



## Acronyms

<b>AER</b>	Alberta Energy Regulator
<b>AIMM</b>	approved instrument monitoring method
<b>AMEL</b>	alternative means of emissions limitation
<b>AMOC</b>	alternative method of compliance
<b>APCD</b>	Air Pollution Control Division
<b>AQCC</b>	Air Quality Control Commission
<b>ARB</b>	Air Resources Board
<b>ARPA-E</b>	Advanced Research Projects Agency – Energy
<b>AVO</b>	audio, visual, and olfactory
<b>AWP</b>	alternative work plan
<b>AWP</b>	area wide planning
<b>BBL</b>	barrel
<b>BLM</b>	Bureau of Land Management
<b>BOE</b>	barrel of oil equivalent
<b>BOEM</b>	Bureau of Ocean Energy Management Enforcement
<b>BP</b>	best practices
<b>BMP</b>	best management practice
<b>BSER</b>	best system of emission reduction
<b>BT</b>	baseline technology
<b>BTU</b>	British thermal unit
<b>C</b>	Carbon
<b>CAA</b>	Clean Air Act
<b>CAPP</b>	Canadian Association of Petroleum Producers
<b>CAMMS-ES</b>	coded aperture miniature mass spectrometer environmental sensor
<b>CBM</b>	coalbed methane
<b>C-H</b>	carbon hydrogen bond
<b>CH<sub>4</sub></b>	methane
<b>CI</b>	chemical ionization
<b>CNG</b>	compressed natural gas
<b>CNT</b>	carbon nanotube
<b>CO</b>	carbon monoxide
<b>CO<sub>2</sub></b>	carbon dioxide
<b>CRDS</b>	cavity ring down spectroscopy
<b>CSG</b>	coal seam gas
<b>DCS</b>	dual frequency-comb spectroscopy
<b>DIAL</b>	differential absorption light detection and ranging
<b>DEP</b>	Department of Environmental Protection
<b>DOE</b>	U.S. Department of Energy
<b>DOI</b>	U.S. Department of the Interior
<b>DOT</b>	U.S. Department of Transportation
<b>DPHE</b>	Department of Public Health and Safety
<b>EI</b>	electron impact

<b>EMD</b>	Eagle II Methane Detector
<b>EPA</b>	Environmental Protection Agency
<b>ESD</b>	emergency shutdown events
<b>FEAST</b>	Fugitive Emissions Abatement Simulation Toolkit
<b>FID</b>	flame ionization detector
<b>FLIR</b>	forward looking infrared camera
<b>FTIR</b>	fourier transform infrared
<b>g/h</b>	grams per hour
<b>GAO</b>	general approval order
<b>GAO</b>	U.S. Government Accountability Office
<b>GC</b>	gas chromatography
<b>GC/MS</b>	gas chromatography/mass spectrometer
<b>GFCR</b>	gas-filter correlation radiometer
<b>GHG</b>	greenhouse gas
<b>GHGI</b>	Greenhouse Gas Inventory
<b>GHGRP</b>	Greenhouse Gas Reporting Program
<b>GOADS</b>	Gulfwide Offshore Activity Data System
<b>GRI</b>	Gas Research Institute
<b>GWP</b>	global warming potential
<b>H</b>	hydrogen
<b>H<sub>2</sub>S</b>	hydrogen sulfide
<b>HAP</b>	hazardous air pollutant
<b>HNLF</b>	highly nonlinear fiber
<b>HOH</b>	hot oil heaters
<b>HRDL</b>	High-Resolution Doppler Lidar
<b>HVS</b>	high volume sampler
<b>Hz</b>	hertz
<b>ICOS</b>	integrated cavity output spectroscopy
<b>ICP-MS</b>	inductively coupled plasma – mass spectrometry
<b>IM</b>	integrity management
<b>InSb</b>	indium antimonide
<b>IP</b>	intellectual property
<b>IPCC</b>	Intergovernmental Panel on Climate Change
<b>IR</b>	infrared
<b>IR OGI</b>	infrared optical gas imaging
<b>JT</b>	Joule-Thomson
<b>kg</b>	kilogram
<b>kHz</b>	kilohertz
<b>LAS</b>	laser absorption spectroscopy
<b>LCA</b>	lifecycle analysis
<b>LDAR</b>	leak detection and repair
<b>LDC</b>	local distribution company
<b>LDRL</b>	leak detection with large-scale optical imaging technology
<b>LDRO</b>	leak detection with optical imaging technology
<b>LDRS</b>	leak detection with sampling
<b>LMA</b>	large mode area
<b>LNG</b>	liquified natural gas
<b>m</b>	meter

<b>M&amp;R</b>	metering and regulations stations
<b>m/z</b>	mass-to-charge ratio
<b>MACT</b>	maximum achievable control technology
<b>MAL</b>	minimal action leak
<b>Mcf</b>	one thousand standard cubic feet of natural gas
<b>MDC</b>	methane detectors challenge
<b>MDL</b>	minimal detectable leak
<b>METEC</b>	methane emissions technology evaluation center
<b>MMT</b>	million metric tons
<b>MONITOR</b>	Methane Observation Networks with Innovative Technology to Obtain Reductions program
<b>MOS</b>	metal oxide semi-conductor
<b>M&amp;R</b>	metering and regulating
<b>MS</b>	mass spectrometry
<b>MT</b>	metric ton
<b>ug/m<sup>3</sup></b>	microgram per cubic meter
<b>MW</b>	molecular weight
<b>N/A</b>	not applicable
<b>NAMA</b>	Nationally Appropriate Mitigation Actions
<b>NESHAP</b>	National Emission Standard for Hazardous Air Pollutants
<b>NGL</b>	natural gas liquids
<b>NOAA</b>	National Oceanic and Atmospheric Administration
<b>NSPS</b>	New Source Performance Standards
<b>O&amp;G</b>	oil and gas
<b>OGI</b>	optical gas imaging
<b>OMI</b>	optical modulation index
<b>OP-FTIR</b>	Open Path Fourier Transform Infrared
<b>OTM</b>	other test method
<b>PEMEX</b>	Petróleos Mexicanos
<b>PFP</b>	programmable flask package
<b>PHMSA</b>	Pipeline and Hazardous Materials Safety Administration
<b>PIG</b>	pipeline inspection gauge
<b>POC</b>	point of contact
<b>ppbv</b>	parts per billion by volume
<b>ppm</b>	parts per million
<b>ppm-m</b>	part per million per meter
<b>ppmv</b>	parts per million by volume
<b>PUC</b>	public utility commission
<b>QOGI</b>	quantitative optical gas imaging
<b>R&amp;D</b>	research and development
<b>RMLD</b>	remote methane leak detector
<b>SCFH</b>	standard cubic feet per hour
<b>SCFM</b>	standard cubic feet per minute
<b>SLPM</b>	standard liters per minute
<b>SIP</b>	State Implementation Plan
<b>SNR</b>	signal-to-noise ratio
<b>Solar FTIR</b>	Solar Occultation Flux
<b>STEM</b>	storage tank emission management
<b>TC</b>	thermal conductivity

<b>TDL</b>	tunable diode laser
<b>TDLAS</b>	tunable diode laser absorption spectroscopy
<b>TDS</b>	total dissolved solids
<b>TDTS</b>	transmission-distribution transfer stations
<b>TILDAS</b>	tunable infrared laser direct absorption spectroscopy
<b>TOC</b>	total organic compound
<b>TRL</b>	technology readiness level
<b>TUT</b>	technology under test
<b>TVA</b>	toxic vapor analyzer
<b>TVOC</b>	total volatile organic compounds
<b>USB</b>	Universal Serial Bus
<b>USEPA</b>	United States Environmental Protection Agency
<b>V/V</b>	volume to volume
<b>VOC</b>	volatile organic compound
<b>VRU</b>	vapor recovery unit
<b>WY DEQ</b>	Wyoming Department of Environmental Quality

Publication Date: September 28, 2018