Proposed Amended Rule 1466 (PAR 1466)
Control of Particulate Emissions from Soils with Toxic Air Contaminants

Working Group Meeting #2

February 5, 2021

Join Zoom Meeting:
https://scaqmd.zoom.us/j/92108330168
Meeting ID: 921 0833 0168
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Agenda

- Summary of Previous Working Group Meeting
- Preliminary Draft Rule Language
- Next Steps

Summary of Previous Working Group Meeting

- Meeting Format
- Rule Development Process
- General Overview of Rule 1466
- Proposed Revisions

Preliminary Draft Rule Language

Development of Preliminary Draft Rule

Proposed rule language based on initial concepts with input from stakeholders

Preliminary Draft Rule has actual rule language for proposed amended rule

Opportunities to comment on proposed rule language as rule development process progresses

Encourage early stakeholder input

Purpose and Applicability

Subdivisions (a) & (b)

- For consistency, added vehicular movement and specific earth-moving activities to Purpose
- For consistency, added vehicular movement to Applicability

The purpose of this rule is to minimize the amount of off-site fugitive dust emissions containing toxic air contaminants by reducing particulate emissions in the ambient air as a result of both vehicular movement and earth-moving activities, including, dredging, excavating, earth-cutting and filling, grading, handling, mechanized land clearing, treating, stockpiling, transferring, and removing of soil that contains applicable toxic air contaminants, from sites that meet the applicability requirements of subdivision (b).

This rule shall apply to any owner or operator conducting vehicular movement and earth-moving activities of soil with applicable toxic air contaminant(s) as defined in paragraph (c)(15) that have been identified as contaminant(s) of concern at a site that has been designated and notified by:

(A) The U.S. Environmental Protection Agency (U.S. EPA) as a Superfund National Priorities List site;

(B) The California Department of Toxic Substances Control (DTSC) as a Brownfield or Cleanup Program site;

(C) The State Water Resources Control Board (State Water Board) or Regional Water Quality Control Board (Regional Water Board) as a Site Cleanup Program site;

(D) A county, local, or state regulatory agency as a Hazardous Material Release site, as defined in California Health and Safety Code Section 25260~~, effective January 1, 2018~~; or,

(E) The Executive Officer pursuant to subdivision (i).

Definitions
Subdivision (c)

Adding	• Slag
Minor Modifications	• Adjacent Athletic Area • Joint Use Agreement Property • Soil with Applicable Toxic Air Contaminants
Modifying	• Chemical Stabilizers • Dust Suppressants • Earth-Moving Activities • School • Soil • Stockpile
Removing	• Early Education Center • Wind Gust

Chemical Stabilizers and Dust Suppressants *Paragraphs (c)(3) & (5)*

- The definitions for CHEMICAL STABILIZERS and DUST SUPPRESSANTS reference each other
  - Revised to remove circular references
- Definition of CHEMICAL STABILIZER included requirements
  - Removed requirements from definition and incorporated into paragraph (e)(10)

CHEMICAL STABILIZERS means ~~are~~ any non-toxic chemicals that are used to bind soil together to control fugitive dust emissions~~dust suppressant~~. ~~The chemical stabilizers shall meet any specifications, criteria, or tests required by any federal, state, or local agency or any applicable law, rule, or regulation. Unless otherwise indicated, the use of a non-toxic chemical stabilizer shall be of sufficient concentration and application frequency to maintain a stabilized surface and no less than what is specified by the manufacturer.~~

DUST SUPPRESSANTS means~~are~~ water~~,~~ or hygroscopic materials, other than ~~or chemical stabilizers~~ CHEMICAL STABILIZERS that are used as a treatment material to reduce ~~fugitive dust~~ FUGITIVE DUST emissions.

Earth-Moving Activities
Paragraph (c)(6)

- Clarified definition by removing “but not limited to” and adding additional earth-moving activities

EARTH-MOVING ACTIVITIES ~~are~~means, for the purpose of this rule, any activity on a site that meets the applicability requirements of subdivision (b) where ~~soil with applicable toxic air contaminant(s)~~ SOIL WITH APPLICABLE TOXIC AIR CONTAMINANT(S) are being moved or uncovered, and ~~shall~~ includes~~, but not be limited to the following~~: dredging, excavating, grading, earth-cutting and filling operations, loading or unloading, mechanized land clearing, and adding to or removing from STOCKPILES~~stockpiles~~.

School
Paragraph (c)(12)

- Deleted the definition of "EARLY EDUCATION CENTER" (c)(6) and incorporated into the definition of "SCHOOL" (c)(12) to be consistent with other South Coast AQMD rules that define Schools
  - Where Early Education Centers were referenced, schools are already referenced

SCHOOL ~~is~~ means any public or private education center, including juvenile detention facilities with classrooms~~and education centers serving as the students' place of residence (e.g., boarding schools)~~, used for ~~purposes of~~ the education of more than 12 children at the school in kindergarten ~~or any~~through grade~~s 1 to~~ 12~~,~~ ~~inclusive, but does not include any school in which education is primarily conducted in private homes~~. A SCHOOL also includes an Early Learning and Developmental Program by the U.S. Department of Education or any state or local early learning and development programs such as preschools, Early Head Starts, Head Start, First Five, and Child Development Centers. A school does not include any private school in which education is primarily conducted in private homes. A SCHOOL ~~School~~ includes any building or structure, playground, athletic field, or other area~~s~~ of school property.

Slag & Soil
Paragraph (c)(12)-(13)

- Added definition for “slag”
- Added “slag” to the definition of SOIL to clarify questions regarding if slag falls under this definition

SLAG means the by-product material separated from metals during smelting or refining of ore.

SOIL ~~is~~means dirt, sand, gravel, clay, SLAG, and aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.

Stockpile
Paragraph (c)(17)

- Revised definition needed to ensure that if a stockpile is covered or stabilized, that the treated or covered soil is still a stockpile

STOCKPILE is any accumulation of ~~soil~~SOIL, which is not fully enclosed~~, covered, or chemically stabilized,~~ and which attains a height of three feet or more and a total surface area of 150 square feet or more.

Alternative Provisions

- Currently, Rule 1466 allows operators to request alternative provisions for a variety of provisions
- Alternative Provisions were included because Rule 1466 was a new rule
  - Staff wanted to ensure that rule requirements were feasible and not disruptive to clean-up operations, therefore Alternative Provisions were added to allow for flexibility
- Rule 1466 has been implemented for over three years, staff now has more information on the implementation status of the rule
  - Over the three year implementation period, there are a number of provisions where no alternatives were requested
- Staff will incorporate additional measures as appropriate into the applicable provisions and remove the Alternative Provisions to streamline requirements
- Staff is seeking stakeholder input if there are any additional measures that should be considered

Alternative PM_{10} Limit *Subparagraph (d)(2)(A)*

- Removed provision allowing alternative PM_{10} limit
- Based on implementation of Rule 1466, 25 µg/m³ is achievable
  - Only 2 projects have requested a higher PM_{10} concentration in the past 3.5 years

If the PM_{10} concentration ~~averaged over two hours~~ exceeds 25 micrograms per cubic meter, as measured pursuant to paragraph (d)(3) and as determined pursuant to paragraph (d)(4), the owner or operator shall cease on-site earth-moving activities and vehicular movement, apply dust suppressant to fugitive dust sources, or implement other dust control measures as necessary until the PM_{10} concentration is equal to or less than 25 micrograms per cubic meter averaged over 30 minutes.

~~(A) The owner or operator or designating agency may request an alternative PM_{10} limit from the Executive Officer provided the exposure to toxic air contaminants from fugitive dust from earth-moving activities at the proposed PM_{10} concentration level is health protective to the public. The owner or operator or designating agency shall provide the Executive Officer the information specified in subparagraphs (i)(1)(A) through (H) and substantiate its position that an alternative PM_{10} limit is health protective. Use of an alternative PM_{10} limit must be submitted and approved by the Executive Officer as specified in subdivision (j).~~

Alternative PM_{10} Monitoring Method

Subparagraph (d)(3)(A) & Paragraph (d)(6)

- Revised provision to remove use of an alternative method, and replace with use of a Rule 1466 Approved Monitor
  - Included requirements to be added to the Rule 1466 Approved PM_{10} Monitor List

The owner or operator conducting on-site earth-moving activities or vehicular movement shall install PM_{10} monitors and conduct ambient PM_{10} monitoring ~~as follows~~:

(A) In accordance with a U.S. EPA-approved equivalent method for PM_{10} monitoring or using a Rule 1466 Approved PM_{10} Monitor~~an alternative method approved by the Executive Officer. The owner or operator or designating agency shall select an alternative PM_{10} method as specified in Appendix 1. Use of an alternative PM_{10} method must be submitted and approved by the Executive Officer as specified in subdivision (j)~~;

(6) The Executive Officer may approve a PM_{10} monitor to be added as a Rule 1466 Approved PM_{10} Monitor if the PM_{10} monitor meets the specifications listed in *Appendix 1 – Rule 1466 Approved PM_{10} Monitors*. The request for a PM_{10} monitor to be added as a Rule 1466 Approved PM_{10} Monitor shall:

(A) Be submitted to Rule1466@aqmd.gov;

(B) Include a description of the PM_{10} monitor, any accessories, and all monitor specifications; and,

(C) Include documentation demonstrating the specifications listed in *Appendix 1.*

Alternative PM_{10} Calculation Method

Subparagraph (d)(4)(D)

- Revised provision to remove an alternative PM_{10} calculation method
  - Based on implementation of Rule 1466, no projects have requested an alternative PM_{10} calculation method

~~The owner or operator or designating agency may use an alternative calculation methodology if the owner or operator or designating agency provides information to substantiate that all or some the PM_{10} concentration is the result of another source and not attributed to the earth moving activities of the site. Use of an alternative calculation methodology must be submitted and approved by the Executive Officer as specified in subdivision (i).~~

Alternative Dust Control Measures
Paragraph (e)(12)

- Removed provision allowing alternative dust control measures and *Appendix 2 – Objectives and Effectiveness of Dust Control Measures*
- Staff has not identified alternative dust control measures that are equivalent or exceed dust control provisions already required in the rule

~~With the exception of paragraphs (e)(7) and (e)(11), the owner or operator or designating agency may use alternative dust control measures that meet the objective and effectiveness of the dust control measure it is replacing, where the objective and effectiveness of each category of dust control measures is stated in Appendix 2. Use of alternative dust control measures must be submitted and approved by the Executive Officer as specified under subdivision (j).~~

Alternative Signage
Paragraph (g)(2)

- Removed provision allowing alternative signage and incorporated additional provisions for signage

(2) ~~(E)~~If signage pursuant to paragraph (g)(1) exceeds 48 inches by 96 inches, the owner or operator or designating agency must still include the warning statement referenced in (g)(1)(D)(ii), displaying lettering at least four inches tall with text contrasting with the sign background, but may use 2.5 inch tall lettering to list applicable toxic air contaminants. All other signage requirements set forth in paragraph (g)(1) shall remain the same. ~~If signage continues to exceed 48 inches by 96 inches with these parameters, the owner or operator or designating agency may use alternative signage as set forth in paragraph (g)(2).~~

~~(2) The owner or operator or designating agency may use alternative signage approved by the Executive Officer pursuant to subdivision (j). Notwithstanding subdivision (j), the request shall include a visual representation of the alternative sign, including proposed lettering height, and locations and, at a minimum, the alternative signage shall:~~

~~(A) Display text contrasting with the sign background; and~~

~~(B) Display the following warning statement:~~

~~"THIS SITE CONTAINS SOILS THAT CONTAIN THE FOLLOWING CHEMICALS: [LIST APPLICABLE TOXIC AIR CONTAMINANT(S)] TO REPORT ANY DUST LEAVING THE SITE PLEASE CALL THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT AT 1-800-CUT-SMOG"~~

Direct Loading Requirements

Paragraph (j)(3)-(4)

- Removed language allowing use of alternatives to direct loading for linear trenching and excavation less than 500 yd^3
- Staff has not received requests for alternatives to direct loading in the past 3.5 years

(3) Linear trenching for natural gas, power, sewer, and water projects on roadways with soil with applicable toxic air contaminant(s), directly loaded into a truck or bin for transport, shall be exempt from all requirements except: paragraphs (e)(2) through (e)(8), paragraph (e)(11), and subdivisions (f), (h), and (i). ~~The owner or operator or designating agency may use an alternative to directly load into a truck or bin for transport that meets the objective and effectiveness of directly loading soil, where the objective and effectiveness is stated in Appendix 2. Use of an alternative measure must be submitted and approved by the Executive Officer as specified under subdivision (j).~~

(4) On-site ~~Earth~~earth-moving activities consisting only of excavation activities of soil with applicable toxic air contaminant(s) of less than 500 cubic yards, directly loaded into a truck or bin for transport, shall be exempt from all requirements except: paragraphs (e)(2) through (e)(8), paragraph (e)(11), and subdivisions (f), (h), and (i). ~~The owner or operator or designating agency may use an alternative to directly load into a truck or bin for transport that meets the objective and effectiveness of directly loading soil, where the objective and effectiveness is stated in Appendix 2. Use of alternative measure must be submitted and approved by the Executive Officer as specified under subdivision (j).~~

Monitoring Requirements
Subdivision (d)

- Installing PM_{10} Monitors
- Conducting PM_{10} Monitoring
- Calculating PM_{10} Concentration

Installing PM_{10} Monitors
Subparagraph (d)(3)(B)

- Revised provisions to remove designation of monitors as upwind or downwind monitor
  - Monitors will still be placed the upwind and downwind locations based on seasonal prevailing wind direction

Using a minimum of ~~one~~ two ~~upwind~~ monitors, placing each monitor as close to the property line as feasible in the following locations, where:

(i) ~~the location of the upwind monitor(s) are~~At a minimum, one monitor is in the seasonal prevailing wind direction upwind of the area(s) of on-site earth-moving activity and vehicular movement, indicative of background PM_{10} levels, and not generally influenced by fugitive dust sources from the site;

(ii) ~~Using~~ At a minimum, ~~of one downwind~~ one monitor ~~placed~~ is in the seasonal prevailing wind direction downwind of ~~each~~ the area(s) of on-site earth-moving activity and vehicular movement ~~and as close to the property line as feasible~~;

Conducting PM_{10} Monitoring *Subparagraphs (d)(3)(E)-(H)*

- Added instrument QA/QC procedures and operating parameters to ensure PM_{10} measurement accuracy and precision [(d)(3)(E)-(F)]
- Added requirement for heated sampler inlet to ensure no humidity interference [(d)(3)(G)]
- Clarified data acquisition system requirements to ensure date and time calibration of logged PM_{10} data [(d)(3)(H)]
- Changed interval of data collection from ten to one minute to align with new rolling average calculations [(d)(3)(H)]

(E) Prior to conducting any on-site earth-moving activities or vehicular movement, and weekly thereafter, running an intra-instrument precision test with the PM_{10} monitors in accordance with *Appendix 2 – Procedures to Demonstrate Intra-Instrument Precision* and demonstrating an intra-instrument precision of ± 10 percent;

(F) Each day prior to conducting on-site earth-moving activities or vehicular movement, zeroing each PM_{10} monitor and running a blank check in accordance with manufacturer's instructions;

(G) Operating PM_{10} monitors with the heated sampler inlet on; and,

(~~F~~H) Collecting ambient PM_{10} data with a data acquisition system that is capable of logging direct-reading near real-time data providing the date~~,~~ and time, calibrated to Pacific Standard Time (PST), and PM_{10} concentration in micrograms per cubic meter every ~~10 minutes~~ one minute or less.

Appendix 2 - Procedures to Demonstrate Intra-Instrument Precision

Will be provided at the Public Workshop

Calculating PM_{10} Concentration

Subparagraphs (d)(4)(A)-(B)

- Updated PM_{10} concentration calculation from a two-hour average to a 120-minute rolling average to reflect current data acquisition system logging capabilities [(d)(4)(A)]
- Clarified the start time of PM_{10} averaging periods when commencing activities [(d)(4)(B)]

The owner or operator shall calculate the PM_{10} concentration as a 120-minute rolling average every minute~~based on the PM_{10} concentration averaged over two hours, starting at the top of each hour~~, where:

(A) The initial average starts at the commencement of on-site earth-moving activities or vehicular movement and ends at 120 minutes after commencement of on-site earth-moving activities or vehicular movement;

(B) The averages subsequent to the initial average specified in subparagraph (d)(4)(A) are calculated every one minute and cover the previous 120-minute period;

Calculating PM_{10} Concentration

Subparagraphs (d)(4)(C)

- Removed "absolute difference" in PM_{10} calculation to ensure appropriate enforcement of PM_{10} limit when there are dust emissions from upwind sources [(d)(4)(C)]
- Added provisions to re-designate upwind and downwind monitors if the seasonal wind direction changes by more than ± 90° [(d)(4)(C)(i) & (ii)]
  - If the upwind becomes downwind, then the PM_{10} will be the difference of the true downwind minus the true upwind

(~~A~~C) The PM_{10} concentration is ~~the absolute difference between the upwind and~~ calculated by subtracting the results of the downwind monitor(s) from the upwind monitor(s) for the same rolling averaging period;

(i) If the wind direction is in the seasonal prevailing wind direction, then the monitor described pursuant to clause (d)(3)(B)(i) shall be designated as the upwind monitor(s) and the monitor described pursuant to clause (d)(3)(B)(ii) shall be designated as the downwind monitor(s); and,

(ii) If there is greater than a ± 90 degree change in wind direction from the seasonal prevailing wind direction, then the monitor described pursuant to clause (d)(3)(B)(i) shall be designated as the downwind monitor(s) and the monitor described pursuant to clause (d)(3)(B)(ii) shall be designated as the upwind monitor(s);

Calculating PM_{10} Concentration

Subparagraph (d)(4)(F)

- Added provision to clarify the start of a new averaging period when resuming activities after an exceedance

When on-site earth-moving activities or vehicular movement resume after ceasing pursuant to paragraph (d)(2), the average shall start when on-site earth-moving activities or vehicular movement begin and end 120 minutes after on-site earth-moving activities or vehicular movement begin and the subsequent averages are calculated each minute and shall cover the previous 120-minute period.

Requirements to Minimize Fugitive Dust Emissions *Subdivision (e)*

- Fencing Windscreen
- Vehicular Movement & Egress
- Stockpiles
- Periods of Inactivity
- Schools, Joint Use Agreement Properties, & Adjacent Athletic Areas

Fencing Windscreen
Paragraph (e)(1)

- Revised windscreen specifications to change the standard from porosity to shade value or opacity
  - Staff received comments that porosity is not a typical standard
  - Use of shade value or opacity is a more widely used standard
- Added fencing exemptions if:
  - Physical barrier is present; or
  - No earth-moving or vehicular movement within 300 feet from site perimeter

An owner or operator shall not conduct on-site earth-moving activities unless the area is surrounded with fencing that is a minimum of ~~6~~ six feet tall ~~and~~ but at least six inches ~~as~~ taller ~~as~~ than the height of the tallest stockpile, with a mesh windscreen with a ~~porosity of 50 ± 5%~~ shade value or opacity of 85 ± 5%. A section of the perimeter surrounding an on-site earth-moving activity or vehicular movement area may be excluded from this requirement if that section:

(A) Has a solid physical barrier, such as a solid wall or other solid feature that minimizes air flow, that is a minimum of six feet tall but at least six inches taller than the height of the tallest stockpile; or,

(B) Does not have on-site earth-moving activity or vehicular movement occurring within 300 feet from the perimeter of that section.

http://www.championfencing.net/

Vehicular Movement & Egress
Subparagraphs (e)(3)(C)-(E)

- Aligned provision with Rule 403 to be cumulative length instead of continuous length [(e)(3)(C)]
- Corrected 99.97% “control” to “capture” efficiency [(e)(3)(C)]
- Added that cleaning method cannot be compressed air cleaning [(e)(3)(D)]
- Increased widths of surface paving and wheel shaker/spreaders dividers to align with required width of egress pad [(e)(3)(E)]

(C) Not allow any track-out outside of the property line ~~to extend beyond~~ that is 25 feet or more in cumulative length ~~of the property line~~. Remove any track-out each day using a vacuum equipped with a filter(s) rated by the manufacturer to achieve a 99.97% ~~capture~~ control efficiency for 0.3 micron particles;

(D) Clean the soil from the exterior of trucks, trailers, and tires prior to the truck leaving the site, without the use of compressed air; and,

(E) The owner or operator shall utilize at least one of the following measures ~~listed in clause (e)(3)(E)(i) through (e)(3)(E)(iv)~~ at each vehicle egress from the site to a ~~paved~~ public road:

(i) Install a pad consisting of washed gravel (minimum-size: one inch), maintained in a clean condition, to a depth of at least six inches and extending at least 30 feet wide and at least 50 feet long;

(ii) Pave the surface extending at least 100 feet from the property line and at least ~~20~~ 30 feet wide;

(iii) Utilize a wheel shaker/wheel spreading device consisting of raised dividers (rails, pipes, or grates) at least 24 feet long and ~~10~~ 30 feet wide; or,

(iv) Install and utilize a wheel washing system to remove soil from tires and vehicle undercarriages.

Stockpiles

Subparagraph (e)(4)(E)-(H)

- Increased frequency of stabilizing or covering stockpiles from at the end of each working day to when work and monitoring are not being conducted to minimize fugitive dust emissions during periods of inactivity [(e)(4)(E)]
- Corrected for thickness of plastic to “mil” instead of “millimeter” [(e)(4)(E)]
- Clarified that daily inspection of stockpiles includes nonworking days [(e)(4)(F)]
- Added provisions to ensure sufficient stabilization or covering of stockpiles to minimize fugitive dust emissions to surrounding community [(e)(4)(G)-(H)]

(E) At ~~the end of each working day~~all times when earth-moving activities or vehicular movement, and ambient PM_{10} monitoring are not occurring, either chemically stabilize and/or completely cover with 10 ~~millimeter~~ mil thick plastic sheeting that overlaps a minimum of 24 inches. The plastic sheeting shall be anchored and secured so that no portion of the soil is exposed to the atmosphere; ~~and~~

(F) Daily, including days where no on-site earth-moving activities or vehicular movement is occurring, inspect stabilized or covered stockpiles. For a stabilized stockpile, such inspections shall include a demonstration of stabilization by one or more of the applicable test methods contained in South Coast AQMD *Rule 403 Fugitive Dust Implementation Handbook* or Volumes I and II of South Coast AQMD’s *Dust Control in the Coachella Valley*. For a covered stockpile, such inspections shall include a visual inspection of all seams and plastic cover surfaces. ~~Immediately re-stabilize or repair any holes, tears, or any other potential sources of fugitive toxic air contaminant emissions.~~;

(G) If a chemical stabilizer is used to meet the requirements of subparagraph (e)(4)(E), the chemical stabilizer shall be applied at a minimum frequency as specified in paragraph (e)(10); and,

(H) If a cover is used to meet the requirements of subparagraph (e)(4)(E), the cover shall be free of any holes or tears.

Periods of Inactivity

Paragraph (e)(10)

- Shortened timeframe from 3 days of inactivity to at the end of each working day of when potential sources of fugitive dust must be stabilized
  - Minimizes exposure to surrounding community during nonworking hours
- Added in requirements of CHEMICAL STABILIZER ((c)(3)) that was originally in the definition

~~If earth-moving activities will not occur for three (3) or more consecutive days~~At the end of each working day, apply a chemical stabilizer to potential sources of fugitive dust diluted to the concentration required to maintain a stabilized surface for the period of inactivity~~;~~ and re-stabilize as necessary. The chemical stabilizer shall:

(A) Meet any specifications, criteria, or tests required by any federal, state, or local agency or any applicable law, rule, or regulation; and,

(B) Unless otherwise indicated, be of sufficient concentration and application frequency to maintain a stabilized surface and no less than what is specified by the manufacturer.

Schools, Joint Use Agreement Properties, or Adjacent Athletic Areas

Paragraph (e)(11)

- Require enhanced dust control measures for sites that are adjacent to schools, joint use agreement properties, or adjacent athletic areas
  - Enhanced practices required due to the toxic nature of the soil and the proximity to children

An owner or operator that is conducting earth-moving activities of soil with applicable toxic air contaminant(s) at a school, ~~early education center,~~ joint use agreement property, ~~or~~ adjacent athletic area, or at a site that is adjacent to a school, joint use agreement property, or adjacent athletic area shall:

(A) Only conduct earth-moving activities at a school ~~or early education center~~ or at a site that is adjacent to a school outside of the hours between 7:30 a.m. and 4:30 p.m. on days when the school ~~or early education center~~ is in session;

(B) Not conduct earth-moving activities at a school, ~~early education center,~~ joint use agreement property, ~~or~~ adjacent athletic area, or at a site that is adjacent to a school, joint use agreement property, or adjacent athletic area if there is a school ~~or early education center~~ sponsored activity or youth organized sports taking place at that site;

(C) Handle excavated soils with applicable toxic air contaminant(s) by:

(i) Immediately placing soil in a leak-tight container whereby any contained solids or liquids are prevented from escaping or spilling out;

(ii) Directly loading soil in trucks, applying dust suppressant, and covering prior to transporting; or,

(iii) Stockpiling pursuant to paragraph (e)(4), in a fenced area that is not accessible to the general public, and locked when not in use; and,

(D) Within five (5) days of its excavation, remove all soil with applicable toxic air contaminant(s) from the site.

Notification Requirements
Subdivision (f)

- Project Exceeds 50 yd^3
- Initial Notification Requirements
- Project Completion Date

Project Exceeds 50 yd^3

Subparagraph (f)(1)(B)

- Added an initial notification provision for sites that become applicable to Rule 1466 after the project exceeds the 50 yd^3 threshold

~~At least 72 hours and no more than 30 days prior to conducting any earth-moving activities on any site meeting the applicability requirements of subdivision (b), the~~ The owner or operator shall electronically ~~notify~~ submit an initial notification to the Executive Officer, using a format approved by the Executive Officer, of the intent to conduct any on-site earth-moving activities.

(A) Initial notifications shall be submitted:

(i) At least 72 hours but no more than 30 days prior to conducting any earth-moving activities or vehicular movement on any site meeting the applicability requirements of subdivision (b); or,

(ii) As soon as the information becomes available but no later than 48 hours after the information becomes available that on-site earth-moving activities of soil with applicable toxic air contaminant(s) are 50 cubic yards or greater.

Initial Notification Requirements

Subparagraph (f)(1)(B)

- For consistency with addition to paragraph (e)(11), added requirement to identify whether the site is adjacent to a school-related property

Initial ~~Notifications~~ notifications shall include the following requirements:

(~~A~~i) Name, address, telephone number, and e-mail address of the owner or operator;

(~~B~~ii) Name, telephone number, and e-mail address of the on-site dust control supervisor;

(~~C~~iii) Project name and, if applicable, the project identification number from the designating agency;

(~~D~~iv) Project location (address and/or coordinates);

(~~E~~v) Identify whether the site is a school, ~~early education center,~~ joint use agreement property, or adjacent athletic area or adjacent to a school, joint use agreement property, or adjacent athletic area;

(~~F~~vi) A map indicating the specific location(s) of each on-site earth-moving activity and vehicular movement and the concentrations of the applicable toxic air contaminant(s) and location of PM_{10} monitors;

(~~G~~vii) A description of the on-site earth-moving activities and vehicular movement, estimated volume of soil with applicable toxic air contaminant(s), and a schedule that includes the anticipated start and completion dates of on-site earth-moving activities and vehicular movement;

(~~H~~viii) Current and/or previous type of operation(s) and use(s) at the site;

(~~I~~ix) Applicable exemption(s); and,

(~~J~~x) Whether the notice being provided is a revised notification.

Completion Date

Subparagraph (f)(2)(D)

- Added a notification update for project completion
  - Project completion information is needed for inspection planning and complaint investigation purposes

Completion Date

The completion date of on-site earth-moving activities and vehicular movement shall be reported to the South Coast AQMD no later than 48 hours after on-site earth-moving activities and vehicular movement are completed.

Signage Requirements *Subdivision (g)*

- Added signage exemption for when the property line and perimeter of the site is not visible to the public
  - Does not apply to school-related properties or sites adjacent to school-related properties

Paragraph (g)(3)

Unless the site is a school, joint use agreement property, or adjacent athletic area or the site is adjacent to a school, joint use agreement property, or adjacent athletic area, the owner or operator is exempt from installing and maintaining project signage pursuant to subparagraph (g)(1)(A) at any entrance(s) or interval(s) along the property line or perimeter of the site that is not visible to the public.

Recordkeeping Requirements *Subdivision (h)*

- Added recordkeeping provisions for:
  - Inspections of stabilized stockpiles and re-stabilization or repair activities conducted
  - Additional instrument data and calculations
  - Instrument maintenance activities
  - Spilled soil removal

The owner or operator shall maintain records for a period of not less than three years and shall make such records available to the Executive Officer upon request. At a minimum, records shall be maintained daily and shall include:

(1) Inspections of all stabilized or covered stockpiles containing soils with applicable toxic air contaminant(s) and all re-stabilization or repair activities, including dates and times the specific activities were conducted;

(2) Results of wind and PM_{10} monitoring, including: ambient PM_{10} data; rolling average PM_{10} concentrations and calculations; wind direction and speed corresponding to the rolling average PM_{10} concentrations; instrument make and model; settings; calibration; configuration; calibration, correction, and correlation factors; maintenance; operator training; ~~and~~ daily instrument performance check records; and all instrument logs for all monitoring instruments;

(3) All instrument maintenance activities, including: zero calibration; cleaning; filter replacement; and performance checks, including dates and times of the specific procedures;

(~~3~~4) On-site ~~Earth~~earth-moving activities and vehicular movement conducted and the corresponding volume of soil with applicable toxic air contaminant;

(~~4~~5) Names and business addresses of the transporting and receiving facilities, and a copy of the shipping manifest; ~~and~~

(~~5~~6) Complaints called in, including the name of complainant and contact information, date and time, on-site earth-moving activities and vehicular movement occurring at the date and time, complaint, and action taken to mitigate the source of the complaint; and.~~.~~

(7) Any incidents of spilled soil containing applicable toxic air contaminant(s), including the date and time of the incident, and action taken to remove the spilled soil.

Table I – Applicable Toxic Air Contaminants

- Added PCB congener names for clarification

CAS Number	Substance
1336-36-3	**polychlorinated biphenyls (PCBs)**
32598-13-3	3,3’,4,4’-tetrachlorobiphenyl (PCB 77)
70362-50-4	3,4,4’,5-tetrachlorobiphenyl (PCB 81)
32598-14-4	2,3,3’,4,4’-pentachlorobiphenyl (PCB 105)
74472-37-0	2,3,4,4’,5-pentachlorobiphenyl (PCB 114)
31508-00-6	2,3’,4,4’,5-pentachlorobiphenyl (PCB 118)
65510-44-3	2,3',4,4',5'-pentachlorobiphenyl (PCB 123)
57465-28-8	3,3’,4,4’,5-pentachlorobiphenyl (PCB 126)
38380-08-4	2,3,3’,4,4’,5-hexachlorobiphenyl (PCB 156)
69782-90-7	2,3,3’,4,4’,5’-hexachlorobiphenyl (PCB 157)
52663-72-6	2,3’,4,4’,5,5’-hexachlorobiphenyl (PCB 167)
32774-16-6	3,3’,4,4’,5,5’-hexachlorobiphenyl (PCB 169)
39635-31-9	2,3,3’4,4’,5,5’-heptachlorobiphenyl (PCB 189)

Appendix 1 – Rule 1466 Approved PM_{10} Monitors

- MCERTS Certification
- Flow Control

MCERTS Certification *Appendix 1*

- Added MCERTS certification as an option to demonstrate PM_{10} monitor approval criteria
- MCERTS performance standard for indicative ambient particulate monitors was referenced to develop the instrument requirements for Rule 1466 monitoring
- MCERTS certification is widely used by environmental monitor manufacturers to demonstrate instrument performance and reliability

The Executive Officer may approve PM_{10} monitors that have a valid *Monitoring Certification Scheme* certification to meet the latest version of the *Monitoring Certification Scheme (MCERTS): Performance Standard for Indicative Ambient Particulate Monitors* or meeting the following requirements.

MCERTS
THE ENVIRONMENT AGENCY'S MONITORING CERTIFICATION SCHEME

List of Currently MCERTS Certified Monitors*

CERTIFICATE HOLDER	MODEL	CERTIFIED RANGE	CERTIFICATE NO.
Aeroqual Ltd Tel: +64 9 623 3013 www.aeroqual.com	Dust Sentry	PM_{10} 0 to 150µg/m³	Sira MC 190235/02 Version issued: 16/09/2019
Aeroqual Ltd Tel: +64 9 623 3013 www.aeroqual.com	AQM 65	PM_{10} 0 to 150µg/m³	Sira MC 190239/01 Version issued: 16/09/2019
MetOne Instruments Inc www.metone.com UK Sales (EnviroTechnology Services plc): Tel: +44 (0) 1453 733200 www.et.co.uk info@et.co.uk	E-Sampler Real Time Aerosol Monitor ES-642 Real Time Aerosol Monitor	$PM_{2.5}$ 0 to 150µg/m³ PM_{10} 0 to 150µg/m³	Sira MC 190241/04 Version issued: 24/10/2019
SENSIRION AG Tel: +41 44 306 40 00 info@sensirion.com www.sensirion.com	SPS30 Particulate Matter Sensor	$PM_{2.5}$ 0 to 75µg/m³	Sira MC200350/00 Version issued: 08/01/2020
SENSIRION AG Tel: +41 44 306 40 00 info@sensirion.com www.sensirion.com	Nubo Air Quality Monitor	$PM_{2.5}$ 0 to 75µg/m³	Sira MC 200352/00 Version issued: 01/04/2020
TSI Incorporated UK Sales: Tel: +44 (0) 149 4 459200 www.tsi.com	Environmental DustTrak™ Aerosol Monitor EDTPMtoM	PM_{10} 0 to 10, 000 µg/m³	Sira MC190316/03 Version issued: 24/10/2019
TSI Incorporated UK Sales: Tel: +44 (0) 149 4 459200 www.tsi.com	Environmental DustTrakTM Aerosol Monitor EDTPM2.5M	$PM_{2.5}$ 0 to 10, 000 µg/m³	Sira MC190317/03 Version issued: 24/10/2019
TSI Incorporated UK Sales: Tel: +44 (0) 149 4 459200 www.tsi.com	Environmental DustTrak™ Aerosol Monitor EDTDRXM	$PM_{2.5}$ 0 to 10, 000 µg/m³ PM_{10} 0 to 10, 000 µg/m³	Sira MC190318/03 Version issued: 24/10/2019
Turnkey Instruments Ltd Tel: +44(0)1606 330020 www.turnkey-instruments.com	Osiris Airborne Particulate Monitor	PM_{10} 0 to 100µg/m³	Sira MC 090157/06 Version issued: 30/09/2019
Turnkey Instruments Ltd Tel: +44(0)1606 330020 www.turnkey-instruments.com	Topas Airborne Particulate Monitor	PM_{10} 0 to 100 µg/m³	Sira MC 090158/06 Version issued: 30/09/2019

* https://www.csagroupuk.org/services/mcerts/mcerts-product-certification/mcerts-certified-products/mcerts-certified-products-indicative-ambient-particulate-monitors/

Flow Control
Appendix 1

- Added that sample pump must have an active flow control mechanism and removed "volumetric flow controller" requirement
  - Volumetric flow control requirement excluded monitors with different flow control mechanisms (e.g. mass) from being pre-approved
  - Clarifies requirement of monitors to be equipped with some flow control mechanism and excludes monitors with no flow control mechanism and passive sampling devices

PM_{10} monitors must be equipped with:

a. Omni-directional heated sampler inlet;

b. Sample pump with active flow control mechanism and stated flow control accuracy of ±5% of factory setpoint;

~~c.~~ ~~Volumetric flow controller;~~

~~d~~c. Enclosure; and

~~e~~d. Data logger capable of logging each data point with average concentration, time/date, and data point number.

Next Steps

Public Workshop

- Late February

Working Group Meeting #3

- Early March, if needed

Stationary Source Committee

- March 19, 2021

Set Hearing

- April 2, 2021

Public Hearing

- May 7, 2021

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