7.0 ACRONYMS AND ABBREVIATIONS

μg/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 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
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bay Area</td>
<td>San Francisco Bay Area</td>
</tr>
<tr>
<td>BCDC</td>
<td>San Francisco Bay Conservation and Development Commission</td>
</tr>
<tr>
<td>BCT</td>
<td>Best Conventional Pollutant Control Technology</td>
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<tr>
<td>Bear Transit</td>
<td>UC Berkeley Shuttle Service</td>
</tr>
<tr>
<td>BELLA</td>
<td>Berkeley Lab Laser Accelerator</td>
</tr>
<tr>
<td>BFD</td>
<td>Berkeley Fire Department</td>
</tr>
<tr>
<td>bgs</td>
<td>below ground surface</td>
</tr>
<tr>
<td>BMPs</td>
<td>best management practices</td>
</tr>
<tr>
<td>BRT</td>
<td>Bus Rapid Transit</td>
</tr>
<tr>
<td>BSL</td>
<td>Biosafety Level</td>
</tr>
<tr>
<td>BTU</td>
<td>British thermal unit</td>
</tr>
<tr>
<td>BUSD</td>
<td>Berkeley Unified School District</td>
</tr>
<tr>
<td>C&lt;sub&gt;2&lt;/sub&gt;H&lt;sub&gt;3&lt;/sub&gt;Cl</td>
<td>vinyl chloride</td>
</tr>
<tr>
<td>CAA</td>
<td>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.</td>
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<tr>
<td>CAAQS</td>
<td>California Ambient Air Quality Standards</td>
</tr>
<tr>
<td>CAP</td>
<td>Clean Air Plan</td>
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<td>CARB</td>
<td>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.</td>
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</table>
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

CH₄  methane
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>CHP</td>
<td>California Highway Patrol</td>
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<td>CIWMB</td>
<td>California Integrated Waste Management Board</td>
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<td>CMP</td>
<td>Congestion Management Plan</td>
</tr>
<tr>
<td>CNNDB</td>
<td>California Natural Diversity Database</td>
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<tr>
<td>CNEL</td>
<td>Community Noise Equivalent Level</td>
</tr>
<tr>
<td>CNPS</td>
<td>California Native Plant Society</td>
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<tr>
<td>CO</td>
<td>carbon monoxide</td>
</tr>
<tr>
<td>CO₂</td>
<td>carbon dioxide</td>
</tr>
<tr>
<td>CO₂e</td>
<td>carbon dioxide equivalent</td>
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<tr>
<td>CRD</td>
<td>Computational Research Division</td>
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<tr>
<td>CRT</td>
<td>Computational Research and Theory</td>
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<td>CSE</td>
<td>Computational Science and Engineering</td>
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<td>CTMP</td>
<td>Construction Traffic Management Plan</td>
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<td>CTR</td>
<td>California Toxics Rule</td>
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<tr>
<td>CUPA</td>
<td>Certified Unified Program Agency</td>
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<td>CVC</td>
<td>California Vehicle Code</td>
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<td>CWA</td>
<td>Clean Water Act</td>
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<tr>
<td>cy</td>
<td>cubic yard</td>
</tr>
<tr>
<td>dB</td>
<td>decibels</td>
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<tr>
<td>dBA</td>
<td>A-weighted decibels (Level of Noise Measurement)</td>
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<tr>
<td>DHS</td>
<td>Department of Health Services (California)</td>
</tr>
<tr>
<td>DOE</td>
<td>United States Department of Energy</td>
</tr>
<tr>
<td>DOE SC</td>
<td>United State Department of Energy Office of Science</td>
</tr>
<tr>
<td>DOT</td>
<td>Department of Transportation</td>
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<tr>
<td>DPM</td>
<td>diesel particulate matter</td>
</tr>
<tr>
<td>Acronym</td>
<td>Full Form</td>
</tr>
<tr>
<td>---------</td>
<td>-----------</td>
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<tr>
<td>DTSC</td>
<td>Department of Toxic Substances Control (California)</td>
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<tr>
<td>DWR</td>
<td>Department of Water Resources (California)</td>
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<tr>
<td>EA</td>
<td>Environmental Assessment</td>
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<tr>
<td>EBMUD</td>
<td>East Bay Municipal Utility District</td>
</tr>
<tr>
<td>EBRPD</td>
<td>East Bay Regional Park District</td>
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<tr>
<td>EH&amp;S</td>
<td>LBNL Environment, Health, and Safety (Division)</td>
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<tr>
<td>EIR</td>
<td>Environmental Impact Report</td>
</tr>
<tr>
<td>EPCRA</td>
<td>Emergency Planning and Community Right-to-Know Act</td>
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<tr>
<td>ESA</td>
<td>Environmentally Sensitive Area</td>
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<tr>
<td>ESL</td>
<td>Environmental Screening Level</td>
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<tr>
<td>ESnet</td>
<td>Energy Sciences Network</td>
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<tr>
<td>FAA</td>
<td>Federal Aviation Administration</td>
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<tr>
<td>FDA</td>
<td>United States Food and Drug Administration</td>
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<td>FEMA</td>
<td>Federal Emergency Management Agency</td>
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<tr>
<td>FESA</td>
<td>Federal Endangered Species Act</td>
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<tr>
<td>FHWA</td>
<td>Federal Highway Administration</td>
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<tr>
<td>FIRM</td>
<td>Flood Insurance Rate Map</td>
</tr>
<tr>
<td>FONSI</td>
<td>Finding of No Significant Impact</td>
</tr>
<tr>
<td>FTE</td>
<td>full-time equivalent</td>
</tr>
<tr>
<td>g/hp-hr</td>
<td>grams per horsepower hour</td>
</tr>
<tr>
<td>GHGs</td>
<td>greenhouse gases</td>
</tr>
<tr>
<td>GMMP</td>
<td>Groundwater Monitoring and Management Plan</td>
</tr>
<tr>
<td>gpd</td>
<td>gallons per day</td>
</tr>
<tr>
<td>GPL</td>
<td>General Purpose Laboratory</td>
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<tr>
<td>GSA</td>
<td>General Services Administration</td>
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</tbody>
</table>
gsf  | gross square feet  
--- | ---  
GWP  | Global Warming Potential  
H₂O  | water vapor  
H₂S  | 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
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
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<tr>
<td>LBNL</td>
<td>Lawrence Berkeley National Laboratory</td>
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<tr>
<td>LCFS</td>
<td>Low Carbon Fuel Standards</td>
</tr>
<tr>
<td>LECR</td>
<td>lifetime excess cancer risk</td>
</tr>
<tr>
<td>LEED</td>
<td>Leadership in Energy and Environmental Design</td>
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<tr>
<td>L_{10}</td>
<td>noise level exceeded 10 percent of the time</td>
</tr>
<tr>
<td>L_{90}</td>
<td>noise level exceeded 90 percent of the time</td>
</tr>
<tr>
<td>L_{dn}</td>
<td>measured day/night average noise level</td>
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<tr>
<td>L_{eq}</td>
<td>energy-equivalent noise level</td>
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<tr>
<td>L_{max}</td>
<td>instantaneous maximum noise level</td>
</tr>
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<td>LHS</td>
<td>Lawrence Hall of Science</td>
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<tr>
<td>LOS</td>
<td>level of service</td>
</tr>
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<td>LRDP</td>
<td>Long Range Development Plan</td>
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<td>LUST</td>
<td>leaking underground storage tank</td>
</tr>
<tr>
<td>M&amp;O</td>
<td>Management and Operating</td>
</tr>
<tr>
<td>MEI</td>
<td>maximally exposed individual</td>
</tr>
<tr>
<td>MEPP</td>
<td>Master Emergency Program Plan</td>
</tr>
<tr>
<td>mgd</td>
<td>million gallons per day</td>
</tr>
<tr>
<td>mgy</td>
<td>million gallons per year</td>
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<tr>
<td>MMBtu</td>
<td>million British thermal units</td>
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<td>MMTCOxe</td>
<td>CO₂-equivalent million metric tons</td>
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<td>MOA</td>
<td>Memorandum of Agreement</td>
</tr>
<tr>
<td>mph</td>
<td>miles per hour</td>
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<tr>
<td>MPO</td>
<td>Metropolitan Planning Organization</td>
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<td>MS4s</td>
<td>Municipal Separate Storm Sewer Systems</td>
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<td>MSL</td>
<td>Mean Sea Level</td>
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<td>Acronym</td>
<td>Full Form</td>
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<tr>
<td>MTC</td>
<td>Metropolitan Transportation Commission</td>
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<tr>
<td>MTCO\textsubscript{e}</td>
<td>CO\textsubscript{2}-equivalent metric tons</td>
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<tr>
<td>MVA</td>
<td>megavolt-amperes</td>
</tr>
<tr>
<td>MW</td>
<td>megawatts</td>
</tr>
<tr>
<td>MWh</td>
<td>megawatt hours</td>
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<tr>
<td>N-ZEB</td>
<td>Net-Zero Energy Buildings</td>
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<tr>
<td>N\textsubscript{2}O</td>
<td>nitrous oxide</td>
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<td>NAAQS</td>
<td>National Ambient Air Quality Standards</td>
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<td>National Register</td>
<td>National Register of Historic Places</td>
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<td>NEPA</td>
<td>National Environmental Policy Act</td>
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<td>NERSC</td>
<td>National Energy Research Scientific Computing Center</td>
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<td>NIMS</td>
<td>National Incident Management System</td>
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<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
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<tr>
<td>NO\textsubscript{2}</td>
<td>nitrogen dioxide</td>
</tr>
<tr>
<td>NO\textsubscript{x}</td>
<td>oxides of nitrogen</td>
</tr>
<tr>
<td>NOI</td>
<td>Notice of Intent</td>
</tr>
<tr>
<td>NO\textsubscript{x}</td>
<td>oxides of nitrogen</td>
</tr>
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<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
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<td>NPPA</td>
<td>Native Plant Protection Act</td>
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<tr>
<td>NRCS</td>
<td>Natural Resource Conservation Service</td>
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<td>NTIG</td>
<td>Nanotechnology Interest Group</td>
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<tr>
<td>NZEB</td>
<td>Net Zero Energy Building</td>
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<tr>
<td>O\textsubscript{3}</td>
<td>ozone</td>
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<td>OEHHA</td>
<td>Office of Environmental Health Hazard Assessment (California)</td>
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<td>OSCAR</td>
<td>Open Space, Conservation, and Recreation</td>
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<td>Acronym</td>
<td>Definition</td>
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<tr>
<td>OSF</td>
<td>Oakland Scientific Facility</td>
</tr>
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<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
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<td>OUSD</td>
<td>Oakland Unified School District</td>
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<tr>
<td>Pb</td>
<td>lead</td>
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<tr>
<td>PCBs</td>
<td>polychlorinated biphenyls</td>
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<tr>
<td>PFCs</td>
<td>perfluorocarbons</td>
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<td>PG&amp;E</td>
<td>Pacific Gas &amp; Electric Company</td>
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<tr>
<td>PM</td>
<td>particulate matter</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>respirable particulate matter – 2.5 microns or smaller</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>fine particulate matter – 10 microns or smaller</td>
</tr>
<tr>
<td>POC</td>
<td>precursor organic compounds</td>
</tr>
<tr>
<td>ppb</td>
<td>parts per billion</td>
</tr>
<tr>
<td>ppd</td>
<td>pounds per day</td>
</tr>
<tr>
<td>PPE</td>
<td>Personal Protective Equipment</td>
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<tr>
<td>pphm</td>
<td>parts per hundred million</td>
</tr>
<tr>
<td>ppm</td>
<td>parts per million</td>
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<tr>
<td>PRC</td>
<td>Public Resources Code</td>
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<tr>
<td>psi</td>
<td>pounds per square inch</td>
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<tr>
<td>psig</td>
<td>pounds per square inch gauge</td>
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<td>RCRA</td>
<td>Resource Conservation and Recovery Act</td>
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<td>RFS</td>
<td>Richmond Field Station</td>
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<td>ROG</td>
<td>reactive organic gas</td>
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<td>RWQCB</td>
<td>Regional Water Quality Control Board</td>
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<td>SB</td>
<td>Senate Bill</td>
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<td>SCH</td>
<td>California State Clearinghouse</td>
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<tr>
<td>Acronym</td>
<td>Description</td>
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<td>SCIP</td>
<td>Southwest Campus Integrated Projects</td>
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<td>SCM</td>
<td>Smith-Corona Marchant Corporation</td>
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<td>SERC</td>
<td>Solar Energy Research Center</td>
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<tr>
<td>sf</td>
<td>square feet</td>
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<tr>
<td>SF6</td>
<td>sulfur hexafluoride</td>
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<tr>
<td>SFBAAB or Basin</td>
<td>San Francisco Bay Area Air Basin</td>
</tr>
<tr>
<td>SFBRWQCB</td>
<td>San Francisco Bay Regional Water Quality Control Board</td>
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<tr>
<td>SHMA</td>
<td>Seismic Hazards Mapping Act</td>
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<tr>
<td>SIP</td>
<td>State Implementation Plan</td>
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<td>SLM</td>
<td>sound-level meter</td>
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<td>SLR</td>
<td>single-lens reflex</td>
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<td>SMP</td>
<td>Soil Management Plan</td>
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<tr>
<td>SO2</td>
<td>sulfur dioxide</td>
</tr>
<tr>
<td>SO4</td>
<td>sulfates</td>
</tr>
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<td>SOX</td>
<td>sulfur oxide</td>
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<tr>
<td>SPCC</td>
<td>Spill Prevention Control and Countermeasure</td>
</tr>
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<td>SPF</td>
<td>Standard Project Feature</td>
</tr>
<tr>
<td>SR</td>
<td>State Route</td>
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<tr>
<td>State Register</td>
<td>California Register of Historical Resources</td>
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<tr>
<td>SWMP</td>
<td>Storm Water Monitoring Plan</td>
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<tr>
<td>SWPPP</td>
<td>Storm Water Pollution Prevention Plan</td>
</tr>
<tr>
<td>SWRCB</td>
<td>State Water Resources Control Board</td>
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<tr>
<td>TAC</td>
<td>toxic air contaminant</td>
</tr>
<tr>
<td>TBACT</td>
<td>Best Available Control Technology for Toxics</td>
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<tr>
<td>TCM</td>
<td>Transportation Control Measure</td>
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<td>Acronym</td>
<td>Definition</td>
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<tr>
<td>TDM</td>
<td>Transportation Demand Management</td>
</tr>
<tr>
<td>The Regents</td>
<td>The Board of Regents of the University of California</td>
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<tr>
<td>The University</td>
<td>University of California</td>
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<tr>
<td>TIA</td>
<td>Traffic Impact Analysis</td>
</tr>
<tr>
<td>TLV</td>
<td>threshold limit value</td>
</tr>
<tr>
<td>TMDL</td>
<td>total maximum daily load</td>
</tr>
<tr>
<td>TOC</td>
<td>total organic carbon</td>
</tr>
<tr>
<td>TPH-g</td>
<td>total petroleum hydrocarbons as gasoline</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substances Control Act</td>
</tr>
<tr>
<td>TSS</td>
<td>total suspended solids</td>
</tr>
<tr>
<td>UBC</td>
<td>Uniform Building Code</td>
</tr>
<tr>
<td>UC</td>
<td>University of California</td>
</tr>
<tr>
<td>UC Berkeley</td>
<td>University of California, Berkeley</td>
</tr>
<tr>
<td>UCOP</td>
<td>University of California, Office of the President</td>
</tr>
<tr>
<td>UCPD</td>
<td>UC Berkeley Police Department</td>
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<tr>
<td>UNFCCC</td>
<td>United Nations Framework Convention on Climate Change</td>
</tr>
<tr>
<td>URBEMIS</td>
<td>Air Quality Modeling Software</td>
</tr>
<tr>
<td>URF</td>
<td>unit risk factor</td>
</tr>
<tr>
<td>USACE</td>
<td>United States Army Corps of Engineers</td>
</tr>
<tr>
<td>US EPA</td>
<td>United States Environmental Protection Agency</td>
</tr>
<tr>
<td>USFWS</td>
<td>United States Fish and Wildlife Service</td>
</tr>
<tr>
<td>USGS</td>
<td>United States Geological Survey</td>
</tr>
<tr>
<td>UST</td>
<td>underground storage tank</td>
</tr>
<tr>
<td>UV</td>
<td>ultraviolet</td>
</tr>
<tr>
<td>UWMP</td>
<td>Urban Water Management Plan</td>
</tr>
</tbody>
</table>
### 7.0 Acronyms and Abbreviations

<table>
<thead>
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<tbody>
<tr>
<td>V</td>
<td>volts</td>
</tr>
<tr>
<td>VMT</td>
<td>vehicle-miles traveled</td>
</tr>
<tr>
<td>VOCs</td>
<td>volatile organic compounds</td>
</tr>
<tr>
<td>WGCEP</td>
<td>Working Group on California Earthquake Probabilities</td>
</tr>
</tbody>
</table>