CITY OF INDIO

100 CIVIC CENTER MALL
INDIO, CALIFORNIA 92201
TEL: (760) 391-4017
FAX: (760) 342-6590

NOTICE TO GRADING PERMIT APPLICANTS

New Dust Control Ordinance Requirements

On November 19, 2003, the City Council of the City of Indio unanimously passed Ordinance 1357 which revised Sections 95.131A through 95.135A of the Indio Municipal Code, more commonly known as the Dust Control Ordinance. This ordinance was enacted April 1, 2004, to comply with requirements from the South Coast Air Quality Management District (AQMD), and has created new requirements for all applicants for grading permits.

1. All projects disturbing less than 5,000 sq. ft. of earth must complete a PM10 plan. Providing PM10 notes on the grading plan will no longer be adequate. Consult the AQMD Dust Control Handbook for additional requirements on larger projects.

2. The PMI0 plan will need to be prepared per the instructions in the AQMD Dust Control Handbook. Form templates for preparing the plan are available from the City or the AQMD.

3. Any individual responsible for preparing a PMl0 plan must possess a certificate of attendance for the Coachella Valley Fugitive Dust Control Class.

4. Any person performing any site grading, whether contractor or owner, must possess a certificate of attendance for the Coachella Valley Fugitive Dust Control Class or designate an individual who has a certificate of attendance to represent them by completing a Owner Designee form.

If you have not yet attended the class you will need to contact the AQMD Tuesday through Friday between the hours of 7:00 AM and 5:30 PM. To register, contact:

Sharon Fujimoto
South Coast Air Quality Management District
(866) 861-3878
dustcontrol@agmd.gov

Classes are held monthly in the CVAG building in the Palm Desert Civic Center. *
Contact the AQMD for the exact elates and times of the classes.
There is no fee to take the class.

**If you have o group of at least 15 persons desiring to become certified, the AQMD will conduct the class at your site free of charge.*

CITY OF INDIO ENGINEERING DIVISION
GRADING PERMIT AND PM10 REQUIREMENTS

► *When Is a Grading Permit Needed?*

No person shall conduct any grading, excavation, earth moving, filling, clearing, brushing or grubbing on natural or existing grade, or perform work that is preparatory to grading, without first having obtained a valid grading permit.

Grading permits expire 180 days after the date of issuance. This includes 90 days within which work must begin and then work must be completed within the following 90 days.

► *Types of Grading Permits*

Mass Grading Permit - Issued for clearing and grubbing, and spreading earth material.

Rough Grading Permit - Issued for general grading work, prior to precise grading of a site.

Stockpile Grading Permit - Issued for the temporary stockpile of materials with the understanding that the materials shall be removed from the stockpile site, or compacted and worked under a rough grading permit within six months. The stockpile material must be graded and placed such that unreasonable erosion will not occur and the material does not interfere in any way with existing natural or improved drainage courses or channels.

Precise (Finish) Grading Permit - Issued for the construction of concrete or asphalt paving, or any other surfacing material in excess of 6,000 square feet, on natural or existing grade for the purpose of a private road or travel way, or in excess of 1,000 square feet for any commercial, industrial, multi-residential parking lot.

► *PM10 Requirements*

All projects ***disturbing*** more than 5,000 sq. ft. of earth must complete a PM10 plan, consisting of a 24"x36" plan and an 8 ½"x11" handout.

The City of Indio requires a Cashiers Check and a cash Certificate of Deposit, in an amount equal to at least two thousand dollars ($2,000.00) per acre or portion thereof. Such funds shall be in an amount sufficient to completely stabilize all disturbed areas in the event that the Operator fails to adequately control dust, or abandons the site in lieu of mitigating fugitive dust problems; and shall be easily accessible to the City in order to initiate stabilization measures without a significant delay. Up to twenty thousand dollars ($20,000.00) shall be in a cashiers check made payable to the City of Indio, any amount above that shall be in the form of a Certificate of Deposit.

Disturbed Surface Area - means a portion of the earth's surface which has been physically moved, uncovered, destabilized, or otherwise modified from its undisturbed natural soil condition, thereby increasing the potential for emission of fugitive dust. This definition excludes those areas which have:

(A) been restored to a natural state, such that the vegetative ground cover and soil characteristics are similar to adjacent or nearby natural conditions;
(B) been paved or otherwise covered by a permanent structure; or
(C) sustained a vegetative ground cover of at least 70 percent of the native cover for a particular area for at least 30 days.

Further information can be found in section 162 of the City of Indio Code of Ordinances and AQMD Booklet

Justification

If you believe that none of the control measures for a given source category are technically feasible or if they would conflict with other regulations, please describe the justification in the space provided. Please be specific. If necessary, attach additional information.

JURISDICTION APPROVAL

CITY (COUNTY) OF: _____

APPROVED BY: _____
Print Name Signature and Title

DATE: _____

CITY OF INDIO
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Instructions For Preparing a PM10 Plan
Projects Greater Than 10 Acres

Use of an 8 ½ by 11 inch, stand alone site-specific fugitive dust control plan is required regardless if the information is included on an approved grading plan.

1. If you have not yet attended the Coachella Valley Fugitive Dust Control Class and received a certificate of completion, and you are not designating a certified individual to act in your behalf, contact the AQMD to register for the class. Contact Sharon Fujimoto at (866) 861-3878. The class is offered monthly free of charge.

2. Fill out the 4 pages of the Palm Desert Fugitive Dust Control Plan Application Form - (FORM A). When completing Form "A" follow instructions to complete a vicinity map and site exhibit.

3. If you are designating a certified individual to act on your behalf, complete the Ownership Designee Form - (FORM OD).

4. Fill out the 5 pages of the City of Indio Fugitive Dust Control Plan for Projects less than 10 Acres - (FORM DCP). In each source category place an 'X' next to the best available control measure(s) you intend to use. If a source category is not applicable to your project, write "N/A" over the box.

5. Submit the PMl0 Plan Packet to the Depai1ment of Public Works with your grading plan submittal.

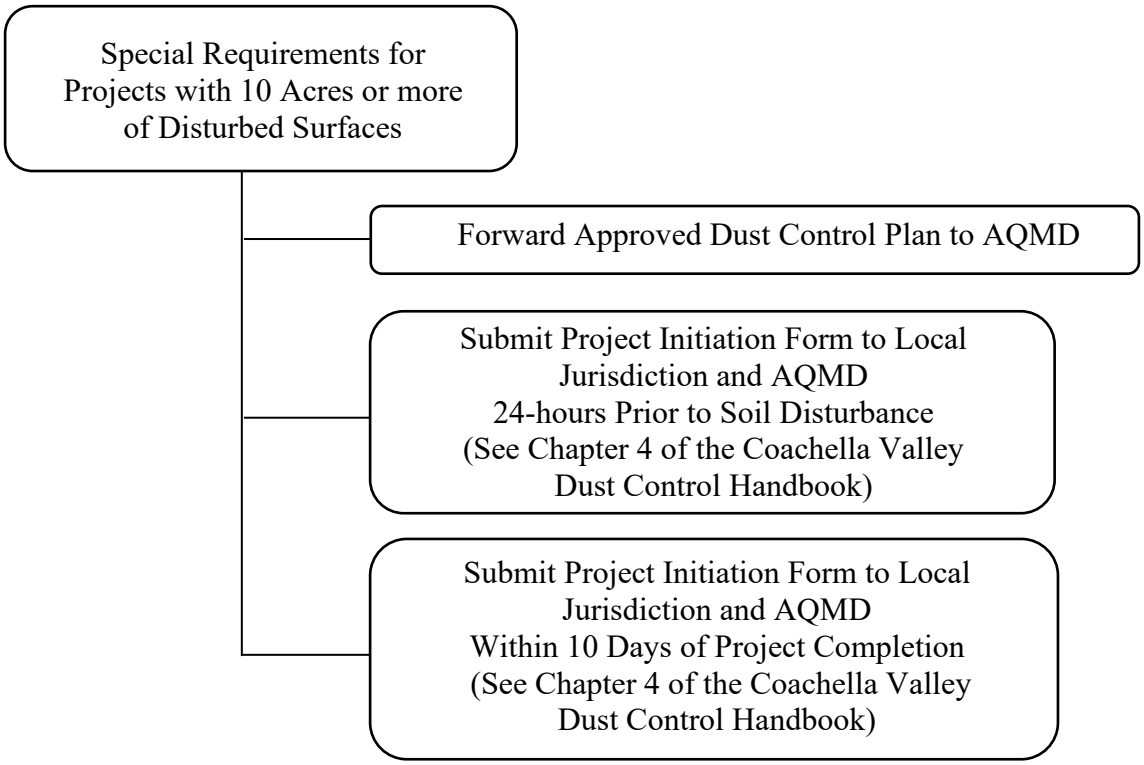
6. At the time of grading permit issuance, obtain a PM10 sign per the attached drawing, and post at the site entrance prior to starting any grading operations. The sign may be removed only after all grading activities have ceased, any exposed areas have been stabilized, and the grading has received a final inspection signoff.

7. Forms PI and PC must be completed at the start and finish of the project.

SUMMARY FLOWCHART FOR CONSTRUCTION ACTIVITY REQUIREMENTS

The following is a summary checklist and flowchart for the construction activity dust control ordinance requirements. Project operators, Fugitive Dust Control Plan reviewers, and code enforcement personnel can use this to ensure that all dust control ordinance requirements are met throughout the construction process. Additional information on specific requirements is included in the referenced Handbook Chapters.

- □ Implement Coachella Valley BACM for all sources (Coachella Valley Dust Control Handbook Chapter 2)
- □ All sites requiring a grading permit, or that involve more than 5,000 square feet of soil disturbance, or import/export more than 100 cubic yards of material per day must prepare and have a Fugitive Dust Control Plan approved by the permitting authority (Coachella Valley Dust Control Handbook Chapter 3)



- □ Install construction project signage (Coachella Valley Dust Control Handbook Chapter 5)
- □ Maintain daily dust control log and chemical stabilization recordkeeping (Coachella Valley Dust Control Handbook Chapter 6)
- □ Ensure compliance with applicable test methods (Coachella Valley Dust Control Handbook Chapter 8)

SUMMARY OF DUST CONTROL ORDINANCE REQUIREMENTS

The Coachella Valley dust control ordinances require local government approval of a Fugitive Dust Control Plan prior to:

Issuance of a grading permit

Issuance of a building permit for projects with 5,000 or more square feet of soil disturbance

Issuance of permits for projects that import or export more than 100 cubic feet of bulk material per day

The Fugitive Dust Control Plan requirements consist of two elements:

(1) Fugitive Dust Control Plan Application (Form A);

and

(2) Fugitive Dust Control Plan (Form DCP or equivalent for projects with less than 10 acres of disturbed surfaces or a Site-Specific Fugitive Dust Control Plan for projects with 10 or more acres of disturbed surfaces)

The following guidance has been prepared for construction project operators to facilitate preparation of consistent Fugitive Dust Control Plans throughout the Valley.

FUGITIVE DUST CONTROL PLAN APPLICATION FORM

The following instructions have been prepared to assist project operators in preparing a Fugitive Dust Control Plan application (Form A) for construction activities. Submitting a complete application is essential in expediting the process, so please read and follow the instructions carefully.

In addition to the Fugitive Dust Control Plan application (Form A), construction activities are required to prepare a Fugitive Dust Control Plan.

Guidance for preparing Fugitive Dust Control Plans for smaller projects (less than 10 acres of disturbed surfaces) and larger projects (10 acres or more of disturbed surfaces) is also included in this Chapter.

INDIO public works	**CITY OF INDIO** 100 CIVIC CENTER MALL INDIO, CALIFORNIA 92201 TEL: (760) 391-4017 FAX: (760) 342-6590	**PM10 PLAN** **(FORM A)** **PAGE #l**

Fugitive Dust Control Plan Application Form
(Form A – Page 1 of 4)

Please print in ink or type. Blank spaces must be completed for the application to be processed. If an item is not applicable, please enter N/A.

1. Form Preparer: Property Owner ☐ Developer ☐ Prime Contractor ☐ Other ☐*
* (If Other, attach Owner Designee Form OD) *

CONTACT PERSON NAME	
COMPANY NAME	
COMPANY ADDRESS	
CITY, STATE, ZIP CODE	
TELEPHONE NUMBER	
FACSIMILE NUMBER	
24-HOUR, MANNED AFTER HOURS PHONE NUMBER	
AQMD DUST CLASS CERTIFICATE #	

2. Project Address or Location

PROJECT NAME	
PROJECT ADDRESS	
CITY, STATE, ZIP CODE	
NEAREST MAJOR CROSS STREETS	
TRACT/PARCEL AND LOT NUMBERS	

Fugitive Dust Control Plan Application Form
(Form A – Page 2 of 4)

3. Project Acreage (total land to be disturbed)

(include project site and associated unpaved access roads' stockpiles and staging areas

PROJECT SIZE (ACRES)	
WATER SOURCE (GPM)	

4. Project Owner (if Fugitive Dust Control Plan preparer is not the property owner)

NAME	
COMPANY NAME (IF APPLICABLE)	
ADDRESS (INCLUDE CITY, STATE, & ZIP CODE)	
TELEPHONE NUMBER	
FACSIMILE NUMBER	

5. The Person(s) responsible for dust control measures and to whom official notices should be sent if necessary

RESPONISBLE PERSON	
COMPANY NAME	
ADDRESS (INCLUDE CITY, STATE, & ZIP CODE)	
TELEPHONE NUMBER	
24-HOUR, MANNED AFTER-HOURS TELEPHONE NUMBER	
FACSIMILE NUMBER	
AQMD DUST CLASS CERTIFICATE #	

Fugitive Dust Control Plan Application Form

(Form A – Page 3 of 4)

6. On-Site Superintendent/Supervisor/Foreman contact

NAME	
COMPANY NAME	
ADDRESS (INCLUDE CITY, STATE, & ZIP CODE)	
TELEPHONE NUMBER	
24-HOUR, MANNED AFTER-HOURS TELEPHONE NUMBER	
AQMD DUST CLASS CERTIFICATE #	

7. Site Mapping

Provide a map showing the vicinity of the project clearly identifying the closest major cross streets or other landmarks and the project location. Label this map "**Vicinity Map**". Required map size is 8 ½" by 11".

Provide an 8 ½" by 11" or larger **Assessor Parcel Map** for the property(s) on which the project will be occurring. Identify the affected parcels. Identify location of site entrances, internal unpaved haul routes, wind fencing, areas to be chemically stabilized and other proposed and required dust control mitigations. Projects that are only installing or constructing linear features such as roads, pipelines or other utilities that border or cross more than one Assessor's parcel do not require Assessor's Parcel Maps, but must provide a detailed vicinity map adequately depicting the entire project area. If the project is divided into construction phases (separate physical project areas), provide an exhibit clearly identifying the phases.

8. Attach a Fugitive Dust Control Plan

✓ Projects with less than 10 acres of disturbed surfaces must complete and attach a Fugitive Dust Control Plan (Form DCP) or equivalent.

✓ Projects with 10 acres or more of disturbed surfaces must complete and attach a Site-Specific Fugitive Dust Control Plan. Guidance for preparation of a Site-Specific Fugitive Dust Control Plan is included later in this Chapter.

Fugitive Dust Control Plan Application Form

(Form A – Page 4 of 4)

9. Project notifications

For projects with 10 acres or more of disturbed surfaces, the dust control ordinance requires notification to the local permitting authority and to the AQMD prior to project initiation and at project completion. (Refer to Chapter 4 of the Coachella Valley Fugitive Dust Control Handbook for specific requirements and forms).

10. Project Signage

Construction signage must be installed on-site prior to construction. Guidelines for construction signage are found in Chapter 5 of the Coachella Valley Dust Control Handbook.

11. Owner Agreement

A signature on this application constitutes an agreement by the owner to be the person with authority to enforce compliance by all contractors and subcontractors of the Dust Control Ordinance, Fugitive Dust Control Plan conditions, and any supplements identified by the permitting authority. Once approved, this application is incorporated by reference and becomes a part of the approved site grading plan.

Owner or Owner Designee Signature _____ Date _____

Printed Name _____ Title and Company _____

AQMD Coachella Valley Fugitive Dust Control Class Certificate # _____

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PM10 PLAN

(FORM OD)

PAGE #1

Ownership Designee Form
(Form OD)

An owner's designee form is required if a Fugitive Dust Control Plan is not prepared/implemented by the property owner, developer, or prime contractor.

PROPERTY OWNER INFORMATION	PLEASE ENTER INFORMATION BELOW
PROPERTY OWNER'S NAME	
ADDRESS/LOCATION	
PHONE NUMBER	
24-HOUR, MANNED AFTER-HOURS PHONE NUMBER	

PROJECT INFORMATION	PLEASE ENTER INFORMATION BELOW
DESIGNEE'S NAME	
COMPANY NAME	
ADDRESS/LOCATION	
PHONE NUMBER	
AFTER-HOURS PHONE NUMBER	
AQMD DUST CLASS CERTIFICATE #	

OWNER STATEMENT

I hereby authorize the person listed as my designee to act on my behalf in all matters regarding the issuance and requirements of the Fugitive Dust Control Plan for construction activities. The designee is responsible for project duration. The designee has successfully completed the AQMD Coachella Valley Fugitive Dust Control Class. Furthermore, the designee is responsible for ensuring the contractor(s), subcontractor(s), and all other persons associated with the project are in compliance with the approved Fugitive Dust Control Plan, dust control ordinance requirements, and AQMD regulations.

Owner's Signature _____ Date

Printed Name _____

INDIO public works	**CITY OF INDIO** 100 CIVIC CENTER MALL INDIO, CALIFORNIA 92201 TEL: (760) 391-4017 FAX: (760) 342-6590	**PM10 PLAN** **FUGITIVE DUST CONTROL PLAN** **INSTRUCTIONS**

FUGITIVE DUST CONTROL PLAN PREPARATION GUIDANCE FOR LARGER CONSTRUCTION PROJECTS (10 ACRES OR LARGER)

In addition to the Fugitive Dust Control Plan application (Form A), the dust control ordinance requires a City (County) approved Site-Specific Fugitive Dust Control Plan for projects with 10 acres or more of disturbed surfaces. The following guidance has been prepared to describe the required elements of a Site-Specific Fugitive Dust Control Plan. Remember: two copies of the Site-Specific Fugitive Dust Control Plan must be forwarded by the operator to the AQMD in an 8½" x 11" format, using the supplied form within 10 days after approval by the permitting authority. Please submit copies of approved Site-Specific Fugitive Dust Control Plans to:

Phil Hubbard
Supervising Investigator
South Coast AQMD
21865 East Copley Drive
Diamond Bar, CA 91765
(909) 396-2966
(909) 396-2608 [Facsimile]
phubbard@aqmd.gov

Required Elements of Site-Specific Fugitive Dust Control Plan

Project Description

This section of the Fugitive Dust Control Plan must provide a complete description of the project, a development plan, a schedule of activities, and a time frame for project completion. Additionally, this section must contain a description of soil types on site and an estimated proposed expenditure for the total project dust control budget.

Water Source Identification

This section must contain a description and location of the water supply that is dedicated to dust control. Also, identify sources of a back-up water supply if proposed in conjunction with a contingency measure. This section covers earth-moving activities for the life of the project.

Coachella Valley Best Available Control Measures:

This section must include a description of the primary dust control measures selected for each source at the project site (e.g., No. 1 - Earth-Movement, No. 2 - Unpaved Roads, etc.) based on the list of CV BACM included in this Handbook. This section must also have a description of the fugitive dust control measures to be implemented during non-working hours.

Control Measures Guidance:

Suggested minimum standards for a Site-Specific Fugitive Dust Control Plan are presented below. As a reminder, specific applicable dust control ordinance requirements are provided in italics. Additionally, grading plans must include a statement that incorporates the Site-Specific Fugitive Dust Control Plan into the approved grading plan.

No. 1 EARTH-MOVEMENT

Project Phasing

If feasible, use grading permit conditions to **break the project into phases** so that only a portion of the site is disturbed at any given time to ensure control of fugitive dust. This technique is critical for project sites with greater than 100 acres.

Pre-Watering

Prior to initiating activity, **pre-water site** through use of portable irrigation lines. At least 72 hours of pre-watering is recommended for each area prior to initiating earth-movement. The operator must specify water source and available flow rate (gpm).

Watering During Earth-Movement Activities

Water applied continuously to all disturbed portions of the site by means of water truck/water pull as necessary to maintain sufficient visible moisture on the soil surface. For reference, one 2,000-gallon water truck can treat approximately 4 acres of active construction per hour during non-high-wind conditions. Also, for cut and fill activities, one 10,000-gallon water pull is estimated to be necessary for each 7,000 cubic yards of daily earth-movement. Multiple 4,000-gallon water trucks may be used in place of one 10,000-gallon water pull. Touch and visual contrast are reasonably good indicators of soil moisture. Surface areas that are dry to the touch and appear lighter colored require the application of additional water to prevent fugitive dust. The operator must specify the number and type of watering vehicles available for dust control during each project phase as well as during off-hours and the availability of back-up water trucks if the site experiences dust control problems (see also contingency measure requirements below).

Water towers are necessary for projects with more than 10 acres of active construction. Without a water tower, it can take up to 30 minutes to fill a 2,000-gallon water truck. Also, multiple water towers are necessary for projects that use water pulls as filling one 10,000-gallon water pull can drain a water tower that can take up to 40 minutes to refill.

Perimeter Controls

Wind fencing is necessary between the site and nearby residences or businesses. Off-site upwind fencing and on-site wind fencing for larger projects can also keep blowsand from being deposited onto the site or traveling through the site. Block walls, if part of the final project, can replace wind fencing during the site construction phase.

A perimeter **watering system** or fence line misting system consisting of portable irrigation equipment may be an effective fugitive dust mitigation system to protect surrounding residences and businesses. The local jurisdiction may also be provided access to this equipment.

Site Stabilization

Chemical dust suppressants are to be applied in accordance with the manufacturer's specifications and in sufficient concentrations and frequency to ensure compliance with the applicable test methods. Recordkeeping is necessary to demonstrate compliance. Wind fencing or other obstructions can keep areas previously treated with dust control suppressants free from future disturbances.

Vegetation can be a cost-effective alternative to chemical stabilization for areas that will remain inactive for long periods. Wind fencing or other obstructions can keep the vegetated area free from future disturbances.

Specific Dust Control Ordinance Requirements:

The dust control ordinance includes the following short-term and long-term stabilization requirements:

Short-term stabilization (after-hours/weekends) options include maintaining soils in a damp condition, watering to develop a surface crust, or use of chemical stabilization products.

Contingency Measures

This section must describe the contingency measures to be implemented if a primary control measure fails to adequately control dust emissions according to the applicable performance standards (e.g., plume length of greater than 100 feet, or crossing any property line, or 20 percent opacity). Also, describe the steps that will be taken to initiate a contingency measure.

No. 2 - UNPAVED ROAD TRAVEL

Surface Improvements

Paving of the internal roadway network early in a project's development phase can reduce chemical dust suppressant reapplication costs. Periodic **street cleaning** throughout project construction will likely be required to ensure compliance with the dust control ordinance track-out requirements and to reduce entrained road dust.

Application of **gravel** or other material with a lower silt content than the underlying soils can be an effective surface improvement for dust control. For reference, the specific requirements for a gravel pad to prevent track-out are minimum one inch or larger washed gravel maintained to a depth of six inches. Periodic maintenance (grading and spot reapplication) may be required.

Surface Treatments

Chemical dust suppressants designed by the manufacturer for traffic areas, and applied in accordance with manufacturer's specifications and in sufficient concentrations and frequency to ensure compliance with the applicable test methods once final roadway elevations have been reached. Limiting/restricting access to non-road areas can also reduce the need to retreat areas previously stabilized.

Constant watering of unpaved roads, haul routes, and equipment paths represents a short-term, cost-effective dust control action. High evaporation rate may justify use of chemical dust suppressants for a longer-term control. For reference, U.S. EPA studies have documented a 50 percent reduction in PM10 emissions under a water application rate of 0.2 gallons per square yard per hour.

Source Extent Reduction

Unpaved road emissions are a function of the number of vehicles traversing the area and the vehicle speeds. Accordingly, programs to **reduce vehicular trips or vehicle speeds** can reduce fugitive dust emissions. Frequent watering or application of chemical stabilizers would likely be required in addition to the source extent measures to ensure that the applicable performance standards are met.

Contingency Measures

Contingency measures must be identified for each unpaved haul road/internal access route. This section must describe the contingency measures to be implemented if a primary control measure fails to adequately control dust emissions according to the applicable performance standards (e.g., plume length of greater than 100 feet, or crossing any property line, or 20 percent opacity). Also, describe the steps that will be taken to initiate a contingency measure.

No. 3 - STORAGE PILES/BULK MATERIAL HANDLING

Wind Sheltering

Install and maintain **wind barriers** with no less than 50 percent porosity on three sides of the pile, such that the barrier is equal to or greater than the pile height.

Coverings can be used on smaller storage piles to prevent windblown dust. Any covering must be secured to ensure that it remains in place and effective.

Storage Pile Stabilization

Water applied continuously to all disturbed portions of the storage piles by means of water truck or sprinkler system as necessary to maintain sufficient visible moisture on the pile surface.

Chemical dust suppressants can be an effective control measure for storage piles with infrequent disturbances. Any product used must be applied in accordance with the manufacturer's specifications and in sufficient concentrations and frequency to ensure compliance with the applicable test methods. Recordkeeping is necessary to demonstrate compliance.

Vegetation can be a cost-effective alternative to chemical stabilization for storage piles that will remain inactive for long periods. Wind fencing or other obstructions can keep the vegetated area free from future disturbances.

Material Handling

Confining **load-in/load-out** of material to the leeward (downwind) side of the pile can reduce wind erosion of storage piles. This control measure would likely need to be implemented in conjunction with other control measures to achieve the applicable performance standards.

Stockpiles within 100 yards of occupied buildings must not be greater than eight feet in height.

Stockpiles greater than eight feet in height and not covered must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.

Contingency Measures

Contingency measures must be identified for each storage pile/material handling source. This section must describe the contingency measures to be implemented if a primary control measure fails to adequately control dust emissions according to the applicable performance standards (e.g., plume length of greater than 100 feet, or crossing any property line, or 20 percent opacity). Also, describe the steps that will be taken to initiate a contingency measure.

NO. 4 - VEHICULAR TRACK-OUT, HAULING, CLEANUP

Track-Out Prevention

Construction site accesses are to be improved with paving or gravel. If the project site is not balanced (e.g., off-site material transport), a wheel washing system and/or ribbed steel plates must be placed in the roadway before the vehicle enters the paved/graveled area to clean the tires and prevent track-out.

Covering haul vehicles or utilizing **bedliners** can prevent material from being lofted out of the vehicle or from falling out of the bottom of the vehicle.

Specific Dust Control Ordinance Requirements:

The dust control ordinance also requires at least one of the following track-out control devices for projects greater than five acres or those that import or export more than 100 cubic yards of material per day:

Gravel pad consisting of minimum one inch or larger washed gravel maintained to a *depth of six inches at least* 50 *feet long and 30 feet wide; OR*

Paved surface extending at least 100 feet into the site and at least
20 *wide; OR*

Wheel shaker/wheel spreading device consisting of raised dividers (rails, pipes, or grates) at least three inches tall and at least six inches apart; OR

Installation and maintenance of a *wheel washing system.*

Track-Out Mitigation

Street sweeping can be an effective mitigation measure if material is tracked out on to paved roads surrounding the site. Efforts to prevent material track-out will reduce sweeping costs.

Specific Dust Control Ordinance Requirements:

The dust control ordinance requires removal of material anytime it extends for a cumulative distance of more than 25 feet from any site access and at the conclusion of the workday.

Contingency Measures

Contingency measures must be identified for each track-out source. This section must describe the contingency measures to be implemented if a primary control measure fails to adequately control dust emissions according to the applicable performance standards (e.g., track-out extending more than 25 feet from any site access point). Also, describe the steps that will be taken to initiate a contingency measure.

NO. 5 DISTURBED SURFACES/INACTIVE SITES

During Dust Generating Activities

Water applied continuously to all disturbed portions of the site by means of water truck/water pull as necessary to maintain sufficient visible moisture on the soil surface. For reference, one 2,000-gallon water truck can treat approximately 4 acres of active construction per hour during non-high-wind conditions. Also, for cut and fill activities, one 10,000-gallon water pull is estimated to be necessary for each 7,000 cubic yards of daily earth-movement. Multiple 4,000-gallon water trucks may be used in place of one 10,000-gallon water pull. Touch and visual contrast are reasonably good indicators of soil moisture. Surface areas that are dry to the touch and appear lighter colored require the application of additional water to prevent fugitive dust. The operator must specify the number and type of watering vehicles available for dust control during each project phase as well as during off-hours and the availability of back-up water trucks if the site experiences dust control problems (see also contingency measure requirements below).

Water towers are necessary for projects with more than 10 acres of active construction. Without a water tower, it can take up to 30 minutes to fill a 2,000-gallon water truck. Also, multiple water towers are necessary for projects that use water pulls as filling one 10,000-gallon water pull can drain a water tower that can take up to 40 minutes to refill.

Perimeter Controls

Wind fencing is necessary between the site and nearby residences or businesses. Off-site upwind fencing and on-site wind fencing for larger projects can also keep blowsand from being deposited onto the site or traveling through the site. Block walls, if part of the final project, can replace wind fencing during the site construction phase.

A perimeter **watering system** or fence line misting system consisting of portable irrigation equipment may be an effective fugitive dust mitigation system to protect surrounding residences and businesses. The local jurisdiction may also be provided access to this equipment.

Temporary Stabilization During Weekends, After Work Hours, Holidays

Depending on site soil types, **water** can be used to either maintain soils in a damp condition or to develop a surface crust.

Chemical dust suppressants, diluted in accordance with the manufacturer's specifications for short-term stabilization can be an effective technique for areas that will be subject to future disturbances.

Access Restriction

Fencing or other obstructions can keep the stabilized area free from future disturbances and thereby reduce the potential for windblown dust.

Specific Dust Control Ordinance Requirements:

The dust control ordinance includes the following short-term (weekend, after hour, and holiday) stabilization requirements:

- *maintaining soils in a damp condition,*
- *watering to develop a surface crust, or*
- *use of chemical stabilization products.*

Long Term Stabilization

Chemical dust suppressants, applied in accordance with the manufacturer's specifications and in sufficient concentrations and frequency to ensure compliance with the applicable test methods can be an effective long-term stabilization technique. Recordkeeping is necessary to demonstrate compliance. Portable irrigation is necessary to ensure adequate site coverage. Wind fencing or other obstructions can keep areas previously treated with dust control suppressants free from future disturbances.

Vegetation can be a cost-effective alternative to chemical stabilization for areas that will remain inactive for long periods. Wind fencing or other obstructions can keep the vegetated area free from future disturbances.

Specific Dust Control Ordinance Requirements:

The dust control ordinance includes the following long-term stabilization requirement (required within 10 days of ceasing activity for sites with no planned activity for at least 30 days):

- *vegetation with an active watering system or*
- *application of chemical dust suppressants with physical access restrictions surrounding the disturbed surface.*

Perimeter Controls

Wind fencing is necessary between the site and nearby residences or businesses. Off-site upwind fencing and on-site wind fencing for larger projects can also keep blowsand from being deposited onto the site or traveling through the site. Block walls, if part of the final project, can replace wind fencing during the site construction phase.

A perimeter **watering system** or fence line misting system consisting of portable irrigation equipment may be an effective fugitive dust mitigation system to protect surrounding residences and businesses. The portable watering system may be used in place of or in conjunction with watering trucks. The local jurisdiction may also be provided access to this equipment.

Contingency Measures

Contingency measures must be identified for disturbed surface areas or inactive portions of a construction site. This section must describe the contingency measures to be implemented if a primary control measure fails to adequately control dust emissions according to the applicable performance standards (e.g., plume length of greater than 100 feet, or crossing any property line, or 20 percent opacity). Also, describe the steps that will be taken to initiate a contingency measure.

NO. 6 - UNPAVED PARKING LOTS

Areas Subject to Frequent Disturbances

Equipment staging areas are to be treated with at least one-inch washed gravel maintained to a depth of four inches or treated with chemical dust suppressants designed by the manufacturer for traffic areas, and applied in accordance with the manufacturer's specifications and in sufficient concentrations and frequency to ensure compliance with the applicable test methods.

Employee parking areas are to be covered with at least one-inch washed gravel maintained to a depth of four inches or treated with chemical dust suppressants designed by the manufacturer for traffic areas, and applied in accordance with the manufacturer's specifications and in sufficient concentrations and frequency to ensure compliance with the applicable test methods. If an internal roadway network is paved, employees are to be instructed to park only on paved areas.

Contingency Measures

Contingency measures must be identified for each unpaved parking lot. This section must describe the contingency measures to be implemented if a primary control measure fails to adequately control dust emissions according to the applicable performance standards (e.g., plume length of greater than 100 feet, or crossing any property line, or 20 percent opacity). Also, describe the steps that will be taken to initiate a contingency measure.

NO. 7 - EMPLOYEE TRAINING

Employee Dust Control Training and Compliance:

This section must describe how on-site personnel will ensure that the project remains in compliance with the Site-Specific Fugitive Dust Control Plan. This section must include a statement of the authority and training of personnel that will allow the attainment of this goal.

Specific Dust Control Ordinance Requirements:

The dust control ordinance requires that any Fugitive Dust Control Plan preparer, environmental observer, and at least one representative of any on-site general contractor or subcontractor involved in soil disturbance activities to complete the AQMD Coachella Valley Fugitive Dust Control Class and maintain a valid certificate of completion.

Environmental Observer

The dust control ordinance requires an environmental observer for projects with greater than or equal to 50 acres of disturbed surfaces. The environmental observer must have completed the AQMD Coachella Valley Fugitive Dust Control Class and have dust control as the primary responsibility with the authority to immediately employ additional dust control efforts.

DUST CONTROL PLAN TEMPLATE

A template to assist in the preparation of a Site-Specific Fugitive Dust Control Plan is provided in the following pages. Operators may use this template as a guide, however, all the elements listed in the preceding pages must be included in the Site-Specific Fugitive Dust Control Plan. Additionally, use of an 8 ½" by 11 inch, stand alone Site-Specific Fugitive Dust Control Plan is required regardless if the information is included on an approved grading plan.

SITE-SPECIFIC FUGITIVE DUST CONTROL PLAN*
(SITES 10 ACRES OR GREATER)

Site Description

Please ensure that Fugitive Dust Control Plan Application (Form A) is completed and attached to the Site-Specific Fugitive Dust Control Plan.

Project Description

Please provide the following information as completely as possible.

No. **Description of Source(s)** *[Please provide best estimates]*

1 **Earth-moving** (If not applicable, check here __)

Maximum cubic yards of earth-movement: _____/month or _____/year

Anticipated start date: _____ End date ____ or Ongoing____ (Check)

Amount of export: _____ (Disposal site) _____

2 **Unpaved roads** (If not applicable, check here ____)

Mileage: _____Estimate of average daily traffic levels: _____

Type of motor vehicles using roads: _____

3 **Storage piles/Bulk Material handling** (If not applicable, check here _____)

Maximum number of piles: _____

Average height: _____ length/width: _____

Configuration: ____cone ____ windrow ____ other (specify) _____

4 **Vehicular track-out/Cleanup** (If not applicable, check here _____)

Number of access points which connect to public roads: _____

Estimate of the maximum number of vehicles that will exit the site: _____/ day

5 **Disturbed surface areas** (If not applicable, check here ___)

Maximum acreage: _____

Will any disturbed surface areas remain inactive for at least 10 days? Yes ___ No ___

6 **Unpaved Parking Lots** (If not applicable, check here ___)

Number of unpaved lots at this site: _____

Size of each lot: _____

Soil Types

Primary soil type on site:

_____

Dust Control Budget

Estimate of project dust control budget:

_____

Water Source Identification

Water source (gpm);

_____

Back-up water source:

_____

- Use of an 8 ½ by 11 inch, stand alone site-specific fugitive dust control plan is required regardless if the information is included on an approved grading plan

No. 1 - EARTH-MOVEMENT

Coachella Valley Best Available Control Measures:

In the space provided below, please check and describe your dust control measures.

Control Measure	Control Action
Pre-grading Planning	Number of acres to be graded at one time: _____ Number of parcels to be phase-graded: _____
Watering (pre-grading)	Number of water trucks: _____ Frequency of application: _____ Sprinkler/hose system: _____ Describe: _____
Watering (during grading)	Number of water trucks: _____ Frequency of application: _____ Sprinkler/hose system: _____ Describe: _____
Watering (post grading)	Number of water trucks: _____ Frequency of application: _____ Sprinkler/hose system: _____ Describe: _____
Wind fencing	Maximum height: _____ Location: _____ Describe: _____ _____
Chemical stabilization	Type of product: _____ Frequency of application: _____ Concentration: _____ Describe: _____ _____ _____
Cover haul vehicles/Bedliners in haul vehicles	Operator of haul vehicles, if other than site owner: _____ _____ _____
Other (specify)	_____
Contingency measure(s)	_____ _____

If necessary, attach additional information.

No. 2 - UNPAVED ROAD TRAVEL*

Coachella Valley Best Available Control Measures:

In the space provided below, please check and describe your dust control measures

Control Measure	Control Action
Paving	Frequency of street sweeping:_____ Describe:_____
Gravel	Depth of gravel:_____ Describe:_____
Chemical stabilization	Type of product:_____ Frequency of application:_____ Concentration:_____ Describe:_____
Watering	Frequency of application:_____ Describe:_____
Reduce speed	Maximum speed limit: _____miles per hour How are speeds controlled: Post signs _____; Briefings to workers _____
Trip reduction	Describe how achieved:_____
Other (specify)	
Contingency measure(s)	

If necessary, attach additional information.

• All unpaved haul roads and parking areas must be identified on the Dust Control Plan site map and all vehicles shall only use established haul routes and parking areas.

No. 3 STORAGE PILES/BULK MATERIAL HANDLING

Coachella Valley Best Available Control Measures:

In the space provided below, please check and describe your dust control measures

Control Measure	Control Action
Wind sheltering	Type of barriers:_____ Average height of barriers:_____ Describe:_____
Coverings	Types of coverings:_____ Describe:_____
Watering	Method of application:_____ Frequency of application:_____ Describe:_____
Chemical stabilization	Type of product:_____ Frequency of application:_____ Concentration:_____ Describe:_____
Vegetation	
Loadin/loadout	Orientation of loadin/loadout procedures: N S E W Describe:_____
Contingency measure(s)	

If necessary, attach additional information.

No. 4 - VEHICULAR TRACK-OUT, HAULING, CLEANUP

Note: If track out, spillage, or carry-out extend more than 25 feet along a paved public roadway, finalize clean-up activities within one hour. Also remove any track-out, spillage or carry-out at the conclusion of the workday.

Coachella Valley Best Available Control Measures:

In the space provided below, please check and describe your dust control measures

Control Measure	Control Action
Gravel pads	Location:_____ Size:_____ *(Minimum dimensions: 1" or larger washed gravel, maintained at 6" depth, 50' long x 30' wide)*
Paving	Location:_____ *(Minimum dimensions: 100' long x 20' wide)*
Track-out device **Type of device**	Locations:_____ Describe:_____
Wheel washers	Location:_____ Describe:_____
Cover haul vehicles/ Bedliners in haul vehicles	Operator of haul vehicles, if other than site operator:_____
Sweep/clean roadways	Frequency:_____ Type of equipment:_____ Describe:_____
Other (specify)	
Contingency measure(s)	

If necessary, attach additional information.

No. 5 - DISTURBED SURFACES/INACTIVE SITES

Coachella Valley Best Available Control Measures:

In the space provided below, please check and describe your dust control measures

Control Measure **Control Action**

During Dust Generating Activities

Watering

Method of application: _____
Frequency:_____
Describe:_____
_____

Wind fencing

Location:_____
Height:_____
Describe:_____
_____

Site access

Method of vehicle restriction:_____
_____

Chemical stabilization

Type of product:_____
Frequency of application:_____
Concentration:_____
Describe:_____
_____
_____

Vegetation

Location:_____
Plant type:_____
Describe:_____
_____

Temporary Stabilization During Weekends, After Work Hours, and on Holidays

Watering

Method of application:_____
Frequency:_____
Describe:_____
_____

Chemical stabilization

Type of product:_____
Frequency of application: _____
Concentration:_____

Site access

Method of vehicle restriction:_____

No. 5 - DISTURBED SURFACES/INACTIVE SITES (Continued)

Coachella Valley Best Available Control Measures:

In the space provided below, please check and describe your dust control measures

Long-Term Stabilization

Control Measure	Control Action
Chemical stabilization	Type of product:_____ Frequency of application: _____ Concentration: _____
Vegetation	Location:_____ Plant type:_____
Wind fencing	Location:_____ Height:_____ Describe:_____
Other (specify)	_____
Contingency measure(s)	_____

If necessary, attach additional information.

NOTIFICATION FORMS

Summary of Dust Control Ordinance Requirements

The dust control ordinance requires the project operator for sites with IO acres or more of soil disturbance to notify the local permitting authority and the AQMD at the following construction phases:

Project Initiation Phase

Project Initiation Form must be submitted to local permitting authority and AQMD at least 24-hours prior to conducting earth-movement activities

Project Completion Phase

Project Completion Fonn must be submitted to local permitting auth01ity and AQMD within IO days of establishment of final elevations or at the conclusion of the finished grading inspection.

The following sample forms have been prepared to assist project operators in complying with these requirements. Once complete, the AQMD contact where forms can be directed to is:

Phil Hubbard
Supervising Investigator
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765
(909) 396-2608 (Facsimile)
phubbard@aqmd.gov (e-mail)

Questions on submittal of the forms can be directed to Phil Hubbard at (909) 396-2966.

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100 CIVIC CENTER MALL
INDIO, CALIFORNIA 92201
TEL: (760) 391-4017
FAX: (760) 342-6590

PM10 PLAN

(FORM PI)

PAGE #1

Project Initiation Form
For Projects ≥ 10 Acres (Form PI)

The dust control ordinance requires notification at least 24-hours prior to initiating earth-moving activities (includes clearing and grubbing). Submittal of the form to the local permitting authority and the AQMD satisfies this requirement.

Project Phases

PROJECT INFORMATION	PLEASE ENTER INFORMATION BELOW
PLAN/PERMIT NUMBER	
CONSTRUCTION PROJECT NAME	
PROJECT ADDRESS/LOCATION	
OWNER NAME	
PHONE NUMBER	
24-HOUR, MANNED AFTER-HOURS PHONE NUMBER	

OWNER (DESIGNEE) STATEMENT

Earth-moving activities for the above entitled project will commence on the following dates:

Clearing and/or grubbing: _____
(If Applicable) _____
_____
_____

Earth-moving _____
_____
_____
_____

Owner (Designee) Signature _____

Date _____

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PM10 PLAN

(FORM PC)

PAGE #1

Fugitive Dust Control Plan
For Projects ≥ 10 Acres (Form PC)

PROJECT INFORMATION	PLEASE ENTER INFORMATION BELOW
PLAN/PERMIT NUMBER	
CONSTRUCTION PROJECT NAME	
PROJECT ADDRESS/LOCATION	
OWNER NAME	
PHONE NUMBER	
24-HOUR, MANNED AFTER-HOURS PHONE NUMBER	

OWNER (DESIGNEE) STATEMENT

I certify that all exterior construction activity has ceased on all of the land area subject to the approved Fugitive Dust Control Plan. No further soil disturbing activity will be occurring. All soil areas have been stabilized to prevent wind erosion of soil by the following method(s):

_____ landscaping
_____ chemical dust suppressants
_____ gravel cover
_____ building covering entire surface
_____ paving
_____ other method (describe)

Owner Signature _____ Date _____

Inspection Results

An inspection by a representative of the City (County) of _____ has been performed with the following results noted:

_____ Construction has ceased and the entire site has been adequately treated for long-term stabilization
_____ Construction has ceased, but portions of the site have not been adequately treated for long-term stabilization (Attach additional stabilization requirements)

Enforcement Officer _____ Date _____

RECORDKEEPING FORMS

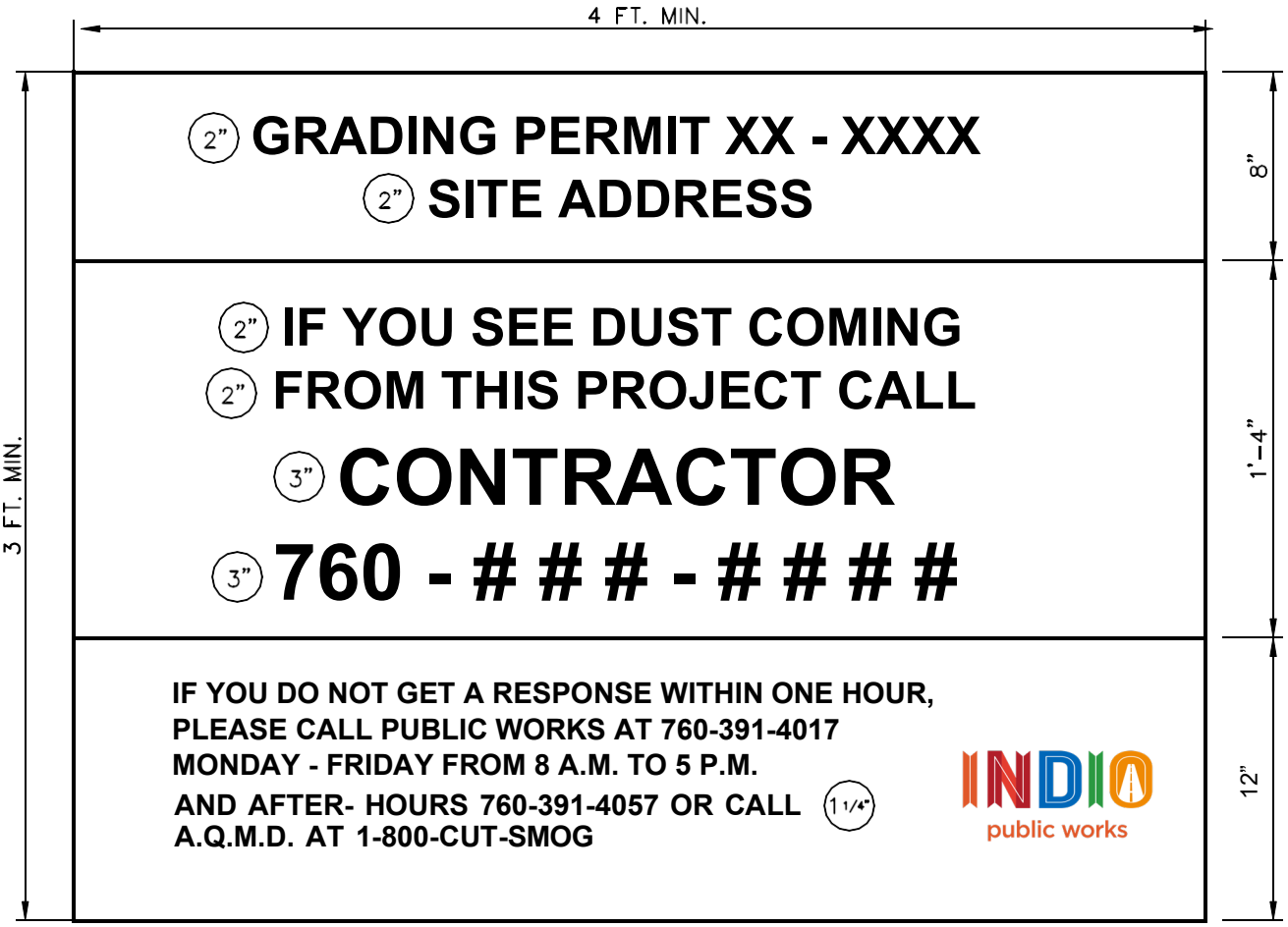
Summary of Dust Control Ordinance Requirements

Under dust control ordinance requirements, construction activities are required to maintain daily self-inspection records and this information must be retained for at least three years after project completion.

Additionally, any activity that utilizes chemical dust suppressants for dust control is required to maintain records indicating type of product applied, vendor name, and the method, frequency, concentration, and quantity of application.

All recordkeeping information must be made available to the local permitting authority and the AQMD immediately upon request. A copy of the recordkeeping must also be retained on-site.

The following forms have been prepared to assist in complying with these requirements.



NOTES:

1. THIS SIGN ONLY APPLIES IF THE CONSTRUCTION SITE IS FOR ONE SINGLE FAMILY HOME, OTHERWISE, USE 4' x 6' SIGN.
2. THE RESPONSIBLE DUST CONTROL PERSON SHALL INSTALL AND MAINTAIN PROJECT CONTACT SIGNAGE THE MEETS THE MINIMUM STANDARDS OF THE COACHELLA VALLEY FUGITIVE DUST CONTROL HANDBOOK, INCLUDING A 24-HOUR MANNED TOLL-FREE OR LOCAL PHONE NUMBER, PRIOR TO INITIATING ANY TYPE OF EARTH-MOVING OPERATIONS.

REGISTERED PROFESSIONAL ENGINEER JUAN RAYA C68510 CIVIL STATE OF CALIFORNIA

JUAN RAYA, P.E.
CITY ENGINEER
RCE 68510

05/18/16
DATE

REV.	DRAWN BY:	APP'D:	DATE:

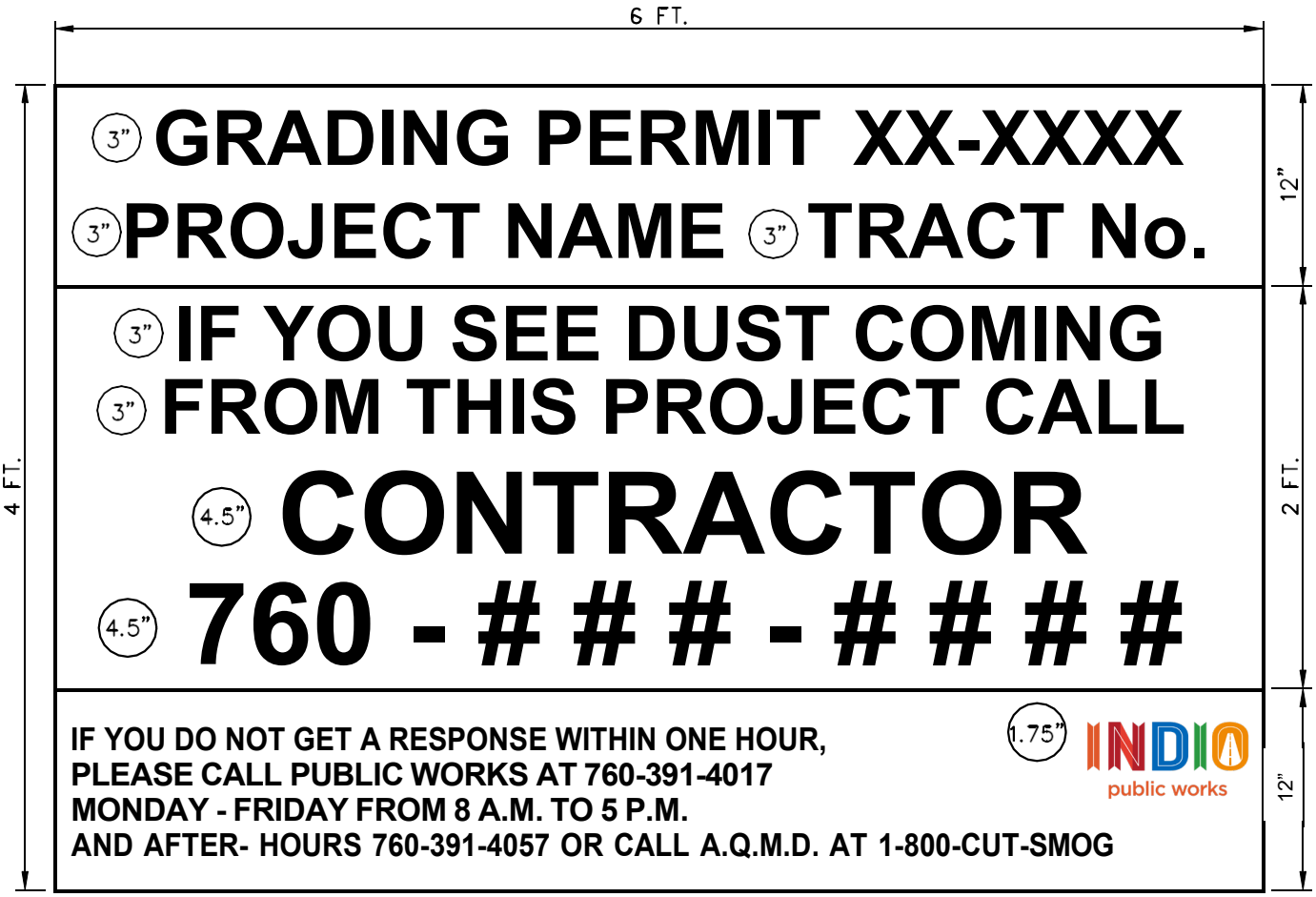
MAY 2016

INDIO public works

DUST CONTROL SIGN (SINGLE FAMILY HOME)

STANDARD PLAN No.: **501**

L:\Public Works - Engineering Standards\INDIO-501 5/19/2016 12:43 PM



DEFAULT PM10 SIGN (4' x 6')

NOTES:

1. THIS SIGN SHALL APPLY FOR ALL CONSTRUCTION SITES, EXCEPT IF IT IS A SINGLE FAMILY HOME.
2. THE RESPONSIBLE DUST CONTROL PERSON SHALL INSTALL AND MAINTAIN PROJECT CONTACT SIGNAGE THE MEETS THE MINIMUM STANDARDS OF THE COACHELLA VALLEY FUGITIVE DUST CONTROL HANDBOOK, INCLUDING A 24-HOUR MANNED TOLL-FREE OR LOCAL PHONE NUMBER, PRIOR TO INITIATING ANY TYPE OF EARTH-MOVING OPERATIONS.

REGISTERED PROFESSIONAL ENGINEER JUAN RAYA C68510 CIVIL STATE OF CALIFORNIA

JUAN RAYA, P.E. 05/18/16
CITY ENGINEER DATE
RCE 68510

REV.	DRAWN BY:	APP'D:	DATE:

MAY 2016

INDIO public works

DUST CONTROL SIGN (DEFAULT SIGN)

STANDARD PLAN No.: **502**

L:\Public Works - Engineering Standards\INDIO-502 5/19/2016 12:41 PM

INDIO public works	**CITY OF INDIO** 100 CIVIC CENTER MALL INDIO, CALIFORNIA 92201 TEL: (760) 391-4017 FAX: (760) 342-6590	**PM10 PLAN** **(FORM BOND)** **PAGE #1**

Cash Deposit or Certificate of Deposit
(Form BOND)

The City of Indio requires a Cashiers Check and a cash Certificate of Deposit, in an amount equal to at least two thousand dollars ($2,000.00) per acre or portion thereof. Such funds shall be in an amount sufficient to completely stabilize all disturbed areas in the event that the Operator fails to adequately control dust, or abandons the site in lieu of mitigating fugitive dust problems; and shall be easily accessible to the City in order to initiate stabilization measures without a significant delay. Up to twenty thousand dollars ($20,000) shall be in a cashiers check made payable to the City of Indio, any amount above that shall be in the form of a Certificate of Deposit.

FORM OF PAYMENT	PARCEL SIZE IN ACRES	$2,000.00/ACRE	AMOUNT OF DEPOSIT
Cash Deposit		$2,000.00	
Certificate of Deposit		$2,000.00	

Parcel Size x $2,000.00 Per Acre = Amount of Deposit

City of Indio, California
Declaration of City Council Policy 2004

SUBJECT:

Requirements for identifying a method of accepting performance deposit on implementation of dust control measures (PM10).

PURPOSE AND INTENT:

To identify a method of accepting performance deposit to implement dust control measures (PM10). To provide financial resources for the City to fulfill PM10 implementation obligation.

POLICY:

The City Council hereby declares as follows, the basic City policy shall be:

A. Performance Deposit shall be required for all parcels of land being disturbed, whether developed or undeveloped as mentioned in the City of Indio Dust Control Handbook;

B. Developers/Contractors shall deposit two thousand dollars ($2,000) per acre for all projects with more than 5,000 square feet of disturbed surface. The minimum deposit for all projects will be $2,000. The deposit shall be cash for up to twenty thousand dollars ($20,000). The required deposit for the balance over the initial $20,000, for larger projects shall either be in cash or a certificate of deposit (CD) in a form acceptable to the City's Director of Finance.

C. Developer' shall maintain the required cash deposit with the City at all times. For example, if the City utilizes any portion or all of deposit, the developer shall make up the incremental difference to maintain the minimum required cash deposit.

AUTHORITY:

This policy is issued by authority of the City Council by action taken on the 21st day of July, 2004.

Effective Date of this Policy:

This policy will be effective on the 22nd day of July 2004

CITY OF INDIO
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INDIO, CALIFORNIA 92201
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FAX: (760) 342-6590

PM10 PLAN

(DAILY LOG)

DATE: _____

Daily Self-Inspection Recordkeeping Form – AM HOURS

Elements Monitored	12am	1am	2am	3am	4am	5am	6am	7am	8am	9am	10am	11am	Comments
Forecasted high winds													
Wind speed													
Wind direction													
# Water trucks operating													
# Water trucks available													
Roads moist/ watered													
Unstabilized areas moist/ watered													
Dry areas observed													
Irrigation working													
Water tanks filled													
Water pumps working													
Chemical stabilization used													
Track-out observed													
Blow sand observed on-site													
Blowing dust observed on-site													
Blowing dust observed off-site													
Wind/snow fencing maintained													
# Complaints received													
Corrective action taken													

N = No or none Y = Yes N/A = Not applicable Name: _____ Date: _____

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PM10 PLAN

(DAILY LOG)

DATE: _____

Daily Self-Inspection Recordkeeping Form – PM HOURS

Elements Monitored	12pm	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm	10pm	11pm	Comments
Forecasted high winds													
Wind speed													
Wind direction													
# Water trucks operating													
# Water trucks available													
Roads moist/ watered													
Unstabilized areas moist/ watered													
Dry areas observed													
Irrigation working													
Water tanks filled													
Water pumps working													
Chemical stabilization used													
Track-out observed													
Blow sand observed on-site													
Blowing dust observed on-site													
Blowing dust observed off-site													
Wind/snow fencing maintained													
# Complaints received													
Corrective action taken													

N = No or none Y = Yes N/A = Not applicable Name: _____ Date: _____

Additional Comments:

INDIO public works	**CITY OF INDIO** 100 CIVIC CENTER MALL INDIO, CALIFORNIA 92201 TEL: (760) 391-4017 FAX: (760) 342-6590	**PM10 PLAN** **(DAILY CDS)** **DATE: _____**

Chemical Dust Suppressant Recordkeeping Form
(Form CDS)

The dust control ordinance requires activities that utilize chemical dust suppressants must retain records indicating the type of product applied, vendor name, and the method, frequency, concentration, quantity and date of application. *A* copy of invoices for chemical dust suppressant products or application services is also required. These records must be retained for at least three years after project completion.

PROJECT INFORMATION	PLEASE ENTER INFORMATION BELOW
PLAN/PERMIT NUMBER (*IF APPLICABLE*)	
PROPERTY OWNER NAME/PHONE	
CONSTRUCTION PROJECT NAME	
PROJECT ADDRESS/LOCATION	
DUST SUPPRESANT PRODUCT INFORMATION	
DATE/TIME OF APPLICATION	
NAME OF PRODUCT	
DILUTION RATE	
APPLICATION RATE	
ACREAGE/SQUARE FOOTAGE TREATED	
TRAFFIC OR NON-TRAFFIC AREA	
DUST SUPPRESANT APPLICATOR INFORMATION	
APPLICATOR NAME	
CONTACT	
PHONE	
WARRANTEE TERMS (*IF APPLICABLE*)	

Signature of Form Preparer: _____ Date: _____

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PMl0 - BEST AVAILABLE CONTROL MEASURES (BACM)

Source Category	Control Measure	Guidance
Backfilling	01-1 Stabilize backfill material when not actively handling; and 01-2 Stabilize backfill material during handling; and 01-3 Stabilize soil at completion of activity.	✓ Mix backfill soil with water prior to moving ✓ Dedicate water truck or high-capacity hose to backfilling equipment ✓ Empty loader bucket slowly so that no dust plumes are generated ✓ Minimize drop height from loader bucket
Clearing and grubbing	02-1 Maintain stability of soil through pre-watering of site prior to clearing and grubbing; and 02-2 Stabilize soil during clearing and grubbing activities; and 02-3 Stabilize soil immediately after clearing and grubbing activities.	✓ Maintain live perennial vegetation and desert pavement where possible ✓ Apply water in sufficient quantity to prevent generation of dust plumes
Clearing forms	03-1 Use water spray to clear forms; or 03-2 Use sweeping and water spray to clear forms; or 03-3 Use vacuum system to clear forms.	✓ Use of high-pressure air to clear forms may cause exceedance of opacity/plume length restrictions
Crushing	04-1 Stabilize surface soils prior to operation of support equipment; and 04-2 Stabilize material after crushing.	✓ Follow permit conditions for crushing equipment ✓ Pre-water material prior to loading into crusher ✓ Monitor crusher emissions opacity ✓ Apply water to crushed material to prevent dust plumes
Cut and fill	05-1 Pre-water soils prior to cut and fill activities; and 05-2 Stabilize soil during and after cut and fill activities.	✓ For large sites, pre-water with sprinklers or water trucks and allow time for penetration ✓ Use water trucks/pulls to water soils to depth of cut prior to subsequent cuts

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PM10 PLAN

(FORM BACM)

PAGE #2

Source Category		Control Measure	Guidance
Demolition - mechanical/ manual	06-1 06-2 06-3 06-4	Stabilize wind erodible surfaces to prevent dust; and Stabilize surface soil where support equipment and vehicles will operate; and Stabilize loose soil and demolition debris; and Comply with AQMD Rule 1403.	✓ Apply water in sufficient quantities to prevent the generation of visible dust plumes
Disturbed soil	07-1 07-2	Stabilize disturbed soil throughout the construction site; and Stabilize disturbed soil between structures	✓ Limit vehicular traffic and disturbances on soils where possible ✓ If interior block walls are planned, install as early as possible ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes
Earth-moving activities	08-1 08-2 08-3	Pre-apply water to depth of proposed cuts; and Re-apply water as necessary to maintain soils in a damp condition; and Stabilize soils once earth-moving activities are complete.	✓ Grade each project phase separately, timed to coincide with construction phase ✓ Upwind fencing can prevent material movement on site ✓ Apply water or a stabilizing agent in sufficient quantities to prevent the generation of visible dust plumes
Importing/ exporting of bulk materials	09-1 09-2 09-3 09-4 09-5 09-6	Stabilize material while loading to prevent fugitive dust emissions; and Maintain at least six inches of freeboard on haul vehicles; and Limit vehicular speeds to 15 miles per hour while traveling on-site; and Stabilize material while transporting lo prevent fugitive dust emissions; and Stabilize material while unloading to prevent fugitive dust emissions; and Comply with Vehicle Code Section 23114.	✓ Use tarps or other suitable enclosures on haul trucks ✓ Check belly-dump truck seals regularly and remove any trapped rocks to prevent spillage ✓ Comply with track-out prevention/mitigation requirements ✓ Provide water while loading and unloading to prevent visible dust plumes

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PM10 PLAN
(FORM BACM)
PAGE #3

Source Category		Control Measure	Guidance
Landscaping	10-1	Stabilize soils, materials, slopes	✓ Apply water to materials to stabilize ✓ Maintain materials in a crusted condition ✓ Maintain effective cover over materials ✓ Stabilize sloping surfaces using soil binders until vegetation or ground cover can effectively stabilize the slopes ✓ Hydroseed prior to rain season
Road shoulder maintenance	11-1 11-2	Apply water to unpaved shoulders prior to clearing; and Apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.	✓ Installation of curbing and/or paving of road shoulders can reduce recurring maintenance costs ✓ Use of chemical dust suppressants can inhibit vegetation growth and reduce future road shoulder maintenance costs
Screening	12-1 12-2 12-3	Pre-water material prior to screening; and Limit fugitive dust emissions to opacity and plume length standards; and Stabilize matc1ial immediately after screening.	✓ Dedicate water truck or high-capacity hose to screening operation ✓ Drop material through the screen slowly and minimize drop height ✓ Install wind barrier with a porosity of no less than 50% upwind of screen to the height of the drop point
Staging areas	13-1 13-2	Stabilize staging areas during use; and Stabilize staging area soils at project completion.	✓ Limit size of staging area ✓ Limit vehicle speeds to 15 miles per hour ✓ Limit number and size of staging area entrances/exists

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PM10 PLAN
(FORM BACM)
PAGE #4

Source Category	Source Category		Guidance
Stockpiles/ Bulk Material Handling	14-1 14-2 14-3 14-4	Stabilize stockpiled materials; or Install and maintain wind barriers with no less than 50 percent porosity on three sides of the pile, such that the barrier is equal to or greater than the pile height. Stockpiles within 100 yards of occupied buildings must not be greater than eight feet in height; or Stockpiles greater than eight feet in height and not covered must have a road bladed to the top to allow water truck access or must have an operational water irrigation system that is capable of complete stockpile coverage.	✓ Add or remove material from the downwind portion of the storage pile ✓ Maintain storage piles to avoid steep sides or faces
Traffic areas for construction activities	15-1 15-2 15-3 15-4	Stabilize all off-road traffic and parking areas; and Ensure that on-site vehicular traffic does not exceed 15 miles per hour; and Stabilize all haul routes; and Direct construction traffic over established haul routes.	✓ Apply gravel/paving to all haul routes as soon as possible to all future roadway areas ✓ Barriers can be used to ensure vehicles are only used on established parking areas/haul routes
Trenching	16-1 16-2	Stabilize surface soils where trencher or excavator and support equipment will operate; and Stabilize soils at the completion of trenching activities.	✓ Pre-watering of soils prior to trenching is an effective preventive measure. For deep trenching activities, pre-trench to 18 inches soak soils via the pre-trench and resuming trenching ✓ Washing mud and soils from equipment at the conclusion of trenching activities can prevent crusting and drying of soil on equipment
Truck loading	17-1 17-2	Pre-water prior to loading; and Ensure that freeboard does not exceed six inches.	✓ Empty loader bucket such that no visible dust plumes are created ✓ Ensure that the loader bucket is close to the truck to minimize drop height while loading

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PM10 PLAN
(FORM BACM)
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Source Category	Control Measure	Guidance
Turf overseeding	18-1 Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards; and 18-2 Cover haul vehicles prior to exiting the site.	✓ Haul waste material immediately off-site
Unpaved roads/parking lots	19-1 Stabilize soils to meet the applicable performance standards; and 19-2 Limit vehicular travel to established unpaved roads (haul routes) and unpaved parking lots.	✓ Restricting vehicular access to established unpaved travel paths and parking lots can reduce stabilization requirements
Weather monitoring/work practices	20-1 Monitor current weather conditions ai1d weather predictions from the AQMD's toll free wind forecast system (800) CUT-SMOG [Press 1, then Press 5] and / or the National Weather Service; and 20-2 Cease all construction activities if fugitive dust emissions exceed 20 percent opacity or if 100-foot visible plume restriction cannot be met. Control measures (e.g., water trucks/pulls) must continue to operate unless operation of such equipment cannot reduce fugitive dust emissions or if visibility is limited to such an extent that it is hazardous to continue operating such equipment.	✓ Documentation of weather (e.g., wind) conditions can facilitate compliance determinations when using an affirmable defense to dust control ordinance and Fugitive Dust Control Plan requirements

SUMMARY OF DUST CONTROL ORDINANCE REQUIREMENTS

The Coachella Valley dust control ordinances require:

- ✓ at least one of the Coachella Valley Best Available Control Measures (CV BACM) is required to be implemented for each fugitive dust source category.
- ✓ CV BACM must be implemented such that the applicable performance standards (e.g., visible emissions not to exceed 100 feet or 20 percent opacity, or cross any property line, etc.) are met.

A description of the performance standards and applicable test methods is included in Chapter 8 of the Coachella Valley Fugitive Dust Control Handbook.

I hereby certify that I have read and understand the foregoing requirements.

Signature _____ Date _____

Print Name _____ Dust Certificate # _____