



## City of Burbank – Community Development Department **BUILDING DIVISION**

### FUGITIVE DUST CONTROL

The scope of many in-fill and redevelopment projects requires the importation and exportation of large amounts of soil. The exportation of soil from project sites while controlling dust and debris track-out to public roadways continues to be a challenge faced by contractors. To address this, the Dust Control Mitigation Policy provides detailed procedures designed to minimize the impact of fugitive dust from construction sites. The development of this Policy has evolved as new and unforeseen problems have arisen. The updated and revised procedures are a response to conditions stemming from major construction projects occurring within the City of Burbank. This implementation of the Dust Control Mitigation Policy provides improved control of fugitive dust:

- From inactive sites and soil stockpiles through the use of stabilizers and suppressants,
- During construction through use of on-site water trucks and track-out controls,
- On off-site public streets utilizing sweeping or vacuum trucks,
- During construction and hauling by employing full-time, on-site monitors,
- By restricting activity during periods of high wind.

In addition, plan submittal requirements establish a detailed monitoring and control procedure prior to the issuance of permits and during construction.

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#### **POLICY REQUIREMENTS**

The Dust Control Mitigation Policy incorporates requirements from SCAQMD Rule 402, 403 and 1186, and California Vehicle Code Section 23114, as well as Building Division requirements. The dust control mitigation measures include the following:



**Non-Toxic Soil Stabilizers or Dust Suppressants.** Soil stabilizers and dust suppressants are chemicals applied to the soil surface that maintain the moisture levels in exposed soils or actually chemically bind the surface material to reduce fugitive dust emissions from the site. Testing data is provided to the Air Resources Board by product manufacturers to determine environmental safety.

**On-Site Water Trucks.** Water trucks provide on-site control of fugitive dust while soil is being moved or disturbed. The frequency of watering is increased as construction activity increases or when visible emissions extend beyond the site. Under the policy, the Building Official has the option to increase the frequency of watering depending on site conditions and construction requirements.

**Off-Site Sweepers.** Street and roadway sweepers are certified by the Air Quality Management District and include three sweeper types: Vacuum Sweepers, Recirculating Air Sweepers, and Broom Sweepers.

**Track-Out Controls.** Track-out controls prevent dirt and mud from being spread to public streets by trucks entering and leaving construction sites, and include:

- Asphalt paving at driveway access points.
- Sweeping or spray-cleaning trucks prior to leaving the site.
- Covering the truck with a tarp and maintaining the required freeboard clearances keep excessive dust from escaping.
- Limiting on-site vehicle speeds to 15 MPH to prevent dust emissions caused by truck travel on unpaved construction sites.

## **MITIGATION MEASURES WHEN WIND GUSTS EXCEED 25 MPH.**

Wind gusts exceeding 25 MPH are considered to be a high winds. Under high wind conditions, fugitive dust from construction activity, particularly truck hauling, becomes a problem. To address this, the Building Division Policy requires that:

- All trucks be covered with a tarp, or
- All hauling operations are stopped until wind conditions permit.

**Site Monitoring.** Based on the scope of the proposed project, the amount of soil to be imported or exported, the proposed haul route, the immediate neighborhood surrounding the grading project, as well as other construction requirements, the Building Official may require the owner to employ a full-time, on-site monitor. Responsibilities and requirements include:

**Personal Dust Monitoring** through the use of portable units carried by at least one worker of each trade, and

**Site Perimeter Dust Monitoring** utilizing stationary units at specified locations. These units provide continuous data accumulation and audible alarms when dust levels exceed the established AQMD minimums.

**Plans** indicating haul routes, track-out controls, and sweeping schedules must be approved prior to the start of construction.

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## **SUMMARY OF DUST CONTROL MITIGATION MEASURES:**

1. For demolition projects and on inactive sites and on sites when no construction is projected for a 30-day period, a non-toxic soil stabilizer or dust suppressant must be provided for dust control.
2. During earth-moving activities, the following shall apply:
  - Apply water by means of trucks, hoses, and/or sprinklers prior to any construction activity.
  - Wash, vacuum, or sweep trucks before leaving the site to prevent track-out of bulk material onto public roadways.
  - Cover trucks with a tightly secured cover and provide at least 6 inches of freeboard before leaving the site.
  - Limit vehicle speeds on site to 15 mph utilizing traffic controls and signage.
  - Sweep and keep clean public roadways to remove all visible dust tracked-out, and sweep and clean public sidewalks and median strips at least once per day during active operations, subject to the approval of the Building Official. Sweeper and vacuum requirements shall be determined by the Building Official and Public Works/ Traffic Division, and will be subject to review during the construction process.
3. Track-out Controls:
  - Asphalt paving or application of non-toxic, chemical stabilization at sufficient concentration and frequency to maintain a stabilized surface from the point of intersection with the public paved surface, extending a distance of 100 feet and a width of 20 feet, and sloping into the site, or
  - Asphalt paving from the intersection with the public road surface extending a distance of 25 feet and a width of 20 feet sloping into the site, and installation of a track-out control device immediately adjacent to the public paved surface to prevent exiting vehicles from traveling on any unpaved surface after passing through the device.
4. When soil is stored or stockpiled, cover or apply non-toxic soil binder for dust control.
5. When wind gusts exceed 25 miles per hour: All vehicles must be covered, or  
Stop all vehicular traffic.
6. A Site Monitor may be required by the Building Official. When required, the monitor shall submit weekly reports to the Building Official, including:
  - A summary of activities.
  - Description and location of inactive areas.
  - A record of visible dust emissions.
  - A record of high wind conditions.
  - A list of mitigation measures for any unexpected problems.
7. The Building Official may grant modifications for individual cases when there are practical difficulties involved in carrying out the provisions of this policy or when the scale of the project makes compliance impractical.
8. All NPDES Best Management Practices for control of illicit discharge of sediment to the City's stormwater system shall apply to use of water to control fugitive dust.

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## **REQUIRED SUBMITTALS AND APPROVALS:**

1. A truck route plan shall be approved by Public Works Department - Engineering Division/ Traffic
2. A site plan indicating the type, location and extent of all track-out control paving, location and type of track-out control devices and procedures, boundaries of public paved surface to be maintained by sweeping or vacuuming, number of water trucks provided, number of sweepers provided, and a sweeping schedule shall be approved by the Building Official and Public Works Department - Engineering Division/Traffic. The haul route, number of water trucks, sweepers, and the sweeping schedule is subject to further review by the Building Official.