

West Pinal PM₁₀ Nonattainment Area Construction Dust Rule

DECEMBER 9, 2015

JOSH DEZEEUW

ENVIRONMENTAL PROGRAM MANAGER

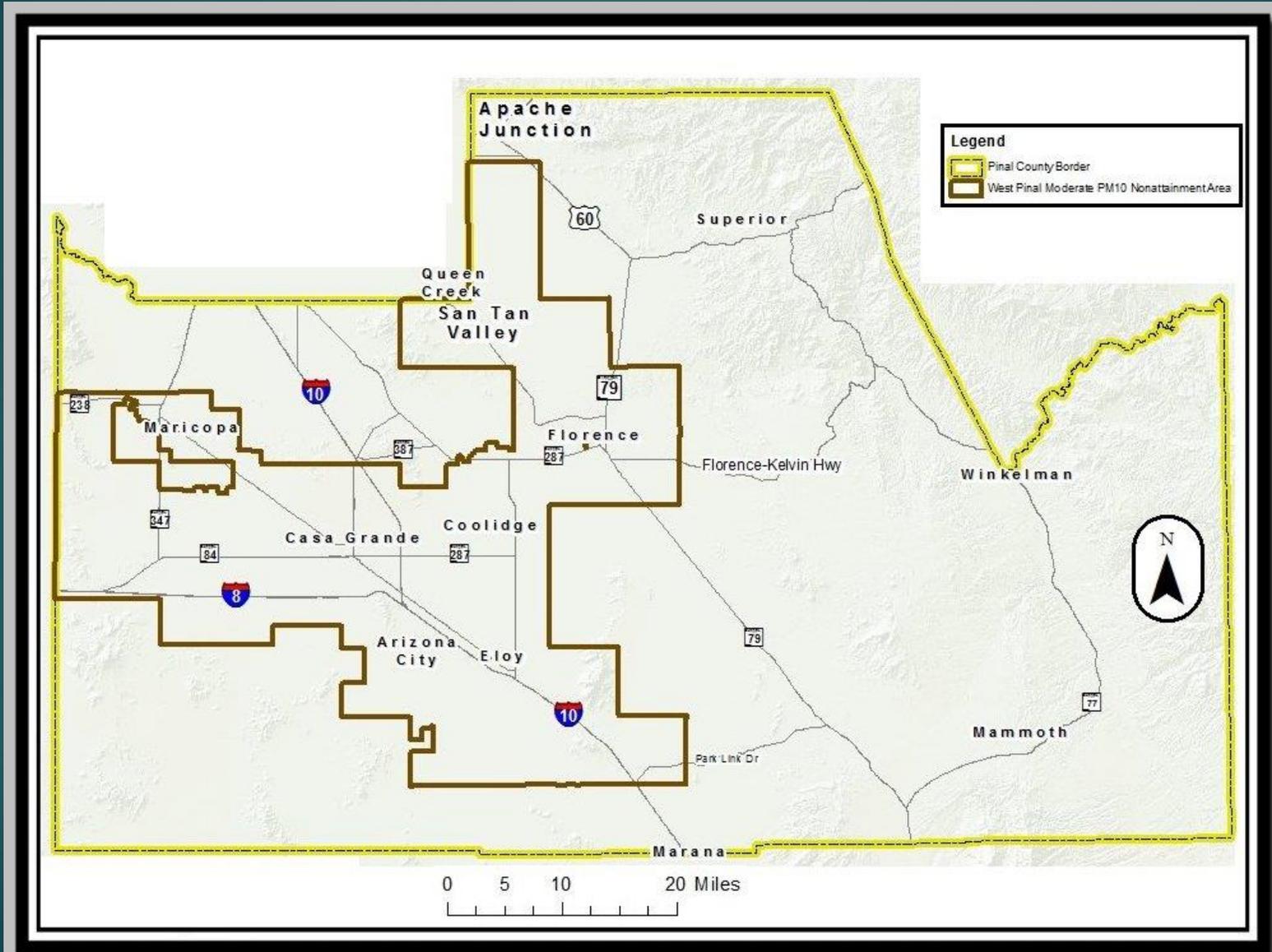
Presentation Outline- What you should learn

- Background – Why the new rules
- Do the new rules apply to you?
- When is a permit required?
- Permit application requirements
- Dust generating operations
- Control measures
- Site standards
- Record keeping

Why the new rules?

- Numerous and continued PM₁₀ violations within Pinal County
- In 2012 the EPA designated a portion of Pinal County as nonattainment
- West Pinal PM₁₀ Nonattainment Area
- ADEQ (Arizona Department of Environmental Quality) and Pinal County completed an emissions inventory
- Top sources:
 - Windblown dust
 - Unpaved roads
 - Construction
- SIP (State Implementation Plan) was created to return the area into attainment status
- New rules for construction and fugitive dust part of the SIP

West Pinal PM₁₀ Non-Attainment Area



When is a dust permit required?

- Any worksite that covers an area of 0.1 acres or larger
 - 0.1 acres = 4356 ft²
 - Calculation of disturbed surface area:
 - Include surface area for all disturbance activities
 - Add 12.5' to each side of structures, driveways, pads, etc.
 - Parcels must be contiguous if multiple parcels on one permit
 - Calculation of disturbed area for trenching-only projects:
 - 726' for trenches less than 4 feet deep
 - 363' for trenches greater than 4 feet deep
 - Permit calculations in linear feet
 - Land stripping and/or earthmoving permits cover trenching and stockpiling activities. You DO NOT need to permit them separately
 - Calculations are the same across all permits within Pinal County

Permit Application Requirements

- Completed application
 - Owner/Operator information
 - Valid cell phone or e-mail address
- Site plan
 - On 8.5" X 11" paper
 - Parcel #, GPS, or Township, Range and Section
- Control measures – Select at least one for each dust generating operation
- Fee
- Can be submitted in person, by mail or by e-mail



PINAL COUNTY AIR QUALITY CONTROL
 Dust Permit Application for the West Pinal Non-attainment Area
(As required by A.R.S. § 49-401 and Chapter 4, Article 3, Pinal County Air Quality Control District Code of Regulations)
 PO Box 987, Florence, AZ 85132
 Phone (520) 866-6929 Fax (520) 866-6967

Completed applications that are received through email or fax after 4:00 p.m. will be processed the next business day. All required documentation must accompany application.

PINAL COUNTY
wide open opportunity

West Pinal Non-Attainment Area Only

For Office Use Only

Permit # _____

Approved By: _____

Date Issued: _____

IS MY APPLICATION COMPLETE?

1. Dust control permit application form: Completely answer all questions; fill in all blanks and check boxes as appropriate, in both the applicant and project information areas of the form.
2. Is this permit a Renewal? Yes No If Yes, please provide previous permit number and expiration date
 Previous Permit #: _____ Expiration date: _____
3. Is this permit a Block Utility permit? Yes No If Yes attach a Block Utility Worksite Location Form.
 Only political subdivisions, public utility corporations and contractors of either can obtain a block utility permit for the following operations.
 - a. Maintenance of existing underground or above-ground lines
 - b. Effecting end-user connections – e.g. water, sewer, natural gas, electrical and communication connections
 - c. Underground utility line extensions not exceeding 500' in length
 - d. Overhead utility line extensions
 - e. Expansion or extension of paved roads, unpaved roads, road shoulders, and/or alleys and public right of way
4. Dust Control: §4-3-193.C requires the owner and/or operator to select at least one control measure for each dust generating operation. This form is the method by which compliance will be explained.
5. Plot Plan or Site Drawing: Each application shall include a plot plan with linear dimensions in feet. The plot plan must be on 8.5X11 inch paper, and may be on one or more sheets. The plot plan should show:

<ol style="list-style-type: none"> a. Entire project site/facility boundaries b. Acres to be disturbed with linear dimensions c. Nearest public roads d. North arrow e. Planned exit location onto paved areas accessible to the public 	<ol style="list-style-type: none"> f. Assessor's Parcel number(s) g. Street Address (if available) h. Parking / Staging Locations i. Calculation of total area disturbed j. Ensure that offsite work is covered (Roadway/Utility)
--	--
6. Assessor's Parcel Information: If your site is a multi-parcel site a complete and accurate listing of every parcel is required and shall be listed on an Assessor's Parcel List form which will need to be attached to this application.
7. Fee Payment: Have the appropriate fee ready when submitting the completed permit application. Fees can be paid with a check, credit card, or money order when submitting the application in person or by mail.

APPLICANT INFORMATION

Applicant information must be fully and accurately completed, including full legal name of entities and individuals (no DBA's or trade names).

Section 1. Applicant (Entity to which the permit will be issued)

Relationship to Property (Check all that apply):

Property Owner General/Prime Contractor Sub-Contractor Developer Lessee

Type of Entity Corporation LLC Company or Partnership Sole Proprietor Individual Government

Name: _____

Street Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Mobile: _____ Fax: _____

Email Address: _____

Mailing Address (if not the same as above): _____

Section 2. Primary Project Contact

Name: _____ Title: _____ Email: _____

Office Phone: _____ Mobile: _____ Fax: _____

Section 3. Property Owner/Developer

Type of Entity Corporation LLC Company or Partnership Sole Proprietor Individual Government

Name: _____ Email Address: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Mobile: _____ Fax: _____

Owner(s)/Developer Contact Person: _____ Title: _____

Contact Phone: _____ Contact Mobile: _____ Contact Fax: _____

Dust Generating Operations

- Earthmoving activities
- Land clean-up, leveling, back filling
- Drilling
- Construction
- Demolition
- Bulk material handling, storage and/or transporting operations
- Operation of motorized machinery used in construction
- Establishing and/or using unpaved parking lots, haul/access roads within a work site
- Installing initial landscapes using mechanized equipment

Control Measures

Control Measure	Description
Watering (pre-wetting)	Application of water by means of trucks, hoses and/or sprinklers prior to conducting any dust generation operation. This will increase the moisture content of the soil and increase stability of the soil.
Watering (operational control)	For disturbed surface areas and dust generating operations water is applied at sufficient intervals and quantity to increase the moisture content of the soil and increase the stability of the soil. Also during stacking, loading and unloading operations on open storage piles, apply water as necessary.
Applying chemical stabilizers or dust suppressants	Apply chemical stabilizers/dust suppressants to disturbed surface areas and dust generating operations. Effective in areas which are not subject to daily disturbances.
Altering load-in/load-out procedures and watering	Confine load-in/load-out procedures to downwind side of the material and mist material with water prior to loading. Empty loader slowly and keep bucket close to the truck while dumping.
Reducing vehicular speed	Restrict maximum vehicular speeds to 15 miles per hour on unpaved easements, right of way, unpaved haul/access roads and parking lots.
Controlling freeboard, spillage and covering haul vehicles	Load all trucks such that the freeboard is not less than three inches. Prevent spillage or loss of bulk material from holes or other openings in the conveyance. Cover all haul trucks (empty or full) with an anchored tarp or other suitable anchored material.
Trackout control	Install trackout control for work sites 5 acres or larger. For all work sites, when trackout extends a cumulative distance of 50 linear feet or more it must be cleaned up as soon as practicable; but, in any case, by the end of the work day.
Limit, restrict or reroute motor vehicle access to work site	Erect signs or install physical barriers to limit access to the work site.
Other measures as proposed by registrant	Specific measures that are adequate to address applicable standards in section §4-3-180 at the work site. Alternative measures must be approved by the control officer and the EPA administrator.

Dust Generating Operations Standards – All Sites

- Cannot exceed 20% opacity
 - Anywhere within the worksite
 - General County Construction Rule = 20% property boundary
 - AJ Nonattainment Construction Rule = 20% internal, 0% property boundary
- Owner and/or operator to conduct bi-monthly site inspections
 - Ensure work site and disturbed surface areas are stabilized
 - Drop ball test – PCAQCD Code of Regulations §4-9-320.B.1
 - Verify that all applicable control measures are implemented
- Trackout that exceeds 50 linear feet
 - Clean up as soon as is practicable
 - Clean up by the end of the work day

Dust Generating Operations Standards – Sites Over 5 Acres

- Install trackout control prior to the start of dust generating operations
- For areas where dust generating operations have or will stop for 30+ days
 - Install signage to prevent trespass **OR**
 - Install physical barriers to prevent trespass
- Owner and/or operator must register to receive the dust control forecast
<https://public.govdelivery.com/accounts/AZDEQ/subscriber/new>
- Owner and/or operator to conduct site inspections the day prior to and the day of a high risk forecast
 - Ensure work site and disturbed surface areas are stabilized and verify that all applicable control measures are implemented **OR**
 - Cease all dust generating operations
- Project signage – At least 24" X 30"
 - Project Name
 - Name and phone number of person(s) responsible for conducting project
 - Text Stating: "Dust Complaints?" Call Pinal County Air Quality at (520) 866-6929

Record Keeping

- A copy of the approved dust permit must be maintained and provided upon request
- Bi-Monthly site and high risk day site inspections
 - On PCAQCD form or form approved by PCAQCD
 - Inspection forms or copies of the forms must be submitted to PCAQCD within 30 days of the completion of the project
 - If the permit is renewed the inspection forms should be submitted to PCAQCD and new forms kept for the new permit number
- Owner and/or Operator must notify PCAQCD of the completion of the project within 30 days of the completion date
- Permit renewal
 - Must be completed prior to the original permit expiring
 - New permit will start on the day after the original permit ends
 - Only areas still under construction must be counted in the renewal and do not have to be contiguous

Questions?

Josh DeZeeuw

joshua.dezeeuw@pinalcountyaz.gov

520-866-6960