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LIST OF ACRONYMS AND ABBREVIATIONS

| Acronym or Abbreviation | Full Phrase |
|-------------------------|---|
| 4x4 | four-wheel drive vehicle |
| 4WD | four-wheel drive vehicle |
| AADT | average annual daily traffic |
| ACEC | Area of Critical Environmental Concern |
| ACHP | Advisory Council on Historic Preservation |
| ADA | Americans with Disabilities Act |
| AERMOD | Modeling system developed by the American Meteorological Society/Environmental Protection Agency Regulatory Model Improvement Committee |
| AGC | American Gypsum Company |
| AHPA | Archaeological and Historic Preservation Act of 1974 |
| AIRFA | American Indian Religious Freedom Act |
| ALIVE | A Landscape-Level Inventory of Valued Ecosystem Components |
| Alt | alternative |
| AML | abandoned mine land |
| AMP | allotment management plan |
| AMS | analysis of management situation |
| APCD | Air Pollution Control Division |
| APD | application for permit to drill (oil and gas) |
| AQMP | Air Quality Management Plan |
| AQRV | Air Quality Related Values |
| ARMP | Air Resources Management Plan |
| ARPA | Archaeological Resources Protection Act of 1979 |
| ATV | all-terrain vehicle |
| ARTSD | Air Resources Technical Support Document |
| ASQ | Allowable Sale Quantity |
| AU | assessment unit |
| AUM | animal-unit month |
| BBM | benefits based management |
| BCC | Birds of Conservation Concern |
| BGEPA | Bald and Golden Eagle Protection Act |
| BIA | Bureau of Indian Affairs |
| BLM | United States Department of the Interior, Bureau of Land Management |
| BLM lands | surface acres administered by the Bureau of Land Management |
| BLM-S | Bureau of Land Management sensitive species |
| BMP | best management practice |
| BOR | United States Department of the Interior, Bureau of Reclamation |
| BTEX | benzene, toluene, ethylbenzene, and xylenes |
| Btu | British thermal unit |
| ° C | degrees Celsius |
| CAA | Clean Air Act |
| CAAQS | Colorado Ambient Air Quality Standards |
| CAFO | concentrated animal feeding operation |
| CALPUFF | California Puff model |
| CAMx | Comprehensive Air Quality Model with Extensions |
| CASTNET | Clean Air Status and Trends Network |
| CARPP | Comprehensive Air Resources Protection Protocol |
| CCR | Colorado Code of Regulations |
| CCS | Colorado Cave Survey |

LIST OF ACRONYMS AND ABBREVIATIONS *(continued)*

Acronym or Abbreviation Full Phrase

| | |
|-------------------|--|
| CDA | Colorado Department of Agriculture |
| CDNST | Continental Divide National Scenic Trail |
| CDOT | Colorado Department of Transportation |
| CDOW | Colorado Division of Wildlife (In 2011, this agency changed its name to Colorado Parks and Wildlife (CPW).) |
| CDPHE | Colorado Department of Public Health and Environment |
| CEQ | Council on Environmental Quality |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CFR | Code of Federal Regulations |
| cfs | cubic feet per second |
| CH ₄ | methane |
| CIAA | cumulative impact analysis area |
| CL | closures to mineral leasing |
| CMP | Corridor Management Plan |
| cm/s | centimeters per second |
| CNAP | Colorado Natural Areas Program |
| CNHP | Colorado Natural Heritage Program |
| COA | Condition of Approval |
| COGCC | Colorado Oil and Gas Conservation Commission |
| CO | carbon monoxide |
| CO ₂ | carbon dioxide |
| CO ₂ e | carbon dioxide equivalent |
| CPW | Colorado Parks and Wildlife (In 2011, CPW became the new name for Colorado Division of Wildlife [CDOW].) |
| CSU | controlled surface use |
| CRCT | Colorado River cutthroat trout |
| CRVFO | Colorado River Valley Field Office |
| CRWCD | Colorado River Water Conservation District |
| CTTM | Comprehensive Trails and Travel Management |
| CWA | Clean Water Act of 1977 |
| CWCB | Colorado Water Conservation Board |
| CWQCC | Colorado Water Quality Control Commission |
| DARG | Dominguez Archaeological Resource Group |
| DAT | deposition analysis threshold |
| DAU | Data Analysis Unit |
| DBH | diameter at breast height |
| DDT | dichloro-diphenyl-trichloroethane |
| DLE | desert land entry |
| DNA | deoxyribonucleic acid |
| DOE | United States Department of Energy |
| DOI | United States Department of the Interior |
| dv | deciview |
| DVB | baseline design value |
| DVF | future design value |
| EA | environmental assessment |
| EIA | United States Energy Information Agency |
| EIS | environmental impact statement |
| EO | Executive Order |
| EPA | United States Environmental Protection Agency |
| eq | equivalents |

LIST OF ACRONYMS AND ABBREVIATIONS *(continued)*

Acronym or Abbreviation Full Phrase

| | |
|------------------------|---|
| ERMA | Extensive Recreation Management Area |
| ESA | Endangered Species Act of 1973 |
| ESR | emergency stabilization and rehabilitation |
| ° F | degrees Fahrenheit |
| FAMS | Facility Asset Management System |
| FAR | functioning at risk |
| -DOWN | -downward trend |
| -NA | -no apparent trend |
| -UP | -upward trend |
| FC | federal candidate for listing as threatened or endangered |
| FCRPA | Federal Caves Resources Protection Act |
| FE | federal endangered species |
| FEAST | Forestry Economics Analysis Spreadsheet Tool |
| federal mineral estate | subsurface mineral estate administered by the Bureau of Land Management |
| FERC | Federal Energy Regulatory Commission |
| FHO | foot and horse only |
| FEIS | final environmental impact statement |
| FHWA | Federal Highway Administration |
| FLPMA | Federal Land Policy and Management Act of 1976, as amended |
| FMC | Fire Management Class |
| FMP | fire management plan |
| FMU | Fire Management Unit |
| FMZ | fire management zone |
| FOGRMA | Federal Oil and Gas Resources Royalty Management Act |
| FP | federal proposed for listing as threatened or endangered |
| FS | United States Department of Agriculture, Forest Service |
| FSV | full-sized vehicle |
| FR | Federal Register |
| FRCC | fire regime condition class |
| FT | federal threatened species |
| GAP | Geographic Area Plan |
| GCPHD | Garfield County Public Health Department |
| GHG | greenhouse gas |
| GIS | Geographic Information Systems |
| GJFO | Grand Junction Field Office |
| GRFO | Green River Field Office |
| GMU | game management unit |
| COGA | Colorado Oil and Gas Association |
| GPO | United States Government Printing Office |
| GPS | global positioning system |
| GS | geological survey |
| GSFO | Glenwood Springs Field Office |
| GSRA | Glenwood Springs Resource Area |
| GWP | global warming potential |
| H ₂ S | hydrogen sulfide |
| HAP | hazardous air pollutants |
| HFC | hydrofluorocarbon (climate change) |
| HOA | homeowners association |

LIST OF ACRONYMS AND ABBREVIATIONS *(continued)*

Acronym or Abbreviation Full Phrase

| | |
|-------------------------|--|
| IBLA | Interior Board of Land Appeals |
| IDT | interdisciplinary team |
| IM | instruction memorandum |
| IMP | Integrated Management Plan (weeds) |
| IMPROVE | Inter-agency Monitoring of Protected Environments |
| IPCC | Intergovernmental Panel on Climate Change |
| | |
| KFO | Kremmling Field Office |
| kg | kilogram |
| km | kilometer |
| kV | kilovolt |
| kWh/m ² /day | kilowatt hours per square meter per day |
| | |
| LAC | Limit of Acceptable Change |
| LAU | Lynx Analysis Unit |
| LCAS | Lynx Conservation and Assessment Strategy |
| LHA | Land Health Assessment |
| LN | lease notice (oil and gas) |
| LUA | land use authorizations |
| LUP | land use plan |
| | |
| m ³ /s | cubic meters per second |
| MBF | thousand board feet |
| MBTA | Migratory Bird Treaty Act |
| mcf | 1,000 cubic feet |
| MDP | Master Development Plan |
| MW | megawatt |
| µeq/l | microequivalents per liter |
| µg/m ³ | micrograms per cubic meter |
| MIST | minimum impact suppression tactics |
| MLP | Master Leasing Plan |
| MMBF | million board feet |
| MMBtu | million British thermal units |
| MMscf | million standard cubic feet |
| MOA | memorandum of agreement |
| MOU | memorandum of understanding |
| mph | miles per hour |
| mtpy | metric tons per year |
| MW | megawatt |
| | |
| N | nitrogen |
| N ₂ O | nitrous oxide |
| NAA | non-attainment area |
| NAAQS | National Ambient Air Quality Standards |
| NADP | National Atmospheric Deposition Program |
| NAGPRA | Native American Graves Protection and Repatriation Act of 1990 |
| NAICS | North American Industry Classification System |
| NCSHPO | National Conference of State Historic Preservation Officers |
| NDVI | Normalized Difference Vegetation Index |
| NEA | Natural Environment Area |
| NEI | National Emissions Inventory |
| NEPA | National Environmental Policy Act of 1969, as amended |
| NESHAPs | National Emission Standards for Hazardous Air Pollutants |

LIST OF ACRONYMS AND ABBREVIATIONS *(continued)*

| Acronym or Abbreviation | Full Phrase |
|-------------------------|---|
| NF | nonfunctional/not functioning |
| NFMA | National Forest Management Act of 1976 |
| NHPA | National Historic Preservation Act of 1966 |
| NL | No Leasing Designation (oil and gas) |
| NMFS | National Marine Fisheries Service |
| NRHP | National Register of Historic Places |
| NO ₂ | nitrogen dioxide |
| NO _x | nitrogen oxides |
| NOA | Notice of Availability |
| NOAA | National Oceanic and Atmospheric Administration |
| NOI | Notice of Intent |
| NOS | Notice of Staking |
| NOSR | Naval Oil Shale Reserve |
| NPA | National Programmatic Agreement |
| NPS | United States Department of the Interior, National Park Service |
| NRCS | United States Department of Agriculture, Natural Resources Conservation Service |
| NREL | National Renewable Energy Laboratory |
| NRHP | National Register of Historic Places |
| NRMDPS | Northern Rocky Mountain distinct population segment |
| NSO | no surface occupancy or surface-disturbing activities |
| NVUM | National Visitor Use Monitoring |
| NWSRS | National Wild and Scenic Rivers System |
| O ₂ | oxygen |
| O ₃ | ozone |
| OHV | off-highway vehicle |
| ORV | off-road vehicle |
| ORV | outstandingly remarkable value |
| OSTS | Oil Shale and Tar Sands |
| PA | programmatic agreement |
| PCGCC | Pew Center on Global Climate Change |
| PCPI | per capita personal income |
| PEIS | programmatic environmental impact statement |
| PER | programmatic environmental report |
| PFC | perfluorocarbons (climate change) |
| PFC | proper functioning condition (land health) |
| PFYC | Potential Fossil Yield Classification |
| PILT | payment in lieu of taxes |
| PM _{2.5} | particulate matter of 2.5 micrometers or less (fine) |
| PM ₁₀ | particulate matter of 10 micrometers or less (inhalable) |
| ppb | parts per billion |
| PPE | personal protection equipment |
| ppm | parts per million |
| ppmv | parts per million by volume |
| PSD | Prevention of Significant Deterioration |
| PSQ | probable sale quantity |
| QA | quality assurance |
| QC | quality control |
| R&PP | Recreation and Public Purpose (leases) |

LIST OF ACRONYMS AND ABBREVIATIONS *(continued)*

| Acronym or Abbreviation | Full Phrase |
|-------------------------|---|
| R&VS | recreation and visitor services |
| RAC | Resource Advisory Council |
| RCRA | Resource Conservation and Recovery Act |
| RFD | reasonable foreseeable development |
| RFFA | reasonably foreseeable future action(s) |
| RMA | Recreation Management Area |
| RMIS | Recreation Management Information System |
| RMCO-NRDC | Rocky Mountain Climate Organization and the Natural Resources Defense Council |
| RMP | resource management plan |
| RMPA | resource management plan amendment |
| RMZ | recreation management zone |
| RNA | Research Natural Area |
| RPA | Forest and Rangeland Renewable Resource Planning Act |
| ROD | record of decision |
| ROS | Recreation Opportunity Spectrum |
| ROW | right-of-way (lands and realty) |
| RSC | recreation setting character |
| S | sulfur |
| SC | state species of concern |
| SDWA | Safe Drinking Water Act |
| SE | state endangered species |
| SF ₆ | sulfur hexafluoride |
| SHPO | State Historic Preservation Office(r) |
| SIA | Special Interest Area |
| SIP | Colorado's State Implementation Plan |
| SNPC | Significant Natural Plant Communities |
| SO ₂ | sulfur dioxide |
| SOP | standard operating procedure |
| SPPC | Spill Prevention, Control and Countermeasure |
| SRMA | Special Recreation Management Area |
| SRP | Special Recreation Permit |
| ST | state threatened species |
| Stakeholder Group | Upper Colorado River Wild and Scenic Stakeholder Group |
| SWA | state wildlife area |
| SWAP | State of Colorado Source Water Assessment and Protection |
| SWEEP | Stream and Wetland Ecological Enhancement Program |
| SWSI | Statewide Water Supply Initiative |
| TCP | traditional cultural property |
| TDS | total dissolved solids |
| TL | timing limitation (seasonal restriction) |
| TMDL | total maximum daily load |
| TPI | total personal income |
| TPS | Total Petroleum System |
| tpy | tons per year (short) |
| UCR | Upper Colorado River |
| URS | URS Group, Inc. or URS Corporation |
| US | United States |
| USC | United States Code |
| USDA | United States Department of Agriculture |

LIST OF ACRONYMS AND ABBREVIATIONS *(continued)*

Acronym or Abbreviation Full Phrase

| | |
|--------|--|
| USDI | United States Department of the Interior |
| USDOT | United States Department of Transportation |
| USFS | United States Department of Agriculture, Forest Service |
| USFWS | United States Department of the Interior, Fish and Wildlife Service |
| USGCRP | United States Global Change Research Program |
| USGS | United States Geological Survey |
| | |
| VOC | volatile organic compounds |
| VRI | visual resource inventory |
| VRM | visual resource management |
| | |
| WFDSS | Wildland Fire Decision Support System |
| WNS | white-nose syndrome |
| WRFO | White River Field Office |
| WRI | World Resources Institute |
| WRNF | United States Department of Agriculture, Forest Service, White River National Forest |
| | |
| WSA | wilderness study area |
| WSR | Wild and Scenic Rivers |
| WUI | wildland urban interface |
| | |
| YOY | young-of-year |