

# San Joaquin Valley Air Pollution Control District Fugitive PM10 Management Plan

## General Information

A Fugitive PM10 Management Plan (plan) is a compliance alternative to the 20% visible dust emission (VDE) limitation for unpaved roads and unpaved traffic areas. A plan does not apply to paved roads or paved traffic areas.

Implementing either the VDE standard or a plan is necessary only on those days when traffic exceeds or is expected to exceed 75 vehicle trips. A plan may cover multiple unpaved roads and traffic areas within a facility.

Name of Facility: \_\_\_\_\_  
 Facility Location: \_\_\_\_\_  
 City / State / Zip: \_\_\_\_\_  
 Mailing Address: \_\_\_\_\_  
 City / State / Zip: \_\_\_\_\_

**Please list the following information for persons responsible for:**

	Plan Preparation	Plan Implementation	
Name:	_____	_____	<input type="checkbox"/> Same as Plan Preparation
Title:	_____	_____	
Address:	_____	_____	
City / State / Zip	_____	_____	
Phone	( ) _____	( ) _____	
FAX	( ) _____	( ) _____	
Cell / Other	( ) _____	( ) _____	

**Type of Entity (check one)** Please include the name, title, and phone number of persons in control. Attach additional sheets if needed.

Individual       Co-partnership       Corporation       Other entity: \_\_\_\_\_

Name \_\_\_\_\_ Title \_\_\_\_\_ Phone ( ) \_\_\_\_\_

### FOR SJAVPCD USE ONLY

This Fugitive PM10 Management Plan has satisfied District rule 8011 requirements and is approved.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### FOR RESOURCE CONSERVATION DISTRICT (RCD) USE ONLY

This Fugitive PM10 Management Plan has been verified as meeting District Rule 8081 requirements.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Resource Conservation District: \_\_\_\_\_

Phone: ( ) \_\_\_\_\_

## General Information – Page 2

### Maps or Plot Plans

It is necessary to attach a map or plot plan. The locations of each unpaved road or traffic area covered by this plan shall be clearly identified and each location must be designated numerically or by name for referencing purposes.

### For Unpaved Roads:

Total Number of Treated Road Segments: \_\_\_\_\_ Total Treated Road Length: \_\_\_\_\_ miles

### For Unpaved Traffic Areas:

Total Number of Treated Traffic Areas: \_\_\_\_\_ Total Treated Traffic Area: \_\_\_\_\_ acres

### Number of Locations

Separate "Treatment Option Forms" used for describing the treatment options shall be attached for each location that may have unique traffic patterns or different PM10 control methods. Unique traffic patterns may include the numbers and types of vehicles traveling on the treated unpaved surface or different seasons or time of the year. If all locations are treated the same, submit only one form. If you desire detailed information, a District document titled *Criteria for Developing and Evaluating Fugitive PM10 Management Plans* is available from the District.

Number of "Treatment Options Forms" attached: \_\_\_\_\_

### Conditions:

1. The owner or operator shall retain a copy of a District-approved plan (or a RCD-verified plan for agricultural sources) at the operators place of business and make available for inspection upon request.
2. The plan shall remain valid until the District notifies the owner or operator (or the RCD for agricultural sources) that the plan needs to be revised, or until the owner or operator has notified the District (or the RCD for agricultural sources) that the plan is no longer being implemented.
3. Failure to comply with the provisions of a plan is deemed to be a violation of Rule 8011 (Rule 8081 for Agricultural sources).

\_\_\_\_\_  
Preparer's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Owner or Operator's Signature

\_\_\_\_\_  
Date

**Please submit the completed plan to the District office nearest you. For agricultural sources, please submit the completed plan to the Regional San Joaquin Valley Resource Conservation District (RSJV RCD)**

**SJVAPCD  
Northern Region Office**  
4800 Enterprise Way  
Modesto, CA 95356  
(209) 557-6400

**SJVAPCD  
Central Region Office**  
1990 E Gettysburg Ave  
Fresno, CA 93726  
(559) 230-5950

**SJVAPCD  
Southern Region Office**  
34946 Flyover Court  
Bakersfield, CA 93308  
(661) 392-5500

**USDA Natural Resources  
Conservation Service**  
1907 N Gateway Blvd, Ste 101  
Fresno, CA 93727  
(559) 252-2191

# Fugitive PM10 Management Plan

## Treatment Options Form – Page 1

Facility Name (as described on the “General Information Form”): \_\_\_\_\_

### 1. Specific Locations

List the locations with similar traffic patterns where similar PM10 control treatments will be maintained. Please identify the unpaved roads or unpaved traffic areas by providing a reference number from a map or plot plan, or by indicating the names of the subject roads or traffic areas. Separate forms should be used if PM10 control treatments differ or if traffic occurs at different times of the year.

Road Names or Reference Numbers: \_\_\_\_\_ Total Miles: \_\_\_\_\_

\_\_\_\_\_

Traffic Area Names or Reference Numbers: \_\_\_\_\_ Total Acres: \_\_\_\_\_

\_\_\_\_\_

### 2. Vehicle Activity

Check the months of the year when vehicle traffic is expected to exceed 75 vehicle trips per day, and vehicle types (passenger cars, trucks, etc.). Implements of husbandry are exempt for agricultural sources. If known, identify the weeks by reporting the beginning and ending dates.

Month	Dates	Month	Dates	Month	Dates
<input type="checkbox"/> January		<input type="checkbox"/> May		<input type="checkbox"/> September	
<input type="checkbox"/> February		<input type="checkbox"/> June		<input type="checkbox"/> October	
<input type="checkbox"/> March		<input type="checkbox"/> July		<input type="checkbox"/> November	
<input type="checkbox"/> April		<input type="checkbox"/> August		<input type="checkbox"/> December	

### 3. District-accepted PM10 Control Methods

Please indicate the PM10 control method that will be employed by placing a check next to the control options selected below. It may be necessary to attach product specifications, manufacturer’s usage instructions, and environmental impacts and approval certificates related to the safe use of ground applications. The following treatments have been demonstrated to achieve 50% PM10 control.

- |   |  |
|---|--|
| <input type="checkbox"/> Water Application                                    | <input type="checkbox"/> Petroleum Emulsions             |
| <input type="checkbox"/> Hygroscopic Suppressants (Road Salts)                | <input type="checkbox"/> Polymer Emulsions               |
| <input type="checkbox"/> Adhesives  | <input type="checkbox"/> Bituminous Materials (Road Oil) |
| <input type="checkbox"/> Posted 10mph Speed Limit & Restricted Vehicle Access |  |

**Secondary PM10 Control Methods:** The effectiveness of a control method can be enhanced by limiting vehicle speed to 15 miles per hour or less and applying gravel or recycled aggregate material to the unpaved surface area. Though implementing a secondary control method itself is not approved, the District encourages its use in addition to the accepted PM10 control methods listed above. Please describe the secondary method that will be used, if one is proposed:

\_\_\_\_\_

## Treatment Options Form – Page 2

Facility Name (from previous page) \_\_\_\_\_

Specific Locations (from previous page) \_\_\_\_\_

Please complete Section I if water application was chosen as a District-accepted PM10 Control method in item 3 on the previous page (Treatment Options Form – Page 1). For all other applications, please complete Section II.

**Section I – Water Application.** Please complete only if water application was chosen in item 3 on the previous page.

1. **Application Frequency:** The minimum number of necessary water applications per day is based on traffic volume. Please check the appropriate box or indicate the number of vehicle trips and water applications if different.  
 150 vehicle trips per day or less: One application per day.  
 151 to 225 vehicle trips per day: Two applications per day.  
 226 to 300 vehicle trips per day: Three applications per day.  
 \_\_\_\_\_ vehicle trips per day: \_\_\_\_\_ applications per day.  
**Number of applications per day**
2. **Approximate time of each application:** \_\_\_\_\_  
Note: For maximum benefit, it is recommended that applications take place shortly before heavy traffic volumes but at such times and manner to allow for water to be absorbed to prevent mud trackout onto paved roads.
3. **Application Rate:** Please specify the water application rate that will be used for PM10 control:  
 \_\_\_\_\_ Gallons per Acre of area  
 \_\_\_\_\_ Gallons per Mile of unpaved road  

<b>Minimum Water Application Rates:</b> 650 gallons/acre 600 gallons/mile for a road 8 feet wide 750 gallons/mile for a road 10 feet wide 900 gallons/mile for a road 12 feet wide
--
4. **Equipment:** Please list the number and type of equipment (water truck, water wagon, trailer, etc.) that will be used for applying water, and the capacity of each in gallons:  
\_\_\_\_\_
5. **Condition of Surface after Treatment:** Please describe the condition and observable changes to be achieved as a result of water application and re-application. This may include expected color change, visual observance of surface crusting or compaction, or other observable conditions.  
\_\_\_\_\_

**Section II – Hygroscopic/Chemical/Organic Materials.** Please complete for control methods other than water application.

Product Name: \_\_\_\_\_  
Contractor's Name: \_\_\_\_\_ Phone Number: ( ) \_\_\_\_\_  
Application Rate: \_\_\_\_\_ Gallons of *undiluted* material per mile of acre treated  
Application Frequency: \_\_\_\_\_ Applications per year

**Minimum Application Frequencies:**

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>- Hygroscopic Suppressants (Road Salts)</li><li>- Adhesives</li><li>- Petroleum Emulsions</li></ul> | <p><b>Seasonal Sources (operating four months per year or less):</b><br/>One application per year within 30 days of the start of the season.<br/><b>All Other Sources:</b> Two applications per year. One application in the middle of spring and the other in late summer, unless otherwise specified by the manufacturer.</p> |
| <ul style="list-style-type: none"><li>- Polymer Emulsions</li></ul>   | One application per year, per manufacturer's specifications. For seasonal sources, apply within 30 days of the start of the season.   |
| <ul style="list-style-type: none"><li>- Bituminous Materials</li></ul>  | One initial application. Reapplication within next two years.   |

**Condition of Surface after Treatment:** Please describe the condition and observable changes to be achieved as a result of the application and maintenance of the PM10 control measure taken. This may include expected color change, visual observation of oil coverage, surface crusting or compaction, or other observable conditions:  
\_\_\_\_\_