

ACRONYMS AND DEFINITIONS

Useful Acronyms

- ADEC:** Alaska Department of Environmental Conservation
- ADNR:** Alaska Department of Natural Resources
- ADOT&PF:** Alaska Department of Transportation and Public Facilities
- ANTHC:** Alaska Native Tribal Health Consortium
- BLM:** Bureau of Land Management
- USDOT:** US Department of Transportation
- EPA:** United States Environmental Protection Agency
- FHWA:** Federal Highways Administration
- FRM:** Federal Reference Method
- NAAQS:** National Ambient Air Quality Standard
- PM₁₀:** coarse particulate matter
- UAF:** University of Alaska Fairbanks

Definitions

Aggregate: Gravel is made up of three groups of aggregate: stone, sand, and fines.

Coarse particulate matter (PM₁₀, dust): Dust falls into the category of PM₁₀, or coarse particulate matter, which includes particulate matter of 10 microns or less. PM₁₀ primarily comes from road dust, agricultural dust, river beds, construction sites, mining operations, and similar activities.

Corrugation/washboarding: Corrugation of the road surface occurs as a result of erosion, and creates a driving surface characterized by many small bumps and dips.

Fines: Fines are the fine-grained material in road aggregates. Fines are clay and silt sized particles. When fines are not bound to the surface of other particles, they easily become airborne dust.

Fugitive dust: Fugitive dust is small airborne particles called particulate matter.

Invasive plants: Invasive plants are not native to a region and have a tendency to spread quickly, overtaking native plants.

Native plants: Native plants are indigenous to an area and occur naturally. They form the most sustainable habitat. When choosing revegetation as a dust mitigation strategy, only use native plant species.

Suppressant: Dust suppressants, or “palliatives”, are applied to unpaved roads to control dust.

Road crown: Road crown describes the cross-sectional shape of a road surface. A well-designed crown allows water to run off a road.

Road grade: Road grade, or road slope, is the incline of the road.