawatt hours
N-ZEB	Net-Zero Energy Buildings
N <sub>2</sub> O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
National Register	National Register of Historic Places
NEPA	National Environmental Policy Act
NERSC	National Energy Research Scientific Computing Center
NIMS	National Incident Management System
NIOSH	National Institute for Occupational Safety and Health
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	oxides of nitrogen
NOI	Notice of Intent
NO <sub>x</sub>	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NPPA	Native Plant Protection Act
NRCS	Natural Resource Conservation Service
NTIG	Nanotechnology Interest Group
NZEB	Net Zero Energy Building
O <sub>3</sub>	ozone
OEHHA	Office of Environmental Health Hazard Assessment (California)
OSCAR	Open Space, Conservation, and Recreation



## 7.0 Acronyms and Abbreviations

OSF	Oakland Scientific Facility
OSHA	Occupational Safety & Health Administration
OUSD	Oakland Unified School District
Pb	lead
PCBs	polychlorinated biphenyls
PFCs	perfluorocarbons
PG&E	Pacific Gas & Electric Company
PM	particulate matter
PM <sub>2.5</sub>	respirable particulate matter – 2.5 microns or smaller
PM <sub>10</sub>	fine particulate matter – 10 microns or smaller
POC	precursor organic compounds
ppb	parts per billion
ppd	pounds per day
PPE	Personal Protective Equipment
pphm	parts per hundred million
ppm	parts per million
PRC	Public Resources Code
psi	pounds per square inch
psig	pounds per square inch gauge
RCRA	Resource Conservation and Recovery Act
RFS	Richmond Field Station
ROG	reactive organic gas
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SCH	California State Clearinghouse

SCIP	Southwest Campus Integrated Projects
SCM	Smith-Corona Marchant Corporation
SERC	Solar Energy Research Center
sf	square feet
SF <sub>6</sub>	sulfur hexafluoride
SFBAAB or Basin	San Francisco Bay Area Air Basin
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
SHMA	Seismic Hazards Mapping Act
SIP	State Implementation Plan
SLM	sound-level meter
SLR	single-lens reflex
SMP	Soil Management Plan
SO <sub>2</sub>	sulfur dioxide
SO <sub>4</sub>	sulfates
SO <sub>x</sub>	sulfur oxide
SPCC	Spill Prevention Control and Countermeasure
SPF	Standard Project Feature
SR	State Route
State Register	California Register of Historical Resources
SWMP	Storm Water Monitoring Plan
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
TBACT	Best Available Control Technology for Toxics
TCM	Transportation Control Measure

TDM	Transportation Demand Management
The Regents	The Board of Regents of the University of California
The University	University of California
TIA	Traffic Impact Analysis
TLV	threshold limit value
TMDL	total maximum daily load
TOC	total organic carbon
TPH-g	total petroleum hydrocarbons as gasoline
TSCA	Toxic Substances Control Act
TSS	total suspended solids
UBC	Uniform Building Code
UC	University of California
UC Berkeley	University of California, Berkeley
UCOP	University of California, Office of the President
UCPD	UC Berkeley Police Department
UNFCCC	United Nations Framework Convention on Climate Change
URBEMIS	Air Quality Modeling Software
URF	unit risk factor
USACE	United States Army Corps of Engineers
US EPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UST	underground storage tank
UV	ultraviolet
UWMP	Urban Water Management Plan

## *7.0 Acronyms and Abbreviations*

V	volts
VMT	vehicle-miles traveled
VOCs	volatile organic compounds
WAPA	Western Area Power Administration
WGCEP	Working Group on California Earthquake Probabilities