

TECHNICAL GUIDEBOOK

Air Monitoring Technology for **Rule 1466**



TECHNICAL GUIDEBOOK

Air Monitoring Technology for Rule 1466

A Practical Guidebook for PM₁₀ Monitoring, Site Contribution, Alerts, Dust Controls, Notifications, and Documentation. Prepared for site owners, operators, environmental consultants, remediation contractors, and dust control supervisors.

Important note: This guidebook is an informational planning resource. It does not replace South Coast AQMD Rule 1466, agency direction, project permits, professional judgment, or legal review. Project teams should verify current regulatory requirements before mobilization. Follow the current submission instructions, supporting-document requirements, and fee information on [South Coast AQMD's Rule 1466 compliance page](#).

Regulatory content reviewed July 2026; based on Rule 1466 amended June 4, 2021

How to Use This Guidebook

This guidebook is written for project teams that need to plan, deploy, operate, and document a [Rule 1466](#) air monitoring program. It follows the lifecycle of a Rule 1466 project: understanding the regulation, designing the monitoring approach, selecting equipment, deploying the system, managing data, responding to changing conditions, and documenting compliance.

AUDIENCE	TYPICAL USE OF THIS GUIDEBOOK
Environmental consultants	Develop monitoring plans, select equipment, manage data, and prepare compliance records.
Remediation contractors	Coordinate earth-moving activities, apply dust controls, and respond to alerts.
Site owners and developers	Understand responsibilities, project risks, and documentation needs.
Dust control supervisors	Manage field response, corrective actions, inspections, and daily records.
Air monitoring specialists	Deploy monitors, maintain data quality, troubleshoot systems, and support reporting.
Construction managers	Coordinate field activities while avoiding preventable delays or stop-work events.

Guidebook Structure

- ▶ Understanding Rule 1466
- ▶ Rule 1466 monitoring requirements
- ▶ Site contribution and rolling averages
- ▶ PM₁₀ monitoring technology
- ▶ Selecting a Rule 1466 monitoring system
- ▶ Aeroqual Dust Sentry and AQS 1 monitoring options
- ▶ Meteorological monitoring and monitor assignment
- ▶ Data quality, QA/QC, and calibration
- ▶ Cloud software, alerts, and automated reporting
- ▶ The Specto Difference for Rule 1466 Monitoring
- ▶ Specto Technology Field Deployment Solutions for South Coast AQMD Rule 1466 Air Monitoring Systems
- ▶ Frequently asked questions
- ▶ References and appendices



01 Understanding South Coast AQMD Rule 1466

Purpose of the Rule

South Coast AQMD Rule 1466, Control of Particulate Emissions from Soils with Toxic Air Contaminants, was developed to minimize off-site fugitive dust emissions from earth-moving activities involving contaminated soils. These activities may include dredging, excavation, grading, earth cutting and filling, loading, unloading, handling, mechanized land clearing, treating, stockpiling, transferring, and removal of soil with applicable toxic air contaminants.

The practical objective is straightforward: prevent contaminated dust from leaving the site and maintain records that demonstrate the project team monitored conditions, responded when required, and implemented dust controls throughout applicable work activities.

Core concept: Rule 1466 is not simply a requirement to place a dust monitor on site. It is a monitoring, response, and documentation framework built around PM_{10} site contribution, wind conditions, dust controls, notifications, and defensible records.

Why Rule 1466 Matters on Remediation and Redevelopment Projects

Redevelopment and infrastructure projects in Southern California often disturb soils affected by historical industrial uses, petroleum operations, manufacturing, transportation corridors, utilities, landfills, or other legacy sources. When contaminated soil is excavated, loaded, stockpiled, transferred, or moved by equipment, fine particulate matter can become airborne and migrate beyond the project boundary.

Visual dust observations remain important, but they cannot quantify particulate concentrations or distinguish between background dust and dust generated by the project. Rule 1466 addresses this gap by requiring near real-time PM₁₀ monitoring, meteorological data, site contribution calculations, and timely corrective actions.

Projects Commonly Associated with Rule 1466

PROJECT TYPE	TYPICAL ACTIVITIES
Brownfield redevelopment	Excavation, grading, soil handling, stockpile management, and redevelopment earthwork.
DTSC cleanup projects	Removal or management of contaminated soil at regulated cleanup sites.
Superfund or hazardous material release sites	Soil removal, remedial excavation, loading, and off-site transport.
Industrial redevelopment	Demolition support, site preparation, contaminated soil movement, and utility relocation.
Utility infrastructure	Trenching, backfilling, spoil handling, and restoration in areas with contaminated soil.
Landfill and disposal site work	Cover replacement, excavation, cap repair, and waste-adjacent soil handling.
Public works and transportation	Roadway, rail, flood control, and utility work involving impacted soils.

Common Contaminants of Concern

The contaminants of concern for a specific site are identified during environmental investigation and remediation planning. Rule 1466 focuses on soil with applicable toxic air contaminants, and project teams

should rely on the designating agency, site investigation data, and approved work plans when determining applicability and controls.

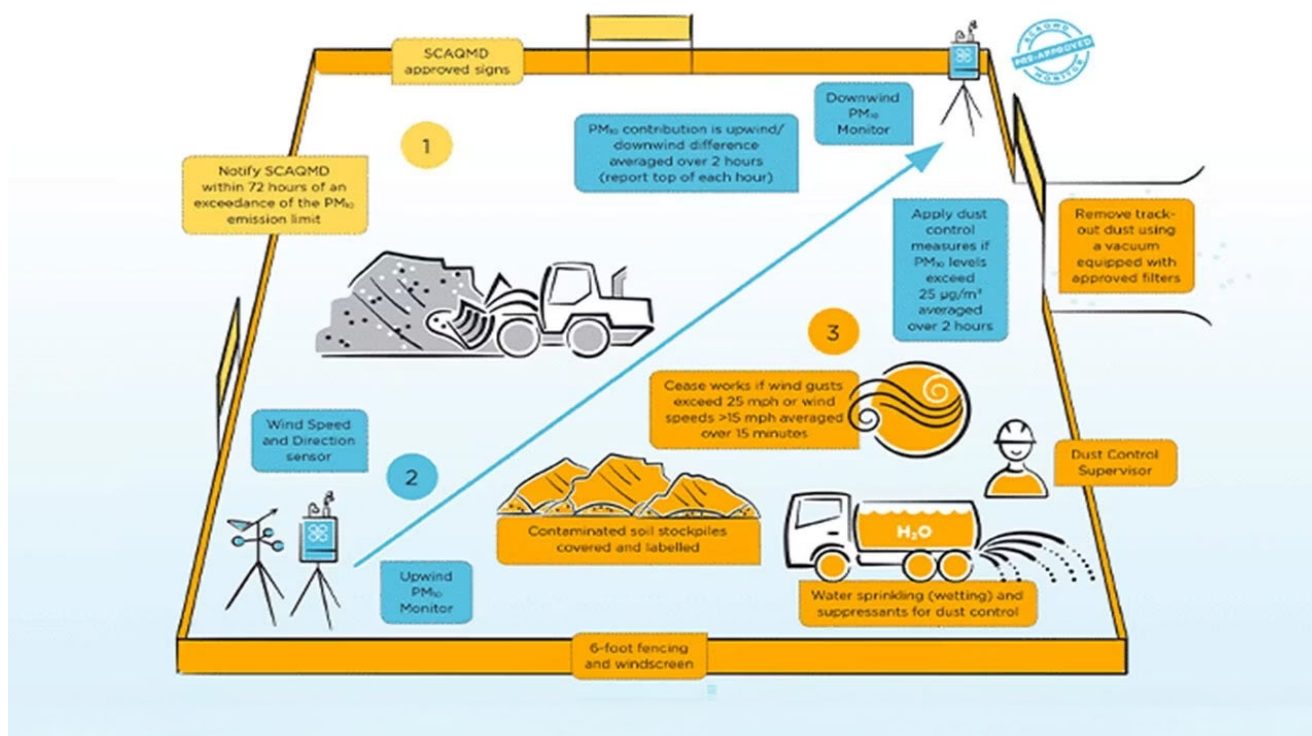
METALS	INDUSTRIAL CONTAMINANTS	OTHER MATERIALS
Arsenic	Polychlorinated biphenyls (PCBs)	Asbestos, where applicable under project requirements
Lead	Industrial chemicals and manufacturing residues	Herbicides and pesticides
Cadmium	Petroleum-related contaminants	Other site-specific toxic air contaminants
Mercury	Slag, aggregate, or soil affected by historical operations	Contaminants identified by the designating agency
Hexavalent chromium	Semi-volatile or particle-bound contaminants	Other hazardous materials associated with soil disturbance

Why PM₁₀ Is Used

PM₁₀ refers to airborne particulate matter with an aerodynamic diameter of 10 micrometers or smaller. These particles can remain suspended in air and may be transported by wind beyond the active work area. During earth-moving activities, PM₁₀ can act as a practical indicator of fugitive dust emissions that may carry soil-associated contaminants.

Rule 1466 uses PM₁₀ monitoring to evaluate whether site activities are contributing to particulate levels above background conditions. This is why upwind and downwind monitoring, supported by wind direction data, is central to the monitoring program.

02 Rule 1466 Monitoring Requirements



A successful Rule 1466 monitoring program combines PM₁₀ monitoring, meteorological monitoring, site contribution calculations, response procedures, dust controls, notifications, signage, and recordkeeping. These elements should be planned together rather than treated as separate tasks.

REQUIREMENT	PURPOSE	PRACTICAL IMPLEMENTATION
Continuous PM₁₀ monitoring	Measure near real-time particulate concentrations during on-site earth-moving activities.	Use a U.S. EPA-approved equivalent method or a Rule 1466 Approved PM ₁₀ Monitor.
Upwind monitoring	Establish background PM ₁₀ levels entering the site.	Place at least one monitor close to the property line in a location not generally influenced by site fugitive dust.

REQUIREMENT	PURPOSE	PRACTICAL IMPLEMENTATION
Downwind monitoring	Measure PM ₁₀ after air has passed across the work area.	Place at least one monitor close to the property line in the downwind direction of earth-moving activity.
Meteorological monitoring	Determine wind speed and wind direction for dust transport and monitor assignment.	Use a stationary anemometer or wind sensor that meets Rule 1466 performance and data logging requirements.
Site contribution calculations	Determine project contribution by subtracting upwind PM ₁₀ from downwind PM ₁₀ for the same averaging period.	Use rolling averages and automated software where possible.
Response actions	Reduce emissions when action levels are exceeded or conditions change.	Cease earth-moving, apply dust suppressant, or implement other dust controls as required.
Notifications and records	Demonstrate compliance and provide required information to South Coast AQMD.	Maintain PM ₁₀ data, wind data, calibration records, field logs, dust control actions, and exceedance notifications.

Mandatory Rule 1466 field requirements

- ▶ Six-foot fencing that is also at least six inches taller than the tallest stockpile, with the specified windscreen characteristics.
- ▶ The 15 mph site speed-limit signage.
- ▶ Track-out limits, daily removal and the required vacuum filtration.
- ▶ The 400-cubic-yard stockpile maximum.
- ▶ Required stockpile wording, stabilization/covering, 10-mil covers and 24-inch overlap.
- ▶ Daily stockpile inspections, including days with no earth-moving.
- ▶ Dust control supervisor presence and completion of the South Coast AQMD training class.
- ▶ Additional supervisor credentials where asbestos is applicable.
- ▶ School, adjoining-school and youth athletic activity restrictions.

Monitoring Equipment Requirements

Rule 1466 requires ambient PM₁₀ monitoring using either a U.S. EPA-approved equivalent method for PM₁₀ monitoring or a Rule 1466 Approved PM₁₀ Monitor. Monitors used for the same project should be identical in make, model, settings, and configuration. They must be operated, maintained, and calibrated in accordance with applicable U.S. EPA-published documents and manufacturer instructions.

Since January 1, 2022, the data acquisition system must log date, time, and PM₁₀ concentration at least once every minute, with time calibrated to Pacific Standard Time. PM₁₀ monitors must also operate with the heated sampler inlet on where applicable under the rule.

Minimum Monitoring Layout

The minimum monitoring layout is one upwind PM₁₀ monitor, one downwind PM₁₀ monitor, and one wind sensor or weather station. More monitors may be needed where the project has multiple work areas, complex boundaries, sensitive receptors, variable wind patterns, or multiple potential downwind directions.

Best practice: Design the monitoring network around how dust could actually leave the site, not just the minimum number of monitors. Consider work phases, property line geometry, sensitive receptors, prevailing winds, access constraints, and power or communications limitations.

Dust Control Measures

Monitoring does not replace dust control. A Rule 1466 program should include proactive controls to prevent fugitive dust and response controls that can be escalated when site contribution increases. Typical controls include water application, chemical stabilizers where appropriate, wind fencing, stockpile covers, track-out controls, vehicle speed limits, wheel wash systems, street sweeping or vacuum sweeping, and modification of work methods during high-risk conditions.

CONTROL AREA	EXAMPLES
Work area dust suppression	Water spray, misting, soil moisture management, reduced drop heights, and adjusted equipment sequencing.
Stockpile management	Covers, stabilizers, fencing, labeling, restricted access, and removal within project-specific timeframes.

CONTROL AREA	EXAMPLES
Track-out control	Wheel wash, tire cleaning, stabilized exits, vacuum sweeping, and inspection of paved roads.
Wind protection	Fencing, windscreen, work suspension during high winds, and work area relocation where feasible.
Operational response	Temporarily cease earth-moving, increase suppression, investigate source, document corrective actions, and resume when criteria are met.

Notifications, Signage, and Documentation

Rule 1466 includes administrative requirements such as initial notifications, notification updates, exceedance notifications, and project signage. These obligations should be planned before mobilization because they require project contacts, dust control supervisor information, project location details, work schedules, monitor locations, and contaminant information.

Documentation should be treated as part of the monitoring system. Complete records reduce the burden of demonstrating compliance during agency review and help project teams reconstruct what happened during changing site conditions.

03 Site Contribution and Rolling Averages

Site contribution is the technical center of Rule 1466 monitoring. Rather than evaluating downwind PM_{10} alone, Rule 1466 focuses on the increase in PM_{10} attributable to project activities. This approach helps separate site-generated dust from regional background particulate matter, road dust, wildfire smoke, nearby construction, or other off-site sources.

Basic Calculation

Site Contribution = Downwind PM_{10} - Upwind PM_{10}

The calculation is simple in concept, but it becomes operationally complex because wind direction changes, monitor assignment may change, and rolling averages must be applied continuously during work activities.

Averaging Periods

For current Rule 1466 monitoring, PM₁₀ concentration is calculated as a 120-minute rolling average. After the initial 120-minute period, subsequent averages are calculated every minute and cover the previous 120 minutes. The PM₁₀ concentration is calculated by subtracting the upwind monitor result from the downwind monitor result for the same averaging period.

If the PM₁₀ concentration exceeds 25 ug/m³, the owner or operator must cease on-site earth-moving activities, apply dust suppressant to fugitive dust sources, or implement other dust control measures as necessary until the PM₁₀ concentration is equal to or less than 25 ug/m³ averaged over 30 minutes.

Important distinction: One-minute PM₁₀ data feeds the calculation, but the main compliance value is the rolling-average site contribution. Software should preserve the one-minute data, calculate the rolling averages, and document the response period when controls are applied or work resumes.

Monitor Assignment and Wind Direction

Upwind and downwind designations depend on wind direction. Rule 1466 establishes an approach based on seasonal prevailing wind direction and provides for reassignment when wind direction changes by more than plus or minus 90 degrees from the seasonal prevailing wind direction. In practice, this is one reason automated software is valuable: it can continuously evaluate wind data, assign monitors, calculate the correct upwind and downwind values, and record the basis for the calculation.

CONDITION	MONITORING IMPLICATION
Wind in seasonal prevailing direction	The monitor placed upwind of the earth-moving area is used as upwind; the downwind monitor is used as downwind.
Wind direction changes by more than plus or minus 90 degrees	Monitor designation may reverse depending on the configuration and rule methodology.
More than one upwind monitor	The upwind result is generally the average concentration of all upwind monitors for the same rolling average period.
More than one downwind monitor	The downwind result is generally the maximum concentration of the downwind monitors for the same rolling average period.
Monitors are physically moved with wind direction	The team must move monitors to maintain upwind and downwind locations and document the change.

Why Manual Calculations Are Risky

Manual calculations can work for simple demonstrations, but they are not efficient for active projects. Field teams must manage timestamp alignment, changing wind direction, monitor assignment, rolling averages, data gaps, power interruptions, communications issues, and reporting. Spreadsheet-based workflows increase the risk of transcription errors, missed alerts, inconsistent formulas, or incomplete records.

Automated site contribution software reduces that risk by applying the same method consistently, preserving raw data, generating rolling averages, and notifying personnel when conditions require attention.

MANUAL WORKFLOW

AUTOMATED WORKFLOW

Download or copy monitor data

Data streams continuously to the cloud.

Manually determine upwind and downwind monitors

Software assigns monitors based on wind direction and site configuration.

Build rolling average formulas in spreadsheets

Software calculates rolling averages continuously.

Check for exceedances after the fact

SMS and email alerts notify the team in near real time.

Prepare daily reports manually

Reports are generated automatically using consistent templates.

Archive files locally

Data and reports are stored in a secure cloud record.



04 PM₁₀ Monitoring Technology

The quality of a Rule 1466 monitoring program depends heavily on the quality and reliability of the PM₁₀ monitoring technology. Monitoring equipment must operate outdoors, collect frequent data, withstand construction conditions, maintain stable flow, limit humidity artifacts, and preserve data during interruptions.

How Optical PM₁₀ Monitors Work

Most modern Rule 1466 monitoring systems use optical particle measurement technology. Ambient air is drawn through an inlet and into a measurement chamber. As particles pass through a light source, they scatter light. The instrument processes the scattered light signal to estimate particle size and concentration, reporting PM₁₀ in micrograms per cubic meter.

Optical systems are well suited to near real-time construction and remediation monitoring because they can provide frequent updates, support unattended operation, and capture short-term changes in dust conditions that periodic sampling would miss.

Heated Inlets

A heated inlet is a critical feature for many outdoor PM₁₀ applications. In coastal, humid, foggy, or rapidly changing conditions, moisture can affect optical particulate measurements by increasing apparent particle size or creating false high readings. A heated inlet helps reduce excess moisture before the sample reaches the measurement chamber, improving stability and confidence in the data.

Active Flow Control

Consistent airflow is essential for reliable particulate monitoring. Active flow control maintains a stable sampling rate as environmental conditions change or filters load over time. Without stable flow, measurements may become less comparable across monitors or less representative of actual ambient conditions.

Automatic Zero Checks

Automatic zero checks direct filtered, particle-free air into the measurement chamber to verify instrument stability. This can reduce manual maintenance, support quality assurance records, and help identify issues before they affect project data.

Internal Data Logging and Cloud Connectivity

Internal data logging protects against data loss during communications interruptions. Cloud connectivity allows authorized users to view live data, check instrument status, review trends, configure alerts, and access reports remotely. The strongest monitoring programs use both: local data protection at the instrument and centralized cloud storage for project management.

FEATURE	WHY IT MATTERS FOR RULE 1466
Executive Officer approval	Confirms suitability for use under the rule and simplifies equipment selection.
Heated inlet	Reduces humidity-related measurement artifacts.
Active flow control	Maintains consistent sampling conditions.

FEATURE	WHY IT MATTERS FOR RULE 1466
Automatic zero check	Supports daily QA/QC and detects drift.
One-minute data logging	Supports current Rule 1466 data acquisition and rolling-average calculations.
Internal memory	Protects data during communications interruptions.
Cloud dashboard	Improves visibility, response time, and stakeholder communication.
Remote diagnostics	Reduces unnecessary site visits and speeds troubleshooting.

05 Selecting the Right Rule 1466 Monitoring System

Selecting a monitoring system should be based on the entire compliance workflow, not just the PM₁₀ measurement specification. A field-ready Rule 1466 system includes PM₁₀ monitors, meteorological sensors, power, communications, software, alerts, reporting, QA/QC procedures, field mounting, and technical support.

Planning Questions

- ▶ How many active work areas will operate at the same time?
- ▶ Where are the property lines, sensitive receptors, and likely dust exit pathways?
- ▶ What are the seasonal prevailing wind directions and expected daily wind shifts?
- ▶ Will monitors remain fixed, or will they need to move as work progresses?
- ▶ Is cellular coverage reliable at all monitoring locations?
- ▶ Is AC power available, or are battery and solar systems required?
- ▶ What reporting frequency does the project require?
- ▶ Who receives alerts, and who has authority to direct corrective actions?
- ▶ Will the equipment be used for one project or many future projects?

Executive Officer Pre-Approved [Systems](#)

One of the first equipment decisions is whether the PM₁₀ monitor is approved for Rule 1466 use. Executive Officer pre-approved systems have been evaluated for the application and are recognized by

South Coast AQMD. Using approved equipment reduces uncertainty during project planning and supports confidence that the monitoring system is appropriate for compliance documentation.

Complete System Checklist

COMPONENT	QUESTIONS TO CONFIRM BEFORE MOBILIZATION
PM₁₀ monitors	Approved system? Identical configuration? Heated inlet on? Maintenance current?
Wind sensor/weather station	Correct siting? NIST traceability? Logging every minute? Calibration current?
Power	Battery capacity? Solar sizing? AC backup? Voltage monitoring?
Communications	Cellular signal confirmed? External antennas needed? Local data logging enabled?
Software	Site map configured? Monitor assignment method confirmed? Alert thresholds set?
Reporting	Daily reports scheduled? Required recipients added? CSV export available?
QA/QC	Zero checks, precision checks, calibration records, and maintenance plan in place?
Field support	Technician trained? Escalation contacts identified? Dust control supervisor listed?

06 Aeroqual Monitoring Options for Rule 1466

Specto Technology supplies Aeroqual monitoring systems that support Rule 1466 monitoring workflows. The Dust Sentry and AQS 1 both provide strong PM₁₀ monitoring capability, but they are best suited to different project needs.

Aeroqual Dust Sentry

The Aeroqual Dust Sentry is a dedicated outdoor particulate monitoring system commonly used for Rule 1466 projects. It is well suited for projects where PM₁₀ monitoring is the primary requirement and the project team needs a rugged, field-ready monitor with cloud connectivity and reliable unattended operation.

DUST SENTRY CAPABILITY	PROJECT BENEFIT
Executive Officer pre-approved PM₁₀ monitoring	Supports Rule 1466 compliance planning.
Continuous outdoor operation	Suitable for active remediation, redevelopment, and infrastructure projects.
Heated inlet and stable sampling design	Improves data quality in humid or variable field conditions.
Cloud connectivity and data logging	Supports live dashboards, alerts, and data backup.
Field-ready rental configurations	Reduces setup time and mobilization risk.

Aeroqual AQS 1

The Aeroqual AQS 1 is a more flexible multi-parameter monitoring platform. It is suitable for organizations that need Rule 1466 PM₁₀ monitoring plus additional particulate fractions, optional gas measurements, weather integration, or a platform that can be used across several types of environmental monitoring projects.

AQS 1 CAPABILITY	PROJECT BENEFIT
PM1, PM2.5, PM4, PM10, and TSP capability	Useful when projects require broader particulate characterization.
Optional gas and environmental sensor integration	Supports multi-parameter monitoring programs beyond Rule 1466.
Heated inlet, flow control, and diagnostics	Improves measurement stability and reduces maintenance burden.
Cloud software compatibility	Supports remote data access, alerts, and automated reporting.
Expandable platform	Useful for firms managing varied environmental monitoring programs.

Choosing Between Dust Sentry and AQS 1

PROJECT NEED	RECOMMENDED DIRECTION
Dedicated Rule 1466 PM ₁₀ monitoring with straightforward deployment	Dust Sentry.
Short-term rental project with limited scope	Dust Sentry rental package.
Multiple particulate fractions or future monitoring flexibility	AQS 1.
PM ₁₀ plus gases, weather, or broader environmental monitoring	AQS 1.
Large program with varied monitoring needs across multiple project types	Evaluate a mixed fleet of Dust Sentry and AQS 1 systems.

07 Meteorological Monitoring and Monitor Assignment

Meteorological monitoring is essential because wind direction determines upwind and downwind monitor designation, and wind speed influences dust transport potential. Without reliable wind data, site contribution calculations are harder to defend.

Wind Sensor Requirements and Siting

Rule 1466 requires wind direction and wind speed monitoring using at least one stationary anemometer or wind sensor. The sensor should be sited over open, level terrain within the project site with minimal obstructions to wind flow and at a minimum height of eight feet above grade. It must log wind direction and speed data once every minute or less and archive the date and time.

PARAMETER	REASON IT MATTERS
Wind direction	Determines upwind and downwind monitor assignment and supports site contribution calculations.
Wind speed	Indicates dust transport potential and supports operational decisions.
Temperature and relative humidity	Useful for interpreting monitoring data and documenting field conditions.
Time synchronization	Allows wind data and PM ₁₀ data to be aligned for calculations and reports.

Practical Siting Considerations

- ▶ Avoid placing wind sensors immediately next to buildings, walls, stockpiles, heavy equipment, or temporary structures that distort airflow.
- ▶ Place PM₁₀ inlets where they are representative of perimeter conditions and not dominated by isolated sources such as a generator exhaust or localized vehicle movement unless that location is intentionally being monitored.
- ▶ Confirm monitor coordinates and wind sensor orientation before the first day of earth-moving activity.
- ▶ Document monitor locations with photographs, site maps, and deployment notes.
- ▶ Review wind rose plots and daily wind patterns to understand whether the monitoring network remains representative as work progresses.

Specto tip: Automated monitor assignment is only as strong as the site setup. Before mobilization, confirm the site map, monitor locations, weather station location, and software logic so alerts and reports reflect the approved monitoring approach.

08 Data Quality, QA/QC, and Calibration

Defensible Rule 1466 records require more than continuous data. The project team must show that instruments were operating correctly, maintained appropriately, and checked according to the rule, manufacturer instructions, and project-specific requirements.

Core QA/QC Activities

QA/QC ACTIVITY	PURPOSE
Daily zero check	Confirms each PM ₁₀ monitor reads within the required clean-air range before work.
Intra-instrument precision test	Demonstrates agreement among monitors used for the project.
Calibration and maintenance review	Confirms instruments are maintained according to manufacturer instructions.

QA/QC ACTIVITY	PURPOSE
Heated inlet verification	Confirms the system is configured as required and reduces humidity effects.
Flow and filter checks	Maintains stable sampling conditions and prevents avoidable data quality issues.
Remote diagnostics review	Identifies sensor, power, communications, or system status issues early.
Data completeness review	Confirms the project has a continuous record and explains any gaps.

Data Gaps and Technical Issues

Communications interruptions, DAS issues, power loss, or instrument faults should be addressed promptly and documented clearly. A robust monitoring system should store data locally during communications interruptions and transmit it when the connection is restored. The field team should also understand the project-specific contingency procedure for manually recording data or temporarily adjusting operations if the automated data system is unavailable.

Quality Assurance Records

- ▶ Monitor make, model, serial number, settings, and configuration.
- ▶ Calibration certificates and maintenance records.
- ▶ Daily zero check results and precision check results.
- ▶ Field inspection logs and photographs.
- ▶ Data completeness summaries and explanations for gaps.
- ▶ Corrective maintenance notes and troubleshooting actions.
- ▶ Documentation of any monitor relocations or configuration changes.

09 Cloud Software, Alerts, and Automated Reporting

Rule 1466 creates a data management challenge. PM₁₀ data, wind data, monitor assignment, rolling averages, alerts, corrective actions, and reports must all align. Cloud software reduces the administrative burden and helps project teams make decisions during active work rather than after the day is over.

Automated Site Contribution Software

Aeroqual site contribution software can automatically identify upwind and downwind monitors, calculate site contribution, apply rolling averages, display live compliance status, send alerts, and generate reports. This reduces reliance on spreadsheets and improves consistency across projects.

SOFTWARE FUNCTION	COMPLIANCE VALUE
Live dashboard	Allows project teams to see current PM ₁₀ , wind, and site contribution status.
Automatic monitor assignment	Reduces manual errors when wind direction changes.
Rolling average calculations	Applies consistent calculation logic across the monitoring period.
SMS and email alerts	Notifies responsible personnel when conditions require response.
Automated PDF reports	Improves daily documentation and reduces report preparation time.
CSV exports	Supports additional analysis, client deliverables, and regulatory review.
Secure cloud archive	Maintains historical records for future reference.

Alert Configuration

Alerts should be configured before the equipment arrives on site. Recipients should include personnel who can interpret the alert and personnel with authority to direct immediate field response. Alerts should be tested before earth-moving begins to confirm phone numbers, email addresses, escalation procedures, and notification timing.

ALERT TYPE	TYPICAL RECIPIENTS
Elevated PM₁₀ or site contribution	Dust control supervisor, field manager, environmental consultant, project manager.
High wind condition	Field manager, dust control supervisor, construction manager.
Power interruption or low battery	Monitoring technician, project manager, equipment support.
Communications loss	Monitoring technician, project manager, technical support.
Instrument diagnostic issue	Monitoring technician, equipment support, environmental consultant.

Daily Reports

Automated reports should summarize the monitoring period in a format that supports field management and regulatory review. A strong daily report includes PM₁₀ data, wind data, site contribution, rolling averages, alerts, data completeness, equipment status, QA/QC checks, exceedances, and corrective actions. The report should be reviewed before distribution to confirm that field notes and corrective actions are complete.

10 The Specto Difference for Rule 1466 Monitoring

Specto Technology provides field-ready Rule 1466 monitoring systems and technical support for environmental consultants, remediation contractors, engineering firms, industrial facility owners, and public agencies. The value is not just the monitor; it is the coordinated workflow of equipment, software, power, communications, deployment, reporting, QA/QC, and support.

Field-Ready Rental and Purchase Systems

Specto can provide rental or purchase systems depending on project duration, frequency of use, budget, and internal capabilities. Rental systems are suited to short-term remediation, emergency response, utility projects, and occasional Rule 1466 work. Purchased systems are suited to organizations that manage frequent projects or want immediate access to monitoring equipment for future work. In either case, the system should be configured around the project requirements before mobilization.

PROJECT CHALLENGE

SPECTO TECHNOLOGY SOLUTION

Selecting the right monitoring configuration

Project-ready guidance from air monitoring specialists familiar with remediation and Rule 1466 workflows.

Fast mobilization and setup

Field-ready packages with monitor, tripod, power, communications, and dashboard setup before shipment.

Manual calculations

Automated site contribution software and rolling average calculations.

Reporting workload

Automated PDF reports and CSV exports.

Data access for multiple stakeholders

Secure cloud dashboards and user account configuration.

PROJECT CHALLENGE**SPECTO TECHNOLOGY SOLUTION**

Equipment downtime

Remote diagnostics, technical onboarding, and troubleshooting support.

Power limitations

Battery, solar, and AC configurations matched to project requirements.

What Specto Configures Before Shipment

- ▶ Project dashboard and monitoring locations.
- ▶ User accounts and access permissions.
- ▶ SMS and email alert recipients.
- ▶ Report templates and delivery schedules.
- ▶ Monitor communications and remote data access.
- ▶ Battery or solar configuration where required.
- ▶ Technical onboarding information for the project team.

Support During the Project

During the monitoring period, Specto can support troubleshooting, remote diagnostics, dashboard questions, reporting configuration, and general equipment operation. This helps project teams reduce downtime, respond faster to issues, and maintain a more complete monitoring record.

The Specto Difference in Practice

Rule 1466 compliance is not only a PM₁₀ monitor problem. It is a full monitoring workflow: site contribution, wind data, QA/QC, alerting, reporting, documentation, and field response. Specto helps project teams manage that workflow with field-ready systems, project-ready configuration, cloud software, power options, and technical support.

11 Specto Technology Field Deployment Solutions for South Coast AQMD Rule 1466 Air Monitoring Systems

Successful Rule 1466 air monitoring requires more than accurate instrumentation. Reliable compliance depends on field-ready deployment systems that support continuous operation, rapid installation, dependable power, and secure equipment mounting under a wide range of environmental conditions.

To support Aeroqual air monitoring systems used for South Coast AQMD Rule 1466 compliance, Spectro Technology provides integrated deployment accessories, portable and solar power solutions, weather monitoring equipment, and mounting systems designed specifically for remediation, construction, excavation, redevelopment, and other earth-moving projects.

These solutions help ensure monitoring systems can be deployed quickly, operate reliably, and continuously collect defensible PM₁₀ monitoring data throughout the duration of a project.



Integrated Deployment Accessories

Field-Ready Monitoring Kits

Specto Technology provides Aeroqual Field-Ready Kits designed for immediate deployment of Rule 1466 air monitoring systems. Each kit is pre-configured and shipped ready for field operation and typically includes an Aeroqual Dust Sentry or AQS 1 Air Monitoring System, portable tripod or fence mount, battery or solar power system (multiple configurations available), weather station, and field service kit with calibration gases*.

* A standard PM-only Rule 1466 field kit would not ordinarily need calibration gases. Qualify this as applying only when gas modules are included for separate monitoring requirements.

Two configurations are available depending on project logistics:

CONFIGURATION	DESCRIPTION
Compact Kit	A lightweight, modular configuration designed for projects requiring frequent relocation of monitoring equipment. The battery pack is transported separately to reduce weight and simplify transport.
Integrated Kit	A single rugged protective case housing the monitor, tripod, battery pack, and accessories. This configuration is well suited for long-distance shipping or international deployments where maximum protection and simplified logistics are required.

These kits allow monitoring teams to begin collecting Rule 1466 defensible air quality data immediately upon arrival at the site.



Power Solutions

Portable Battery Power Solutions

Continuous Rule 1466 air monitoring often requires reliable off-grid power. Specto provides a range of lithium-ion battery systems designed to support Aeroqual monitoring equipment during temporary deployments.

SYSTEM	CAPACITY	TYPICAL RUNTIME*
Mini Powermate	30 Ah Lithium-Ion	~15 hours
Midi Powermate	50 Ah Lithium-Ion	~28 hours
Maxi Powermate	100 Ah Lithium-Ion	~50 hours
Ultra Powermate	Dual 110 Ah Battery Enclosure	~100 hours

**Runtime depends on instrument configuration, weather conditions, and communications requirements.*

These rugged battery systems provide reliable portable power for monitoring locations where grid electricity is unavailable or impractical.

Specto Power – Battery Options

Battery Options

Mini Powermate



Midi Powermate



Maxi Powermate



Ultra Powermate



BENEFITS

- ▶ Weatherproof durable case with handles
- ▶ Plug directly into wall for fast rapid recharge
- ▶ Battery voltage monitoring in Cloud
- ▶ LiFePO4 Batteries are lightweight and durable
- ▶ Standardized weatherproof quick connections
- ▶ Custom battery sizes for any project requirement
- ▶ Batteries pre-installed for ease of use

Solar Power Kits for Extended Monitoring

For deployments where grid power is unavailable, Specto provides integrated solar power kits designed to support continuous operation of Aeroqual monitoring systems.

CONFIGURATION	DESCRIPTION
Ground-Mounted Solar Kit	A portable solar configuration designed for temporary monitoring sites. The system includes solar panels paired with the Specto Ultra Powermate battery enclosure, along with weatherproof cables and quick-connect Cnlinko and MC4 connectors for fast installation. Each system is fully tested prior to shipment and designed for secure pallet transport.
Pole-Mounted Solar Kit	For more permanent installations, Specto offers a pole-mounted solar configuration with a lockable aluminum battery enclosure and solar panels designed to mount on standard 2-inch poles. Multiple battery enclosure options are available to support extended runtimes, with optional remote solar power diagnostics.

Both configurations feature a modular design that can be expanded to meet the runtime and power requirements of specific monitoring projects.

Solar Panels with Anti-Shade Technology

With lower sun angles in winter, shading of solar panels is a more likely occurrence. Specto Technology now provides anti-shading N-Type panels to improve efficiency in low light or partially shaded conditions.



Battery Protection for Cold Weather

Cold temperatures can significantly reduce battery performance and lifespan. Specto Technology's winterized power configurations support insulated systems, self-heating LiFePO4 and cold weather AGM batteries (-40 °C) to maintain stable battery temperatures and prevent cold-related capacity loss.

Programmable External Timer

The Specto Technology External Timer is a programmable device used to manage power supply to monitoring equipment.

Key benefits include:

- ▶ Reduced battery consumption during non-operational periods
- ▶ Automated monitoring schedules
- ▶ Manual override capability for immediate activation

The unit is housed in a weatherproof enclosure with IP67-rated connectors, making it suitable for outdoor monitoring environments.



Mounting Systems

Proper installation and secure placement of monitoring equipment are essential for obtaining representative PM₁₀ measurements.

Specto Technology offers both portable and fixed mounting options for Rule 1466 monitoring applications.



SYSTEM	DESCRIPTION
Aeroqual Fence Mount	A lightweight aluminum mounting system designed for attachment to fences or other structural supports commonly found along site boundaries. The mount provides approximately 30 inches of mounting space and can accommodate both the monitoring instrument and power supply.
Portable Tripod	A lightweight aluminum tripod used when fixed mounting points are unavailable. The tripod allows monitors to be quickly installed in open areas while maintaining recommended inlet heights for perimeter monitoring.

Integrated Meteorological Monitoring

Rule 1466 monitoring requires continuous measurement of wind speed and wind direction to determine upwind and downwind monitoring locations and support site contribution calculations.

Specto Technology integrates compact weather stations with Aeroqual monitoring systems to provide:

- ▶ Continuous wind speed monitoring
- ▶ Wind direction measurements
- ▶ Automatic cloud reporting
- ▶ Real-time dashboard display
- ▶ Support for automated upwind/downwind calculations

Integrated weather monitoring improves data interpretation and supports accurate Rule 1466 compliance reporting.



Noise and Vibration Monitoring Integration

In addition to air quality monitoring, Specto Technology can integrate noise and vibration monitoring systems alongside Aeroqual monitoring stations to support comprehensive environmental monitoring programs on construction and remediation sites. These systems allow project teams to track particulate matter, VOCs, noise levels, and vibration events simultaneously, providing a broader understanding of potential community impacts during site activities. Integrated monitoring can simplify site logistics, centralize data collection, and support environmental compliance and reporting requirements for complex infrastructure or remediation projects.

Complete Field-Ready Rule 1466 Monitoring Solutions

By combining Aeroqual air monitoring technology with Specto Technology's field deployment systems, project teams receive a complete, field-ready solution designed specifically for South Coast AQMD Rule 1466 monitoring.

From portable battery systems and solar power solutions to weather monitoring, secure mounting systems, cloud connectivity, and technical support, Specto Technology simplifies deployment while helping organizations collect reliable PM₁₀ monitoring data and maintain efficient Rule 1466 compliance throughout the life of the project.

12 Frequently Asked Questions

What is South Coast AQMD Rule 1466?

Rule 1466 establishes requirements for controlling particulate emissions from soils with applicable toxic air contaminants during earth-moving activities. It includes dust controls, PM₁₀ monitoring, meteorological monitoring, site contribution calculations, notifications, signage, and documentation.

Who must comply with Rule 1466?

Applicability depends on the site, soil volume, contaminants of concern, and designating agency. Projects involving earth-moving activities of soil with applicable toxic air contaminants within South Coast AQMD jurisdiction should be evaluated for Rule 1466 applicability.

How many monitors are required?

The basic monitoring network includes at least one upwind PM₁₀ monitor and one downwind PM₁₀ monitor, plus wind speed and wind direction monitoring. Additional monitors may be needed for larger or more complex sites.

Why are upwind and downwind monitors needed?

Upwind monitors measure background PM₁₀ entering the site. Downwind monitors measure PM₁₀ after air has passed over the work area. Comparing the two allows the team to calculate site contribution.

What is site contribution?

Site contribution is the difference between downwind and upwind PM₁₀ for the same averaging period. It represents the increase in PM₁₀ attributable to site activities after accounting for background concentrations.

What averaging period applies?

Current Rule 1466 calculations use a 120-minute rolling average, updated every minute after the initial period. If the PM₁₀ concentration exceeds 25 ug/m³, controls must be applied or earth-moving must cease until the concentration is equal to or less than 25 ug/m³ averaged over 30 minutes.

Why is wind direction so important?

Wind direction determines which monitor is upwind and which is downwind. When wind direction changes, monitor assignment and site contribution calculations may change.

Can monitoring be managed remotely?

Yes. Cloud-connected systems allow authorized users to view live PM₁₀ data, wind data, site contribution calculations, alerts, diagnostics, and reports from remote locations.

What happens when action levels are exceeded?

The project team should follow the approved monitoring and dust control plan. Typical responses include ceasing earth-moving, applying dust suppressant, implementing additional controls, investigating the source, documenting the action, and resuming work only when criteria are met.

Should I rent or purchase equipment?

Rental is usually best for short-term or occasional projects. Purchase is often better for organizations with frequent Rule 1466 work, long-term monitoring needs, or a business strategy built around monitoring services.

What does Specto provide?

Specto provides Executive Officer pre-approved monitoring systems, rental and purchase options, meteorological monitoring, power systems, cloud dashboards, automated site contribution software, automated reporting, field-ready deployment packages, and technical support.

13 References and Supporting Materials

This guidebook was developed using publicly available regulatory resources, manufacturer technical documentation, and Specto Technology experience supporting environmental monitoring projects. Follow the current submission instructions, supporting-document requirements, and fee information on [South Coast AQMD's Rule 1466 compliance page](#).

Regulatory Resources

- ▶ South Coast Air Quality Management District. Rule 1466 - Control of Particulate Emissions from Soils with Toxic Air Contaminants.
- ▶ South Coast AQMD Rule 1466 compliance resources and guidance.
- ▶ South Coast AQMD Executive Officer Pre-Approved Monitoring Systems for Rule 1466.
- ▶ South Coast AQMD Rule 403 - Fugitive Dust, where applicable as a related dust control reference.

Technical Resources

- ▶ Aeroqual Dust Sentry product documentation and maintenance guidance.
- ▶ Aeroqual AQS 1 product documentation and performance specifications.
- ▶ Aeroqual site contribution methodology and cloud software documentation.
- ▶ Specto Technology deployment guidance for Rule 1466 monitoring systems.

Copyright and brands: Specto Technology has permission to reproduce Aeroqual specification-sheet text, images, and trademarks

Recommended Appendices

APPENDIX	RECOMMENDED CONTENT
Appendix A	Aeroqual Dust Sentry and AQS 1 specification sheets.
Appendix B	Manufacturer maintenance and calibration guidance.
Appendix C	Aeroqual site contribution methodology.
Appendix D	Example SCAQMD Rule 1466 Air Monitoring Plan
Appendix F	Rule 1466 Report Simulated Example Data
Appendix G	South Coast Air Quality Management District (SCAQMD) adopted Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminants

Appendix A

Dust Sentry Specification Sheet



Near reference real-time particle monitor for simultaneous multi-fraction dust measurement.

Designed for environmental professionals who need to monitor and manage multiple outdoor dust and particle size fractions, simultaneously, in real-time. The Dust Sentry with PCX delivers simultaneous measurement of TSP, PM10, PM4, PM2.5, and PM1, and is MCERTS certified and South Coast AQMD Rule 1466 pre-approved for PM10.

The Dust Sentry with nephelometer measures one PM fraction, depending on the cyclone separator selected, and is also MCERTS certified and South Coast AQMD Rule 1466 pre-approved for PM10.

Benefits

- ▶ Set up and deploy in under 5 minutes — get live data flowing to your PC or mobile.
- ▶ Minimize downtime and failure with a purpose-built outdoor monitor.
- ▶ Eliminate flow checks with integrated flow sensing and automated control (PCX).
- ▶ Reduce site visits with two-way communications that allow you to calibrate, remotely troubleshoot, upgrade software, and change settings.
- ▶ Avoid invalid data caused by incorrect wind sensor orientation with an optional, fully integrated self-orientating met sensor.
- ▶ Power up with a quick and easy interface to solar and battery systems.
- ▶ Act swiftly before an exceedance occurs with real-time alerts.

Who Is It For?

- ▶ Industrial site operators managing dust and particulates within regulatory or permitted limits — construction and remediation projects, quarry and mine operators, port and bulk handling terminals, waste management sites.
- ▶ Environmental consultants who want defensible data without the usual time and hassle of air monitoring projects.
- ▶ Regulatory authorities who need to fill gaps in the regulatory PM monitoring network.
- ▶ EHS managers who need to demonstrate that they are providing a safe environment for the people in their care.

What can it measure? Specific dust fractions, wind, weather, and noise.

System Specifications

SPEC	DETAIL
Control system	Embedded PC with on-board data storage (> 5 years)
Communications	Standard: WiFi, Ethernet (LAN). Optional modem: Cellular IP 4G LTE with integrated high-gain antenna.
Averaging period	User-selectable averaging interval from 1 min to 24 hr
Power requirements	100–260 VAC or 9–36 VDC battery/solar; 15–30 W max steady state (configuration dependent)
Enclosure	Lockable IP65 GRP cabinet with integrated aluminum solar shield armor, mounting bracket, and (PCX) built-in temp/RH sensor
Dimensions (PCX)	685 × 330 × 187 mm (27" × 13" × 7 ³ / ₈ ") H×W×D, includes PM inlet
Dimensions (Nephelometer)	843 × 330 × 187 mm (33" × 13" × 7 ¹ / ₂ ") H×W×D, includes PM inlet
Weight	< 13 kg (28.6 lbs)
Operating range	-10°C to +45°C (14°F to 113°F); extendable with winterization pack
Mounting	Pole, tripod, and wall mounting brackets included; optional tripod mount available
Factory integrated sensors	Gill WindSonic, Vaisala WXT536, Cirrus MK427 Class 1, Novalynx Pyranometer, Airmar 200WX (optional)

SPEC	DETAIL
Inputs / Outputs	0–5V analog input, 4–20mA input, configurable relay output (optional PDI Core upgrade)

Particle Module Specifications

MODULE	FRACTIONS	RANGE	RESOLUTION	LDL (2 Σ)	PRECISION	ACCURACY
PCX	PM1, PM2.5, PM4, PM10, TSP	0–30,000 $\mu\text{g}/\text{m}^3$	0.1 $\mu\text{g}/\text{m}^3$	0.1 $\mu\text{g}/\text{m}^3$	$\pm 3\%$ of reading	$< 5\%$ of reading
Nephelometer	PM1, PM2.5, PM10, or TSP	0–60,000 $\mu\text{g}/\text{m}^3$	0.1 $\mu\text{g}/\text{m}^3$	$< 1 \mu\text{g}/\text{m}^3$	$\pm 1\%$ of reading	$\pm (2 \mu\text{g}/\text{m}^3 + 5\%)$

PM System Specifications & Compliance

SYSTEM	DETAIL
Inlet	Omni-directional sample inlet with integrated heater
Sample flow	12V brushless DC diaphragm with automated flow measurement and control system (PCX)
Optics	PCX: 650 nm industrial laser, hemispherical-focusing OPC. Nephelometer: 670 nm laser, near-forward scattering.
Zero calibration	Auto-zero on start-up and at user-selected intervals
Compliance	EC Directives 2014/30/EU and 2014/35/EU; FCC 47 CFR Part 15; RoHS 3 (EU2015/863); REACH
Certified modules	Dust Sentry PM ₁₀ Nephelometer: MCERTS (Sira MC130235/02), South Coast AQMD Rule 1466. Dust Sentry PCX: MCERTS for PM10, South Coast AQMD Rule 1466.

Specifications / Dust Sentry · MRK-D-0517. Contact Aeroqual for full technical performance details.

AQS 1 Specification Sheet



Near reference real-time monitor for particulates plus O₃ / NO₂ / CO / SO₂ / H₂S / CH₄ / VOC.

Designed for environmental professionals who need to monitor and manage specific outdoor dust, particulates, and gases continuously, in real-time. The AQS 1 delivers affordable and defensible measurement of PM₁, PM_{2.5}, PM₄, PM₁₀, TSP, and up to three gases — O₃, NO₂, CO, SO₂, H₂S, CH₄, and VOC — all simultaneously.

The AQS 1 PM₁₀ is MCERTS certified and South Coast AQMD Rule 1466 pre-approved.

Benefits

- ▶ Minimize downtime and failure with a purpose-built outdoor monitor.
- ▶ Reduce site visits with filter change notifications and two-way communications that allow you to calibrate, remotely troubleshoot, upgrade software, and change settings.
- ▶ Eliminate flow checks with integrated flow sensing and automated control (PCX).
- ▶ Avoid invalid data caused by incorrect wind sensor orientation with the self-orienting met sensor.
- ▶ Act swiftly before an exceedance occurs with real-time alerts.
- ▶ Industry-leading gas sensing technology from Aeroqual comes fully integrated in the same compact format.

Who Is It For?

- ▶ Industrial site operators managing dust and gas emissions within regulatory or permitted limits — construction and remediation, oil and gas facilities, quarry and mine operators, port and bulk handling terminals, landfills and wastewater treatment plants.

- ▶ Environmental consultants who want defensible data without the usual time and hassle of air monitoring projects.
- ▶ Regulatory authorities who need to fill gaps in the regulatory air quality monitoring network.
- ▶ EHS managers who need to demonstrate that they are providing a safe environment for the people in their care.
- ▶ Researchers who want accurate, scientifically robust data without the cost of a reference monitor.

What can it measure? Specific dust fractions, gases, wind, weather, noise, and location.

Base System Specifications

SPEC	DETAIL
Control system	Embedded PC with on-board data storage (> 5 years)
Communications	Standard: WiFi, Ethernet (LAN). Optional modem: Cellular IP 4G LTE with integrated high-gain antenna.
Averaging period	User-selectable averaging interval from 1 min to 24 hr
Power requirements	100–260 VAC or 9–36 VDC battery/solar; 15–30 W max steady state (configuration dependent)
Enclosure	Lockable IP65 GRP cabinet with integrated aluminum solar shield armor, built-in temp/RH sensor (PCX)
Dimensions	685 × 330 × 187 mm (27" × 13" × 7 ³ / ₈ "), includes PM inlet
Weight	< 13 kg (28.6 lbs)
Operating range	-10°C to +45°C (14°F to 113°F); extendable with winterization pack
Mounting	Pole, tripod, and wall mounting brackets included
Factory integrated sensors	Gill WindSonic, Vaisala WXT536, Cirrus MK427 Class 1, Novalynx Pyranometer, Airmar 200WX (optional)
Inputs / Outputs	0–5V analog input, 4–20mA input, configurable relay output (optional PDI Core upgrade)

Particle Module Specifications

MODULE	SIZES	RANGE	RESOLUTION	LDL (2 Σ)	PRECISION	ACCURACY
PCX	PM1, PM2.5, PM4, PM10, TSP	0–30,000 $\mu\text{g}/\text{m}^3$	0.1 $\mu\text{g}/\text{m}^3$	0.1 $\mu\text{g}/\text{m}^3$	$\pm 3\%$ of reading	$< 5\%$ of reading
Nephelometer	PM1, PM2.5, PM10, or TSP	0–60,000 $\mu\text{g}/\text{m}^3$	0.1 $\mu\text{g}/\text{m}^3$	$< 1 \mu\text{g}/\text{m}^3$	$\pm 1\%$ of reading	$\pm (2 \mu\text{g}/\text{m}^3 + 5\%)$

Gas Module Specifications

GAS	RANGE	RESOLUTION	LDL (2 Σ)	PRECISION	LINEARITY	DRIFT (24 HR)
Ozone (O3)	0–500 ppb	0.1 ppb	< 1 ppb	2% of reading or 2 ppb	1%	1 ppb; 0.2%
Nitrogen Dioxide (NO2)	0–500 ppb	0.1 ppb	< 1 ppb	2% of reading or 2 ppb	1.5%	1 ppb; 0.2%
Carbon Monoxide (CO)	0–25 ppm	0.001 ppm	0.04 ppm	3% of reading or 0.05 ppm	1%	0.14 ppm; 2%
VOC (low range)	0–500 ppb	0.1 ppb	< 1 ppb	2% of reading or 1 ppb	1%	1 ppb; 1%
VOC (high range)	0–30 ppm	0.01 ppm	< 0.1 ppm	2% of reading or 0.05 ppm	2%	0.1 ppm; 1%
Hydrogen Sulfide (H2S)	0–5,000 ppb	0.1 ppb	2 ppb	1% of reading or 3 ppb	0.5%	< 1 ppb; $< 0.5\%$
Sulfur Dioxide (SO2)	0–10,000 ppb	0.1 ppb	2 ppb	0.14% of reading or 2 ppb	0.6%	1 ppb; 0.3%
Methane (CH4)	0–500 ppm	0.01 ppm	0.04 ppm	0.4% of reading or 0.06 ppm	$< 1\%$	0.04 ppm; 1%

System Specifications & Compliance

SYSTEM	DETAIL
PM inlet / pump	Omni-directional sample inlet with integrated heater; long-life 12V brushless DC diaphragm pump with automated flow measurement and control (PCX)
PM optics	PCX: 650 nm industrial laser, hemispherical-focusing OPC. Nephelometer: 670 nm laser, near-forward scattering.
Gas inlet / pump	Inert glass-coated stainless steel and Teflon sample inlet; long-life 12V brushless DC diaphragm pump
Gas module technology	Automatic Baseline Correction (ABC) minimizes sensor baseline drift
Compliance	EC Directives 2014/30/EU and 2014/35/EU; FCC 47 CFR Part 15; RoHS 3 (EU2015/863); REACH
Certified modules	AQS 1 PM ₁₀ Nephelometer: MCERTS (Sira MC210385/00), South Coast AQMD Rule 1466. AQS 1 PCX: MCERTS for PM10, South Coast AQMD Rule 1466.

Specifications / AQS 1 · MRK-D-0500. Contact Aeroqual for full technical performance details.

Appendix B

Manufacturer's Guidelines — Aeroqual AQS 1 Scheduled Maintenance

The service frequencies below should be considered conservative. Monitor operators are encouraged to develop a service schedule suitable for their local conditions and data quality objectives.

SERVICE ACTIVITY	SECTION	SERVICE FREQUENCY
Gas inlet filter change	6.5.2	4-12 weeks. Initially 4 weeks; later modify to suit local conditions and data quality objectives
PM inlet filter change	6.3.3	4-12 weeks. Initially 4 weeks; later modify to suit local conditions and data quality objectives
Gas inlet flow check	6.5.3	4-12 weeks. Initially 4 weeks; later modify to suit local conditions and data quality objectives
PM inlet flow check	6.3.4	Every 12 months (1 year)
Gas inlet flow adjustment	6.5.6	Adjust as required following gas inlet flow check
PM inlet flow adjustment	6.3.4	Adjust as required following PM inlet flow check
PM leak check	6.3.5	Every 3 months (Quarterly)
PM zero calibration check	6.3.6	Every 3 months (Quarterly)
PM zero calibration flow check	6.3.6	Every 3 months (Quarterly)
PM inlet cleaning	6.3.7	Every 6 months (Half-yearly)
Factory calibration – Particle Profiler	7.2	Every 12 months (1 year)
Factory calibration – Particle Nephelometer	7.2	Every 24 months (2 year)
Factory calibration – PCX Module	7.2	Every 24 months (2 year)
Gas module calibration	5.1	See Section 7.1

Unscheduled Maintenance

SERVICE ACTIVITY	SECTION	SERVICE FREQUENCY
Measure flow rate of gas modules	6.5.3	As required following gas inlet flow check
Leak check a gas module	6.5.7	As required following module flow check
Add, remove, replace gas module	6.5.8	As required

Appendix C

Aeroqual Site Contribution Methodology

Algorithm Version 2

This document explains how site contribution methodologies are implemented within Aeroqual's OneView™ software.

1 Upwind/Downwind Logic

1.1 Example Scenarios

The following figures showcase different scenarios and outline how we choose which monitors are upwind and downwind, along with the corresponding site contribution calculation. The upwind and downwind monitors, along with the contribution, are calculated independently for each pollutant.

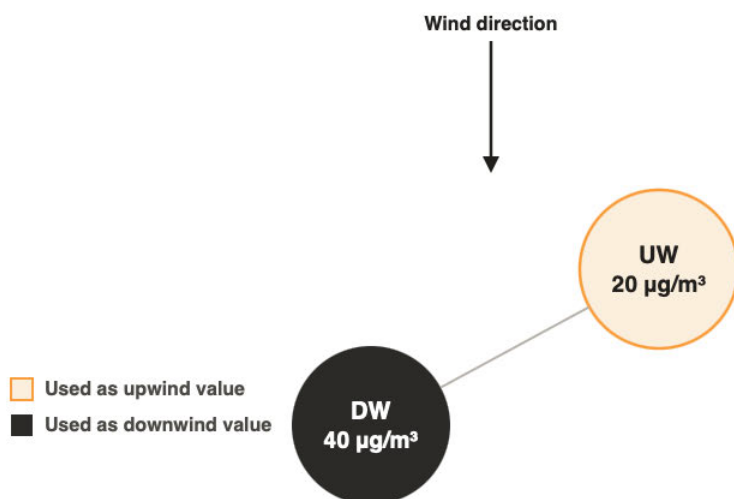


Figure 1. Two monitors in a line not perpendicular to wind direction

Figure 1. Two monitors in a line not perpendicular to wind direction

- **Upwind monitor(s):** The monitor that is closest to the source of the wind.
- **Downwind monitor(s):** The non-upwind monitor.
- **Contribution:** Downwind value minus the upwind value.
- **Justification:** Meets SCAQMD Rule 1466 and New York State DER-10 requirements.

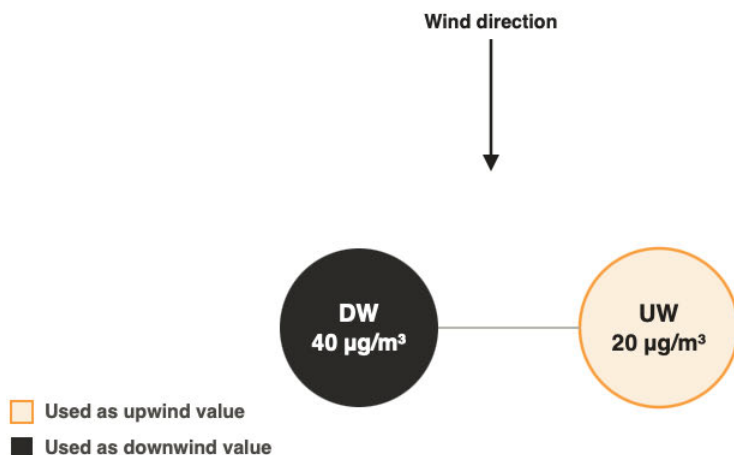


Figure 2. Two monitors in a line perpendicular to wind direction

Figure 2. Two monitors in a line perpendicular to wind direction.

- **Upwind monitor(s):** The monitor with the lowest reading.
- **Downwind monitor(s):** The non-upwind monitor.
- **Contribution:** Downwind value minus the upwind value.
- **Justification:** To provide the most conservative contribution value.

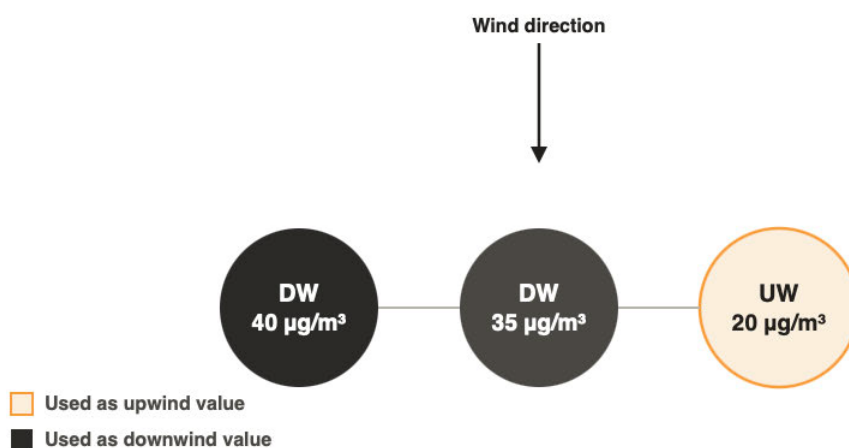


Figure 3. All monitors are in a line perpendicular to the wind direction

Figure 3. All monitors are in a line perpendicular to the wind direction.

- **Upwind monitor(s):** The monitor with the lowest reading.
- **Downwind monitor(s):** All non-upwind monitors.
- **Contribution:** Maximum downwind value minus the upwind value.
- **Justification:** To provide the most conservative contribution value.

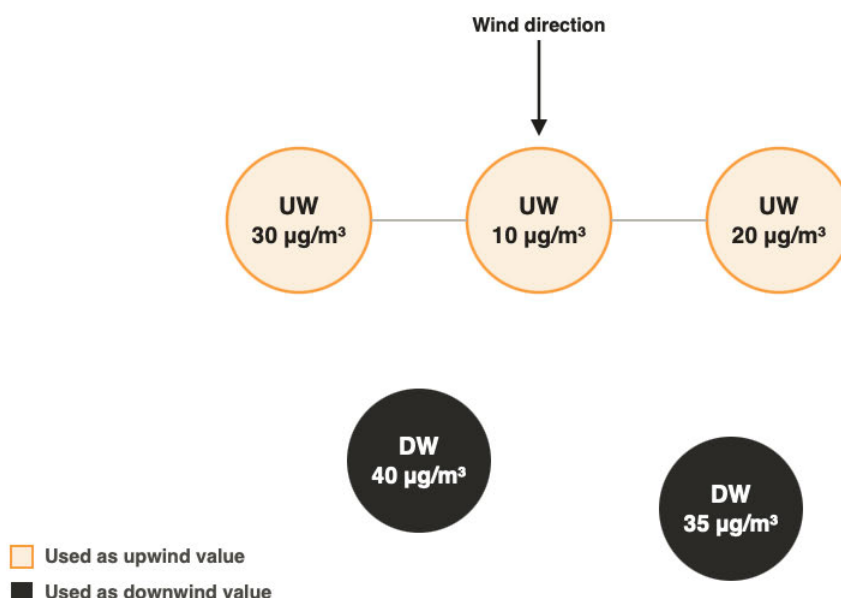


Figure 4. Two or more monitors are in a line perpendicular to wind direction

Figure 4. Two or more monitors are in a line perpendicular to wind direction.

- **Upwind monitor(s):** The average of the line of monitors nearest to the wind source.
- **Downwind monitor(s):** All non-upwind monitors.
- **Contribution:** Maximum downwind value minus the average upwind value.
- **Justification:** Meets SCAQMD Rule 1466 and New York State DER-10 requirements.

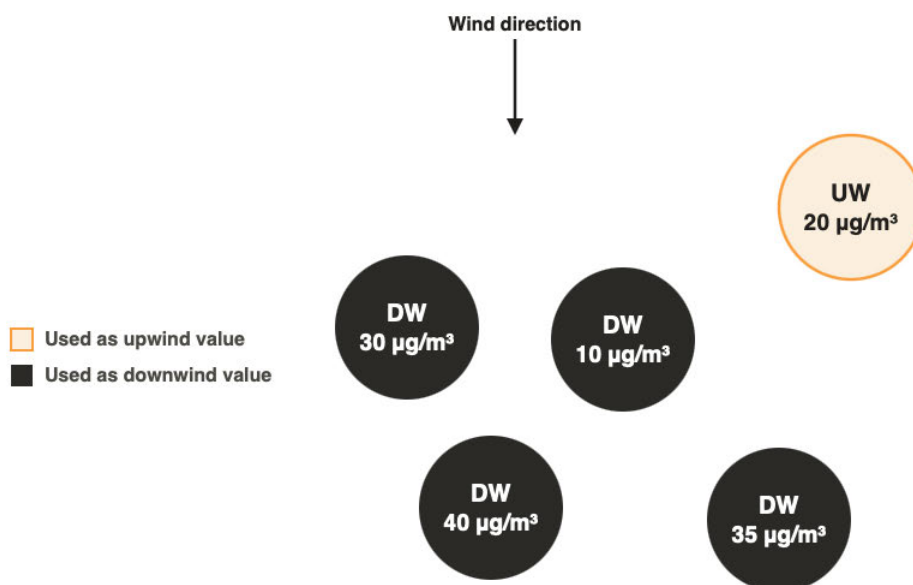


Figure 5. None of the monitors are in a line perpendicular to wind direction

Figure 5. None of the monitors are in a line perpendicular to wind direction.

- **Upwind monitor(s):** The monitor that is closest to the source of the wind.
- **Downwind monitor(s):** All non-upwind monitors.
- **Contribution:** Maximum downwind value minus the upwind value.
- **Justification:** Meets SCAQMD Rule 1466 and New York State DER-10 requirements.

1.2 Automated detection of wind data

If a user selects “Wind data auto-detection” when setting up a contribution, the algorithm will automatically select wind data from one of the monitoring locations listed in the contribution “Data sources”. It follows the alphabetical order of the monitoring location IDs. If the wind data from that specific source is unavailable for any reason, it will select the next monitoring location with wind data, in alphabetical order.

1.3 User defined wind data source

If a user selects the “Wind data source” while configuring a contribution, the algorithm will only use the wind data from this source for the calculation. If this data isn’t available, the contribution calculation will stop until wind data from that source is available again.

1.4 Wind speed

Wind speed is not considered when determining the upwind/downwind monitor(s).

1.5 Wind direction

Wind direction data is logged from instruments with a resolution of 0.1°. When presented in the user interface, the wind direction data is rounded to the nearest degree. The upwind/downwind monitor designation uses non-rounded data. A straight line between two monitors is considered perpendicular to the wind when it is at $90^{\circ} \pm 0.1^{\circ}$.

1.6 Pollutant averages

Pollutant averages are calculated as time ending by the contribution algorithm. If the instantaneous contribution cannot be calculated (e.g. no data is available), the algorithm will revert to the start of the initial averaging period once data is available again.

1.6.1 Pollutant initial average

The OneView™ software calculates an instantaneous contribution every minute, using data collected from the designated upwind and downwind monitors during that minute. When a contribution is first started, the OneView™ software reports the accumulative average every minute until the defined averaging period is reached and then the calculation becomes a rolling average (see 1.6.2). For example, in the first minute, the average represents a one-minute average. In the second minute, it becomes a two-minute average, and so on, until it reaches the averaging period that was defined when the contribution was created.

1.6.2 Pollutant rolling average

After the initial averaging period is complete, the software continually computes a rolling average, updating and reporting it every minute. The duration of this averaging period is defined when the contribution is created.

1.7 Wind averages

All wind averages calculated by the contribution algorithm are time ending. Average wind velocity is calculated as a vectorised average. If there is a gap in the data that exceeds the defined averaging period, the algorithm will revert to initial averaging. Otherwise, it disregards any missing data point(s).

1.7.1 Initial wind average

Behaves in the same way as the pollutant initial average (see 1.6.1).

1.7.2 Rolling wind average

Behaves in the same way as the pollutant rolling average (see 1.6.2).

2 Filters

2.1 Negative number filters

If the user selects negative number filtering when configuring a report, the negative number filters will only be applied to averaged contribution values after all other calculations have been completed. It will also affect contribution alerts triggered by the average contribution value.

3 Regulation Specific Variations

3.1 South Coast AQMD Rule 1466

3.1.1 Wind speed

For Rule 1466 contributions, the contribution will be stopped if the 15 minute rolling average windspeed exceeds 15 mph, or if the instantaneous wind speed exceeds 25 mph. It will automatically resume when the average wind speed drops below 15 mph or the instantaneous wind speed drops below 25 mph, reverting to the start of the initial averaging period.

3.1.2 Automated switching between averaging periods

If the calculated PM₁₀ concentration exceeds 25 µg/m³ over a rolling 2 hr average the averaging mode automatically changes to a 30 minute rolling average. The 30 minute rolling average is calculated and reported every minute. For time periods less than 30 minutes, the software reports the accumulative average every minute until the 30 minute period is reached and then the calculation becomes a rolling average. For example, at 5 mins the average value is the 5 minute average starting from the first valid data point after the exceedance occurred. When the 30 minute average drops below 25 µg/m³ the averaging reverts to the initial again.

3.2 New York DER-10

For DER-10 calculations, the contribution and wind rolling average period is fixed to 15 minutes. There is no change in averaging mode in the event of an exceedance.

3.3 New Jersey PAM

3.3.1 Contribution calculation

The algorithm follows the same approach for assigning upwind/downwind monitors as outlined in Section 1.1. However, it uses the vectorised average wind direction over a 15 minute averaging period to determine the upwind/downwind monitors. New Jersey PAM does not require a contribution (downwind – upwind) calculation.

3.3.2 Block average

The averaging methodology used in the charts, wind rose, data table, and the upwind-downwind calculation for New Jersey PAM reports differs from other contribution types. New Jersey PAM calculations utilize a time-ending block average over a 15 minute period. The average is reported at the next standard time interval past the hour. For example, if the first data point is recorded at 11:37 am, the first average data value would be reported at 11:45 am, then 12:00 pm, 12:15 pm, and so on.

This document is a technical reference adapted from Aeroqual OneView™ documentation (MRK-D-0220) for Specto Technology monitoring programs. Verify current OneView™ software behavior and applicable regulatory requirements before relying on this methodology for compliance reporting.

Appendix D

Example Rule 1466 Air Monitoring and Dust Control Plan

The following example plan is written for customer use. Replace bracketed text with project-specific information, update the monitor layout and notification details, and have the plan reviewed by the project environmental professional before use on an active project.

Example Plan: Rule 1466 PM₁₀ Air Monitoring and Dust Control Plan

1. Project information

ITEM	PROJECT-SPECIFIC INFORMATION
Project name	[Project name]
Project address	[Street address and coordinates if applicable]
Owner/operator	[Owner/operator name, phone, email]
Environmental consultant	[Consultant name, phone, email]
Remediation contractor	[Contractor name, phone, email]
Dust control supervisor	[Name, phone, email, certificate information]
Designating agency/project ID	[Agency and project number]
Applicable toxic air contaminants	[List contaminants identified for the site]
Estimated soil volume	[Estimated cubic yards]
Anticipated work dates	[Start date through completion date]

2. Purpose and objectives

This plan establishes procedures to minimize off-site fugitive dust emissions containing applicable toxic air contaminants during on-site earth-moving activities. The objectives are to:

- ▶ Conduct continuous direct-reading near real-time PM₁₀ monitoring during on-site earth-moving activities.
- ▶ Collect wind speed and wind direction data to support upwind/downwind designation and wind-related work stoppage decisions.
- ▶ Calculate PM₁₀ site contribution using upwind and downwind monitor data over the required averaging periods.
- ▶ Implement prompt dust control measures and work stoppage procedures when PM₁₀ or wind conditions trigger a response.
- ▶ Document monitoring results, QA/QC, dust controls, work stoppages, complaints, notifications, and agency-reportable events.

3. Scope of monitoring

PM₁₀ and wind monitoring will be conducted whenever on-site earth-moving activities involving soil with applicable toxic air contaminants are occurring. Earth-moving activities include excavation, grading, earth cutting and filling, loading, unloading, handling, treating, transferring, removing, adding to or removing from stockpiles, and vehicular movement of equipment associated with these activities.

This plan does not include VOC monitoring. Any VOC, odor, asbestos, benzene, or other air monitoring required by a separate rule, permit, agency direction, or contract requirement will be addressed separately or added as a project-specific supplement.

4. Monitoring equipment

EQUIPMENT	MINIMUM PROJECT REQUIREMENT
PM₁₀ monitors	Rule 1466 Approved PM ₁₀ Monitors or U.S. EPA-approved equivalent method monitors, identical in make/model/settings/configuration.
Heated inlet	PM ₁₀ monitors will be operated with heated sampler inlet on.
Data acquisition system	Logs PM ₁₀ date, time, and concentration every 1 minute or less.
Wind sensor/anemometer	Logs wind direction and speed every 1 minute or less and meets Rule 1466 performance criteria.
Cloud dashboard/data system	Calculates rolling site contribution averages, wind stoppage conditions, recovery averages, alerts, and reporting outputs.

EQUIPMENT	MINIMUM PROJECT REQUIREMENT
Communications	Cellular or other reliable connection to support real-time data access and alerts.
Power	AC, battery, solar, or hybrid power configured for the project schedule and site layout.

5. Monitor siting

- ▶ At least one PM₁₀ monitor will be placed in the seasonal prevailing wind direction upwind of the earth-moving activity area and will be representative of background PM₁₀ levels not generally influenced by site fugitive dust sources.
- ▶ At least one PM₁₀ monitor will be placed in the seasonal prevailing wind direction downwind of the earth-moving activity area.
- ▶ PM₁₀ monitors will be placed as close to the property line as feasible while maintaining safe access, power, security, and representative airflow.
- ▶ Where site geometry, obstructions, sensitive receptors, or multiple work areas make two monitors insufficient, additional downwind or crosswind monitors will be added.
- ▶ The wind sensor will be sited over open, level terrain within the project site with minimal obstructions to wind flow and at a minimum height of 8 feet above grade, unless otherwise approved or required.

6. Measurement and calculation methodology

- ▶ PM₁₀ and wind data will be logged every minute or less.
- ▶ PM₁₀ site contribution will equal downwind PM₁₀ minus upwind PM₁₀ for the same averaging period.
- ▶ If more than one upwind monitor is used, the upwind result will be the average of the upwind monitors for the same rolling average period.
- ▶ If more than one downwind monitor is used, the downwind result will be the maximum downwind monitor concentration for the same rolling average period.
- ▶ The primary compliance average will be the 120-minute rolling average. After the initial 120-minute period, the calculation will update every minute and cover the previous 120 minutes.

- ▶ If PM₁₀ site contribution exceeds 25 ug/m³, corrective action and/or work stoppage will be implemented. The restart criterion will be PM₁₀ contribution of 25 ug/m³ or less averaged over 30 minutes.
- ▶ Wind stoppage alerts will be generated when wind speed is greater than 15 mph averaged over 15 minutes or instantaneous wind speed exceeds 25 mph.

7. Response levels and corrective actions

TRIGGER	IMMEDIATE RESPONSE	DOCUMENTATION
PM₁₀ site contribution >25 ug/m³	Cease earth-moving activities, apply dust suppressant, and/or implement additional dust controls until PM ₁₀ contribution is ≤25 ug/m ³ averaged over 30 minutes.	Record PM ₁₀ data, wind data, monitor locations, activity causing dust, corrective actions, time stopped, and time resumed.
15-minute average wind speed >15 mph	Cease on-site earth-moving activities.	Record wind data, stopped activities, stabilization/covering actions, and restart time.
Instantaneous wind speed >25 mph	Cease on-site earth-moving activities.	Record wind data, stopped activities, stabilization/covering actions, and restart time.
Visible dust or uncontrolled dust source	Stop or modify the activity, apply water/suppressant, cover/stabilize material, repair controls, or adjust work method.	Record observation, location, corrective action, and confirmation that dust is controlled.
Monitor, power, or communications issue	Restore the system as soon as practicable, use manual readings/calculations when required, and document the downtime.	Record cause, affected equipment, manual data, repair action, and time restored.

8. Dust control measures

The following measures will be implemented as applicable to the work phase:

- ▶ Install and maintain perimeter fencing/windscreen before earth-moving activities begin, unless a Rule 1466 exemption or approved alternative applies.
- ▶ Adequately wet soil to the depth of earth-moving activity and allow time for penetration.

- ▶ Continue wetting at frequencies sufficient to prevent visible dust plumes.
- ▶ Post 15 mph speed limit signs at entrances and enforce speed limits on site.
- ▶ Stabilize traffic and parking areas by gravel, paving, chemical stabilizer, or dust suppressant.
- ▶ Use vehicle egress controls such as a gravel pad, paving, wheel shaker/spreader, or wheel wash as appropriate.
- ▶ Segregate, label, stabilize, and/or cover stockpiles containing soil with applicable toxic air contaminants.
- ▶ Apply suppressant before loading or unloading; empty buckets/trailers slowly; minimize drop height; maintain truck freeboard; cover trucks before leaving the site.
- ▶ Immediately remove spilled soil and inspect track-out controls throughout the workday.
- ▶ Stabilize or cover potential dust sources when active earth-moving is not occurring in that location.

9. QA/QC procedures

- ▶ Operate, maintain, and calibrate PM₁₀ monitors and wind sensors according to manufacturer instructions and applicable Rule 1466 requirements.
- ▶ Conduct weekly intra-instrument precision tests before work begins and weekly thereafter, unless acceptable third-party documentation is available.
- ▶ Conduct a passing zero check on each PM₁₀ monitor each day before on-site earth-moving activities.
- ▶ Confirm power, communications, dashboard access, data logging, and alert recipients before daily work begins.
- ▶ Review monitor status during the workday and respond promptly to offline, maintenance, or data quality alerts.
- ▶ Retain calibration, maintenance, zero check, precision test, filter change, and instrument log records.

10. Notifications, signage, and records

- ▶ The owner/operator or authorized designee will submit the required initial Rule 1466 notification and updates using South Coast AQMD-approved formats.
- ▶ If a PM₁₀ exceedance occurs, the owner/operator or authorized designee will electronically notify the Executive Officer within 72 hours using the approved format and include required PM10, wind, activity, location, and dust control information.

- ▶ Project signage will be installed and maintained at entrances and along the property line/perimeter as required by Rule 1466. The sign will include the required warning statement and contact information.
- ▶ Daily records will be maintained for at least 3 years and made available to the Executive Officer upon request.
- ▶ Records will include stockpile inspections, PM₁₀ and wind data, contribution calculations, monitor calibration/maintenance, zero checks, precision tests, DAS failures, activities and soil volumes, transportation records, complaints, and notifications.

11. Roles and responsibilities

ROLE	PRIMARY RESPONSIBILITIES
Owner/operator	Overall compliance responsibility; notification submittals; records retention; agency coordination.
Environmental consultant	Plan preparation, monitor layout, data review, QA/QC oversight, reporting support, technical interpretation.
Remediation contractor	Daily work execution, dust control implementation, work stoppage compliance, field coordination.
Dust control supervisor	On-site authority to implement dust controls, stop work, document controls, and coordinate response actions.
Monitoring technician	Monitor setup, daily checks, zero checks, maintenance, troubleshooting, data verification, dashboard review.
Project manager	Schedule coordination, communication with stakeholders, review of daily summary and exceedance response.

Dust control, signage, notifications, and records

Rule 1466 is not only a monitoring requirement. Monitoring shows whether dust controls are working, but the project still needs physical controls, trained field staff, required signage, notifications, and complete records.

Dust control measures to plan for

- ▶ Install and maintain perimeter fencing and windscreen before earth-moving starts, unless an exemption or approved alternative applies.
- ▶ Adequately wet soil to the depth of earth-moving activity and allow time for penetration before excavation, grading, loading, or handling.
- ▶ Continue wetting at frequencies that prevent visible dust plumes while avoiding uncontrolled runoff.
- ▶ Post and enforce 15 mph speed limit signs at entrances.
- ▶ Stabilize traffic and parking areas by gravel, paving, chemical stabilizer, or dust suppressant.
- ▶ Use vehicle egress controls such as gravel pads, paving, wheel shaker/spreader systems, or wheel washing systems.
- ▶ Prevent track-out and remove track-out at the required frequency using appropriate vacuum equipment.
- ▶ Segregate, label, stabilize, and/or cover stockpiles containing soil with applicable toxic air contaminants.
- ▶ Apply dust suppressant before loading and unloading; empty buckets and trailers slowly; minimize drop height; maintain truck freeboard; and cover trucks before leaving the site.
- ▶ Immediately remove spilled soil.
- ▶ Stabilize or cover potential dust sources when active earth-moving is not occurring in that location.
- ▶ Inspect stockpiles daily, including days when on-site earth-moving activities are not occurring.

Notifications

- ▶ Submit the initial notification at least 72 hours and no more than 30 days before conducting earth-moving activities at a site meeting Rule 1466 applicability.
- ▶ Update the notification when the start date changes, the completion date occurs, exemption status changes, or other required information changes.

-
- ▶ Submit an exceedance notification within 72 hours of a PM₁₀ emission limit exceedance. Include PM₁₀ monitoring results, wind data, monitor locations, timing, activities, and dust control measures taken.

Signage

Install and maintain Rule 1466 project signage at all entrances and along the property line or perimeter as required. The sign should provide a 24-hour contact number and the required warning statement identifying the applicable toxic air contaminants and the South Coast AQMD dust complaint number.

Records

Maintain daily records for at least 3 years and make them available to the Executive Officer upon request. At a minimum, the project record should include:

- ▶ Stockpile inspections, cover repairs, label maintenance, stabilization, and re-stabilization activities.
- ▶ Ambient PM₁₀ data, rolling average calculations, wind direction and speed, and monitor movement corresponding to wind changes.
- ▶ Instrument make/model, settings, configuration, calibration records, correction factors, maintenance records, operator training, daily zero checks, weekly precision testing, and instrument logs.
- ▶ DAS or data management system failures and corrective actions.
- ▶ On-site earth-moving activities and corresponding volume of soil with applicable toxic air contaminants.
- ▶ Transporting and receiving facility information and shipping manifests.
- ▶ Complaints, complaint response actions, and a copy of all submitted notifications.

10. Example daily logs and project tables

Daily monitoring summary

FIELD	ENTRY
Date	[Date]
Work hours	[Start/end time]
Earth-moving activities conducted	[Excavation, grading, loading, stockpile management, etc.]
Approximate soil volume handled	[Cubic yards]
PM₁₀ monitors operating	[Monitor IDs and locations]
Wind sensor operating	[Wind sensor ID/location]
Daily zero checks completed	[Yes/no; attach records]
Exceedances or alerts	[None or summarize]
Dust controls used	[Watering, suppressant, covering, sweeping, etc.]
Complaints received	[None or summarize]
Corrective actions	[None or summarize]
Prepared by	[Name]

Exceedance log

DATE/TIME	TRIGGER	PM10/WIND RESULT	ACTIVITY OCCURRING	ACTION TAKEN	RESTART TIME	NOTIFICATION REQUIRED/SUBMITTED
[]	[PM ₁₀ / wind / visible dust / DAS]	[]	[]	[]	[]	[]

DATE/TIME	TRIGGER	PM10/WIND RESULT	ACTIVITY OCCURRING	ACTION TAKEN	RESTART TIME	NOTIFICATION REQUIRED/SUBMITTED
[]	[PM ₁₀ / wind / visible dust / DAS]	[]	[]	[]	[]	[]
[]	[PM ₁₀ / wind / visible dust / DAS]	[]	[]	[]	[]	[]

QA/QC log

DATE/TIME	MONITOR ID	CHECK PERFORMED	RESULT	PASS/FAIL	CORRECTIVE ACTION	INITIALS
[]	[]	[Daily zero check]	[]	[]	[]	[]
[]	[]	[Weekly precision test]	[]	[]	[]	[]
[]	[]	[Maintenance/filter change/calibration]	[]	[]	[]	[]

Dust control activity log

DATE/TIME	LOCATION	DUST SOURCE/ACTIVITY	CONTROL MEASURE APPLIED	EFFECTIVENESS CHECK	INITIALS
[]	[]	[]	[Wetting/suppressant/cover/track- out removal]	[]	[]
[]	[]	[]	[Wetting/suppressant/cover/track- out removal]	[]	[]
[]	[]	[]	[Wetting/suppressant/cover/track- out removal]	[]	[]

11. Customer implementation checklist

Use this checklist before mobilization and again before the first day of regulated earth-moving activities.

CHECKLIST ITEM	COMPLETE?	NOTES
Rule 1466 applicability confirmed and exemptions/special conditions documented.	☐	☐
Initial notification prepared and submitted within the required timeframe.	☐	☐
Dust control supervisor assigned and credentials confirmed.	☐	☐
PM₁₀ monitors selected, configured identically, and checked against project requirements.	☐	☐
Wind sensor selected, certified, and sited appropriately.	☐	☐
Monitor layout map prepared and reviewed with field team.	☐	☐
Cloud dashboard, data logging, contribution calculation, and alerts tested.	☐	☐
Battery/solar/AC power plan tested for project runtime.	☐	☐
Daily zero check and weekly precision test process documented.	☐	☐
Dust control materials, water supply, covers, vacuum, and track-out controls ready.	☐	☐
Project signage installed or ready for installation.	☐	☐
Exceedance response procedure reviewed with owner, consultant, contractor, and dust control supervisor.	☐	☐
Recordkeeping folder or digital system set up for the full project record.	☐	☐

Appendix F

Rule 1466 Report Simulated Example Data

Recording Studio Project - 1466

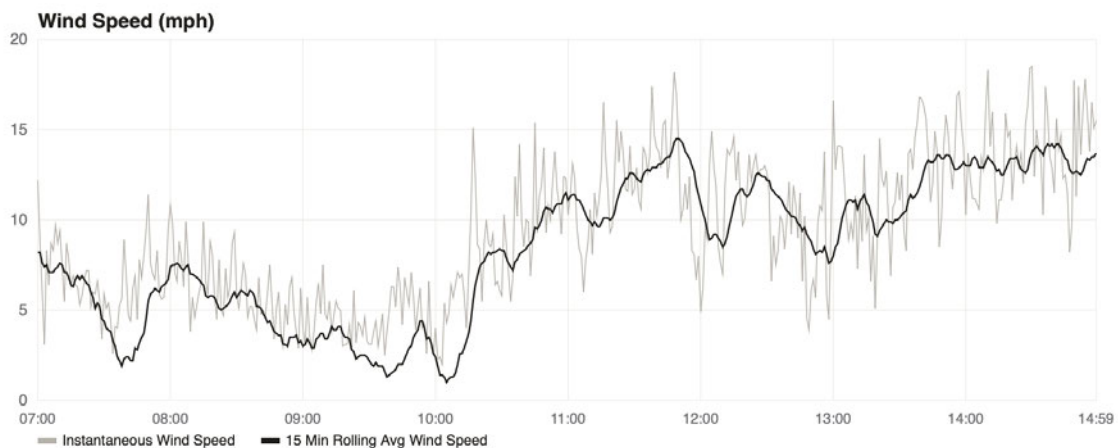
Report Period

From: 03/20/2026 07:00

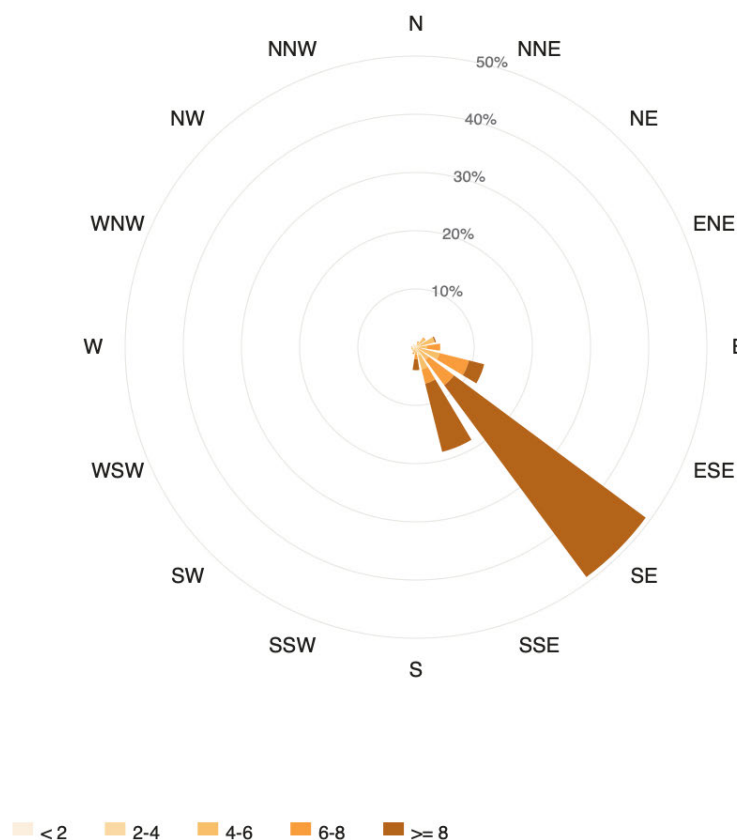
To: 03/20/2026 15:00

PM₁₀ Action Level: 25 µg/m³

Daily Environmental Summary	Temp (°F)	Relative Humidity (%)	Barometer (inHg)	Wind Speed (mph)	Prevailing Wind Direction
03/20/2026	57.0 - 68.4	62.4 - 87.0	29.9 - 29.9	2.0 - 18.5	SE



Wind Rose (mph)



WS (mph)	Time
< 2	0.0%
2-4	7.9%
4-6	18.1%
6-8	16.5%
>= 8	57.5%



1466 Summary: Rolling Avg Data

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 07:00	11.8	29.6	17.8	16.0	12.2	8.2	SE	2 Hr
3/20/2026 07:01	11.6	29.0	17.4	16.0	8.8	8.2	SE	2 Hr
3/20/2026 07:02	11.6	29.1	17.5	16.0	6.0	7.6	NNE	2 Hr
3/20/2026 07:03	11.3	28.2	17.0	15.9	3.1	7.4	E	2 Hr
3/20/2026 07:04	12.0	30.0	18.0	15.9	8.3	7.5	SSE	2 Hr
3/20/2026 07:05	12.1	30.3	18.2	16.2	6.4	7.1	NE	2 Hr
3/20/2026 07:06	12.2	30.6	18.4	16.6	8.7	7.1	SE	2 Hr
3/20/2026 07:07	12.6	31.5	18.9	16.5	8.3	7.1	SE	2 Hr
3/20/2026 07:08	12.3	30.7	18.4	16.5	9.7	7.3	ESE	2 Hr
3/20/2026 07:09	12.8	32.1	19.3	16.5	8.7	7.4	SE	2 Hr
3/20/2026 07:10	12.3	30.9	18.6	16.8	9.4	7.6	SE	2 Hr
3/20/2026 07:11	12.7	31.7	19.1	17.1	7.5	7.5	SE	2 Hr
3/20/2026 07:12	12.3	30.7	18.4	17.4	5.5	7.1	ENE	2 Hr
3/20/2026 07:13	12.1	30.3	18.2	17.4	8.7	7.1	SE	2 Hr
3/20/2026 07:14	11.9	29.8	17.9	17.4	7.8	6.8	E	2 Hr
3/20/2026 07:15	12.1	30.2	18.1	17.4	6.3	6.4	SE	2 Hr
3/20/2026 07:16	12.0	29.9	18.0	17.4	6.9	6.3	SE	2 Hr
3/20/2026 07:17	12.6	31.6	19.0	17.3	6.4	6.7	SE	2 Hr
3/20/2026 07:18	12.4	31.0	18.6	17.7	6.3	6.9	E	2 Hr
3/20/2026 07:19	12.3	30.8	18.5	17.7	5.3	6.7	SSE	2 Hr
3/20/2026 07:20	11.5	28.8	17.3	17.6	5.8	6.9	ESE	2 Hr
3/20/2026 07:21	29.7	13.4	-16.3	17.3	6.6	6.7	SSE	2 Hr
3/20/2026 07:22	31.0	14.0	-17.1	17.0	7.2	6.5	S	2 Hr
3/20/2026 07:23	12.1	30.4	18.3	17.0	7.2	6.4	ESE	2 Hr
3/20/2026 07:24	11.8	29.6	17.8	17.0	5.2	6.0	ENE	2 Hr
3/20/2026 07:25	11.9	29.9	18.0	17.0	6.0	5.7	SE	2 Hr
3/20/2026 07:26	29.8	13.4	-16.4	16.7	5.9	5.1	SW	2 Hr
3/20/2026 07:27	12.5	31.3	18.8	16.7	6.6	5.4	SE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 07:28	12.4	31.0	18.6	16.7	5.5	5.2	ESE	2 Hr
3/20/2026 07:29	13.0	28.9	15.9	16.7	3.4	4.5	NW	2 Hr
3/20/2026 07:30	29.9	13.5	-16.4	16.4	5.9	4.4	S	2 Hr
3/20/2026 07:31	31.1	14.0	-17.1	16.1	5.1	4.0	SSW	2 Hr
3/20/2026 07:32	31.0	14.0	-17.0	15.8	5.4	3.9	S	2 Hr
3/20/2026 07:33	12.9	32.3	19.4	15.8	4.4	3.8	ENE	2 Hr
3/20/2026 07:34	32.2	14.5	-17.7	15.5	2.6	3.3	W	2 Hr
3/20/2026 07:35	31.2	14.1	-17.2	15.2	4.1	3.0	W	2 Hr
3/20/2026 07:36	11.8	29.5	17.7	15.2	4.0	2.4	NNE	2 Hr
3/20/2026 07:37	11.6	29.1	17.5	15.2	5.3	2.2	ESE	2 Hr
3/20/2026 07:38	11.9	29.8	17.9	15.2	5.6	1.9	ENE	2 Hr
3/20/2026 07:39	12.2	30.5	18.3	15.2	8.9	2.3	ESE	2 Hr
3/20/2026 07:40	12.2	30.6	18.4	15.2	7.0	2.4	SE	2 Hr
3/20/2026 07:41	11.8	29.6	17.8	15.2	4.7	2.4	NE	2 Hr
3/20/2026 07:42	11.5	28.9	17.4	15.1	4.4	2.2	ENE	2 Hr
3/20/2026 07:43	11.8	29.5	17.7	15.1	6.2	2.2	ESE	2 Hr
3/20/2026 07:44	11.7	29.2	17.6	15.1	6.9	2.9	E	2 Hr
3/20/2026 07:45	28.5	12.8	-15.7	14.8	4.5	2.8	SSW	2 Hr
3/20/2026 07:46	12.1	30.2	18.2	14.8	7.8	3.2	SSE	2 Hr
3/20/2026 07:47	12.0	30.0	18.0	14.8	6.8	3.5	SE	2 Hr
3/20/2026 07:48	11.8	29.5	17.7	14.8	8.0	3.7	ENE	2 Hr
3/20/2026 07:49	11.9	29.8	17.9	14.8	9.4	4.5	ESE	2 Hr
3/20/2026 07:50	11.8	29.5	17.7	14.8	11.4	5.5	ESE	2 Hr
3/20/2026 07:51	12.2	30.6	18.4	14.8	7.6	5.9	SE	2 Hr
3/20/2026 07:52	11.3	28.3	17.0	14.8	7.0	6.0	ESE	2 Hr
3/20/2026 07:53	11.4	28.6	17.2	14.8	6.7	6.2	ESE	2 Hr
3/20/2026 07:54	12.0	30.1	18.1	15.1	8.3	6.1	SE	2 Hr
3/20/2026 07:55	12.3	30.7	18.4	15.1	5.9	6.0	SE	2 Hr
3/20/2026 07:56	12.5	31.3	18.8	15.1	5.6	6.3	SSE	2 Hr
3/20/2026 07:57	12.8	31.9	19.2	15.1	5.7	6.4	SSE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 07:58	12.6	31.5	18.9	15.1	6.7	6.5	ESE	2 Hr
3/20/2026 07:59	12.0	30.1	18.1	15.1	9.5	6.7	ESE	2 Hr
3/20/2026 08:00	12.0	30.0	18.0	15.1	10.8	7.4	SE	2 Hr
3/20/2026 08:01	11.6	29.1	17.5	15.1	9.8	7.5	SE	2 Hr
3/20/2026 08:02	11.2	28.1	16.9	15.1	7.1	7.5	E	2 Hr
3/20/2026 08:03	11.2	28.1	16.9	15.1	6.6	7.6	SE	2 Hr
3/20/2026 08:04	11.5	28.8	17.3	15.1	8.8	7.5	SSE	2 Hr
3/20/2026 08:05	11.7	29.3	17.6	15.1	7.9	7.3	SE	2 Hr
3/20/2026 08:06	11.6	29.1	17.5	15.0	6.3	7.2	SSE	2 Hr
3/20/2026 08:07	12.1	30.3	18.2	15.0	9.9	7.4	SE	2 Hr
3/20/2026 08:08	12.2	30.5	18.3	15.0	7.9	7.5	ESE	2 Hr
3/20/2026 08:09	11.4	28.4	17.1	15.0	3.8	7.0	ENE	2 Hr
3/20/2026 08:10	11.4	28.5	17.1	15.0	5.7	7.0	ESE	2 Hr
3/20/2026 08:11	30.7	13.8	-16.9	14.7	4.6	6.9	SSE	2 Hr
3/20/2026 08:12	11.7	29.3	17.6	14.7	5.3	6.8	ENE	2 Hr
3/20/2026 08:13	11.7	29.3	17.6	14.7	6.0	6.7	E	2 Hr
3/20/2026 08:14	11.8	29.4	17.7	14.6	6.5	6.5	SE	2 Hr
3/20/2026 08:15	11.9	29.9	18.0	14.6	9.9	6.4	SSE	2 Hr
3/20/2026 08:16	28.8	13.0	-15.8	14.3	6.6	5.8	SSW	2 Hr
3/20/2026 08:17	29.6	13.3	-16.3	14.0	5.9	5.7	S	2 Hr
3/20/2026 08:18	11.5	28.8	17.3	14.0	8.8	5.8	ESE	2 Hr
3/20/2026 08:19	11.7	29.3	17.6	14.3	8.1	5.8	SE	2 Hr
3/20/2026 08:20	12.2	30.5	18.3	14.3	5.7	5.7	ESE	2 Hr
3/20/2026 08:21	11.5	28.7	17.2	14.3	4.5	5.4	NE	2 Hr
3/20/2026 08:22	11.7	29.3	17.6	14.3	7.8	5.1	E	2 Hr
3/20/2026 08:23	11.9	29.9	18.0	14.6	5.0	5.0	SE	2 Hr
3/20/2026 08:24	11.7	29.3	17.6	14.6	4.7	5.1	ESE	2 Hr
3/20/2026 08:25	12.5	31.2	18.7	14.6	7.3	5.2	SE	2 Hr
3/20/2026 08:26	12.9	32.2	19.4	14.6	5.7	5.3	E	2 Hr
3/20/2026 08:27	12.5	31.3	18.8	14.6	6.3	5.5	SE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 08:28	12.7	31.8	19.1	14.6	8.7	5.8	SSE	2 Hr
3/20/2026 08:29	12.3	30.9	18.5	14.6	9.3	6.0	SE	2 Hr
3/20/2026 08:30	11.9	29.9	17.9	14.6	5.9	5.7	ESE	2 Hr
3/20/2026 08:31	11.6	29.0	17.4	14.6	5.1	5.9	SE	2 Hr
3/20/2026 08:32	30.6	13.8	-16.8	14.3	6.2	6.1	SSE	2 Hr
3/20/2026 08:33	12.9	32.3	19.4	14.3	7.6	6.0	SE	2 Hr
3/20/2026 08:34	13.1	32.8	19.7	14.3	7.0	5.9	SE	2 Hr
3/20/2026 08:35	30.6	13.8	-16.8	14.0	4.6	5.8	SSE	2 Hr
3/20/2026 08:36	12.7	31.8	19.1	14.0	5.2	6.1	SE	2 Hr
3/20/2026 08:37	12.7	31.7	19.0	14.0	5.2	6.0	ESE	2 Hr
3/20/2026 08:38	12.2	30.6	18.4	14.0	4.5	5.8	ENE	2 Hr
3/20/2026 08:39	13.5	29.9	16.5	14.0	3.9	5.2	NNW	2 Hr
3/20/2026 08:40	12.4	31.1	18.7	14.0	6.8	5.2	ESE	2 Hr
3/20/2026 08:41	12.2	30.4	18.3	14.0	4.8	5.1	ENE	2 Hr
3/20/2026 08:42	31.3	14.1	-17.2	13.7	5.0	4.8	S	2 Hr
3/20/2026 08:43	29.8	13.4	-16.4	13.5	4.7	4.6	SSE	2 Hr
3/20/2026 08:44	30.6	13.8	-16.8	13.2	6.0	4.3	SSE	2 Hr
3/20/2026 08:45	12.0	30.0	18.0	13.2	7.5	4.4	ESE	2 Hr
3/20/2026 08:46	11.4	28.5	17.1	13.1	5.4	4.1	NE	2 Hr
3/20/2026 08:47	11.6	29.0	17.4	13.1	3.4	3.8	ENE	2 Hr
3/20/2026 08:48	12.5	31.2	18.8	13.1	5.1	3.7	ESE	2 Hr
3/20/2026 08:49	13.2	33.1	19.9	13.2	6.0	3.6	ESE	2 Hr
3/20/2026 08:50	31.2	14.1	-17.2	12.9	3.8	3.6	SSE	2 Hr
3/20/2026 08:51	13.4	29.8	16.4	12.9	3.0	3.1	WNW	2 Hr
3/20/2026 08:52	12.2	30.4	18.3	12.9	5.3	3.1	ESE	2 Hr
3/20/2026 08:53	12.0	30.1	18.1	12.9	4.2	3.0	NE	2 Hr
3/20/2026 08:54	11.6	29.0	17.4	12.9	6.3	3.5	SE	2 Hr
3/20/2026 08:55	12.0	30.1	18.1	12.9	6.8	3.5	SE	2 Hr
3/20/2026 08:56	30.1	13.6	-16.5	12.6	4.8	3.5	SSE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 08:57	28.6	12.9	-15.7	12.3	3.8	3.6	SSE	2 Hr
3/20/2026 08:58	13.1	29.1	16.0	12.2	2.9	3.2	NW	2 Hr
3/20/2026 08:59	11.7	29.2	17.5	12.2	6.2	3.3	ESE	2 Hr
3/20/2026 09:00	11.3	28.4	17.1	12.2	4.0	3.0	SE	2 Hr
3/20/2026 09:01	12.1	30.3	18.2	12.2	3.0	3.1	SSE	2 Hr
3/20/2026 09:02	11.8	29.6	17.8	12.2	5.7	3.4	SE	2 Hr
3/20/2026 09:03	11.5	28.9	17.4	12.2	3.6	3.2	ENE	2 Hr
3/20/2026 09:04	11.2	28.0	16.8	12.2	2.8	2.9	NE	2 Hr
3/20/2026 09:05	31.6	14.2	-17.4	11.9	3.8	2.9	SSE	2 Hr
3/20/2026 09:06	12.9	32.2	19.3	11.9	5.4	3.4	E	2 Hr
3/20/2026 09:07	12.5	31.3	18.8	11.9	6.5	3.5	ESE	2 Hr
3/20/2026 09:08	12.8	32.0	19.2	12.0	4.8	3.7	E	2 Hr
3/20/2026 09:09	12.8	31.9	19.2	12.0	7.5	3.7	E	2 Hr
3/20/2026 09:10	11.7	29.4	17.6	11.9	4.8	3.4	NE	2 Hr
3/20/2026 09:11	11.3	28.3	17.0	11.9	4.5	3.4	ENE	2 Hr
3/20/2026 09:12	12.0	29.9	18.0	11.9	5.5	3.7	E	2 Hr
3/20/2026 09:13	11.2	27.9	16.8	11.9	3.8	4.1	E	2 Hr
3/20/2026 09:14	11.5	28.8	17.3	11.9	4.7	3.9	SSE	2 Hr
3/20/2026 09:15	11.9	29.7	17.8	11.9	5.5	3.9	SSE	2 Hr
3/20/2026 09:16	11.7	29.2	17.5	11.9	5.1	4.1	ESE	2 Hr
3/20/2026 09:17	12.6	31.5	18.9	11.9	5.0	4.1	SE	2 Hr
3/20/2026 09:18	13.3	29.5	16.2	11.9	3.0	3.7	NW	2 Hr
3/20/2026 09:19	30.4	13.7	-16.7	11.6	3.1	3.5	SW	2 Hr
3/20/2026 09:20	12.0	30.1	18.1	11.6	3.1	3.5	NE	2 Hr
3/20/2026 09:21	11.7	29.2	17.5	11.9	4.2	3.4	SE	2 Hr
3/20/2026 09:22	29.8	13.4	-16.4	11.9	2.9	2.8	SW	2 Hr
3/20/2026 09:23	31.1	14.0	-17.1	11.6	6.1	2.7	S	2 Hr
3/20/2026 09:24	11.8	29.7	17.8	11.6	3.2	2.3	NNE	2 Hr
3/20/2026 09:25	28.7	12.9	-15.8	11.3	4.3	2.4	S	2 Hr
3/20/2026 09:26	11.7	29.3	17.6	11.6	4.1	2.5	ESE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 09:27	11.0	27.6	16.6	11.6	3.6	2.5	ESE	2 Hr
3/20/2026 09:28	11.3	28.3	17.0	11.6	4.6	2.5	ENE	2 Hr
3/20/2026 09:29	11.1	27.7	16.7	11.6	3.3	2.4	SSE	2 Hr
3/20/2026 09:30	28.7	12.9	-15.8	11.6	3.1	2.2	SSE	2 Hr
3/20/2026 09:31	29.5	13.3	-16.2	11.6	3.1	2.0	SSW	2 Hr
3/20/2026 09:32	28.4	12.8	-15.6	11.6	3.8	1.9	SSE	2 Hr
3/20/2026 09:33	29.5	13.3	-16.2	11.3	4.4	2.1	WSW	2 Hr
3/20/2026 09:34	13.4	29.8	16.4	11.6	3.0	1.9	N	2 Hr
3/20/2026 09:35	28.9	13.0	-15.9	11.6	3.8	1.9	WSW	2 Hr
3/20/2026 09:36	30.3	13.7	-16.6	11.3	4.8	1.9	SSW	2 Hr
3/20/2026 09:37	13.0	28.8	15.8	11.3	2.5	1.6	NNW	2 Hr
3/20/2026 09:38	29.3	13.2	-16.1	11.0	3.8	1.3	WSW	2 Hr
3/20/2026 09:39	12.2	30.6	18.4	11.0	4.9	1.4	E	2 Hr
3/20/2026 09:40	12.1	30.3	18.2	11.0	6.3	1.5	ESE	2 Hr
3/20/2026 09:41	12.8	32.2	19.3	11.0	6.3	1.6	ESE	2 Hr
3/20/2026 09:42	12.5	31.4	18.9	11.0	5.2	1.7	SE	2 Hr
3/20/2026 09:43	13.0	32.5	19.5	11.0	7.4	2.0	ESE	2 Hr
3/20/2026 09:44	13.4	33.6	20.2	11.1	6.3	2.0	E	2 Hr
3/20/2026 09:45	13.3	33.3	20.0	11.4	4.2	2.0	E	2 Hr
3/20/2026 09:46	13.3	33.3	20.0	11.4	6.8	2.3	E	2 Hr
3/20/2026 09:47	13.2	32.9	19.8	11.4	6.0	2.6	ESE	2 Hr
3/20/2026 09:48	12.9	32.4	19.4	11.4	5.3	2.9	NE	2 Hr
3/20/2026 09:49	31.7	14.3	-17.4	11.1	7.1	3.0	S	2 Hr
3/20/2026 09:50	11.9	29.8	17.9	11.1	5.8	3.5	ENE	2 Hr
3/20/2026 09:51	11.9	29.8	17.9	11.1	3.9	3.7	NNE	2 Hr
3/20/2026 09:52	30.8	13.9	-16.9	10.8	5.1	3.9	SSE	2 Hr
3/20/2026 09:53	13.0	32.5	19.5	10.8	6.2	4.4	SSE	2 Hr
3/20/2026 09:54	12.9	32.4	19.4	10.9	4.0	4.4	ESE	2 Hr
3/20/2026 09:55	12.7	31.8	19.1	10.9	4.2	4.0	NNE	2 Hr
3/20/2026 09:56	14.2	31.4	17.3	10.8	2.6	3.4	W	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 09:57	12.8	32.1	19.3	10.8	6.6	3.5	SE	2 Hr
3/20/2026 09:58	12.5	31.2	18.8	10.8	3.3	3.2	ENE	2 Hr
3/20/2026 09:59	14.0	31.0	17.0	10.8	2.6	2.6	WNW	2 Hr
3/20/2026 10:00	32.3	14.6	-17.8	10.5	4.0	2.4	S	2 Hr
3/20/2026 10:01	31.3	14.1	-17.2	10.3	2.3	1.9	WSW	2 Hr
3/20/2026 10:02	14.0	31.1	17.1	10.3	2.4	1.4	W	2 Hr
3/20/2026 10:03	31.1	14.0	-17.1	10.0	2.0	1.4	SW	2 Hr
3/20/2026 10:04	31.9	14.3	-17.5	9.7	5.4	1.3	SSW	2 Hr
3/20/2026 10:05	12.8	32.1	19.3	9.7	4.3	1.0	NE	2 Hr
3/20/2026 10:06	11.8	29.5	17.7	9.7	4.8	1.2	ENE	2 Hr
3/20/2026 10:07	11.8	29.6	17.8	9.7	6.4	1.3	ESE	2 Hr
3/20/2026 10:08	12.0	30.1	18.1	9.7	5.7	1.3	ESE	2 Hr
3/20/2026 10:09	12.3	30.8	18.5	9.7	6.4	1.5	ESE	2 Hr
3/20/2026 10:10	11.9	29.8	17.9	9.7	7.1	2.0	ESE	2 Hr
3/20/2026 10:11	12.2	30.6	18.4	10.0	6.8	2.6	ESE	2 Hr
3/20/2026 10:12	11.9	29.8	17.9	10.0	7.0	2.6	ESE	2 Hr
3/20/2026 10:13	11.3	28.4	17.0	10.0	5.8	2.9	E	2 Hr
3/20/2026 10:14	21.6	54.1	32.5	10.1	4.0	3.3	ESE	2 Hr
3/20/2026 10:15	18.0	45.0	27.1	10.2	7.0	3.7	ESE	2 Hr
3/20/2026 10:16	17.6	44.2	26.5	10.6	10.2	4.4	SE	2 Hr
3/20/2026 10:17	17.9	44.8	26.9	10.9	15.1	5.5	SE	2 Hr
3/20/2026 10:18	17.5	43.9	26.4	11.0	12.4	6.4	SE	2 Hr
3/20/2026 10:19	17.8	44.5	26.7	11.1	8.6	6.9	SE	2 Hr
3/20/2026 10:20	17.6	44.2	26.5	11.1	8.4	7.4	SE	2 Hr
3/20/2026 10:21	17.4	43.5	26.1	11.2	5.5	7.6	SE	2 Hr
3/20/2026 10:22	20.8	52.2	31.3	11.3	8.7	7.7	SE	2 Hr
3/20/2026 10:23	19.1	47.8	28.7	11.4	10.0	8.0	SE	2 Hr
3/20/2026 10:24	17.8	44.6	26.8	11.5	8.7	8.2	SE	2 Hr
3/20/2026 10:25	45.0	20.3	-24.7	11.1	8.5	8.1	S	2 Hr
3/20/2026 10:26	18.3	45.7	27.4	11.2	9.2	8.2	ESE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 10:27	18.1	45.4	27.3	11.3	6.4	8.2	SSE	2 Hr
3/20/2026 10:28	45.0	20.3	-24.7	10.9	6.6	8.3	S	2 Hr
3/20/2026 10:29	17.4	43.5	26.1	11.0	6.1	8.4	ESE	2 Hr
3/20/2026 10:30	16.6	41.6	25.0	11.0	5.8	8.3	ESE	2 Hr
3/20/2026 10:31	18.0	45.0	27.0	11.1	10.3	8.3	SE	2 Hr
3/20/2026 10:32	17.2	43.1	25.9	11.5	8.7	7.9	SE	2 Hr
3/20/2026 10:33	16.5	41.3	24.8	11.5	7.1	7.6	SE	2 Hr
3/20/2026 10:34	16.8	42.1	25.3	11.5	5.5	7.4	SSE	2 Hr
3/20/2026 10:35	16.8	42.0	25.2	11.9	6.8	7.2	SSE	2 Hr
3/20/2026 10:36	16.5	41.3	24.8	11.9	12.4	7.7	SE	2 Hr
3/20/2026 10:37	16.9	42.2	25.4	12.0	10.2	7.8	SE	2 Hr
3/20/2026 10:38	16.7	41.9	25.2	12.1	14.2	8.1	SE	2 Hr
3/20/2026 10:39	16.4	41.0	24.6	12.1	9.9	8.2	SE	2 Hr
3/20/2026 10:40	16.0	40.0	24.0	12.2	8.5	8.3	SE	2 Hr
3/20/2026 10:41	16.3	40.8	24.5	12.2	10.0	8.4	SE	2 Hr
3/20/2026 10:42	16.4	41.1	24.7	12.6	9.9	8.6	SSE	2 Hr
3/20/2026 10:43	16.5	41.2	24.8	12.9	6.9	8.7	SSE	2 Hr
3/20/2026 10:44	16.0	40.2	24.1	13.3	9.1	8.9	SSE	2 Hr
3/20/2026 10:45	16.8	42.0	25.2	13.3	15.4	9.6	SE	2 Hr
3/20/2026 10:46	42.0	18.9	-23.1	13.0	9.3	9.5	SSE	2 Hr
3/20/2026 10:47	16.8	42.2	25.3	13.0	11.3	9.7	SSE	2 Hr
3/20/2026 10:48	16.4	41.1	24.7	13.1	11.9	10.0	SSE	2 Hr
3/20/2026 10:49	16.9	42.2	25.3	13.1	14.0	10.5	SSE	2 Hr
3/20/2026 10:50	15.8	39.7	23.8	13.5	9.3	10.7	SE	2 Hr
3/20/2026 10:51	16.3	40.9	24.6	13.5	10.8	10.6	SE	2 Hr
3/20/2026 10:52	16.0	40.0	24.0	13.6	10.0	10.6	SE	2 Hr
3/20/2026 10:53	16.0	40.2	24.1	13.6	12.1	10.4	SE	2 Hr
3/20/2026 10:54	16.1	40.3	24.2	13.7	13.8	10.7	SE	2 Hr
3/20/2026 10:55	16.5	41.4	24.8	13.8	11.7	10.9	SSE	2 Hr
3/20/2026 10:56	16.4	41.1	24.7	14.1	10.8	10.9	SE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 10:57	15.9	39.9	24.0	14.4	9.2	10.9	SE	2 Hr
3/20/2026 10:58	16.6	41.4	24.9	14.5	12.4	11.3	SE	2 Hr
3/20/2026 10:59	16.2	40.5	24.3	14.6	12.3	11.5	SE	2 Hr
3/20/2026 11:00	16.8	42.1	25.3	14.6	10.3	11.1	SE	2 Hr
3/20/2026 11:01	17.3	43.3	26.0	14.7	11.4	11.3	SSE	2 Hr
3/20/2026 11:02	44.1	19.8	-24.2	14.3	13.1	11.4	SSE	2 Hr
3/20/2026 11:03	16.6	41.5	24.9	14.4	12.3	11.4	SE	2 Hr
3/20/2026 11:04	16.6	41.6	25.0	14.5	9.6	11.1	SE	2 Hr
3/20/2026 11:05	16.1	40.4	24.2	14.8	8.4	11.1	SE	2 Hr
3/20/2026 11:06	15.5	38.9	23.4	14.9	8.0	10.9	SE	2 Hr
3/20/2026 11:07	37.9	17.1	-20.8	14.5	6.0	10.6	SSE	2 Hr
3/20/2026 11:08	15.6	39.0	23.4	14.6	7.8	10.3	SE	2 Hr
3/20/2026 11:09	15.5	38.9	23.4	14.6	8.7	10.0	SE	2 Hr
3/20/2026 11:10	16.1	40.3	24.2	14.7	10.6	9.9	SE	2 Hr
3/20/2026 11:11	16.3	40.9	24.5	14.7	8.1	9.7	SE	2 Hr
3/20/2026 11:12	15.4	38.6	23.2	14.8	11.5	9.9	SE	2 Hr
3/20/2026 11:13	16.0	40.1	24.1	14.8	10.2	9.7	SE	2 Hr
3/20/2026 11:14	16.3	40.7	24.4	14.9	11.1	9.6	SSE	2 Hr
3/20/2026 11:15	15.4	38.7	23.2	14.9	12.5	9.8	SSE	2 Hr
3/20/2026 11:16	26.0	16.7	-9.2	14.7	16.5	10.1	SSE	2 Hr
3/20/2026 11:17	36.5	16.4	-20.0	14.4	13.5	10.1	SSE	2 Hr
3/20/2026 11:18	15.1	37.7	22.7	14.4	11.7	10.1	SSE	2 Hr
3/20/2026 11:19	39.0	17.6	-21.5	14.4	9.3	10.0	SSE	2 Hr
3/20/2026 11:20	15.6	39.1	23.5	14.4	9.6	10.1	SE	2 Hr
3/20/2026 11:21	15.7	39.3	23.6	14.5	12.4	10.4	SE	2 Hr
3/20/2026 11:22	16.5	41.3	24.8	14.8	15.5	11.0	SE	2 Hr
3/20/2026 11:23	16.6	41.7	25.0	15.2	13.2	11.4	SE	2 Hr
3/20/2026 11:24	16.6	41.6	25.0	15.2	14.9	11.8	SSE	2 Hr
3/20/2026 11:25	16.8	42.0	25.2	15.6	13.6	12.0	SE	2 Hr
3/20/2026 11:26	16.5	41.4	24.9	15.6	11.7	12.3	SSE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 11:27	16.4	41.0	24.6	15.7	11.6	12.3	SE	2 Hr
3/20/2026 11:28	15.7	39.4	23.7	15.8	14.1	12.6	SSE	2 Hr
3/20/2026 11:29	16.1	40.4	24.2	15.8	11.4	12.6	SE	2 Hr
3/20/2026 11:30	16.3	40.9	24.5	16.2	11.7	12.5	SE	2 Hr
3/20/2026 11:31	16.0	40.1	24.1	16.5	12.9	12.3	SE	2 Hr
3/20/2026 11:32	16.0	40.1	24.1	16.8	11.1	12.2	SE	2 Hr
3/20/2026 11:33	16.1	40.3	24.2	17.2	10.6	12.1	SE	2 Hr
3/20/2026 11:34	16.1	40.3	24.2	17.2	14.0	12.5	SE	2 Hr
3/20/2026 11:35	16.1	40.3	24.2	17.6	13.7	12.7	SE	2 Hr
3/20/2026 11:36	15.9	39.9	23.9	17.9	12.6	12.8	SSE	2 Hr
3/20/2026 11:37	16.0	40.1	24.1	18.0	13.6	12.7	SE	2 Hr
3/20/2026 11:38	16.1	40.2	24.1	18.3	17.4	12.9	SSE	2 Hr
3/20/2026 11:39	41.3	18.6	-22.7	18.0	14.7	12.9	SSE	2 Hr
3/20/2026 11:40	16.3	40.8	24.5	18.0	14.0	12.9	SE	2 Hr
3/20/2026 11:41	16.1	40.3	24.2	18.1	13.8	13.1	SE	2 Hr
3/20/2026 11:42	16.1	40.4	24.2	18.1	12.9	13.1	SE	2 Hr
3/20/2026 11:43	16.0	40.0	24.0	18.1	15.3	13.2	SE	2 Hr
3/20/2026 11:44	39.0	17.6	-21.4	17.8	15.5	13.4	SSE	2 Hr
3/20/2026 11:45	14.6	36.6	22.0	17.8	12.3	13.5	SSE	2 Hr
3/20/2026 11:46	14.5	36.4	21.9	17.8	13.3	13.5	SE	2 Hr
3/20/2026 11:47	37.8	17.0	-20.7	17.5	15.6	13.8	SSE	2 Hr
3/20/2026 11:48	15.7	39.3	23.6	17.5	18.2	14.3	SE	2 Hr
3/20/2026 11:49	16.3	40.7	24.5	17.9	17.0	14.5	SSE	2 Hr
3/20/2026 11:50	16.4	41.1	24.7	17.9	14.3	14.5	SE	2 Hr
3/20/2026 11:51	15.9	39.9	23.9	18.0	10.0	14.4	SSE	2 Hr
3/20/2026 11:52	15.6	38.9	23.4	18.3	10.6	14.2	SE	2 Hr
3/20/2026 11:53	15.7	39.2	23.5	18.3	12.0	13.8	SSE	2 Hr
3/20/2026 11:54	15.4	38.5	23.1	18.4	10.6	13.6	SE	2 Hr
3/20/2026 11:55	39.9	18.0	-21.9	18.0	12.4	13.4	S	2 Hr
3/20/2026 11:56	40.4	18.2	-22.2	17.7	8.3	13.0	SSE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 11:57	15.1	37.8	22.7	17.7	8.1	12.7	SE	2 Hr
3/20/2026 11:58	14.6	36.7	22.0	17.8	6.7	11.9	E	2 Hr
3/20/2026 11:59	15.5	38.7	23.3	17.8	8.0	11.4	SE	2 Hr
3/20/2026 12:00	15.2	38.1	22.9	18.2	4.9	10.9	SE	2 Hr
3/20/2026 12:01	15.2	38.0	22.8	18.5	6.2	10.4	ESE	2 Hr
3/20/2026 12:02	17.4	43.7	26.2	18.6	9.5	10.0	SE	2 Hr
3/20/2026 12:03	42.6	19.2	-23.4	18.5	8.9	9.4	SSE	2 Hr
3/20/2026 12:04	42.3	19.1	-23.2	18.5	13.1	8.9	S	2 Hr
3/20/2026 12:05	15.9	39.8	23.9	18.5	14.9	9.0	SE	2 Hr
3/20/2026 12:06	15.2	38.1	22.9	18.5	12.9	9.2	SSE	2 Hr
3/20/2026 12:07	15.0	37.6	22.6	18.6	11.8	9.2	SE	2 Hr
3/20/2026 12:08	15.0	37.5	22.5	18.6	8.5	9.0	SE	2 Hr
3/20/2026 12:09	15.4	38.5	23.1	18.7	7.6	8.8	SE	2 Hr
3/20/2026 12:10	15.0	37.5	22.5	18.7	7.0	8.5	ESE	2 Hr
3/20/2026 12:11	16.0	40.0	24.0	18.7	11.9	8.7	SE	2 Hr
3/20/2026 12:12	15.8	39.7	23.8	18.8	13.9	9.1	SE	2 Hr
3/20/2026 12:13	15.9	39.9	24.0	18.9	13.6	9.7	SE	2 Hr
3/20/2026 12:14	16.1	40.3	24.2	18.8	13.9	10.2	SE	2 Hr
3/20/2026 12:15	16.0	40.0	24.0	18.8	14.6	10.8	SE	2 Hr
3/20/2026 12:16	16.0	40.2	24.1	18.7	12.2	11.3	SE	2 Hr
3/20/2026 12:17	15.1	37.8	22.7	18.7	13.8	11.5	SE	2 Hr
3/20/2026 12:18	15.4	38.6	23.2	18.7	11.1	11.7	SE	2 Hr
3/20/2026 12:19	14.8	37.0	22.2	18.6	9.7	11.7	SE	2 Hr
3/20/2026 12:20	15.2	38.2	22.9	18.6	10.1	11.4	SE	2 Hr
3/20/2026 12:21	15.6	39.1	23.5	18.6	11.7	11.3	SE	2 Hr
3/20/2026 12:22	16.1	40.2	24.1	18.5	13.6	11.4	SE	2 Hr
3/20/2026 12:23	15.9	39.7	23.9	18.5	12.1	11.7	SE	2 Hr
3/20/2026 12:24	17.1	42.7	25.7	18.5	13.1	12.0	SE	2 Hr
3/20/2026 12:25	22.4	56.1	33.7	19.0	13.6	12.5	SE	2 Hr
3/20/2026 12:26	17.1	42.9	25.7	18.9	12.5	12.6	SSE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 12:27	17.1	42.9	25.8	18.9	12.8	12.5	SE	2 Hr
3/20/2026 12:28	16.6	41.7	25.0	19.4	12.8	12.4	SE	2 Hr
3/20/2026 12:29	16.1	40.4	24.3	19.3	13.0	12.4	SE	2 Hr
3/20/2026 12:30	15.5	38.8	23.3	19.3	12.6	12.2	SE	2 Hr
3/20/2026 12:31	15.7	39.2	23.6	19.3	11.5	12.2	SE	2 Hr
3/20/2026 12:32	15.2	38.1	22.9	19.3	6.6	11.7	SE	2 Hr
3/20/2026 12:33	15.5	38.8	23.3	19.3	9.1	11.6	SE	2 Hr
3/20/2026 12:34	15.7	39.2	23.6	19.2	7.5	11.4	SE	2 Hr
3/20/2026 12:35	15.3	38.4	23.1	19.2	8.3	11.3	SE	2 Hr
3/20/2026 12:36	15.0	37.6	22.6	19.2	10.2	11.2	SE	2 Hr
3/20/2026 12:37	15.4	38.7	23.2	19.2	9.9	11.0	SE	2 Hr
3/20/2026 12:38	15.9	39.8	23.9	19.2	8.4	10.7	SE	2 Hr
3/20/2026 12:39	15.7	39.4	23.6	19.2	10.0	10.5	SE	2 Hr
3/20/2026 12:40	16.3	40.9	24.6	19.2	12.1	10.4	SE	2 Hr
3/20/2026 12:41	16.3	40.7	24.4	19.2	9.2	10.2	SE	2 Hr
3/20/2026 12:42	16.1	40.4	24.3	19.2	11.9	10.2	SE	2 Hr
3/20/2026 12:43	16.2	40.6	24.4	19.2	10.9	10.1	SE	2 Hr
3/20/2026 12:44	15.8	39.5	23.7	19.2	9.0	9.8	SE	2 Hr
3/20/2026 12:45	16.4	40.9	24.6	19.2	11.5	9.7	SE	2 Hr
3/20/2026 12:46	16.4	41.0	24.6	19.6	6.6	9.4	ESE	2 Hr
3/20/2026 12:47	16.8	42.1	25.3	19.6	10.2	9.6	SE	2 Hr
3/20/2026 12:48	39.6	17.9	-21.8	19.2	4.6	9.2	SSE	2 Hr
3/20/2026 12:49	15.6	39.0	23.4	19.1	3.9	9.0	SE	2 Hr
3/20/2026 12:50	39.7	17.9	-21.8	18.8	6.1	8.8	SSE	2 Hr
3/20/2026 12:51	16.6	41.5	24.9	18.8	6.7	8.4	E	2 Hr
3/20/2026 12:52	16.0	40.1	24.1	18.8	5.7	8.1	ESE	2 Hr
3/20/2026 12:53	15.7	39.3	23.6	18.8	9.8	8.2	SE	2 Hr
3/20/2026 12:54	15.7	39.3	23.6	18.8	10.8	8.3	SE	2 Hr
3/20/2026 12:55	15.8	39.6	23.8	18.8	10.5	8.2	SE	2 Hr
3/20/2026 12:56	16.6	41.4	24.9	18.8	13.8	8.5	SE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 12:57	15.9	39.8	23.9	18.8	5.8	8.1	SE	2 Hr
3/20/2026 12:58	15.3	38.2	22.9	18.7	4.5	7.6	ESE	2 Hr
3/20/2026 12:59	15.8	39.6	23.8	18.7	9.6	7.7	SE	2 Hr
3/20/2026 13:00	16.4	41.0	24.6	18.7	16.6	8.0	SE	2 Hr
3/20/2026 13:01	16.1	40.3	24.2	18.7	12.8	8.5	SE	2 Hr
3/20/2026 13:02	15.9	39.8	23.9	19.1	14.1	8.7	SE	2 Hr
3/20/2026 13:03	16.0	40.1	24.1	19.1	14.1	9.4	SE	2 Hr
3/20/2026 13:04	15.6	39.0	23.4	19.1	14.0	10.1	SE	2 Hr
3/20/2026 13:05	16.2	40.5	24.3	19.1	12.2	10.5	SE	2 Hr
3/20/2026 13:06	17.2	43.0	25.8	19.1	10.1	10.9	SE	2 Hr
3/20/2026 13:07	16.1	40.3	24.2	19.5	8.9	11.1	SE	2 Hr
3/20/2026 13:08	15.1	37.8	22.7	19.5	9.8	11.1	SE	2 Hr
3/20/2026 13:09	15.7	39.2	23.5	19.5	9.0	11.0	SE	2 Hr
3/20/2026 13:10	15.9	39.7	23.9	19.5	11.3	11.1	SE	2 Hr
3/20/2026 13:11	15.0	37.6	22.6	19.5	7.3	10.6	SSE	2 Hr
3/20/2026 13:12	15.8	39.6	23.8	19.5	11.2	11.0	SE	2 Hr
3/20/2026 13:13	40.0	18.0	-22.0	19.1	8.8	11.2	SSE	2 Hr
3/20/2026 13:14	16.8	42.0	25.2	19.1	13.6	11.4	SE	2 Hr
3/20/2026 13:15	16.0	40.2	24.1	19.1	9.4	11.0	SE	2 Hr
3/20/2026 13:16	15.4	38.5	23.1	19.4	10.1	10.8	SE	2 Hr
3/20/2026 13:17	14.8	37.0	22.2	19.7	6.6	10.3	SE	2 Hr
3/20/2026 13:18	41.0	18.5	-22.5	19.3	9.1	9.9	SSE	2 Hr
3/20/2026 13:19	15.8	39.5	23.7	19.7	5.1	9.2	ESE	2 Hr
3/20/2026 13:20	15.0	37.5	22.5	19.7	9.2	9.1	SE	2 Hr
3/20/2026 13:21	15.4	38.7	23.2	19.7	14.5	9.4	SE	2 Hr
3/20/2026 13:22	15.2	38.1	22.9	19.7	12.3	9.6	SE	2 Hr
3/20/2026 13:23	14.9	37.4	22.4	19.7	11.9	9.8	SE	2 Hr
3/20/2026 13:24	15.2	37.9	22.8	19.7	12.7	10.0	SE	2 Hr
3/20/2026 13:25	15.8	39.6	23.8	19.6	10.0	9.9	SE	2 Hr
3/20/2026 13:26	15.7	39.2	23.5	19.6	6.9	9.9	SE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 13:27	16.0	40.0	24.0	19.6	10.7	9.8	ESE	2 Hr
3/20/2026 13:28	15.4	38.7	23.2	19.6	11.0	10.0	SE	2 Hr
3/20/2026 13:29	15.5	38.8	23.3	19.6	12.6	10.0	SE	2 Hr
3/20/2026 13:30	16.4	41.1	24.7	19.6	11.1	10.1	SE	2 Hr
3/20/2026 13:31	16.7	41.8	25.1	19.6	12.5	10.3	SE	2 Hr
3/20/2026 13:32	16.7	41.9	25.2	19.6	9.4	10.4	SE	2 Hr
3/20/2026 13:33	17.3	43.4	26.1	19.7	8.3	10.5	SE	2 Hr
3/20/2026 13:34	18.2	45.6	27.4	19.7	13.7	11.1	SE	2 Hr
3/20/2026 13:35	19.2	48.0	28.8	19.7	13.9	11.4	SE	2 Hr
3/20/2026 13:36	47.1	21.2	-25.9	19.3	12.8	11.2	SSE	2 Hr
3/20/2026 13:37	17.9	44.7	26.8	19.3	14.6	11.3	SE	2 Hr
3/20/2026 13:38	18.1	45.4	27.3	19.4	15.4	11.5	SSE	2 Hr
3/20/2026 13:39	18.2	45.6	27.4	19.8	16.8	11.8	SE	2 Hr
3/20/2026 13:40	18.1	45.2	27.2	19.8	16.7	12.2	SSE	2 Hr
3/20/2026 13:41	43.8	19.7	-24.1	19.4	16.3	12.7	SSE	2 Hr
3/20/2026 13:42	43.8	19.7	-24.0	19.0	15.6	13.1	SSE	2 Hr
3/20/2026 13:43	19.5	48.7	29.3	19.0	13.6	13.3	SE	2 Hr
3/20/2026 13:44	19.6	49.1	29.5	19.5	11.0	13.2	SSE	2 Hr
3/20/2026 13:45	17.1	42.8	25.7	19.5	12.0	13.2	SE	2 Hr
3/20/2026 13:46	39.7	17.9	-21.8	19.1	14.9	13.3	S	2 Hr
3/20/2026 13:47	38.3	17.2	-21.0	19.1	13.8	13.6	S	2 Hr
3/20/2026 13:48	40.0	18.0	-22.0	18.7	8.5	13.6	S	2 Hr
3/20/2026 13:49	40.4	18.2	-22.2	18.4	10.1	13.4	SSE	2 Hr
3/20/2026 13:50	15.5	38.9	23.4	18.3	14.1	13.4	SE	2 Hr
3/20/2026 13:51	16.0	40.0	24.0	18.3	15.8	13.6	SE	2 Hr
3/20/2026 13:52	16.3	40.8	24.5	18.4	14.8	13.6	SSE	2 Hr
3/20/2026 13:53	16.3	40.8	24.5	18.4	13.0	13.5	SE	2 Hr
3/20/2026 13:54	15.7	39.3	23.6	18.4	11.7	13.1	SE	2 Hr
3/20/2026 13:55	15.8	39.7	23.8	18.7	13.7	12.8	SE	2 Hr
3/20/2026 13:56	15.9	39.8	23.9	19.1	16.9	12.8	SE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 13:57	15.6	38.9	23.4	19.1	17.1	12.9	SE	2 Hr
3/20/2026 13:58	15.5	38.8	23.3	19.1	15.3	13.0	SE	2 Hr
3/20/2026 13:59	14.9	37.4	22.5	19.1	14.0	13.2	SE	2 Hr
3/20/2026 14:00	14.8	36.9	22.2	19.1	10.3	13.0	ESE	2 Hr
3/20/2026 14:01	15.4	38.5	23.1	19.1	13.7	13.0	SE	2 Hr
3/20/2026 14:02	14.9	37.4	22.5	19.1	12.3	13.0	SE	2 Hr
3/20/2026 14:03	15.6	39.1	23.5	19.5	11.2	13.4	SE	2 Hr
3/20/2026 14:04	15.6	39.1	23.5	19.9	11.2	13.5	ESE	2 Hr
3/20/2026 14:05	15.7	39.2	23.5	19.9	10.9	13.3	ESE	2 Hr
3/20/2026 14:06	15.1	37.8	22.7	19.9	10.6	12.9	SE	2 Hr
3/20/2026 14:07	15.2	38.0	22.8	19.9	13.5	12.9	SE	2 Hr
3/20/2026 14:08	15.6	39.2	23.5	19.9	12.8	12.9	SE	2 Hr
3/20/2026 14:09	16.1	40.3	24.2	19.9	16.1	13.2	SE	2 Hr
3/20/2026 14:10	16.1	40.4	24.3	19.9	18.3	13.5	SE	2 Hr
3/20/2026 14:11	16.3	40.8	24.5	19.9	14.1	13.3	SSE	2 Hr
3/20/2026 14:12	16.3	40.7	24.4	19.9	16.0	13.2	SE	2 Hr
3/20/2026 14:13	16.6	41.6	25.0	19.9	12.8	13.0	SE	2 Hr
3/20/2026 14:14	16.1	40.2	24.2	19.9	9.8	12.7	ESE	2 Hr
3/20/2026 14:15	16.6	41.4	24.9	19.9	11.1	12.8	SSE	2 Hr
3/20/2026 14:16	45.4	20.4	-24.9	19.5	11.1	12.5	SSE	2 Hr
3/20/2026 14:17	16.0	40.2	24.1	19.5	12.1	12.5	SE	2 Hr
3/20/2026 14:18	16.4	40.9	24.6	19.6	15.9	12.8	SE	2 Hr
3/20/2026 14:19	16.2	40.7	24.4	19.6	14.6	13.1	SE	2 Hr
3/20/2026 14:20	15.8	39.6	23.8	19.6	14.9	13.4	SE	2 Hr
3/20/2026 14:21	16.0	40.0	24.0	19.6	11.1	13.4	SE	2 Hr
3/20/2026 14:22	16.7	41.7	25.1	19.6	13.1	13.4	SE	2 Hr
3/20/2026 14:23	17.3	43.4	26.0	19.6	14.1	13.5	SE	2 Hr
3/20/2026 14:24	44.4	20.0	-24.4	19.2	12.9	13.1	S	2 Hr
3/20/2026 14:25	17.1	42.7	25.6	19.1	13.7	12.8	SE	2 Hr
3/20/2026 14:26	16.0	40.1	24.1	19.1	12.0	12.7	SE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 14:27	42.9	19.3	-23.6	18.7	15.3	12.6	SSE	2 Hr
3/20/2026 14:28	43.9	19.8	-24.1	18.3	16.3	12.8	SSE	2 Hr
3/20/2026 14:29	17.3	43.4	26.1	18.3	18.4	13.4	SE	2 Hr
3/20/2026 14:30	41.4	18.7	-22.8	17.9	18.5	13.8	S	2 Hr
3/20/2026 14:31	16.1	40.2	24.2	17.9	12.4	13.9	SSE	2 Hr
3/20/2026 14:32	16.4	40.9	24.6	17.9	15.0	14.1	SE	2 Hr
3/20/2026 14:33	16.3	40.8	24.5	18.0	13.9	13.9	SE	2 Hr
3/20/2026 14:34	16.1	40.4	24.3	18.0	13.4	13.8	SE	2 Hr
3/20/2026 14:35	16.4	41.0	24.6	18.0	10.3	13.6	SE	2 Hr
3/20/2026 14:36	16.3	40.8	24.5	18.0	17.4	14.0	SE	2 Hr
3/20/2026 14:37	16.7	41.9	25.2	18.0	15.9	14.2	SE	2 Hr
3/20/2026 14:38	41.2	18.6	-22.7	17.6	13.5	14.1	SSE	2 Hr
3/20/2026 14:39	15.9	39.8	23.9	17.6	12.9	14.2	SE	2 Hr
3/20/2026 14:40	16.1	40.4	24.3	17.6	11.5	14.0	SE	2 Hr
3/20/2026 14:41	16.2	40.5	24.3	17.6	15.6	14.2	SE	2 Hr
3/20/2026 14:42	17.6	44.1	26.5	17.6	13.9	14.2	SSE	2 Hr
3/20/2026 14:43	48.1	21.7	-26.4	17.2	14.7	14.0	SSE	2 Hr
3/20/2026 14:44	21.4	53.6	32.2	17.3	12.3	13.7	SE	2 Hr
3/20/2026 14:45	20.3	50.9	30.5	17.3	12.5	13.4	SE	2 Hr
3/20/2026 14:46	18.1	45.4	27.2	17.3	11.5	13.3	ESE	2 Hr
3/20/2026 14:47	15.7	39.3	23.6	17.3	8.2	12.8	SE	2 Hr
3/20/2026 14:48	40.1	18.1	-22.0	17.3	9.8	12.6	SSE	2 Hr
3/20/2026 14:49	45.0	20.3	-24.8	16.9	17.7	12.6	S	2 Hr
3/20/2026 14:50	45.0	20.3	-24.8	16.9	11.3	12.7	SSE	2 Hr
3/20/2026 14:51	17.5	43.9	26.3	16.9	17.4	12.6	SE	2 Hr
3/20/2026 14:52	17.3	43.2	25.9	16.9	13.6	12.5	SE	2 Hr
3/20/2026 14:53	18.3	45.8	27.5	17.0	16.1	12.7	SSE	2 Hr
3/20/2026 14:54	18.2	45.6	27.4	17.0	17.8	13.1	SE	2 Hr
3/20/2026 14:55	16.7	41.8	25.1	17.0	16.0	13.4	SE	2 Hr
3/20/2026 14:56	16.5	41.4	24.9	17.0	13.8	13.3	SSE	2 Hr

Date/Time	Upwind PM ₁₀ (µg/m ³)	Downwind PM ₁₀ (µg/m ³)	Instantaneous Contribution (µg/m ³)	Avg. Contribution PM ₁₀ (µg/m ³)	Wind Speed (mph)	Wind Speed 15 min Avg. (mph)	Wind Direction	Averaging Mode
3/20/2026 14:57	17.4	43.7	26.2	17.0	16.5	13.5	SE	2 Hr
3/20/2026 14:58	16.6	41.4	24.9	17.0	15.1	13.5	SE	2 Hr
3/20/2026 14:59	17.3	43.3	26.0	17.1	15.5	13.7	SE	2 Hr

PM₁₀ Air Monitoring Data by Location: 1 Min Data

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 07:00	11.8	13.3	29.6	SE	12.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:01	11.6	13.1	29.0	SE	8.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:02	11.6	13.1	29.1	NNE	6.0	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:03	11.3	12.7	28.2	E	3.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:04	12.0	13.5	30.0	SSE	8.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:05	12.1	13.6	30.3	NE	6.4	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:06	12.2	13.8	30.6	SE	8.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:07	12.6	14.2	31.5	SE	8.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:08	12.2	13.8	30.7	ESE	9.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 07:09	12.8	14.4	32.1	SE	8.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:10	12.3	13.9	30.9	SE	9.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:11	12.7	14.3	31.7	SE	7.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:12	12.2	13.8	30.7	ENE	5.5	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:13	12.1	13.6	30.3	SE	8.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:14	11.9	13.4	29.8	E	7.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:15	12.1	13.6	30.2	SE	6.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:16	12.0	13.5	29.9	SE	6.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:17	12.6	14.2	31.6	SE	6.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:18	12.4	14.0	31.0	E	6.3	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							NorthWest - Entrance (PM10)
03/20/2026 07:19	12.3	13.9	30.8	SSE	5.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:20	11.5	13.0	28.8	ESE	5.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:21	11.8	13.4	29.7	SSE	6.6	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 07:22	12.4	14.0	31.0	S	7.2	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 07:23	12.1	13.7	30.4	ESE	7.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:24	11.8	13.4	29.6	ENE	5.2	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:25	11.9	13.5	29.9	SE	6.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:26	11.9	13.4	29.8	SW	5.9	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:27	12.5	14.1	31.3	SE	6.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 07:28	12.4	14.0	31.0	ESE	5.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:29	11.5	13.0	28.9	NW	3.4	NorthWest - Entrance (PM10)	NorthEast - Parking (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:30	11.9	13.5	29.9	S	5.9	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 07:31	12.4	14.0	31.1	SSW	5.1	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:32	12.4	14.0	31.0	S	5.4	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 07:33	12.9	14.5	32.3	ENE	4.4	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:34	12.9	14.5	32.2	W	2.6	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:35	12.5	14.1	31.2	W	4.1	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:36	11.8	13.3	29.5	NNE	4.0	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:37	11.6	13.1	29.1	ESE	5.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 07:38	11.9	13.4	29.8	ENE	5.6	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:39	12.2	13.7	30.5	ESE	8.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:40	12.2	13.8	30.6	SE	7.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:41	11.8	13.3	29.6	NE	4.7	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:42	11.5	13.0	28.9	ENE	4.4	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:43	11.8	13.3	29.5	ESE	6.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:44	11.7	13.2	29.2	E	6.9	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:45	11.4	12.8	28.5	SSW	4.5	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:46	12.1	13.6	30.2	SSE	7.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:47	12.0	13.5	30.0	SE	6.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 07:48	11.8	13.3	29.5	ENE	8.0	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 07:49	11.9	13.4	29.8	ESE	9.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:50	11.8	13.3	29.5	ESE	11.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:51	12.2	13.8	30.6	SE	7.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:52	11.3	12.8	28.3	ESE	7.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:53	11.4	12.9	28.6	ESE	6.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:54	12.0	13.6	30.1	SE	8.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:55	12.3	13.8	30.7	SE	5.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:56	12.5	14.1	31.3	SSE	5.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 07:57	12.8	14.4	31.9	SSE	5.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:58	12.6	14.2	31.5	ESE	6.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 07:59	12.0	13.6	30.1	ESE	9.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:00	12.0	13.5	30.0	SE	10.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:01	11.6	13.1	29.1	SE	9.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:02	11.2	12.7	28.1	E	7.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:03	11.2	12.6	28.1	SE	6.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:04	11.5	13.0	28.8	SSE	8.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:05	11.7	13.2	29.3	SE	7.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:06	11.6	13.1	29.1	SSE	6.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 08:07	12.1	13.6	30.3	SE	9.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:08	12.2	13.7	30.5	ESE	7.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:09	11.4	12.8	28.4	ENE	3.8	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 08:10	11.4	12.8	28.5	ESE	5.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:11	12.3	13.8	30.7	SSE	4.6	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 08:12	11.7	13.2	29.3	ENE	5.3	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 08:13	11.7	13.2	29.3	E	6.0	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 08:14	11.8	13.3	29.4	SE	6.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:15	11.9	13.5	29.9	SSE	9.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 08:16	11.5	13.0	28.8	SSW	6.6	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 08:17	11.8	13.3	29.6	S	5.9	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 08:18	11.5	13.0	28.8	ESE	8.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:19	11.7	13.2	29.3	SE	8.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:20	12.2	13.7	30.5	ESE	5.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:21	11.5	12.9	28.7	NE	4.5	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 08:22	11.7	13.2	29.3	E	7.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:23	11.9	13.5	29.9	SE	5.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:24	11.7	13.2	29.3	ESE	4.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:25	12.5	14.0	31.2	SE	7.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 08:26	12.9	14.5	32.2	E	5.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:27	12.5	14.1	31.3	SE	6.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:28	12.7	14.3	31.8	SSE	8.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:29	12.3	13.9	30.9	SE	9.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:30	11.9	13.5	29.9	ESE	5.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:31	11.6	13.1	29.0	SE	5.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:32	12.2	13.8	30.6	SSE	6.2	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 08:33	12.9	14.6	32.3	SE	7.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:34	13.1	14.8	32.8	SE	7.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 08:35	12.2	13.8	30.6	SSE	4.6	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 08:36	12.7	14.3	31.8	SE	5.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:37	12.7	14.3	31.7	ESE	5.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:38	12.2	13.8	30.6	ENE	4.5	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 08:39	12.0	13.5	29.9	NNW	3.9	NorthWest - Entrance (PM10)	SouthWest - Public Road (PM10); NorthEast - Parking (PM10)
03/20/2026 08:40	12.4	14.0	31.1	ESE	6.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:41	12.2	13.7	30.4	ENE	4.8	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 08:42	12.5	14.1	31.3	S	5.0	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 08:43	11.9	13.4	29.8	SSE	4.7	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 08:44	12.2	13.8	30.6	SSE	6.0	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							NorthEast - Parking (PM10)
03/20/2026 08:45	12.0	13.5	30.0	ESE	7.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:46	11.4	12.8	28.5	NE	5.4	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 08:47	11.6	13.0	29.0	ENE	3.4	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 08:48	12.5	14.1	31.2	ESE	5.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:49	13.2	14.9	33.1	ESE	6.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:50	12.5	14.1	31.2	SSE	3.8	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 08:51	11.9	13.4	29.8	WNW	3.0	NorthWest - Entrance (PM10)	NorthEast - Parking (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:52	12.2	13.7	30.4	ESE	5.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:53	12.0	13.6	30.1	NE	4.2	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 08:54	11.6	13.1	29.0	SE	6.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:55	12.0	13.6	30.1	SE	6.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:56	12.0	13.6	30.1	SSE	4.8	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 08:57	11.4	12.9	28.6	SSE	3.8	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 08:58	11.6	13.1	29.1	NW	2.9	NorthWest - Entrance (PM10)	NorthEast - Parking (PM10); SouthWest - Public Road (PM10)
03/20/2026 08:59	11.7	13.2	29.2	ESE	6.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:00	11.3	12.8	28.4	SE	4.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:01	12.1	13.7	30.3	SSE	3.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:02	11.8	13.3	29.6	SE	5.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:03	11.5	13.0	28.9	ENE	3.6	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							NorthWest - Entrance (PM10)
03/20/2026 09:04	11.2	12.6	28.0	NE	2.8	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:05	12.6	14.2	31.6	SSE	3.8	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 09:06	12.9	14.5	32.2	E	5.4	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:07	12.5	14.1	31.3	ESE	6.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:08	12.8	14.4	32.0	E	4.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:09	12.8	14.4	31.9	E	7.5	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:10	11.7	13.2	29.4	NE	4.8	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:11	11.3	12.8	28.3	ENE	4.5	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:12	12.0	13.5	29.9	E	5.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 09:13	11.2	12.6	27.9	E	3.8	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:14	11.5	13.0	28.8	SSE	4.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:15	11.9	13.4	29.7	SSE	5.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:16	11.6	13.1	29.2	ESE	5.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:17	12.6	14.2	31.5	SE	5.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:18	11.8	13.3	29.5	NW	3.0	NorthWest - Entrance (PM10)	NorthEast - Parking (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:19	12.1	13.7	30.4	SW	3.1	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:20	12.0	13.5	30.1	NE	3.1	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:21	11.6	13.1	29.2	SE	4.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:22	11.9	13.4	29.8	SW	2.9	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 09:23	12.4	14.0	31.1	S	6.1	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 09:24	11.8	13.4	29.7	NNE	3.2	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:25	11.4	12.9	28.7	S	4.3	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 09:26	11.7	13.2	29.3	ESE	4.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:27	11.0	12.4	27.6	ESE	3.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:28	11.3	12.8	28.3	ENE	4.6	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:29	11.1	12.5	27.7	SSE	3.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:30	11.5	13.0	28.7	SSE	3.1	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 09:31	11.8	13.3	29.5	SSW	3.1	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:32	11.3	12.8	28.4	SSE	3.8	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							NorthEast - Parking (PM10)
03/20/2026 09:33	11.8	13.3	29.5	WSW	4.4	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:34	11.9	13.4	29.8	N	3.0	NorthWest - Entrance (PM10)	SouthWest - Public Road (PM10); NorthEast - Parking (PM10)
03/20/2026 09:35	11.6	13.0	28.9	WSW	3.8	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:36	12.1	13.6	30.3	SSW	4.8	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:37	11.5	13.0	28.8	NNW	2.5	NorthWest - Entrance (PM10)	SouthWest - Public Road (PM10); NorthEast - Parking (PM10)
03/20/2026 09:38	11.7	13.2	29.3	WSW	3.8	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:39	12.2	13.8	30.6	E	4.9	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:40	12.1	13.6	30.3	ESE	6.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:41	12.8	14.5	32.2	ESE	6.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:42	12.5	14.2	31.4	SE	5.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 09:43	13.0	14.7	32.5	ESE	7.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:44	13.4	15.2	33.6	E	6.3	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:45	13.3	15.0	33.3	E	4.2	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:46	13.3	15.0	33.3	E	6.8	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:47	13.2	14.8	32.9	ESE	6.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:48	12.9	14.6	32.4	NE	5.3	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:49	12.7	14.3	31.7	S	7.1	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 09:50	11.9	13.4	29.8	ENE	5.8	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:51	11.9	13.4	29.8	NNE	3.9	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:52	12.3	13.9	30.8	SSE	5.1	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							NorthEast - Parking (PM10)
03/20/2026 09:53	13.0	14.6	32.5	SSE	6.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:54	12.9	14.6	32.4	ESE	4.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:55	12.7	14.3	31.8	NNE	4.2	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:56	12.6	14.2	31.4	W	2.6	NorthWest - Entrance (PM10)	NorthEast - Parking (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:57	12.8	14.4	32.1	SE	6.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 09:58	12.5	14.1	31.2	ENE	3.3	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 09:59	12.4	14.0	31.0	WNW	2.6	NorthWest - Entrance (PM10)	NorthEast - Parking (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:00	12.9	14.6	32.3	S	4.0	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 10:01	12.5	14.1	31.3	WSW	2.3	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 10:02	12.4	14.0	31.1	W	2.4	NorthWest - Entrance (PM10)	NorthEast - Parking (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:03	12.4	14.0	31.1	SW	2.0	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 10:04	12.7	14.4	31.9	SSW	5.4	SouthWest - Public Road (PM10)	NorthEast - Parking (PM10); NorthWest - Entrance (PM10)
03/20/2026 10:05	12.8	14.4	32.1	NE	4.3	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 10:06	11.8	13.3	29.5	ENE	4.8	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 10:07	11.8	13.4	29.6	ESE	6.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:08	12.0	13.5	30.1	ESE	5.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:09	12.3	13.9	30.8	ESE	6.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:10	11.9	13.4	29.8	ESE	7.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:11	12.2	13.8	30.6	ESE	6.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 10:12	11.9	13.4	29.8	ESE	7.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:13	11.3	12.8	28.4	E	5.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:14	21.6	24.4	54.2	ESE	4.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:15	18.0	20.3	45.0	ESE	7.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:16	17.6	19.9	44.2	SE	10.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:17	17.9	20.2	44.8	SE	15.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:18	17.5	19.8	43.9	SE	12.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:19	17.8	20.0	44.5	SE	8.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:20	17.6	19.9	44.2	SE	8.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:21	17.4	19.6	43.5	SE	5.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 10:22	20.8	23.5	52.2	SE	8.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:23	19.1	21.5	47.8	SE	10.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:24	17.8	20.1	44.6	SE	8.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:25	18.0	20.3	45.0	S	8.5	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 10:26	18.2	20.6	45.7	ESE	9.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:27	18.1	20.4	45.4	SSE	6.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:28	18.0	20.2	45.0	S	6.6	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 10:29	17.4	19.6	43.5	ESE	6.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:30	16.6	18.7	41.6	ESE	5.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 10:31	18.0	20.2	45.0	SE	10.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:32	17.2	19.4	43.1	SE	8.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:33	16.5	18.6	41.3	SE	7.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:34	16.8	19.0	42.1	SSE	5.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:35	16.8	18.9	42.0	SSE	6.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:36	16.5	18.6	41.3	SE	12.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:37	16.9	19.0	42.2	SE	10.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:38	16.7	18.9	41.9	SE	14.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:39	16.4	18.5	41.0	SE	9.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:40	16.0	18.0	40.0	SE	8.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 10:41	16.3	18.4	40.8	SE	10.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:42	16.4	18.5	41.1	SSE	9.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:43	16.5	18.6	41.2	SSE	6.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:44	16.0	18.1	40.2	SSE	9.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:45	16.8	18.9	42.0	SE	15.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:46	16.8	18.9	42.0	SSE	9.3	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 10:47	16.8	19.0	42.2	SSE	11.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:48	16.4	18.5	41.1	SSE	11.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:49	16.8	19.0	42.2	SSE	14.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 10:50	15.8	17.9	39.7	SE	9.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:51	16.3	18.4	40.9	SE	10.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:52	16.0	18.0	40.0	SE	10.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:53	16.0	18.1	40.2	SE	12.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:54	16.1	18.2	40.3	SE	13.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:55	16.5	18.6	41.4	SSE	11.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:56	16.4	18.5	41.1	SE	10.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:57	16.0	18.0	39.9	SE	9.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:58	16.6	18.7	41.4	SE	12.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 10:59	16.2	18.2	40.5	SE	12.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 11:00	16.8	19.0	42.1	SE	10.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:01	17.3	19.5	43.3	SSE	11.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:02	17.6	19.8	44.1	SSE	13.1	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 11:03	16.6	18.7	41.5	SE	12.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:04	16.6	18.8	41.6	SE	9.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:05	16.1	18.2	40.4	SE	8.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:06	15.5	17.5	38.9	SE	8.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:07	15.2	17.1	37.9	SSE	6.0	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 11:08	15.6	17.6	39.0	SE	7.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 11:09	15.5	17.5	38.9	SE	8.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:10	16.1	18.1	40.3	SE	10.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:11	16.3	18.4	40.9	SE	8.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:12	15.4	17.4	38.6	SE	11.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:13	16.0	18.1	40.1	SE	10.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:14	16.2	18.3	40.7	SSE	11.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:15	15.4	17.4	38.7	SSE	12.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:16	14.8	16.7	37.1	SSE	16.5	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10) NorthWest - Entrance (PM10)
03/20/2026 11:17	14.6	16.4	36.5	SSE	13.5	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 11:18	15.1	17.0	37.7	SSE	11.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 11:19	15.6	17.6	39.0	SSE	9.3	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 11:20	15.6	17.6	39.1	SE	9.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:21	15.7	17.7	39.3	SE	12.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:22	16.5	18.6	41.3	SE	15.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:23	16.6	18.8	41.7	SE	13.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:24	16.6	18.7	41.6	SSE	14.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:25	16.8	18.9	42.0	SE	13.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:26	16.5	18.6	41.4	SSE	11.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:27	16.4	18.5	41.0	SE	11.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 11:28	15.7	17.7	39.4	SSE	14.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:29	16.1	18.2	40.4	SE	11.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:30	16.3	18.4	40.9	SE	11.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:31	16.0	18.1	40.1	SE	12.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:32	16.0	18.0	40.1	SE	11.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:33	16.1	18.2	40.3	SE	10.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:34	16.1	18.2	40.3	SE	14.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:35	16.1	18.2	40.3	SE	13.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:36	15.9	18.0	39.9	SSE	12.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:37	16.0	18.0	40.1	SE	13.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 11:38	16.0	18.1	40.2	SSE	17.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:39	16.5	18.6	41.3	SSE	14.7	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 11:40	16.3	18.4	40.8	SE	14.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:41	16.1	18.1	40.3	SE	13.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:42	16.1	18.2	40.4	SE	12.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:43	16.0	18.0	40.0	SE	15.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:44	15.6	17.6	39.0	SSE	15.5	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 11:45	14.6	16.5	36.6	SSE	12.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:46	14.5	16.4	36.4	SE	13.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 11:47	15.1	17.0	37.8	SSE	15.6	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 11:48	15.7	17.7	39.3	SE	18.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:49	16.3	18.3	40.7	SSE	17.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:50	16.4	18.5	41.1	SE	14.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:51	15.9	18.0	39.9	SSE	10.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:52	15.6	17.5	38.9	SE	10.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:53	15.6	17.7	39.2	SSE	12.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:54	15.4	17.4	38.5	SE	10.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:55	15.9	18.0	39.9	S	12.4	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 11:56	16.1	18.2	40.4	SSE	8.3	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							NorthEast - Parking (PM10)
03/20/2026 11:57	15.1	17.0	37.8	SE	8.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 11:58	14.6	16.5	36.7	E	6.7	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 11:59	15.5	17.4	38.7	SE	8.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:00	15.2	17.2	38.1	SE	4.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:01	15.2	17.1	38.0	ESE	6.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:02	17.4	19.7	43.7	SE	9.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:03	17.0	19.2	42.6	SSE	8.9	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 12:04	16.9	19.1	42.3	S	13.1	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 12:05	15.9	17.9	39.8	SE	14.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 12:06	15.2	17.2	38.1	SSE	12.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:07	15.0	16.9	37.6	SE	11.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:08	15.0	16.9	37.5	SE	8.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:09	15.4	17.3	38.5	SE	7.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:10	15.0	16.9	37.5	ESE	7.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:11	16.0	18.0	40.0	SE	11.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:12	15.8	17.9	39.7	SE	13.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:13	15.9	18.0	39.9	SE	13.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:14	16.1	18.2	40.3	SE	13.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:15	16.0	18.0	40.0	SE	14.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 12:16	16.0	18.1	40.2	SE	12.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:17	15.1	17.0	37.8	SE	13.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:18	15.4	17.4	38.6	SE	11.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:19	14.8	16.6	37.0	SE	9.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:20	15.2	17.2	38.2	SE	10.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:21	15.6	17.6	39.1	SE	11.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:22	16.0	18.1	40.2	SE	13.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:23	15.9	17.9	39.7	SE	12.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:24	17.1	19.2	42.7	SE	13.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 12:25	22.4	25.3	56.1	SE	13.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:26	17.1	19.3	42.9	SSE	12.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:27	17.1	19.3	42.9	SE	12.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:28	16.6	18.8	41.7	SE	12.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:29	16.1	18.2	40.4	SE	13.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:30	15.5	17.5	38.8	SE	12.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:31	15.7	17.7	39.2	SE	11.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:32	15.2	17.2	38.1	SE	6.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:33	15.5	17.5	38.8	SE	9.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:34	15.7	17.7	39.2	SE	7.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 12:35	15.3	17.3	38.4	SE	8.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:36	15.0	16.9	37.6	SE	10.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:37	15.4	17.4	38.7	SE	9.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:38	15.9	17.9	39.8	SE	8.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:39	15.7	17.7	39.4	SE	10.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:40	16.3	18.4	40.9	SE	12.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:41	16.2	18.3	40.7	SE	9.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:42	16.1	18.2	40.4	SE	11.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:43	16.2	18.3	40.6	SE	10.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 12:44	15.8	17.8	39.5	SE	9.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:45	16.4	18.4	40.9	SE	11.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:46	16.4	18.5	41.0	ESE	6.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:47	16.8	19.0	42.1	SE	10.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:48	15.8	17.8	39.6	SSE	4.6	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 12:49	15.6	17.6	39.0	SE	3.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:50	15.9	17.9	39.7	SSE	6.1	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 12:51	16.6	18.7	41.5	E	6.7	NorthEast - Parking (PM10)	SouthWest - Public Road (PM10); NorthWest - Entrance (PM10)
03/20/2026 12:52	16.0	18.1	40.1	ESE	5.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:53	15.7	17.7	39.3	SE	9.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 12:54	15.7	17.7	39.3	SE	10.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:55	15.8	17.8	39.6	SE	10.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:56	16.6	18.7	41.4	SE	13.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:57	15.9	17.9	39.8	SE	5.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:58	15.3	17.2	38.2	ESE	4.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 12:59	15.8	17.8	39.6	SE	9.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:00	16.4	18.5	41.0	SE	16.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:01	16.1	18.2	40.3	SE	12.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:02	15.9	17.9	39.8	SE	14.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 13:03	16.0	18.1	40.1	SE	14.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:04	15.6	17.6	39.0	SE	14.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:05	16.2	18.3	40.5	SE	12.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:06	17.2	19.4	43.0	SE	10.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:07	16.1	18.2	40.3	SE	8.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:08	15.1	17.0	37.8	SE	9.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:09	15.6	17.7	39.2	SE	9.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:10	15.9	17.9	39.7	SE	11.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:11	15.0	16.9	37.6	SSE	7.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:12	15.8	17.8	39.6	SE	11.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 13:13	16.0	18.0	40.0	SSE	8.8	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 13:14	16.8	18.9	42.0	SE	13.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:15	16.0	18.1	40.2	SE	9.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:16	15.4	17.4	38.5	SE	10.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:17	14.8	16.7	37.0	SE	6.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:18	16.4	18.5	41.0	SSE	9.1	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 13:19	15.8	17.8	39.5	ESE	5.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:20	15.0	16.9	37.5	SE	9.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:21	15.4	17.4	38.7	SE	14.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 13:22	15.2	17.2	38.1	SE	12.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:23	14.9	16.8	37.4	SE	11.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:24	15.2	17.1	37.9	SE	12.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:25	15.8	17.8	39.6	SE	10.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:26	15.6	17.7	39.2	SE	6.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:27	16.0	18.0	40.0	ESE	10.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:28	15.4	17.4	38.7	SE	11.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:29	15.5	17.5	38.8	SE	12.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:30	16.4	18.5	41.1	SE	11.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:31	16.7	18.8	41.8	SE	12.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 13:32	16.7	18.9	41.9	SE	9.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:33	17.3	19.5	43.4	SE	8.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:34	18.2	20.6	45.6	SE	13.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:35	19.2	21.6	48.0	SE	13.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:36	18.8	21.2	47.2	SSE	12.8	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 13:37	17.8	20.1	44.7	SE	14.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:38	18.1	20.5	45.4	SSE	15.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:39	18.2	20.6	45.6	SE	16.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:40	18.1	20.4	45.2	SSE	16.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 13:41	17.5	19.7	43.8	SSE	16.3	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 13:42	17.5	19.7	43.8	SSE	15.6	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 13:43	19.5	22.0	48.7	SE	13.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:44	19.6	22.1	49.1	SSE	11.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:45	17.1	19.3	42.8	SE	12.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:46	15.8	17.9	39.7	S	14.9	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 13:47	15.3	17.2	38.3	S	13.8	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 13:48	16.0	18.0	40.0	S	8.5	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 13:49	16.2	18.2	40.4	SSE	10.1	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 13:50	15.5	17.5	38.9	SE	14.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 13:51	16.0	18.0	40.0	SE	15.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:52	16.3	18.4	40.8	SSE	14.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:53	16.3	18.4	40.8	SE	13.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:54	15.7	17.7	39.3	SE	11.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:55	15.8	17.9	39.7	SE	13.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:56	15.9	17.9	39.8	SE	16.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:57	15.6	17.5	38.9	SE	17.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:58	15.5	17.5	38.8	SE	15.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 13:59	15.0	16.9	37.4	SE	14.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 14:00	14.8	16.6	36.9	ESE	10.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:01	15.4	17.4	38.5	SE	13.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:02	15.0	16.9	37.4	SE	12.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:03	15.6	17.6	39.1	SE	11.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:04	15.6	17.6	39.1	ESE	11.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:05	15.6	17.7	39.2	ESE	10.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:06	15.1	17.0	37.8	SE	10.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:07	15.2	17.1	38.0	SE	13.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:08	15.6	17.6	39.2	SE	12.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:09	16.1	18.2	40.3	SE	16.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 14:10	16.2	18.2	40.4	SE	18.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:11	16.3	18.4	40.8	SSE	14.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:12	16.2	18.3	40.7	SE	16.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:13	16.6	18.7	41.6	SE	12.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:14	16.1	18.1	40.2	ESE	9.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:15	16.6	18.7	41.4	SSE	11.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:16	18.1	20.4	45.4	SSE	11.1	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 14:17	16.0	18.1	40.2	SE	12.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:18	16.4	18.4	40.9	SE	15.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 14:19	16.2	18.3	40.7	SE	14.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:20	15.8	17.8	39.6	SE	14.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:21	16.0	18.0	40.0	SE	11.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:22	16.7	18.8	41.7	SE	13.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:23	17.3	19.5	43.4	SE	14.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:24	17.7	20.0	44.4	S	12.9	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 14:25	17.0	19.2	42.7	SE	13.7	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:26	16.0	18.1	40.1	SE	12.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:27	17.1	19.3	42.9	SSE	15.3	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 14:28	17.5	19.8	43.9	SSE	16.3	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							NorthEast - Parking (PM10)
03/20/2026 14:29	17.3	19.5	43.4	SE	18.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:30	16.6	18.7	41.4	S	18.5	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 14:31	16.1	18.1	40.2	SSE	12.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:32	16.4	18.4	40.9	SE	15.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:33	16.3	18.4	40.8	SE	13.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:34	16.2	18.2	40.4	SE	13.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:35	16.4	18.4	41.0	SE	10.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:36	16.3	18.4	40.8	SE	17.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:37	16.7	18.9	41.9	SE	15.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 14:38	16.5	18.6	41.2	SSE	13.5	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 14:39	15.9	17.9	39.8	SE	12.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:40	16.1	18.2	40.4	SE	11.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:41	16.2	18.2	40.5	SE	15.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:42	17.6	19.9	44.1	SSE	13.9	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:43	19.2	21.7	48.1	SSE	14.7	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 14:44	21.4	24.2	53.6	SE	12.3	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:45	20.3	22.9	50.8	SE	12.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:46	18.1	20.4	45.4	ESE	11.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:47	15.7	17.7	39.3	SE	8.2	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10);

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
							SouthWest - Public Road (PM10)
03/20/2026 14:48	16.0	18.1	40.1	SSE	9.8	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 14:49	18.0	20.3	45.0	S	17.7	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 14:50	18.0	20.3	45.0	SSE	11.3	SouthWest - Public Road (PM10)	NorthWest - Entrance (PM10); NorthEast - Parking (PM10)
03/20/2026 14:51	17.5	19.8	43.9	SE	17.4	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:52	17.2	19.5	43.2	SE	13.6	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:53	18.3	20.6	45.8	SSE	16.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:54	18.2	20.6	45.6	SE	17.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:55	16.7	18.8	41.8	SE	16.0	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:56	16.5	18.6	41.4	SSE	13.8	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Date/Time	NorthEast - Parking PM ₁₀ (µg/m ³)	NorthWest - Entrance PM ₁₀ (µg/m ³)	SouthWest - Public Road PM ₁₀ (µg/m ³)	Wind Direction	Wind Speed	Upwind	Downwind
03/20/2026 14:57	17.4	19.7	43.7	SE	16.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:58	16.6	18.7	41.4	SE	15.1	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)
03/20/2026 14:59	17.3	19.5	43.3	SE	15.5	NorthEast - Parking (PM10)	NorthWest - Entrance (PM10); SouthWest - Public Road (PM10)

Appendix G

RULE 1466

Control of Particulate Emissions from Soils with Toxic Air Contaminants

(a) Purpose 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 earth-moving activities, including, dredging, excavating, grading, earth-cutting and filling, loading, unloading, 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).

(b) Applicability

(1) This rule shall apply to any owner or operator conducting earth-moving activities of soil with applicable toxic air contaminant(s) as defined in paragraph (c)(16) 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; or
- (E)** The Executive Officer pursuant to subdivision (i).

(2) This rule shall not apply to:

- (A)** Earth-moving activities of soil with applicable toxic air contaminant(s) of less than 50 cubic yards; or
- (B)** Removal of soil for sampling purposes.

(c) Definitions

(1) ADEQUATELY WET means the condition of being sufficiently mixed or penetrated with water to prevent the release of particulates or visible emissions. The process by which an adequately wet condition

is achieved is by using a dispenser or water hose with a nozzle that permits the use of a fine, low-pressure spray or mist.

(2) ADJACENT ATHLETIC AREA means any outdoor athletic field or park where youth organized sports occur that is in physical contact or separated solely by a public roadway or other public right-of-way to a SCHOOL.

(3) ADJOINING means in physical contact with or separated solely by a public roadway or other public right-of-way.

(4) CHEMICAL STABILIZERS means any non-toxic chemicals that are used to bind soil together to control FUGITIVE DUST emissions.

(5) 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 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.

(6) DUST SUPPRESSANTS means water or hygroscopic materials, other than CHEMICAL STABILIZERS, that are used as a treatment material to reduce FUGITIVE DUST emissions.

(7) EARTH-MOVING ACTIVITIES 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) is being moved or uncovered, including: dredging, excavating, grading, earth-cutting and filling operations, loading, unloading, handling, mechanized land clearing, treating, transferring, removing, and adding to or removing from STOCKPILES, and vehicular movement of equipment associated with these activities. EARTH- MOVING ACTIVITIES do not include vehicular movement from: delivery vehicles, passenger vehicles transporting personnel to and from the site, vehicles used for administrative purposes, vehicles transporting personnel for the purposes of soil sampling and conducting ambient PM₁₀ monitoring requirements, watering trucks, and equipment used exclusively on a portion(s) of the site where there is no SOIL WITH APPLICABLE TOXIC AIR CONTAMINANT(S).

(8) FUGITIVE DUST means, for the purpose of this rule, any solid particulate matter that is in contact with ambient air and has the potential to become airborne, other than solid particulate matter that is emitted from an exhaust stack.

(9) JOINT USE AGREEMENT PROPERTY means a shared public facility in which a formal agreement exists between a SCHOOL and another government entity setting forth the terms and conditions for shared use.

- (10) **OWNER OR OPERATOR** means any firm, business establishment, association, partnership, corporation or individual, whether acting as principal, agent, employee, contractor, or other capacity.
- (11) **PAVED ROAD** means a public or private improved street, highway, alley, public way, or easement that is covered by typical roadway materials, but excludes access roadways that connect a facility with a public paved roadway and are not open to through traffic. Public paved roads are those open to public access and that are owned by any federal, state, county, municipal, or any other governmental or quasi-governmental agencies. Private paved roads are any PAVED ROADS not defined as public.
- (12) **PROPERTY LINE** means the boundary of an area where a person has the legal use or possession of the property. Where such property is divided into one or more sub-tenancies, the property line(s) shall refer to the boundaries dividing the areas of all sub-tenancies.
- (13) **SCHOOL** means any public or private education center, including juvenile detention facilities with classrooms, used for the education of more than 12 children at the education center in kindergarten through grade 12. 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 education center in which education is primarily conducted in private homes. A SCHOOL includes any building or structure, playground, athletic field, or other area of school property.
- (14) **SLAG** means, for the purpose of this rule, the by-product material that is separated from metals during smelting or refining of ore.
- (15) **SOIL** means dirt, sand, gravel, clay, SLAG, and aggregate material less than two inches in length or diameter, and other organic or inorganic particulate matter.
- (16) **SOIL WITH APPLICABLE TOXIC AIR CONTAMINANT(S)** means, for the purpose of this rule, SOIL that has been identified by the U.S. EPA, the DTSC, the State Water Board, the Regional Water Board, or a county, local, or state regulatory agency, to contain one or more of the applicable toxic air contaminants listed in Table I that exceed action levels as specified by the designating agency, or soil that has been identified by the Executive Officer to contain one or more of the toxic air contaminants listed in Rule 1401 – New Source Review of Toxic Air Contaminants (Table I) or Hazardous Air Pollutants Identified as Toxic Air Contaminants as listed in California Code of Regulations Section 93001, excluding volatile organic compounds regulated under Rule 1166 – Volatile Organic Compound Emissions from Decontamination of Soil.
- (17) **STABILIZED SURFACE** means any previously DISTURBED SURFACE AREA or STOCKPILE, which through the application of CHEMICAL STABILIZERS or DUST SUPPRESSANTS, shows visual or other evidence of surface crusting and is resistant to WIND-DRIVEN FUGITIVE DUST, and is demonstrated to be stabilized. Stabilization can be demonstrated by one or more of the applicable test methods contained in the most

current version of the South Coast AQMD Rule 403 Fugitive Dust Implementation Handbook or in Volumes I and II of South Coast AQMD's Dust Control in the Coachella Valley.

(18) STOCKPILE means any accumulation of SOIL, which is not fully enclosed and which attains a height of three feet or more and a total surface area of 150 square feet or more.

(19) TRACK-OUT means, for the purpose of this rule, any SOIL that adheres to and agglomerates on the exterior surface of motor vehicles, haul trucks, and equipment (including tires) that has been released onto a PAVED ROAD and that can be removed by a vacuum sweeper under normal operating conditions.

(20) WIND-DRIVEN FUGITIVE DUST means visible emissions from any DISTURBED SURFACE AREA, which is generated by wind action alone.

(d) Monitoring Requirements

(1) When on-site earth-moving activities occur, the owner or operator shall conduct continuous direct-reading near real-time ambient monitoring of PM₁₀ concentrations pursuant to paragraph (d)(3).

(2) If the PM₁₀ concentration exceeds 25 micrograms per cubic meter, as measured pursuant to paragraph (d)(3) and as determined pursuant to paragraph (d)(9), the owner or operator shall cease on-site earth-moving activities, apply dust suppressant to fugitive dust sources, or implement other dust control measures as necessary until the PM₁₀ concentration is equal to or less than 25 micrograms per cubic meter averaged over 30 minutes.

(3) The owner or operator conducting on-site earth-moving activities shall install PM₁₀ monitors and conduct ambient PM₁₀ monitoring:

(A) In accordance with a U.S. EPA-approved equivalent method for PM₁₀ monitoring or using a Rule 1466 Approved PM₁₀ Monitor;

(B) Using a minimum of two monitors, placing each monitor as close to the property line as feasible, where:

(i) One or more monitors is in the seasonal prevailing wind direction upwind of the area(s) of on-site earth-moving activity, indicative of background PM₁₀ levels, and not generally influenced by fugitive dust sources from the site; and

(ii) One or more monitors is in the seasonal prevailing wind direction downwind of the area(s) of on-site earth-moving activity;

(C) Using PM₁₀ monitors that are identical in: make and model, settings, and configuration; and

(D) Using ambient PM₁₀ monitors that are operated, maintained, and calibrated in accordance with appropriate U.S. EPA-published documents for U.S. EPA-approved equivalent methods for PM₁₀ and manufacturer's instructions.

-
- (4) On and before December 31, 2021, the owner or operator shall collect ambient PM₁₀ data with a data acquisition system (DAS) that is capable of logging direct-reading near real-time data providing the date, time, and PM₁₀ concentration in micrograms per cubic meter every 10 minutes or less.
- (5) On and after January 1, 2022, the owner or operator shall collect ambient PM₁₀ data with a DAS that is capable of logging direct-reading near real-time data providing the date and time, calibrated to Pacific Standard Time (PST), and PM₁₀ concentration in micrograms per cubic meter every 1 minute or less.
- (6) On and after January 1, 2022, the owner or operator shall operate PM₁₀ monitors with the heated sampler inlet on.
- (7) On and after January 1, 2022, prior to conducting any on-site earth-moving activities, and weekly thereafter, the owner operator shall conduct intra-instrument precision tests with the PM₁₀ monitors in accordance with Appendix 2 – Procedures to Demonstrate Intra-Instrument Precision, or make available documentation and supporting data certifying that such intra-instrument precision tests were run by an equipment rental company or other third party, that demonstrate an intra-instrument precision of:
- (A) No more than 25 percent as calculated pursuant to Step 7a in Appendix 2 when ambient PM₁₀ concentrations are equal to or greater than 15 micrograms per cubic meter; or
 - (B) No more than 5 micrograms per cubic meter as calculated pursuant to Step 7b in Appendix 2 when ambient PM₁₀ concentrations are less than 15 micrograms per cubic meter.
- (8) On and after January 1, 2022, each day prior to conducting on-site earth-moving activities, the owner or operator shall conduct a passing zero check on each PM₁₀ monitor in accordance with:
- (A) Steps 4 and 5 of Appendix 2 that demonstrates an average PM₁₀ concentration of 0 ± 3 micrograms per cubic meter; or
 - (B) Manufacturer's instructions if a monitor is operated using an auto-zero check procedure that directs filtered particle-free air into the measurement chamber.
- (9) The owner or operator shall calculate the PM₁₀ concentration as a 120-minute rolling average, where:
- (A) The initial average starts at the commencement of on-site earth-moving activities and ends 120 minutes after the commencement of on-site earth-moving activities;
 - (B) On and before December 31, 2021, the averages subsequent to the initial average specified in subparagraph (d)(9)(A) are to be calculated every 10 minutes and cover the previous 120-minute period;
 - (C) On and after January 1, 2022, the averages subsequent to the initial average specified in subparagraph (d)(9)(A) are to be calculated every 1 minute and cover the previous 120-minute period;
 - (D) The PM₁₀ concentration is calculated by subtracting the results of the upwind monitor(s) from the downwind monitor(s) for the same averaging period;

- (i) If the wind direction is in the seasonal prevailing wind direction, then the monitor(s) described pursuant to clause (d)(3)(B)(i) shall be designated as the upwind monitor(s) and the monitor(s) 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(s) described pursuant to clause (d)(3)(B)(i) shall be designated as the downwind monitor(s) and the monitor(s) described pursuant to clause (d)(3)(B)(ii) shall be designated as the upwind monitor(s);
- (E) If there is more than one upwind monitor, the upwind result is the average concentration of all upwind monitors for the same rolling averaging period;
- (F) If there is more than one downwind monitor, the downwind result is the maximum concentration of any of the downwind monitors for the same rolling averaging period;
- (G) On and before December 31, 2021, when on-site earth-moving activities resume after ceasing pursuant to paragraph (d)(2), the average shall start when on-site earth-moving activities resume and shall end 120 minutes after on-site earth-moving activities resume, and the subsequent averages are to be calculated every 10 minutes and shall cover the previous 120-minute period; and
- (H) On and after January 1, 2022, when on-site earth-moving activities resume after ceasing pursuant to paragraph (d)(2), the average shall start when on-site earth-moving activities resume and shall end 120 minutes after on-site earth-moving activities resume, and the subsequent averages are to be calculated every one minute and shall cover the previous 120-minute period.
- (10) An owner or operator that elects to move the monitors accordingly when there is a change in wind direction in place of meeting the requirements specified in clauses (d)(3)(B)(i), (d)(3)(B)(ii), (d)(9)(D)(i), and (d)(9)(D)(ii), shall:

 - (A) Place a minimum of one upwind monitor in the upwind direction of the area(s) of on-site earth-moving activity, indicative of background PM_{10} levels, and not generally influenced by fugitive dust sources from the site;
 - (B) Place a minimum of one downwind monitor in the downwind direction of the area(s) of on-site earth-moving activity; and
 - (C) Move the monitor(s) in subparagraph (d)(10)(A) to the new upwind location and the monitor(s) in subparagraph (d)(10)(B) to the new downwind location when there is a change in wind direction.
- (11) In the event that a DAS fails to log ambient PM_{10} data pursuant to paragraph (d)(5) or that the data management system integrated with the PM_{10} monitor(s) and DAS(s) fails to calculate PM_{10} concentrations pursuant to subparagraph (d)(9)(C) due to a technical issue beyond the reasonable control

of an owner or operator, including, but not limited to, internet connection disruptions and computer malfunctions, the owner or operator shall:

- (A)** Restore the DAS or data management system to working condition as soon as practicable and no later than the start of the next working day; and
 - (B)** Manually record the PM_{10} concentration from the monitor(s) associated with the non-operational DAS once every 10 minutes or less and calculate the PM_{10} concentration pursuant to the averages specified in subparagraph (d)(9)(B) until the DAS is restored or calculate the PM_{10} concentration pursuant to the averages specified in subparagraph (d)(9)(B) until the data management system is restored.
- (12)** When conducting ambient PM_{10} monitoring as required in paragraph (d)(1), the owner or operator shall monitor wind direction and speed using a minimum of one stationary anemometer or wind sensor that:
- (A)** Is sited over open, level terrain within the project site with minimal obstructions to the wind flow at a minimum height of eight feet above grade;
 - (B)** Meets the performance criteria of:
 - (i)** Wind direction accuracy of ± 7 degrees and resolution of 1 degree; and
 - (ii)** Wind speed accuracy of 2 miles per hour (mph) or ± 5 percent of the observed wind speed, whichever is greater, and resolution of 1 mph;
 - (C)** Has a National Institute of Standards and Technology (NIST) Traceability certification;
 - (D)** Is equipped with a data logger that records wind direction and speed data once every 1 minute or less and archives the recorded wind direction and speed data, including the date and time, calibrated to PST; and
 - (E)** Is operated, calibrated, and maintained in accordance with manufacturer's specifications, but no less frequent than once every 6 months of cumulative operation.
- (13)** 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 PM₁₀ monitor to be added as a Rule 1466 Approved PM₁₀ Monitor shall:

- (A)** Be submitted to Rule1466ApprovedMonitors@aqmd.gov;
- (B)** Include a description of the PM₁₀ monitor, any accessories, and all monitor specifications; and
- (C)** Include documentation demonstrating compliance with each specification listed in Appendix 1.

(e) Requirements to Minimize Fugitive Dust Emissions

- (1)** On and before December 31, 2021, 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 feet tall and at least as tall as the height of the tallest stockpile, with a windscreen that has a porosity of 50 ± 5 percent. A section of the perimeter surrounding an on-site earth-moving activity 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 6 feet tall but at least 6 inches taller than the height of the tallest stockpile; or
 - (B)** Does not have on-site earth-moving activity occurring within 300 feet from the perimeter of that section.
- (2)** On and after January 1, 2022, 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 feet tall but at least 6 inches taller than the height of the tallest stockpile, with a windscreen that has a porosity of 50 ± 5 percent or a mesh windscreen that has a shade value or opacity of 85 ± 5 percent. A section of the perimeter surrounding an on-site earth-moving activity area may be excluded from this requirement if that section meets the conditions as specified in subparagraph (e)(1)(A) or (e)(1)(B).
- (3)** An owner or operator conducting on-site earth-moving activities shall:
 - (A)** Adequately wet to the depth of earth-moving activity and allow time for penetration; and
 - (B)** Adequately wet at frequencies to prevent the generation of visible dust plumes.
- (4)** An owner or operator that is moving vehicles on, within, or off a site shall:
 - (A)** Post signs at all entrances of the site to designate the speed limit as 15 mph;
 - (B)** Stabilize the surface of all vehicular traffic and parking areas by applying gravel, paving, chemical stabilizers pursuant to paragraph (e)(13), or dust suppressant;
 - (C)** Not allow any track-out outside of the property line that is 25 feet or more in cumulative length. Remove any track-out at a minimum frequency of once each day using a vacuum equipped with a

filter(s) rated by the manufacturer to achieve a 99.97 percent 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 forced air; and

(E) Utilize at least one of the following measures at each vehicle egress from the site to a public road:

(i) Install a pad consisting of washed gravel (minimum-size: 1 inch), maintained in a clean condition, to a depth of at least 6 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 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 30 feet wide; or

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

(5) An owner or operator conducting on-site earth-moving activities shall ensure that stockpiles with any soil with applicable toxic air contaminant(s) be:

(A) Segregated from non-contaminated stockpiles;

(B) Labelled with "South Coast AQMD Rule 1466 – Control of Particulate Emissions from Soils with Toxic Air Contaminant(s) Applicable Soil";

(C) Maintained to avoid steep sides or faces that exceed the angle of repose;

(D) No more than 400 cubic yards of soil;

(E) Maintained to minimize fugitive dust emissions containing toxic air contaminants by applying chemical stabilizers pursuant to paragraph (e)(13), applying dust suppressant, or completely covering pursuant to paragraph (e)(14); and

(F) Either chemically stabilized pursuant to paragraph (e)(13) and/or completely covered pursuant to paragraph (e)(14) at all times when earth-moving activities and ambient PM₁₀ monitoring are not occurring.

(6) An owner or operator conducting truck and trailer loading activities of soil containing applicable toxic air contaminant(s) shall:

(A) Apply dust suppressant to material prior to loading;

(B) Empty the loader bucket slowly so that no visible dust plumes are generated;

(C) Minimize the drop height from the loader bucket;

- (D) Maintain at least 6 inches of space between the soil and the top of the truck bed and trailer while transporting within a site; and
 - (E) Completely cover the truck bed and trailer prior to leaving the site.
- (7) An owner or operator conducting truck and trailer unloading activities of soil containing applicable toxic air contaminant(s) shall:
- (A) Apply dust suppressant to material prior to unloading; and
 - (B) Empty the trailer slowly so that no visible dust plumes are generated.
- (8) The owner or operator shall immediately remove any spilled soil.
- (9) The owner or operator shall cease on-site earth-moving activities if the wind speed is greater than 15 mph averaged over a 15-minute period or the instantaneous wind speed exceeds 25 mph.
- (10) During on-site earth-moving activities, the owner or operator shall have an on-site dust control supervisor that:
- (A) Is employed by or contracted with the owner or operator;
 - (B) Is located on the site during working hours;
 - (C) Is in a position to expeditiously employ sufficient dust control measures to ensure compliance with all rule requirements;
 - (D) Has completed the South Coast AQMD Fugitive Dust Control Class and has been issued a valid Certificate of Completion for the class; and
 - (E) Has the following credentials, if asbestos is an applicable toxic air contaminant:
 - (i) Successfully completed the Asbestos Abatement Contractor/Supervisor course pursuant to the Asbestos Hazard Emergency Response Act (AHERA), and obtained and maintained accreditation as an AHERA Asbestos Abatement Contractor/Supervisor; and
 - (ii) Trained on the provisions of 40 CFR Part 61.145, 61.146, 61.147 and 61.152 (Asbestos NESHAP provisions) and Part 763, and has the means to comply with these provisions.
- (11) An owner or operator shall apply a chemical stabilizer pursuant to paragraph (e)(13) and/or use a cover pursuant to paragraph (e)(14) on potential sources of fugitive dust when earth-moving activities are not occurring in the specific location(s) containing the potential source(s) of fugitive dust.
- (12) An owner or operator shall inspect daily, including days when no on-site earth-moving activities are occurring, labeled stockpiles pursuant to subparagraph (e)(5)(B) and stabilized or covered stockpiles pursuant to (e)(5)(F).
- (A) For a stabilized stockpile, such inspections shall include a demonstration of stabilization by one or more of the applicable test methods contained in the most current version of the 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.

- (B)** For a covered stockpile, such inspections shall include a visual inspection of all seams and plastic cover surfaces to ensure that no portion of the soil is exposed to the atmosphere.
- (13)** When utilizing a chemical stabilizer, an owner or operator shall:
 - (A)** Ensure the chemical stabilizer meets 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, use a sufficient concentration of the chemical stabilizer and an application frequency sufficient to maintain a stabilized surface and no less than what is specified by the manufacturer for the period of inactivity.
- (14)** When using a cover for stockpiles, an owner or operator shall ensure the cover:
 - (A)** Is at least 10 mil thick plastic sheeting that overlaps a minimum of 24 inches; and
 - (B)** Is anchored and secured so that no portion of the soil is exposed to the atmosphere.
- (15)** An owner or operator that is conducting earth-moving activities of soil with applicable toxic air contaminant(s) at a school, joint use agreement property, adjacent athletic area, or at a site that is adjoining a school, joint use agreement property, or adjacent athletic area shall:
 - (A)** Only conduct earth-moving activities at a school or at a site that is adjoining a school outside of the hours between 7:30 a.m. and 4:30 p.m. on days when the school is in session;
 - (B)** Not conduct earth-moving activities at a school, joint use agreement property, adjacent athletic area, or at a site that is adjoining a school, joint use agreement property, or adjacent athletic area if there is a school 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 truck beds, trailers, and bins for transport, applying chemical stabilizer pursuant to paragraph (e)(13) or dust suppressant, and completely covering prior to transporting; or
 - (iii)** Stockpiling pursuant to paragraph (e)(5), in a fenced area that is not accessible to the general public, and locked when not in use; and
 - (D)** Within five days of its excavation, remove all soil with applicable toxic air contaminant(s) from the site.

(f) Notification Requirements

(1) The owner or operator shall electronically 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 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) exceed 50 cubic yards.

(B) Initial notifications shall include the following requirements:

- (i)** Name, address, telephone number, and e-mail address of the owner or operator;
- (ii)** Name, telephone number, and e-mail address of the on-site dust control supervisor;
- (iii)** Project name and, if applicable, the project identification number from the designating agency;
- (iv)** Project location (address and/or coordinates);
- (v)** Identify whether the site is a school, joint use agreement property, adjacent athletic area, or is adjoining a school, joint use agreement property, or adjacent athletic area;
- (vi)** A map indicating the specific location(s) of each on-site earth-moving activity and the concentrations of the applicable toxic air contaminant(s) and location of PM₁₀ monitors;
- (vii)** A description of the on-site earth-moving activities, 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;
- (viii)** Current and/or previous type of operation(s) and use(s) at the site;
- (ix)** Applicable exemption(s); and
- (x)** Whether the notice being provided is a revised notification.

(2) Notification Updates Initial notifications pursuant to paragraph (f)(1) shall be updated when any of the following conditions arise:

- (A)** Earlier Start Date A change in the start date of on-site earth-moving activities to an earlier date shall be reported to the South Coast AQMD no later than 72 hours before any on-site earth-moving activities begin.

- (B) Later Start Date A delay in the start date of on-site earth-moving activities shall be reported to the South Coast AQMD as soon as the information becomes available, but no later than the original start date.
 - (C) Change in Exemption Status Any change(s) in exemption status pursuant to subdivision (k) shall be reported to the South Coast AQMD as soon as the information becomes available, but no later than 48 hours after the information becomes available.
 - (D) Completion Date The completion date of on-site earth-moving activities shall be reported to the South Coast AQMD no later than 48 hours after on-site earth-moving activities are completed.
- (3) Within 72 hours of an exceedance of the PM₁₀ emission limit specified in paragraph (d)(2), the owner or operator shall electronically submit a notification to the Executive Officer, using a format approved by the Executive Officer, of the exceedance and shall include the following information:
- (A) Name, address, telephone number, and e-mail address of the owner or operator;
 - (B) Name, telephone number, and e-mail address of the on-site dust control supervisor;
 - (C) Project name and, if applicable, the project identification number from the designating agency;
 - (D) Project location (address and/or coordinates);
 - (E) PM₁₀ monitoring results and wind direction and speed results pursuant to subdivision (d), including location of monitors, result, date and time of exceedance(s), 12 hours before first exceedance, and 12 hours after last exceedance;
 - (F) On-site earth-moving activities occurring at the date and time of exceedance(s); and
 - (G) Dust control measure(s) taken to mitigate fugitive dust.

(g) Signage Requirements When conducting on-site earth-moving activities, the owner or operator shall install and maintain project signage.

- (1) Unless otherwise approved in writing by the Executive Officer, signage shall:
- (A) Be installed at all entrances and at intervals of 1,000 feet or less along the property line or perimeter of the site, with a minimum of one sign along each side;
 - (B) Be located between 6 and 8 feet above grade from the bottom of the sign;
 - (C) Display lettering at least 4 inches tall with text contrasting with the sign background; and
 - (D) Display the following information:
 - (i) Local or toll-free phone number for the site contact or pre-recorded notification center that is accessible 24 hours a day; and

(ii) 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 [FACILITY CONTACT AND PHONE NUMBER] OR THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT AT 1-800-CUT-SMOG".

(2) If signage pursuant to paragraph (g)(1) exceeds 48 inches by 96 inches, the owner or operator or designating agency shall include the warning statement referenced in clause (g)(1)(D)(ii), displaying lettering at least 4 inches tall with text contrasting with the sign background, but may use 2.5 inch tall lettering to list applicable toxic air contaminant(s). 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)(3).

(3) 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".

(4) The owner or operator may be excluded 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 and not accessible to the public unless the site is a school, joint use agreement property, or adjacent athletic area or the site is adjoining a school, joint use agreement property, or adjacent athletic area.

(h) Recordkeeping Requirements The owner or operator shall maintain records for a period of not less than 3 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, cover repair, and label maintenance activities, including dates and times the specific activities were conducted;

(2) Results of wind and PM₁₀ monitoring, including: ambient PM₁₀ data; rolling average PM₁₀ concentrations and calculations; wind direction and speed corresponding to the rolling average PM₁₀ concentrations; movement of monitoring instruments corresponding to wind direction changes;

instrument make and model; settings; proof of valid calibration in accordance with manufacturer's recommended schedule; configuration; calibration, correction, and correlation factors; maintenance; operator training; daily instrument performance check records and manual zero or auto-check results; weekly zero calibration records and intra-instrument precision test data and calculation results; 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;
- (4) Documentation of all DAS and data management system failures, including date and time of the failure, date and time of the correction, the technical issue(s) causing the failure, and activities performed to restore the failed DAS or data management system to working condition;
- (5) On-site earth-moving activities conducted and the corresponding volume of soil with applicable toxic air contaminant(s);
- (6) Names and business addresses of the transporting and receiving facilities, and a copy of the shipping manifest;
- (7) Complaints called in, including the name of complainant and contact information, date and time, on-site earth-moving activities occurring at the date and time, complaint, and action taken to mitigate the source of the complaint; and
- (8) A copy of all submitted notifications for the project.

(i) Executive Officer Designated Sites

(1) The Executive Officer may designate a site if the Executive Officer has evidence that the site contains soil with applicable toxic air contaminant(s) as defined in paragraph (c)(16), after consultation with U.S. EPA, DTSC, the State Water Resources Control Board, the Regional Water Quality Control Board, and/or local, county, or state regulatory agencies, and consideration of the following:

- (A) Site history, including current and/or previous type(s) of operation(s) and use(s) at the site and regulatory history;
- (B) Concentration(s) of applicable toxic air contaminant(s) in the soil;
- (C) Background concentration(s) of applicable toxic air contaminant(s);
- (D) Volume of soil with applicable toxic air contaminant(s);
- (E) Distance to a residence, park, school, joint use agreement property, adjacent athletic area, or a site adjoining a school, joint use agreement property, or adjacent athletic area;
- (F) Meteorological data;

- (G)** Health risk information or other data provided by the owner or operator, if available; and
 - (H)** Ambient monitoring data and other applicable data, if available.
- (2)** Prior to making a determination, the Executive Officer will notify the owner or operator in writing that the site may be subject to this rule.
- (A)** In the event the owner or operator exercises this opportunity to demonstrate that this rule does not apply, the owner or operator shall submit information to the Executive Officer within 14 days of the notification substantiating why the site should be excluded from this rule.
 - (B)** Upon final determination, the Executive Officer will notify the owner or operator in writing if the site is subject to this rule.
- (3)** During the determination period, the owner or operator shall comply with the provisions of this rule or cease all on-site earth-moving activities until a determination is made.

(j) Alternative Provisions

- (1)** If requesting an alternative provision pursuant to paragraph (g)(3), the owner or operator or designating agency shall submit the request in writing at least 30 days prior to conducting any earth-moving activities and include all information to the Executive Officer to substantiate its position.
- (2)** The Executive Officer may request additional information from the owner or operator or designating agency.
- (3)** The owner or operator or designating agency shall submit all requested information within 14 days of the request for additional information.
- (4)** The Executive Officer will review the request for an alternative provision and will approve or reject the data and notify the owner or operator or designating agency in writing. Approved alternative provisions may not be used retroactively.
- (5)** Alternative provisions that were approved and notified in writing by the Executive Officer before June 4, 2021 shall be deemed compliant with the requirements of the applicable provisions of the rule, shall remain in effect only for the period of time and for the specific project for which they were granted, and shall not be renewed or extended.

(k) Exemptions

- (1)** The owner or operator may be exempt from one or more provisions of this rule provided there is written confirmation that the designating agency under subparagraphs (b)(1)(A) through (b)(1)(D) has

consulted with the Executive Officer and has determined that the provision(s) are not needed based on information specified in subparagraphs (i)(1)(A) through (i)(1)(H).

(2) On-site earth-moving activities performed within an enclosed system vented to South Coast AQMD permitted air pollution control equipment shall be exempt from all requirements except: subparagraphs (e)(4)(C) through (e)(4)(E), subparagraphs (e)(6)(D) and (e)(6)(E), and subdivisions (f), (g), and (h).

(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 bed, trailer, or bin for transport, shall be exempt from all requirements except: paragraphs (e)(3) through (e)(9), paragraphs (e)(13) and (e)(15), and subdivisions (f), (h), and (i).

(4) On-site 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 bed, trailer, or bin for transport, shall be exempt from all requirements except: paragraphs (e)(3) through (e)(9), paragraphs (e)(13) and (e)(15), and subdivisions (f), (h), and (i).

(5) On-site earth-moving activities conducted during emergency life-threatening situations, or in conjunction with any officially declared disaster or state of emergency as declared by an authorized health officer, agricultural commissioner, fire protection officer, or other authorized agency officer shall be exempt from all requirements. The Executive Officer shall be notified electronically no later than 48 hours following such on-site earth-moving activities. Written notification shall include written emergency declaration from the authorized officer.

(6) On-site earth-moving activities conducted by essential service utilities to provide electricity, natural gas, telephone, water, or sewer during periods of service outages and emergency disruptions shall be exempt from all requirements. The Executive Officer shall be notified electronically no later than 48 hours following such on-site earth-moving activities. Table I – Applicable Toxic Air Contaminants CAS Number Substance 7440-38-2 7784-42-1 arsenic and arsenic compounds (inorganic) including, but not limited to: arsenic compounds (inorganic) arsine 1332-21-4 Asbestos 7440-43-9 cadmium and cadmium compounds 57-74-9 chlordane 1746-01-6 40321-76-4 39227-28-6 57653-85-7 19408-74-3 35822-46-9 3268-87-9 41903-57-5 36088-22-9 34465-46-8 37871-00-4 dibenzo-p-dioxins (chlorinated) tetrachlorodibenzo-p-dioxin, 2,3,7,8-pentachlorodibenzo-p-dioxin, 1,2,3,7,8- hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8- hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8- hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9- heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-octachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8,9- total tetrachlorodibenzo-p-dioxin total pentachlorodibenzo-p-dioxin total hexachlorodibenzo-p-dioxin total heptachlorodibenzo-p-dioxin 72-54-8 dichlorodiphenyldichloroethane 72-55-9 dichlorodiphenyldichloroethylene 50-29-3 dichlorodiphenyltrichloroethane Table I – Applicable Toxic Air Contaminants (cont.) CAS Number Substance 18540-29-9 10294-40-3 13765-19-0 7758-97-6 10588-01-9 7789-06-2 13530-65-9 chromium (hexavalent) and chromium compounds including, but not limited to: barium chromate calcium chromate

lead chromate sodium dichromate strontium chromate zinc chromate 7439-92-1 301-04-2 7758-97-6 7446-27-7 1335-32-6 lead and lead compounds (inorganic, including elemental lead) including, but not limited to: lead compounds (inorganic) lead acetate lead chromate lead phosphate lead subacetate 7439-97-6 7487-94-7 593-74-8 mercury and mercury compounds (inorganic) including, but not limited to: mercuric chloride methyl mercury Table I – Applicable Toxic Air Contaminants (cont.) CAS Number Substance 7440-02-0 373-02-4 3333-67-3 13463-39-3 12054-48-7 1313-99-1 12035-72-2 1271-28-9 nickel and nickel compounds including, but not limited to: nickel acetate nickel carbonate nickel carbonyl nickel hydroxide nickel oxide nickel subsulfide nickelocene refinery dust from the pyrometallurgical process 1336-36-3 32598-13-3 70362-50-4 32598-14-4 74472-37-0 31508-00-6 65510-44-3 57465-28-8 38380-08-4 69782-90-7 52663-72-6 32774-16-6 39635-31-9 polychlorinated biphenyls (PCBs) 3,3',4,4'-tetrachlorobiphenyl (PCB 77) 3,4,4',5-tetrachlorobiphenyl (PCB 81) 2,3,3',4,4'-pentachlorobiphenyl (PCB 105) 2,3,4,4',5-pentachlorobiphenyl (PCB 114) 2,3',4,4',5-pentachlorobiphenyl (PCB 118) 2,3',4,4',5'-pentachlorobiphenyl (PCB 123) 3,3',4,4',5-pentachlorobiphenyl (PCB 126) 2,3,3',4,4',5-hexachlorobiphenyl (PCB 156) 2,3,3',4,4',5'-hexachlorobiphenyl (PCB 157) 2,3',4,4',5,5'-hexachlorobiphenyl (PCB 167) 3,3',4,4',5,5'-hexachlorobiphenyl (PCB 169) 2,3,3',4,4',5,5'-heptachlorobiphenyl (PCB 189) Table I – Applicable Toxic Air Contaminants (cont.) CAS Number Substance 56-55-3 50-32-8 205-99-2 207-08-9 218-01-9 53-70-3 193-39-5 polycyclic aromatic hydrocarbons (PAHs) benzo[a]anthracene benzo[a]pyrene benzo[b]fluoranthene benzo[k]fluoranthene chrysene dibenz[a,h]anthracene indeno[1,2,3-c,d]pyrene

Appendix 1 – Rule 1466 Approved PM 10 Monitors The Executive Officer may approve PM₁₀ monitors that meet the following physical and performance requirements.

- 1. Physical Requirements**
 - 1.1.** PM₁₀ monitors shall be continuous direct-reading near-real time monitors and shall monitor particulate matter less than 10 microns.
 - 1.2.** PM₁₀ monitors shall be equipped with:
 - 1.2.a.** Omni-directional heated sampler inlet;
 - 1.2.b.** Sample pump with active flow control mechanism;
 - 1.2.c.** Enclosure;
 - 1.2.d.** Data logger capable of logging each data point with average concentration, time, date, and data point number; and
 - 1.2.e.** Conductive tubing that minimizes particle loss for any external tubing used to carry sampled air prior to measurement.
- 2. Performance Requirements**
 - 2.1** PM₁₀ monitors shall have the following minimum performance standards:
 - 2.1.a.** Range: 0 - 10,000 µg/m³;
 - 2.1.b.** Accuracy, determined through factory testing against a U.S. EPA Federal Reference Method or Federal Equivalent Method, for a minimum of 30 measurements each averaged over 24 hours, to show:
 - 2.1.b.i.** ± 5% of reading ± precision; or
 - 2.1.b.ii.** Coefficient of determination (R²) of ≥ 0.95 through simple linear regression;
 - 2.1.c.** Resolution: 1.0 µg/m³;
 - 2.1.d.** Flow control accuracy of ± 5% of factory setpoint; and
 - 2.1.e.** Measurement Cycle: User selectable (30 minute and 2 hour).
 - 2.2** Monitors that have a valid Monitoring Certification Scheme certification meeting the latest version of the Monitoring Certification Scheme (MCERTS): Performance Standard for Indicative Ambient Particulate Monitors may be exempt from meeting the performance requirements listed above, but shall meet all stated physical requirements.
- 3. Quality Assurance/Quality Control Requirements** In order to ensure the validity of the PM₁₀ measurements performed, there shall be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the owner or operator to adequately supplement QA/QC Plans to include the following critical features: instrument calibration, instrument maintenance, operator training, and daily instrument performance checks.

Appendix 2 – Procedures to Demonstrate Intra-Instrument Precision An owner or operator shall perform the following procedures to demonstrate the intra-instrument precision of all PM₁₀ monitors as required in paragraph (d)(7).

- 1. Ensure monitors are identical in make and model, settings, and configuration.**
- 2. Ensure monitor inlets are at the same height and located within 4 meters of each other but no less than 1 meter apart for the duration of the test.**
- 3. Power on the monitors and turn on the heated sampler inlet. Allow the monitors to warm- up per manufacturer’s recommendations or when readings have stabilized.**
- 4. For each monitor, conduct a zero calibration in accordance with manufacturer’s instructions, then conduct a manual zero check by removing any sampling inlet and installing a filter, rated by the manufacturer to achieve a 99.97 percent control efficiency for 0.3 micron particles, on the inlet of the monitor for a minimum of 10 minutes. If the monitors are operated using an auto-zero check procedure that directs filtered particle-free air into the measurement chamber, conduct the zero check in accordance with manufacturer’s instructions.**
- 5. Log the PM₁₀ concentration reading every minute, and calculate and record the average of the readings of the manual zero check. The average of the manual zero check readings shall be 0 ± 3 micrograms per cubic meter before proceeding to Step 6. If conducting an auto- zero check, the monitor shall pass the zero check in accordance with manufacturer’s instructions before proceeding to Step 6. If any monitors fail either the manual zero check or the auto-zero check, the owner or operator shall conduct a zero calibration in accordance with manufacturer’s instructions and/or correct any issue(s) causing the failure, followed by conducting a passing zero check on the PM₁₀ monitor(s) in accordance with Steps 4 and 5.**
- 6. Remove the filter and install the monitor inlet as required. After waiting 10 minutes, operate the monitors simultaneously and log the PM₁₀ concentration reading every minute for a minimum of 60 minutes.**
- 7. Calculate the intra-instrument precision using either of the following equations:**
 - (a)** Intra-instrument precision in relative standard deviation or correlation of variation (%) when ambient PM₁₀ concentrations are greater than or equal to 15 micrograms per cubic meter: $PP = \frac{SStt}{CCtt} \times 100\%$ where, P = Intra-instrument precision in percent (%); St = Standard deviation of the averaged PM₁₀ concentration readings from all tested monitors over the time t of testing duration, to be calculated as:

$SS_{tt} = \sum (x_{ii} - \bar{x})^2 (n - 1)$ where, x_i = Mean of the PM_{10} concentration readings for a tested monitor over time t of testing duration, $\bar{x}$ = Mean of the averaged PM_{10} concentration readings from all tested monitors over the time t of testing duration, and n = Number of tested monitors; and C_t = Mean of the averaged PM_{10} concentration readings from all tested monitors over the time t of testing duration; or

(b) Intra-instrument precision in absolute value (micrograms per cubic meter) when ambient PM_{10} concentrations are less than 15 micrograms per cubic meter: $PP = SS_{tt}$ where, P = Intra-instrument precision in micrograms per cubic meter, and St = Standard deviation of the averaged PM_{10} concentration readings from all tested monitors over the time t of testing duration.

8. Record the results of the calculations.