

# Proposed Amended Rule 1157 – PM<sub>10</sub> Emission Reductions from Aggregate and Related Operations (PAR 1157)



## **Public Workshop**







Date: July 8, 2026

Time: 2:00 pm

Zoom Link:

<https://aqmd.zoomgov.com/j/1613715068>

# Meeting Information

- Staff will take the time to listen to all stakeholder comments
  - Please use the “raise hand” feature to speak:
    -  Click on the  button
    -  Dial \*9
- When it is your turn to speak, your name will be announced
  - If you are a panelist, use the “unmute” feature to speak:
    -  Click on the  button
    -  Dial \*6
  - If you are not a panelist, the meeting host will unmute you

# Agenda

PM<sub>10</sub> Background

Aggregate Facilities Background

Rule 1157 Background

Proposed Amended Rule 1157

Regulatory Impacts

Socioeconomic Impact Assessment and CEQA

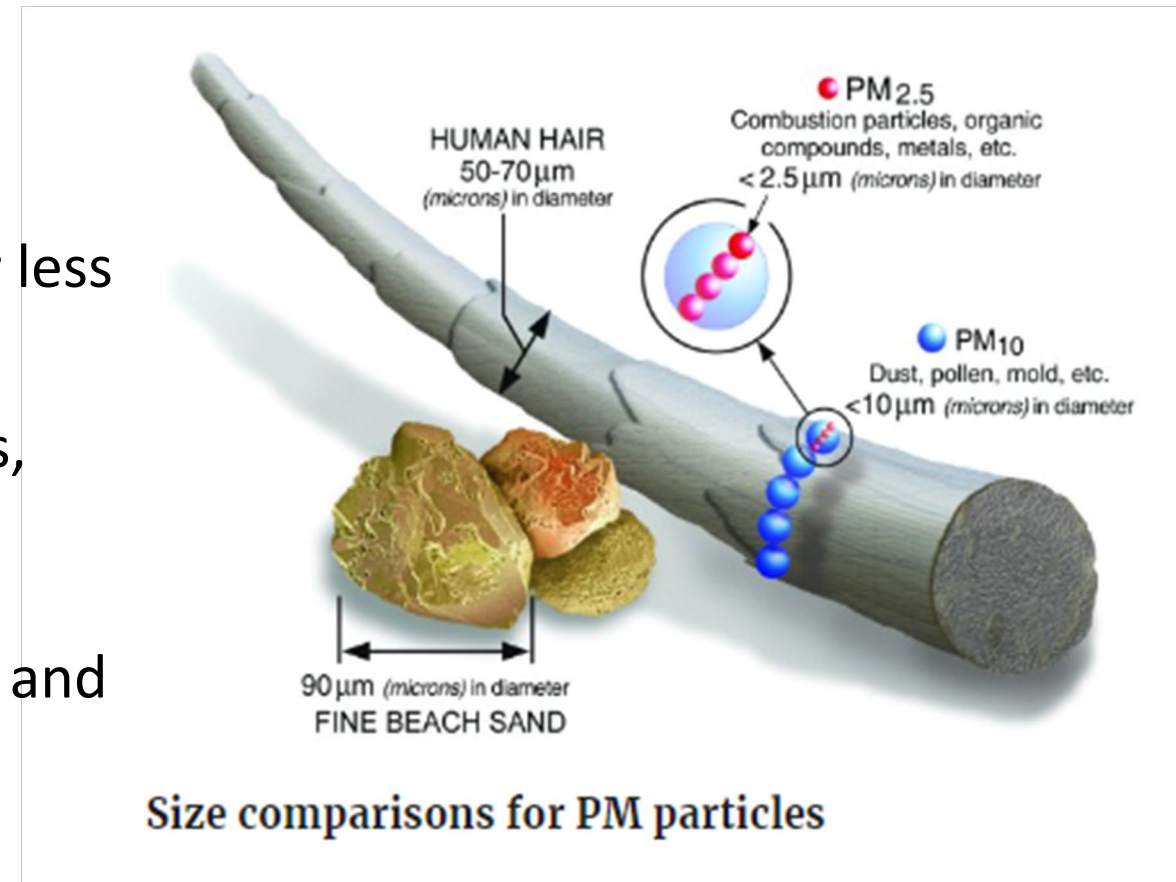
Next Steps

# South Coast AQMD

- Local air pollution control agency
  - 10,743 square miles
  - 17 million residents
  - Largest of the 35 local air agencies in CA and in the U.S.
- Roles and Responsibilities
  - Regulate emissions from stationary sources
  - Develop and implement plans to meet national air quality standards
  - Permit and inspect about 28,400 affected businesses and communities
  - Administer over \$200 million of incentive and grant funding annually



- Particulate matter (PM) are small, inhalable particles:
  - $PM_{10}$ : inhalable particles of 10 or less microns in diameter
  - $PM_{2.5}$ : fine inhalable particles of 2.5 or less microns in diameter
- $PM_{10}$  includes dust from construction sites, landfills and agriculture, wildfires and brush/waste burning, industrial sources, wind-blown dust from open lands, pollen, and fragments of bacteria



# Health Effects of PM<sub>10</sub>

- PM<sub>10</sub> can be inhaled and deposited deep into the lungs, causing adverse health effects such as:
  - Decreased lung function
  - Increased respiratory symptoms
    - Irritation of the airways, coughing, or difficulty breathing
  - Worsening of asthma, chronic obstructive pulmonary disease, and other respiratory diseases
  - Irregular heartbeats
  - Premature mortality in people with heart or lung disease



# Aggregate Terminology

- *Aggregate* is granular or grainy material such as gravel, crushed stone, and quarried rocks
- *Aggregate operations* produce sand, gravel, crushed stone, and quarried rocks
- *Aggregate related operations* use aggregate materials



# Types of Aggregate and Related Operations

**Aggregate Mining**



**Construction and Demolition Debris Transfer Station**



**Concrete and Asphalt Manufacturing**



**Aggregate Recycling and Disposal**



# PM<sub>10</sub> Sources at Aggregate Facilities

## Permitted Equipment

Crushing, screening, conveying equipment



## Other Sources

Storage piles, haul roads, material handling



# Rule 1157 Overview

- Rule 1157 reduces PM<sub>10</sub> emissions by establishing requirements for permanent and temporary aggregate and related operations
  - Adopted in January 2005
  - Amended in September 2006 to implement a high wind provision
- Existing key requirements include:
  - General Performance Standards
  - Dust Control Application
  - Track-Out Management



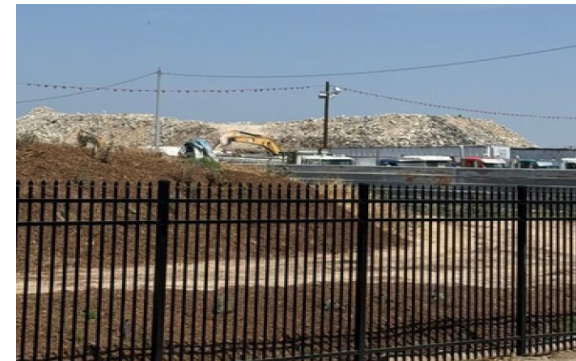
# Rule 1157 Facility Universe

- PAR 1157 facility universe updated to include Construction and Demolition Transfer Stations
- 878 total aggregate and related operations in South Coast AQMD
  - 178 of these operations handle construction and demolition debris (previously not subject to Rule 1157)



# Need for PAR 1157

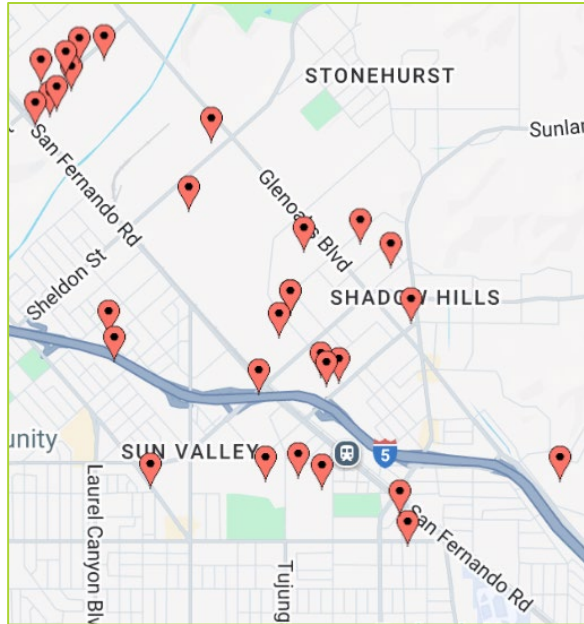
- In February 2025, Senator Caroline Menjivar introduced Senate Bill 526<sup>1</sup> to address constituent concerns<sup>2</sup> regarding aggregate facilities in Sun Valley
  - South Coast AQMD staff in collaboration with Senator Menjivar's office held town hall in Sun Valley in November 2025
- South Coast AQMD worked to strengthen Rule 1157 to address concerns with proactive measures designed to prevent fugitive PM violations



<sup>1</sup> [https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill\\_id=202520260SB526](https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=202520260SB526)

<sup>2</sup> <https://laist.com/news/climate-environment/sun-valley-residents-are-fed-up-with-recycling-facility-pollution-can-a-california-bill-help>

# Site Visit Overview



Map of Rule 1157 Facilities  
Displaying High Density in  
Small Area

- Purpose of site visits was to identify:
  - Potential sources of fugitive dust
  - Existing practices to mitigate PM<sub>10</sub> emission
  - Challenges to comply with existing Rule 1157 requirements
  - Potential regulatory gaps with existing requirements
- Information gathered from site visits and observations used to develop rule concepts
- Areas for site visits were selected based on rule applicability, facility operations, compliance history, and feedback from working group

# PAR 1157 Structure

- a) Purpose
- b) Applicability
- c) Definitions
- d) Requirements
- e) Construction and Demolition Debris Transfer Stations
- f) Recordkeeping
- g) Test Methods
- h) Additional Requirements Triggered by Recurrent Violations
- i) Exemptions

**NEW**

# Definitions – Subdivision (c)

Based on staff observations, these operations generate fugitive dust

(9) CONSTRUCTION AND DEMOLITION DEBRIS TRANSFER STATION means a facility/operation that handles, separates, and stores inert construction and demolition debris, such as concrete, fully cured asphalt, brick, slag, ceramics, plaster, clay and clay products. Inert landfills or facilities/operations that crush received materials are not Construction And Demolition Debris Transfer Stations.

~~(333)~~ RELATED OPERATIONS are defined as operations that use sand, gravel, cement, crushed stone, and/or quarried rocks in their products, or crush miscellaneous base, ~~and~~ inert landfills that handle construction and/demolition debris, and Construction and Demolition Debris Transfer Stations.

Expands applicability of Related Operations

Deletes unused definitions:

- Existing Facility/Operation
- New Facility/Operation
- Issued Notice of Violation

# General Performance Standards

## – Paragraph (d)(1)

(1) General Performance Standards

(A) The owner or operator of a Permanent or Temporary Facility/Operation shall not cause or allow:

NEW

- .....
- (iv) Track-Out to extend 15 feet or more in cumulative length originating from the exit of the facility.

Added for clarity

(ED) Where applicable, the owner or operator of a Permanent or Temporary Facility/Operation shall install a gravel pad that:

- (i) Contains one-inch or larger washed gravel maintained to a depth of six inches;
- (ii) Has a geotextile lining underneath the washed gravel; ~~and~~
- (iii) Is flushed with water daily or is completely replaced, as necessary to and maintain records specified in subparagraph (f)(1)(C) comply with the Track Out threshold set forth in Rule 403; and
- (iv) Is completely replaced every 10 years and as necessary to comply with the Track-Out threshold pursuant to clause (d)(1)(A)(iv).

Expanded Requirement

NEW

Expands general performance standards to include Track-Out provision

- Works in tandem with requirements from Rule 403

Requires replacement of gravel pad every 10 years and as necessary (whichever is sooner)

# Storage Piles – Paragraph (d)(6)

Expanded Requirement

(A) The owner or operator of a Permanent or Temporary Facility/Operation shall maintain in a stabilized condition the entire surface area of the Open Storage Piles of materials, except for areas of the piles that are actively disturbed during the Loading and/or Unloading activities by applying Dust Suppressants at least once every four hours and as necessary to meet the applicable performance standards in subparagraph (d)(1)(A). ~~Alternatively, the operator may:~~

Expanded Requirement

~~(D)~~ The owner or operator of a Permanent or Temporary Facility/Operation shall limit not allow any Open Storage Piles of materials to less be greater than or equal to eight feet in height if such piles are located within 300 feet of off-site occupied buildings or houses and implement one of the following: ~~Alternatively, the operator of a facility/operation shall operate a water irrigation system to maintain in a stabilized condition the entire surface of the piles.~~

NEW

(i) Apply Dust Suppressants at least once every other hour and as necessary to maintain in a stabilized condition the entire surface area of the Open Storage Piles of materials, except for areas of the piles that are actively disturbed during the Loading and/or Unloading activities;

(ii) Install a wind screen fence of equal or greater height of the Open Storage Pile between the Open Storage Pile and off-site occupied buildings or houses; or

(E) The owner or operator of a Permanent or Temporary Facility/Operation shall not allow any Open Storage Piles of materials to be within 30 feet of the facility's property boundary that faces any public road, unless:

(ii) The owner or operator installs a wind screen fence of equal or greater height of the Open Storage Pile at the property boundary that faces any public road.

Expands dust control requirements for open storage piles, including:

- Minimum dust control frequency
- Expands dust control for piles near sensitive receptors
- Adds new requirements for piles near property boundary

# Internal Roads – Paragraph (d)(7)

(A) Unpaved Haul Roads

- (i) The owner or operator of a Permanent or Temporary Facility/operation shall apply Chemical Stabilizers on the internal unpaved Haul Roads at least once per day so that the surface is maintained in a stabilized condition to meet general performance standards pursuant to paragraph (d)(1) and maintain records specified in subparagraph (f)(3)(A).

(B) Unpaved Non-Haul Roads and Parking and Staging Areas

The owner or operator of a Permanent or Temporary Facility/Operation shall apply Chemical Stabilizers on such Unpaved Roads and parking and Staging Areas at least once per day so that the surface is maintained in a stabilized condition and maintain records specified in subparagraph (f)(3)(B), or apply a gravel pad that meets the criteria set forth in subparagraph (d)(1)(E) on the entire unpaved non-haul road and/or the parking and Staging Areas.

(C) Paved Roads.....

- (ii) The owner or operator of a Permanent or Temporary Facility/Operation with less than 60 aggregate and/or Mixer Trucks exiting the facility on any day shall sweep the internal Paved Roads with a street sweeper by the end of every other work day. -On the days that the roads are not swept, the owner or operator shall apply water at the end of each Production Work Shift and as necessary to comply with subparagraph (d)(1)(A) on at least 100 feet of Paved Roads, or the entire length of Paved Roads leading to an exit to public Paved Roads, if such roads are less than 100 feet long.

Expanded Requirement

Expands dust control requirements for internal roads by reducing facility discretion on how to maintain in a “stabilized condition”

- Establishes minimum frequency of dust control application

# Track-Out – Paragraph (d)(8)

(A) The owner or operator of a Permanent or Temporary Facility/Operation shall remove all Track-Out originating from an emission source at an Aggregate or Related Operation at the End Of Work Day or conclusion of each Production Work Shift, whichever is sooner.

(BA) The owner or operator of a Permanent or Temporary Facility/Operation and the drivers must take all reasonable steps to ensure that all loads on Aggregate Trucks are leveled and maintained with at least six inches of freeboard, and that the load is maintain in a stabilized condition the entire surface area of the load so that the performance standards in subparagraph (d)(1)(A) are met, unless the driver tarps or suitably covers the load prior to entering paved public roads or prior to the use of a Rumble Grate and/or Wheel Washer and maintain records specified in subparagraph (f)(4)(A).

~~(DC)~~ Effective December 3, 2005, The owner or operator of a Permanent or Temporary Facility/Operation not covered under subparagraph (d)(8)(DE) shall install and utilize a Rumble Grate, a Wheel Washer, or a Truck Washer pursuant to in accordance with the following: .....

(ii) The Rumble Grate must be of equal width of the facility exit leading to a public paved road and at minimum 10 feet in length: .....

(v) The owner or operator must post a sign indicating all aggregate and Mixer Trucks to drive through a dedicated pathway, which leads to the Rumble Grate, the Wheel Washer, or the Truck Washer, while leaving the facility:

NEW

Expanded Requirement

Expands track-out requirements by establishing:

- Minimum frequency of track-out removal
- Requirements for loads on aggregate vehicles
- Requirements for track-out control devices

# Construction and Demolition Debris Transfer Station – Subdivision (e)

(e) Construction and Demolition Debris Transfer Station:

(1) No later than [6 Months After Rule Amendment] or three months after start of initial operation, whichever is later, the owner or operator of a Construction And Demolition Debris Transfer Station shall register with the South Coast AQMD by submitting the following information in a format approved by the Executive Officer:

(2) No later than [6 Months After Rule Amendment] or three months after a change of ownership, whichever is later, the owner or operator of the Construction And Demolition Debris Transfer Station shall register with the South Coast AQMD by submitting the following information in a format approved by the Executive Officer:

NEW

New registration requirements for construction and demolition debris transfer stations

Existing facilities must submit registration *no later than 6 months* after rule amendment

New facilities must submit registration *no later than 3 months* after initial operation

Facilities with a change of ownership must submit registration *no later than 3 months* after ownership change

# Recordkeeping – Subdivision (f)

NEW

- (fe) Recordkeeping
  - (1) General Performance Standards
  - (2) Storage Piles
  - (3) Internal Roads
  - (4) Track-Out
  - .....
  - (6) Additional Requirements Triggered by Recurrent Violation

Verification of Rule 1157 compliance relies heavily on recordkeeping

Current Rule 1157 recordkeeping requirements are limited to specific actions and do not capture every potential emission source

Expands recordkeeping in line with expanded requirements from subdivision (d)

# Dust Plume Size and Opacity Related Violations – Paragraph (h)(1)

## (1) Violations of Fugitive Dust Plume Requirements

The owner or operator of a Permanent or Temporary Facility/Operation, located within 1,640 feet of off-site occupied building(s) or sensitive receptor(s), accruing at least three Notices of Violation in any rolling 24-month period, starting from the date of any Notice of Violation, for causing or allowing fugitive dust emissions exceeding the opacity limit specified in clauses (d)(1)(A)(i) and (d)(1)(A)(ii) or a visible plume exceeding 100 feet in any direction specified in clause (d)(1)(A)(iii), shall:

3  
NOVs

- (i) Install wind screen fence along the Permanent or Temporary Facility/Operation property boundary facing any off-site occupied building(s) or sensitive receptor(s) within 1,640 feet; and
- (ii) Not allow any Open Storage Pile to exceed the height of the installed wind screen.

6  
NOVs

- (i) Install Non-Porous Wall along the Permanent or Temporary Facility/Operation property boundary facing any off-site occupied building(s) or sensitive receptor(s) within 1,640 feet; and
- (ii) Not allow any Open Storage Pile to exceed the height of the installed Non-Porous Wall.

Expands additional requirements triggered by recurrent violations regarding dust plume size and opacity violations

**3 NOVs:** install wind screen fence and limit open storage pile height

**6 NOVs:** install non-porous wall and limit open storage pile height

# Track-Out Related Violations for Small Facilities – Paragraph (h)(2)

## (2) Violations of Track-Out Requirements for Facilities Subject to Subparagraph (d)(8)(D)

The owner or operator of a Permanent or Temporary Facility/Operation subject to subparagraph (d)(8)(D), located within 1,640 feet of off-site occupied building(s) or sensitive receptor(s),

- (i) Install a Rumble Grate in combination with either a Wheel Washer or a Truck Washer; and
- (ii) Not allow any Haul Trucks and Mixer Trucks to leave the facility without passing through the equipment installed pursuant to clause (h)(2)(A)(i).

3  
NOVs

- (i) Pave all Internal Roads used by Haul Trucks and Mixer Trucks;
- (ii) Not allow any Haul Trucks and Mixer Trucks to travel within the facility other than on the Paved Roads installed pursuant to clause (h)(2)(A)(i); and
- (iii) Post signs on the Paved Roads installed pursuant to clause (h)(2)(A)(i) to restrict speed limit to 15 miles per hour.

6  
NOVs

Expands additional requirements triggered by recurrent violations regarding track-out for facilities  $\leq 25$  acres or designed daily throughput of  $< 750$  tons

**3 NOVs:** install rumble grate in combination with wheel washer or truck washer; enforce drive path

**6 NOVs:** pave all internal roads and post signs

# Track-Out Related Violations for Large Facilities – Paragraph (h)(3)

(3) Violations of Track-Out Requirements for Facilities Subject to Subparagraph (d)(8)(E)

The owner or operator of a Permanent or Temporary Facility/Operation subject to subparagraph (d)(8)(E), located within 1,640 feet of off-site occupied building(s) or sensitive receptor(s).

3  
NOVs

- (i) Install a Truck Washer;
- (ii) Replace any existing gravel pad and Rumble Grate; and
- (ii) Not allow any Haul Trucks and Mixer Trucks to leave the facility without passing through the equipment as required in subparagraph (d)(8)(E) and Truck Washer installed pursuant to clause (h)(3)(A)(i).

- (i) Pave all Internal Roads used by Haul Trucks and Mixer Trucks;
- (ii) Not allow any Haul Trucks and Mixer Trucks to travel within the facility other than on the Paved Roads installed pursuant to clause (h)(3)(A)(i); and
- (iii) Post signs on the Paved Roads installed pursuant to clause (h)(3)(A)(i) to restrict speed limit to 15 miles per hour.

6  
NOVs

Expands additional requirements triggered by recurrent violations regarding track-out for facilities >25 acres or designed daily throughput of ≥750 tons

**3 NOVs:** install truck washer, replace gravel pads *and* rumble grates; enforce drive path

**6 NOVs:** pave all internal roads and post signs

# Inspection and Maintenance Requirements – Paragraph (h)(4) & (h)(5)

(4) The owners or operators of a Permanent or Temporary Facility/Operation subject to requirements specified in paragraph(s) (h)(1), (h)(2), and/or (h)(3) shall conduct inspections of equipment installed as required by paragraph(s) (h)(1), (h)(2), and/or (h)(3) every three calendar months to ensure equipment is in good working order and maintain records of inspection specified in paragraph (f)(6).

(5) The owners or operators of a Permanent or Temporary Facility/Operation subject to requirements specified in paragraph(s) (h)(1), (h)(2), and/or (h)(3) shall make any necessary repairs or maintenance within 15 calendar days after an issue was identified and maintain records of repairs specified in paragraph (f)(6).

NEW

Requires recurrent violators subject to subparagraph (h) to:

- Conduct periodic inspections
- Make any necessary repairs in a timely manner to ensure adequate fugitive dust reduction and maintenance

# Exemptions – Subparagraph (e)(12)

NEW

(12) Prior to [6 Months after Rule Amendment], Construction and Demolition Debris Transfer Stations are not subject to the applicable requirements of subdivision (d) and subdivision (f).

Allows Construction and Demolition Transfer Stations additional time to implement PAR 1157 requirements

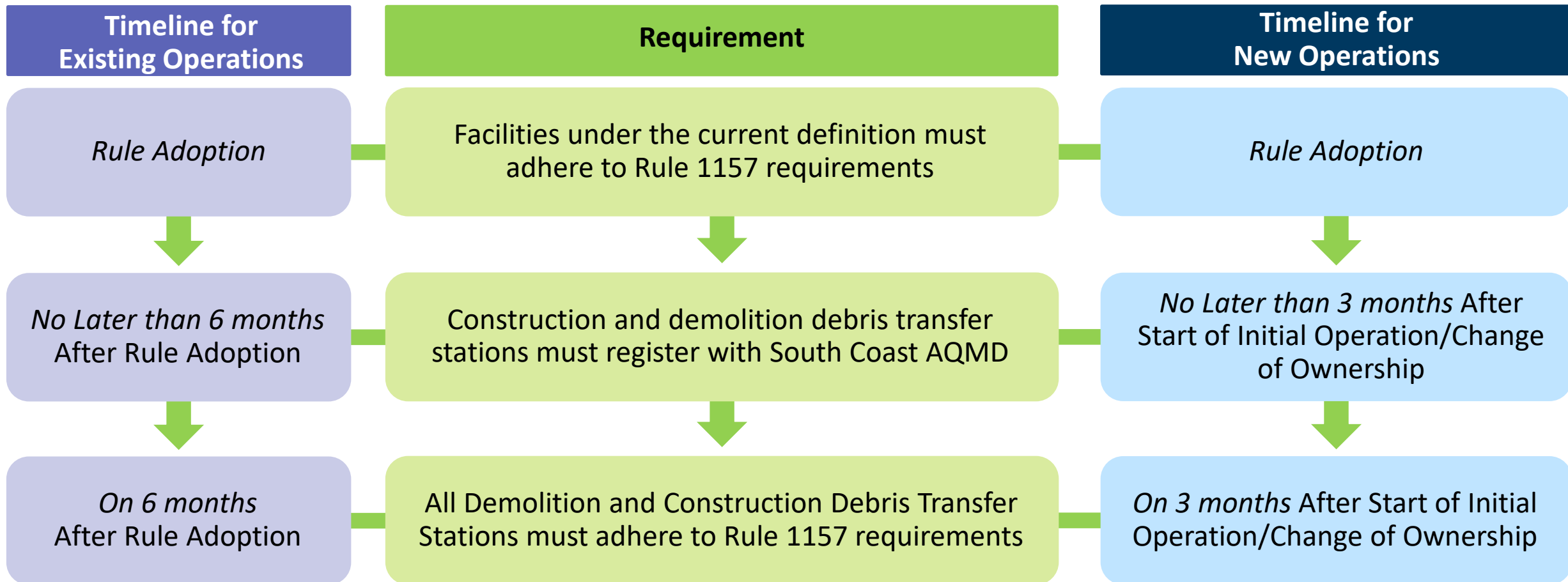
- Subdivision (d) – Requirements
- Subdivision (f) - Recordkeeping

# Proposed Rule Amendments Summary

Rule Aspect	PAR 1157	Effective
Applicability	Expands applicability to include construction and demolition debris transfer stations, which will be subject to expanded general performance standards	Date of rule adoption
Dust Control	Specifies minimum frequencies for dust control and maintenance	Date of rule adoption
Recordkeeping	Aligns with rule requirements and specifies recordkeeping material	
Triggered Requirements for Recurrent Violations	Includes track-out as potential trigger; specifies resolution measures	

# Implementation Schedule

Construction and demolition debris transfer stations will have limited time to adhere to all Rule 1157 requirements



# Enhance Dust Control Requirements

## Subdivision (d) - Requirements

Rule Aspect	Dust Control Method
Gravel pad	Flush daily, replace every 10 years
Open Storage Piles	Apply dust suppressants at least every 4 hours
Open Storage Piles Near Sensitive Receptors	Apply dust suppressants at least every other hour, install wind screen fence of $\geq$ height of open storage pile, or store in silo/bunker
Open Storage Piles Near Property Boundary	Install wind screen fence of equal or greater height of open storage pile or store in silo/bunker
Internal Unpaved Roads	Apply chemical stabilizers at least 1x/day
Internal Paved Roads	Apply water at the end of each production work shift
Track-Out	Remove track-out at the end of work day or each production work shift
Street Sweepers	Require minimum 80% pickup efficiency street sweepers
Rumble Grates	Equal width as facility exit, post signage

# Triggered Requirements for Recurrent Violations

Subdivision (h) – Additional Requirements Triggered by Recurrent Violations			
Rule Aspect	Violations From Fugitive Dust Plume	Violations From Track-Out for Small Facilities	Violations From Track-Out for Large Facilities
3 Issued NOVs	Install wind screen fence around facility boundary facing off-site sensitive receptors	Install rumble grate with a combination of wheel washer or truck washer	Install truck washer, replace gravel pads and rumble grates
6 Issued NOVs	Install non-porous wall around facility boundary facing off-site sensitive receptors	Pave all internal roads used by haul and mixer trucks	Pave all internal roads used by haul and mixer trucks

*Based on a rolling 24-month basis from first NOV issuance*

# Impact Assessment Overview

## Assumptions

PAR 1157 will expand upon existing requirements by:

- Expanding applicability to include construction and demolition debris transfer stations
- Strengthening existing requirements with improved recordkeeping
- Including additional requirements triggered by recurrent violations

## Physical Modifications Expected

Rumble grates and gravel pads to be installed at certain construction and demolition debris transfer station facilities

# Socioeconomic Impact Assessment

- Analysis of PAR 1157 will consider:
  - Types of affected industries, including small business
  - Range of probable costs, including costs to industry or business
  - Other elements typically included in socioeconomic impact analysis
- Preliminary review indicates annual cost will be less than \$1M
- Draft Socioeconomic Impact Assessment will be included in the Draft Staff Report

## **California Environmental Quality Act (CEQA)**

- PAR 1157 is a project subject to CEQA
- Preliminary review indicates some facilities will need to make physical modifications
  - Installation of rumble grates and gravel pads
  - Minimal construction activities anticipated which typically do not result in significant adverse environmental impacts

## Next Steps

Stakeholder comments on 75-day documents  
deadline July 24, 2026

Release of 30-day documents on August 4, 2026

Set Hearing on August 7, 2026

Public Hearing on September 4, 2026

# How to file a complaint?

The public  
can file  
complaints  
by:



**Calling** 1-800-CUT-SMOG<sup>®</sup>  
(1-800-288-7664)



**Visiting** [www.AQMD.gov/Complaints](http://www.AQMD.gov/Complaints)



**Using** the South Coast AQMD  
Mobile App




Download the app here

# PAR 1157 Staff Contacts

Please contact staff with any questions or comments

## Ashley Dang


Air Quality Specialist

 (909) 396-3328

 [adang@aqmd.gov](mailto:adang@aqmd.gov)

## Shawn Wang


Program Supervisor

 (909) 396-3319

 [swang@aqmd.gov](mailto:swang@aqmd.gov)

## Neil Fujiwara


Planning and Rules Manager

 (909) 396-3512

 [nfujiwara@aqmd.gov](mailto:nfujiwara@aqmd.gov)

## Michael Krause

Assistant Deputy Executive Officer

 (909) 396-2706

 [mkrause@aqmd.gov](mailto:mkrause@aqmd.gov)