

## **Appendix B: Fugitive Dust Control Plan Guidelines**

The Fugitive Dust Control Plan (Plan) has the purpose to control the fugitive dust emissions from asphalt plant and crusher related activities. The Plan is required for all MG3 and MG9 permit holders (Condition 19 in both permits), in order to ensure that reasonable precautions to prevent fugitive dust are taken.

A sample plan is on the following page in Appendix B. This plan may be filled out and used for any MG3 or MG9 source. You are not required to use the sample form, but similar information contained in the sample form should be included in your plan. If you already have a plan developed or you wish to develop your own plan, the following items should be addressed:

- Points capable of producing fugitive emissions;
- Control of fugitive dust sources, such as:
  - Water application;
  - Dust suppressants;
  - Wind barriers;
  - Hoods, covers, or enclosures;
  - Cleanup of loose materials;
  - Minimizing drop distances and lowering loader buckets before dumping;
  - Fans;
  - Dust collectors;
- Methods to prevent trackout or carryout, such as:
  - Grizzlies or grates;
  - Gravel pads;
  - Paved surfaces;
  - Wheel washers;
  - Truck washing.

**Appendix B: Fugitive Dust Control Plan**

Please note, it is the responsibility of the Permittee to ensure that no part of their fugitive dust control plan violates any local, state, or federal law.

**Section 1 – General Information**

<b>1-A Facility Information</b>	
Company Name:	
Plant Name:	
Permit No.:	
<b>1-B Contacts</b>	
Report the names, address, and phone numbers of persons and owners or operators responsible for the implementation of the Dust Control Plan and responsible for the dust generating operation and dust control applications.	
<i>Responsible Official</i> (authorized under 18 AAC 50.990(93))	
Name:	
Phone Number:	
<i>On-site Manager/Operator or Point of Contact</i> (if different from above)	
Name:	
Phone Number:	
<b>1-C Recordkeeping and Reporting</b>	
Keep copy of Fugitive Dust Control Plan on-site at all times.	
Keep records of deviations from dust plan, reasons for the deviation, and corrective actions taken for at least five years.	

**Section 2 – Fugitive Emission Points**

<b>2-A Fugitive Emission Points</b>
Identify the relative locations of actual and potential sources of fugitive dust emissions.
<input type="checkbox"/> Bulk material handling and storage areas. <input type="checkbox"/> Paved and unpaved access roads, haul roads, traffic areas, and equipment storage yards. <input type="checkbox"/> Exit points where carryout and trackout onto paved public roads may occur. <input type="checkbox"/> Water supply locations if water application will be used for controlling visible dust emissions. <input type="checkbox"/> Rock crushing operations. <input type="checkbox"/> Screening <input type="checkbox"/> Conveyors <input type="checkbox"/> Fines Screening <input type="checkbox"/> Asphalt plant operations <input type="checkbox"/> Screening <input type="checkbox"/> Conveyors <input type="checkbox"/> Baghouse Catch <input type="checkbox"/> Drum Mixer Discharge <input type="checkbox"/> Hot mix storage silo receiving point
<b>2-B Comments – Fugitive Emission Points</b>

**Section 3 – Control of Fugitive Dust Sources**

**3-A Control of Fugitive Dust Sources**

Check any boxes that apply. Checked boxes represent methods that will be used *as needed*.

*Active Operations*

- Water will be applied to dry areas during leveling, grading, trenching, and earthmoving activities.
- Wind barriers will be constructed and maintained, and water or dust suppressants will be applied to the disturbed surface areas.

*Inactive Operations, including after work hours, weekends, and holidays*

- Not applicable for this project (Please explain why in Section 3-C).
- Water or dust suppressants will be applied on disturbed surface areas to form a visible crust, and vehicle access will be restricted to maintain the visible crust.

*Sites Inactive for Seven or More Days*

- Not applicable for this project (Please explain why in Section 3-C).
- Vehicle access will be restricted and water/dust suppressants will be applied at all un-vegetated areas.
- Vegetation will be established on all previously disturbed areas.
- Gravel will be applied and maintained at all previously disturbed areas.
- Previously disturbed areas will be paved.

*Unpaved Access and Haul Roads, Traffic and Equipment Storage Areas*

- Not applicable for this project (Please explain why in Section 3-C).
- Apply water or dust suppressants to unpaved haul and access roads.
- Post speed limit signs of not more than 15 mph at each entrance, and again every 500 ft.
- Water or dust suppressants will be applied to vehicle traffic and equipment storage areas.

*Wind Events*

- Water application equipment will apply water to control fugitive dust during wind events, unless unsafe to do so. Outdoor construction activities that disturb the soil will cease whenever visible dust emissions cannot be effectively controlled.

**3-B Bulk Materials**

Check any boxes that apply. Checked boxes represent methods that will be used *as needed*.

*Outdoor Handling of Bulk Materials*

- Water or dust suppressants will be applied when handling bulk materials.
- Wind barriers with less than 50 percent porosity will be installed and maintained, and water or dust suppressants will be applied.

*Outdoor Storage of Bulk Materials*

- Water or dust suppressants will be applied to storage piles.
- Storage piles will be covered with tarps, plastic, or other suitable material and anchored in such a manner that prevents the cover from being removed by wind actions.
- Wind barriers with less than 50 percent porosity will be installed and maintained around the storage piles and water or dust suppressants will be applied.
- A three-sided structure (< 50% porosity) will be used that is at least as high as the storage piles.

*On-Site Transporting of Bulk Materials*

- Vehicle speed will be limited on the work site.
- All haul trucks will be loaded such that the freeboard is not less than six inches when transported across any paved public access road.
- A sufficient amount of water will be applied to the top of the load to limit visible dust emissions.
- Haul trucks will be covered with a tarp or other suitable cover.

**Section 3 – Control of Fugitive Dust Sources (cont.)**

**3-B Bulk Materials - continued**

*Off-Site Transporting of Bulk Materials*

- No bulk materials will be transported to or from the project site.
- Materials for transport will be wetted as needed.
- Covers will be used, as needed. Some or all of the following will be used as necessary:
  - The interior of emptied truck cargo compartments will be cleaned or covered before leaving the site.
  - Spillage or loss of bulk materials from holes or other openings in the cargo compartment’s floor, sides, and tailgates will be prevented.
  - Haul trucks will be covered with a tarp or other suitable cover or will be loaded such that the freeboard is not less than six inches when transported on any paved public access road to or from the project site.

*Outdoor Transport using a Chute or Conveyor*

- No chutes or conveyors will be used.
- Chute or conveyor will be fully enclosed.
- Water spray equipment will be used to sufficiently wet the materials.
- Transported materials will be washed or screened to remove fines (PM-10 or smaller).

**3-C Comments – Control of Fugitive Dust Sources**

**Section 4 – Dust Control Methods**

**4-A Water Application**

Complete this section if water application will be used as a control method for limiting visible dust emissions and stabilizing surface areas. Check and answer everything that applies. Checked boxes represent methods that will be used *as needed*.

*Water Application Equipment:*

- Sprinklers:  
Describe the activities that will utilize sprinklers: \_\_\_\_\_
- Water Truck,  Water Trailer,  Water Wagon,  Other: \_\_\_\_\_  
Describe the activities that will utilize this equipment: \_\_\_\_\_

Water application equipment is available to operate after normal working hours, on weekends, and holiday.  
After-hours contact: \_\_\_\_\_ Phone number: \_\_\_\_\_

*Water Supply (as needed):*

- Fire hydrants. Obtain necessary approval to use specific hydrants.
- Storage tanks      Number and capacity: \_\_\_\_\_
- Wells      Number and flow rate: \_\_\_\_\_
- Canal, River, Pond, Lake, etc.      Describe: \_\_\_\_\_  
Approval granted by the owner or public agency to use their water source for this project.  
Owner or Agency: \_\_\_\_\_  
Contact: \_\_\_\_\_ Phone number: \_\_\_\_\_
- Other: \_\_\_\_\_

**Section 4 – Dust Control Methods (cont.)**

**4-B Dust Suppressant Products**

Suppressant materials include, but are not limited to: hygroscopic suppressants (road salts), adhesives, petroleum emulsions, polymer emulsions, and bituminous material (road oils).

Copy this section if more than one dust suppressant product will be used.

Not applicable. Only water application will be the control method used.

Applicable.

Product Name: \_\_\_\_\_

Application Equipment: \_\_\_\_\_

Number of Application Equipment Available: \_\_\_\_\_

Attach each of the following information that fully describes this product. Use the checklist below to make sure all information is submitted with this plan.

Product Specifications (MSDS, Product Safety Data Sheet, etc.).

Manufacturer’s Usage Instructions (method, frequency, and intensity of application).

Environmental impacts and approvals or certifications related to the appropriate and safe use for ground application.

**4-C Other Dust Control Methods**

Check the other types of dust control methods that will be implemented at the construction site.

Physical barriers for restricting unauthorized vehicle access:

Fences     Gates     Posts     Berms     Concrete Barriers

Other: \_\_\_\_\_

Wind barriers – Describe: \_\_\_\_\_

Posted speed limit signs meet state and Federal Department of Transportation standards.

Posted at 15 miles per hour,  Posted at \_\_\_\_\_ miles per hour (less than 15 mph)

Re-establish vegetation for temporarily stabilizing previously disturbed surfaces.

Explain: \_\_\_\_\_

Apply and maintain gravel:

On haul roads     On access roads     At equipment storage yards

At vehicle traffic areas     For temporarily stabilizing previously disturbed areas.

Explain: \_\_\_\_\_

Apply pavement – Explain: \_\_\_\_\_

Other: \_\_\_\_\_

**4-D Comments – Dust Control Methods**

**Section 5 – Carryout and Trackout**

<b>5-A Treatments for Preventing Trackout</b>
Trackout is any material that adheres to vehicle tires and is deposited onto a paved public road or the paved shoulder of a paved public road. Check one or a combination that will apply.
<input type="checkbox"/> <i>Grizzly</i> : Rails, pipes, or grates used to dislodge debris off of vehicles before exiting the site. Extends from the intersection with the paved public road surface for the full width of the unpaved exit surface for the distance of at least 25 feet. Describe: _____
<input type="checkbox"/> <i>Gravel Pad</i> : A layer of washed gravel at least one inch or larger in diameter, three inches deep, and extends from the intersection with the public paved road surface for the full width of the unpaved exit surface for a distance of at least 50 feet. Describe: _____
<input type="checkbox"/> <i>Paved Surface</i> : Extends from the intersection with the paved public road surface for the full width of the unpaved access road for at least 100 feet to allow mud and dirt to drop off of vehicles before exiting the site. Describe: _____ Mud and dirt deposits accumulating on paved interior roads will be removed with sufficient frequency, but not less frequently than once per workday. Clean-up Frequency: _____
<input type="checkbox"/> <i>Wheel Washer</i> : Uses water to dislodge debris from tires and vehicle undercarriage. Describe: _____
<input type="checkbox"/> <i>Other</i> : _____
<b>5-B Treatments for Preventing Carryout</b>
Carryout occurs when materials from emptied or loaded haul trucks, vehicles, or trailers falls onto a paved public road or paved shoulder of a paved public road. Check all methods that apply.
<input type="checkbox"/> No haul trucks will be routinely entering or leaving the project site.
<i>Emptied Haul Trucks</i> : <input type="checkbox"/> Interior cargo compartments will be cleaned before leaving the project site. <input type="checkbox"/> Cargo compartment will be covered with a tarp or suitable cover before leaving the project site.
<i>Loaded Haul Trucks</i> : Spillage or loss of materials from holes or other opening in the cargo compartment will be prevented when material is transported onto any paved public access road. <input type="checkbox"/> Haul trucks will be loaded such that the freeboard is not less than six inches with water applied to the top of the load before leaving the project site. <input type="checkbox"/> Cargo compartment and load will be covered with a tarp or suitable cover before leaving the project site. <input type="checkbox"/> Other: _____
<b>5-C Cleaning up Carryout and Trackout</b>
Clean up Method: Check the method(s) below that will be used for cleaning carryout and trackout.
<input type="checkbox"/> Manually sweeping and picking up. <input type="checkbox"/> Mechanical sweeping with a rotary brush or broom accompanied or preceded by water. Describe the types of equipment that will be used: _____
<input type="checkbox"/> Operating a PM10-efficient street sweeper. Make and Model: _____
<input type="checkbox"/> Flushing with water – allowed if: <ul style="list-style-type: none"> <li>• No curbs or gutters are present.</li> <li>• Using water will not result as a source of trackout and carryout.</li> <li>• Using water will not result in adverse impacts on storm water drainage systems.</li> <li>• Using water will not violate any National Pollutant Discharge Elimination System permit program or Alaska Department of Environmental Conservation, Division of Water Permit.</li> </ul>
<b>5-D Comments - Carryout and Trackout</b>