

## Acronyms

### ACRONYMS, ABBREVIATIONS, AND INITIALISMS

AADT: Annual Average Daily Trips  
AB 118: Assembly Bill 118  
AB 923: Assembly Bill 923  
ACC: Advanced Clean Cars  
ACT: Alternative Control Technology  
AEO: Annual Energy Outlook  
AERO: Advanced Emissions Reductions Options  
AIP: achieved in practice  
AMI: acute myocardial infarction  
AO: Agricultural Operations  
APCO: Air Pollution Control Officer  
AQI: Air Quality Index  
AQIP: Air Quality Incentive Program  
AQMD: Air Quality Management District  
AQMP: Air Quality Management Plan  
AQS: Air Quality System  
ARB: California Air Resources Board  
ARRA: American Reinvestment & Recovery Act  
ATCM: Airborne Toxic Control Measure  
ATV: all-terrain vehicles  
BAAQMD: Bay Area Air Quality Management District  
BACM: Best Available Control Measure  
BACT: Best Available Control Technology  
BAM: beta-attenuation method  
BAM/FEM: Real-time Beta-attenuation method monitors designated as federal equivalent method  
BAR: Bureau of Automotive Repair  
BenMAP: The Environmental Benefits Mapping and Analysis Program  
bhp: brake horsepower  
BMP: best management practice  
BVOC: biogenic volatile organic compound  
CAA: Clean Air Act  
CAF: confined animal facilities  
CAPCOA: California Air Pollution Control Officers Association  
CARB: California Air Resources Board  
CART: Classification and Regression Trees Method  
CASAC: Clean Air Scientific Advisory Committee  
CAV: Clean Air Vehicle  
CCDAQ: Clark County Department of Air Quality  
CCSE: California Center for Sustainable Energy

CE-CERT: University of California, Riverside College of Engineering - Center for Environmental Research and Technology  
CEC: California Energy Commission  
CEFS: California Emission Forecasting and Planning Inventory System  
CEMS: Continual Emissions Monitoring System  
CEQA: California Environmental Quality Assessment  
CFO: Clean Fuels Outlet  
CFR: Code of Federal Regulations  
CGYM: Clean Green Yard Machine  
CH&SC: California Health and Safety Code  
ChIP: Charbroiler Incentive Program  
CM: control measures  
CMAQ: Community Multi-Scale Air Quality  
CMB: chemical mass balance  
CMP: Conservation Management Practice  
CNG: compressed natural gas  
CO: carbon monoxide  
CO<sub>2</sub>: carbon dioxide  
COG: Council of Governments  
COI: cost of illness  
CPF: Conditional probability function  
CRF: concentration response function  
CRPAQS: California Regional Particulate Air Quality Study  
CSN: Chemical Speciation Network  
CTG: Control Techniques Guidelines  
CTM: Chemical transport models  
CV: cardiovascular  
CVRP: Clean Vehicle Rebate Project  
DC&E: Design, Community, and Environment  
DERA: Diesel Emission Reductions Act  
DF: deposition fraction  
DMV: Department of Motor Vehicles  
DOF: Department of Finance  
DOGGR: California Department of Conservation's Division of Oil, Gas, and Geothermal Resources  
DOORS: Diesel Off-road On-line Reporting System  
District: San Joaquin Valley Air Pollution Control District  
DPF: diesel particulate filter  
DPR: Department of Pesticide Regulation  
EC: elemental carbon  
EE: exceptional event  
EF: emission factor  
EF&EE: Engine, Fuel, and Emissions Engineering, Inc.  
EFMP: Enhanced Fleet Modernization Program  
EIC: Emission Inventory Code  
EMFAC: Emission Factors model

EPA: U.S. Environmental Protection Agency  
EQIP: Environmental Quality Incentives Program  
ER: emergency room  
ERC: Emission Reduction Credits  
ESP: electrostatic precipitator  
eTRIP: Employer Trip Reduction Implementation Plan  
FDOC: Final determination of compliance  
FEM: federal equivalent method  
FIP: federal implementation plan  
FFMP: Farmland Mapping and Monitoring Program  
FMP: Flare Minimization Plan  
FR: Federal Register  
FRM: Federal Reference Method  
FTIP: Federal Transportation Improvement Plan  
FY: fiscal year  
GHG: greenhouse gas  
GIS: geographic information systems  
GMRP: Proposition 1B Goods Movement Emission Reduction Program  
GSE: ground support equipment  
GVWR: gross vehicle weight rating  
HEP: head end power  
HHDV: heavy heavy-duty vehicles  
HVIP: Hybrid Truck and Bus Voucher Incentive Program  
IC: internal combustion  
ICAPCD: Imperial County Air Pollution Control District  
IEPR: Integrated Energy Policy Report  
ILD: idle limiting device  
ILEV: Inherently Low Emission Vehicle  
IMPROVE: Interagency Monitoring of Protected Visual Environments  
IMS-95: Integrated Monitoring Study in 1995  
IQR: interquartile range  
ISR: Indirect Source Review  
JPA: joint powers authority  
kW: kilowatt  
lb/MMBtu: pounds per million British thermal units of heat output  
LD50: dose causing death for 50% of the exposed subjects  
LDA: light-duty passenger  
LDT: light-duty trucks  
LEV: low-emission vehicles  
LHDV: light heavy-duty vehicles  
LMA: Land Management Agency  
LNG: liquefied natural gas  
LPG: liquefied petroleum gas  
LSI: large spark-ignited  
LTO: low temperature oxidation  
MACT: Maximum Achievable Control Technology

MCY: motorcycles  
MDL: minimum detection limit  
MDV: medium-duty vehicles  
MEGAN: Model of Emissions of Gases and Aerosols from Nature  
MFB: mean fractional bias  
MFE: mean fractional error  
MH: motor homes  
MHDV: medium heavy-duty vehicles  
MHP: medium horsepower  
MMBtu/hr: million British thermal units per hour  
MMS: Mesoscale Meteorological Model  
MODIS: Moderate Resolution Imaging Spectroradiometer  
MOU: Memorandum of Understanding  
MPO: Metropolitan Planning Organization  
MSW: municipal solid waste  
MW: megawatt  
NAAQS: National Ambient Air Quality Standards  
NCAR: National Center for Atmospheric Research  
NESHAP: National Emission Standards for Hazardous Air Pollutants  
ng/J: nanograms per Joule of heat output  
NH<sub>3</sub>: ammonia  
NMB: normalized mean bias  
NO<sub>x</sub>: oxides of nitrogen  
NO<sub>y</sub>: reactive nitrogen  
NQ: not quantifiable  
NRCS: Natural Resources Conservation Service  
NSCR: non-selective catalytic reduction  
NSPS: New Source Performance Standards  
NSR: New Source Review  
O<sub>3</sub>: ozone  
OB: other buses  
OBD: On board diagnostics  
OC: organic carbon  
OH: Hydroxyl radicals  
PAH: polycyclic aromatic hydrocarbons  
PAN: Peroxy Acetyl Nitrate  
PASS: Polluting Automobile Scrap and Salvage  
PEER: Permit-Exempt Equipment Registration  
PEV: Plug-in Electric Vehicles  
PM: particulate matter  
PM<sub>0.1</sub>: ultrafine particles  
PM<sub>2.0</sub>: particulate matter that is 2.0 microns or less in diameter  
PM<sub>2.5</sub>: particulate matter that is 2.5 microns or less in diameter  
PM<sub>10</sub>: particulate matter that is 10 microns or less in diameter  
PMF2: Positive Matrix Factorization Model version 2  
POA: Primary organic aerosols

Ppb: parts per billion  
Ppm: parts per million  
Ppmv: parts per million volume  
PPN: Particulate protein nitrogen  
PTFE: Poly Tetra Fluoro Ethylene  
PUC: Public Utilities Commission  
QA: quality assurance  
QC: quality control  
RAAN: Real-Time Air Quality Advisory Network  
RACT: reasonably available control technology  
RACM: reasonably available control measure  
RARE: Regional Applied Research Effort  
RBS: Risk-Based Strategy  
REES: Regional Energy Efficiency Strategy  
REHEX: Regional Human Exposure Model  
REMI: Regional Economic Models, Inc.  
RFP: reasonable further progress  
RFP: request for proposal  
RH: relative humidity  
ROAR: Real-time Outdoor Activity Risk  
ROG: reactive organic gases  
ROP: Rate of Progress  
ROS: reactive oxygen species  
RRD: respirable road dust  
RSD: remote sensing device  
RTO: regenerative thermal oxidizer  
RTP: regional transportation plan  
RV: recreational vehicles  
RWC: residential wood combustion  
SAFETEA-LU: Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users  
SASS: Spiral Aerosol Speciation Sampler  
SB: school buses  
SB: Senate Bill  
SB375: Senate Bill 375  
SBS: sodium bisulfate  
SC: source category  
SCAQMD: South Coast Air Quality Management District  
SCR: selective catalytic reduction  
SCS: C-35 Sustainable Community Strategy  
SFM: State Fire Marshall  
SIP: state implementation plan  
SJV: San Joaquin Valley  
SJVAB: San Joaquin Valley Air Basin  
SLAM: State & Local Air monitoring System  
SMAQMD: Sacramento Metropolitan Air Quality Management District

SMAT: Speciated Modeled Attainment Test  
SMS: Smoke Management System  
SO<sub>2</sub>: sulfur dioxide  
SO<sub>3</sub>: sulfur trioxide  
SOA: secondary organic aerosol  
SORE: small off-road engines  
SO<sub>x</sub>: oxides of sulfur  
Study Agency: San Joaquin Valleywide Air Pollution Study Agency  
SUV: sport utility vehicles  
SWCV: Solid Waste Collection Vehicle  
TAC: toxic air contaminant  
TCM: transportation control measure  
TDM: transportation demand management  
TOR: thermal optical reflectance  
TOT: thermal optical transmittance  
Tpd: tons per day  
Tpy: tons per year  
TRU: transport refrigeration unit  
TSD: technical support document  
TSM: transportation system management  
TSP: total suspended particulates  
UB: urban buses  
UCD-CIT: University of California/ California Institute of Technology  
UCSF: University of California San Francisco  
UFP: ultrafine particles  
µg/m<sup>3</sup>: micrograms per cubic meter  
UHI: urban heat island  
ULNB: ultra-low NO<sub>x</sub> burner  
USDA: United States Department of Agriculture  
USDA-ARS: United States Department of Agriculture-Agricultural Research Service  
USG: Unhealthy for Sensitive Groups  
UTV: utility terrain vehicles  
Valley: San Joaquin Valley  
VCAPCD: Ventura County Air Pollution Control District  
VDE: visible dust emissions  
VDT: vehicle daily trips  
VIP: Voucher Incentive Program  
VMT: vehicle miles traveled  
VOC: volatile organic compounds  
VSL: value of a statistical life  
WFU: Wildland Fire Use  
WOE: Weight of Evidence  
WTP: willingness to pay  
XRF: X-ray fluorescence  
ZEB: zero-emission bus  
ZEV: zero-emission vehicle