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  
PM$_{10}$: 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 (PM$_{10}$, dust)**: Dust falls into the category of PM$_{10}$, or coarse particulate matter, which includes particulate matter of 10 microns or less. PM$_{10}$ 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.