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MAG 2026 REDESIGNATION REQUEST AND MAINTENANCE PLAN FOR THE WEST CENTRAL PINAL PM-2.5 NONATTAINMENT AREA

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List of Acronyms

AAC	Arizona Administrative Code
ADEQ	Arizona Department of Environmental Quality
ADOT	Arizona Department of Transportation
ADV	Average Design Value
AQS	Air Quality System
CAA	Clean Air Act (or Act)
CAFO	Confined Animal Feeding Operation
CDD	Clean Data Determination
CFR	Code of Federal Regulations
DAAD	Determination of Attainment by the Attainment Date
DV	Design Value
DVB	Baseline Design Value
EPA	United States Environmental Protection Agency
FEM	Federal Equivalent Method
IMPROVE	Interagency Monitoring of Protected Visual Environments
µg/m^3	Micrograms per cubic meter
MAG	Maricopa Association of Governments
MOVES5	Motor Vehicle Emissions Simulator – Version 5
MPO	Metropolitan Planning Organization
MVEB	Motor Vehicle Emissions Budget
NAAQS	National Ambient Air Quality Standard
NEI	National Emission Inventory
NH_3	Ammonia
NCC	Net Component Concentration
NNSR	Nonattainment Area New Source Review
NM	National Monument
NSR	New Source Review
NOx	Oxides of Nitrogen
OC or EC	Organic Carbon or Elemental Carbon
PCAQCD	Pinal County Air Quality Control District
PM-2.5	Fine PM; Particulate Matter with an aerodynamic diameter < 2.5 micrometers
PM-10	Coarse PM; Particulate Matter with an aerodynamic diameter < 10 micrometers
PSD	Prevention of Significant Deterioration
RACM	Reasonably Available Control Measures
RCFM	Reconstructed Fine Mass
RFP	Reasonable Further Progress
SCMPO	Sun Corridor Metropolitan Planning Organization
SIP	State Implementation Plan
SLAMS	State and Local Air Monitoring Station
SO_2	Sulfur Dioxide
SOA	Secondary Organic Aerosol
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound

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ES. Executive Summary

The Maricopa Association of Governments (MAG) is requesting that the U.S Environmental Protection Agency (EPA) redesignate the West Central Pinal PM-2.5 Nonattainment Area to attainment for the 2006 24-hour PM-2.5 fine particulate matter National Ambient Air Quality Standard (NAAQS) of 35 micrograms per cubic meter (µg/m^3). In 2019, EPA determined the nonattainment area attained the PM-2.5 NAAQS by the December 31, 2017, attainment date and there have been no violations of the standard since 2022. As such, the area is eligible for redesignation.

The West Central Pinal PM-2.5 Nonattainment Area is located in the west-central portion of Pinal County as displayed in Figure ES-1. The nonattainment area encompasses approximately 323 square miles and includes parts of two metropolitan planning organizations, MAG and the Sun Corridor Metropolitan Planning Organization. The estimated population of the nonattainment area in 2023 is 80,041.

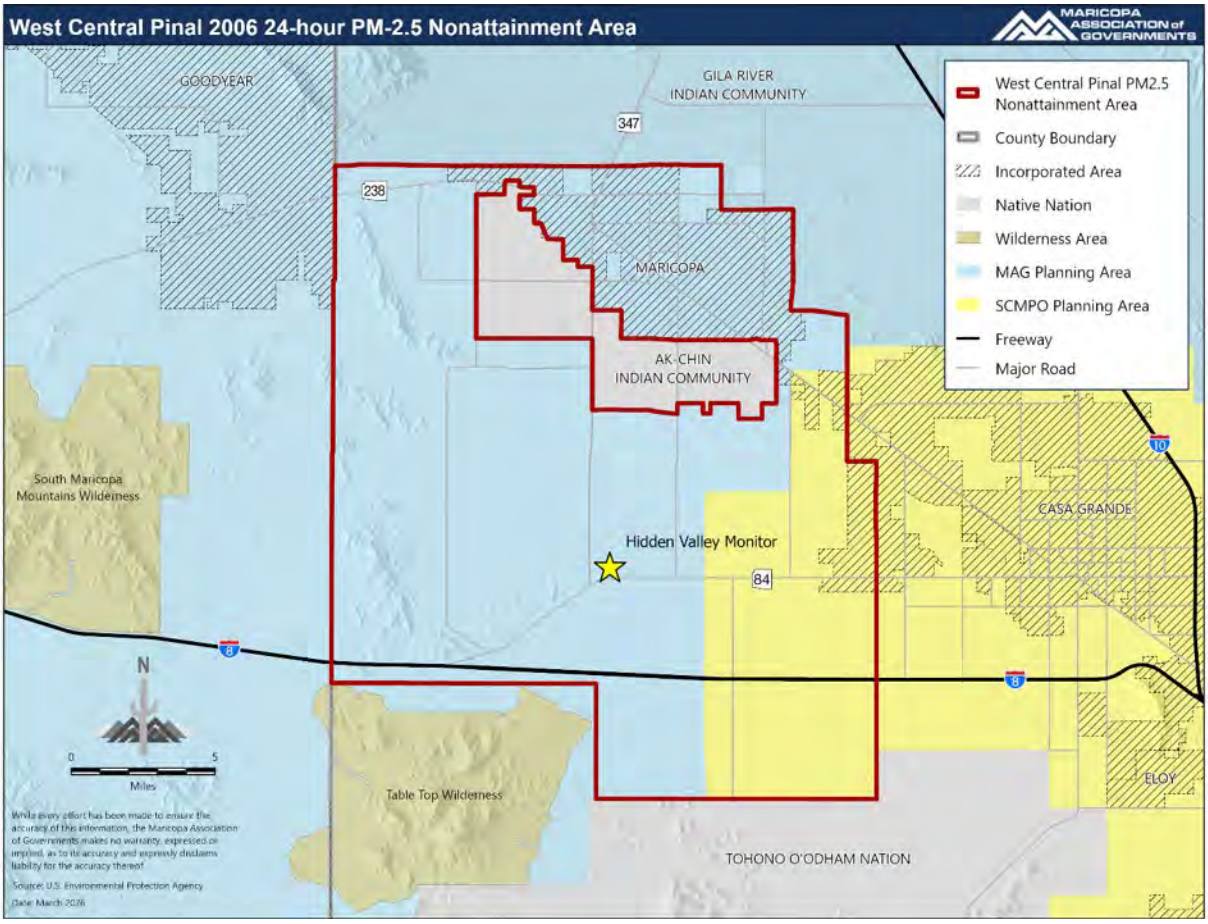


Figure ES-1 West Central Pinal PM-2.5 Nonattainment Area.

ES.1 Redesignation Request

Section 107(d)(3)(E) of the Clean Air Act (CAA) defines the criteria that must be met before an area can be redesignated to attainment:

1. The Administrator determines that the area has attained the standard.
2. The Administrator has fully approved the applicable implementation plan under Clean Air Act section 110 (k).
3. The Administrator determined that the improvement in air quality is due to permanent and enforceable emission reductions.
4. The State containing such an area has met all requirements applicable to the area under section 110 and part D of the CAA.
5. The Administrator has fully approved a maintenance plan for the area as meeting the requirements of section 175A of the CAA.

A summary of how the MAG 2026 Redesignation Request and Maintenance Plan fulfils the redesignation requirements of CAA Section 107(d)(3)(E) is provided below.

ES.1.1 Determination the Area has Attained the Standard

On two separate occasions, EPA has made determinations that the West Central Pinal PM-2.5 Nonattainment Area has attained the 2006 24-hour PM-2.5 NAAQS. Initially, on September 4, 2013, EPA issued a Clean Data Determination (CDD) based on air quality monitoring data from 2010-2012.[1] Then, on October 3, 2019,[2] EPA published a final rule that determined that the area attained the 2006 24-hour PM-2.5 NAAQS by the December 31, 2017, attainment date based on air quality monitoring data from 2015-2017. Since 2022, no violations of the standard have occurred in the nonattainment area.

ES.1.2 The Area has a Fully Approved Implementation Plan

The above referenced regulatory actions by EPA in 2013 and 2019 relieved the West Central Pinal PM-2.5 Nonattainment Area from nearly all nonattainment area planning requirements for so long as the area continues to attain the 2006 24-hour PM-2.5 NAAQS. These actions specifically suspended CAA requirements to submit an attainment demonstration, reasonably available control measures (RACM), a reasonable further progress (RFP) plan, and contingency measures for failure to attain or meet RFP. The CAA requirement to submit a comprehensive emissions inventory for the area is fulfilled in the Maintenance Plan included in this submittal.

ES.1.3 The Improvement in Air Quality is due to Permanent and Enforceable Emission Reductions

EPA issuance of the CDD in October 2013 (which suspended CAA planning requirements in the nonattainment area) occurred only two years after the West Central Pinal PM-2.5 Nonattainment

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[1] *Determination of Attainment for the West Central Pinal Nonattainment Area for the 2006 Fine Particle Standard; Arizona; Determination Regarding Applicability of Clean Air Act Requirements, 78 Fed. Reg. 54394, September 4, 2013.*

[2] *Determination of Attainment by the Attainment Date; 2006 24-Hour Fine Particulate Matter National Ambient Air Quality Standard; Pinal County, Arizona, 84 Fed. Reg. 52766, October 3, 2019.*

Area was designated as a nonattainment area and a year before an attainment plan SIP revision was due to EPA for the area (December 31, 2014). EPA definitively demonstrated through issuance of the CDD that existing controls were sufficient to bring the area in attainment with the 2006 24-hour PM-2.5 standard. In 2019, EPA again reaffirmed that the area had attained the standard based on 2015-2017 air quality data with the existing control measures in place.

While specific PM-2.5 control measures were not developed for the nonattainment area due to the 2013 CDD by EPA, the West Central Pinal PM-2.5 Nonattainment Area is subject to existing local, state and federal particulate matter control measures that are designed to limit PM-10, of which PM-2.5 is a subset of. Many of these measures have been strengthened over time since the nonattainment area was initially designated in 2011. In particular, since 2021, a total of 61 new particulate matter control measures designed to limit PM-10 emissions within the West Pinal County PM-10 Nonattainment Area have been adopted.[3]

The emission reduction benefits of the adoption of tighter local particulate matter controls within the nonattainment area can directly be seen in reduced PM-2.5 design value concentrations. As shown in Figure ES-2, since 2022, the design value has decreased by about 28 percent between design value years 2022 to 2025. In summary, the existence of adequate local, state and federal particulate matter controls, the adoption of tighter PM-10 controls measures beginning in late 2021, and the co-reduction of PM-2.5 design values since 2022 demonstrate that the improvement in PM-2.5 air quality in the nonattainment area is due to permanent and enforceable emissions reductions.

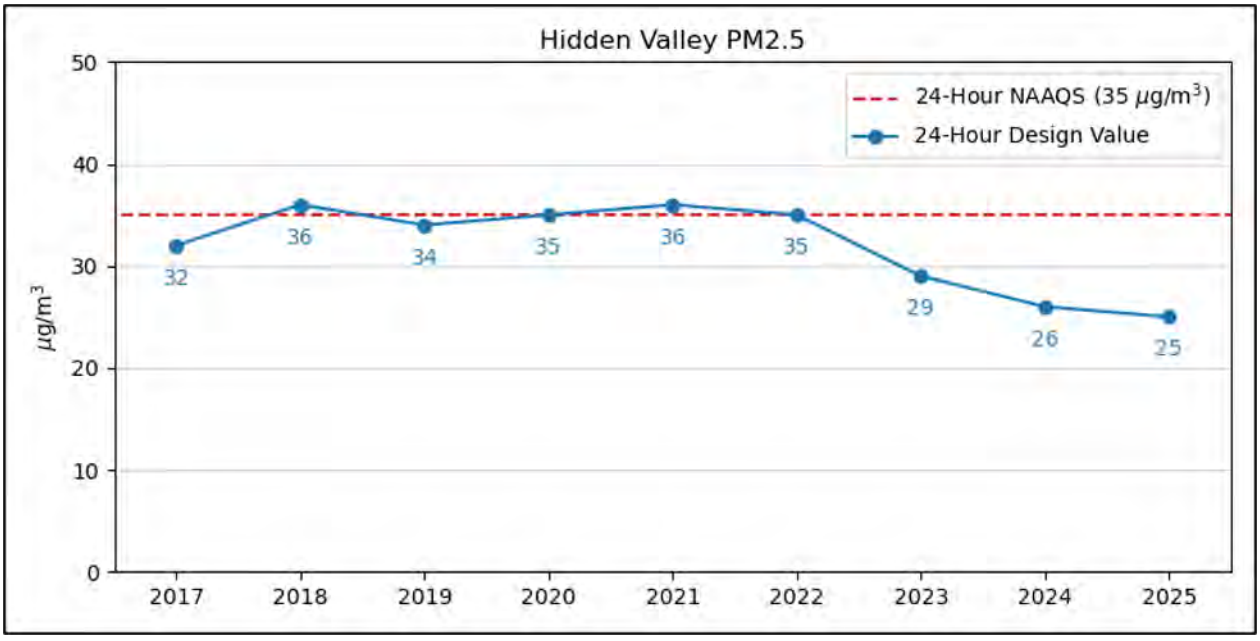


Figure ES-2 Hidden Valley monitor design value trends (2017-2025).

[3] *Maricopa Association of Governments 2023 Five Percent Particulate Plan for PM-10 for the West Pinal County Nonattainment Area, December 2023.*

ES.1.4 The State has met all Requirements Applicable under Section 110 and Part D

The requirements of both Section 110 and Part D of the Act have been sufficiently met in Arizona and the West Central Pinal PM-2.5 Nonattainment Area (as they apply to the 2006 24-hour PM-2.5 NAAQS) to allow for redesignation of the nonattainment area to attainment.

Clean Air Act Sections 110(a)(2)(A) through 110(a)(2)(M) contain the specific elements and requirements that comprise an "infrastructure SIP". In general, an infrastructure SIP and the requirements of Section 110(a)(2)(A) detail how the state will implement, meet, and enforce federal standards for NAAQS and describes the regulatory infrastructure Arizona has in place to protect air quality. On November 5, 2012, EPA published a final rule that approved most of the requirements of Section 110(a)(2) for the 2006 24-hour PM-2.5 NAAQS in Arizona.[4] Subsequent final rulemakings by EPA approved additional requirements of Section 110(a)(2). Table 2-2 includes the relevant EPA actions approving Section 110 infrastructure elements for the 2006 24-hour PM-2.5 NAAQS.

Part D of the CAA includes both general requirements for nonattainment areas and pollutant-specific nonattainment area requirements. The general nonattainment area requirements are listed in Section 172(c) of the Act. For PM-2.5, the pollutant-specific nonattainment area requirements of Section 189 also apply. Table 2-3 includes a listing of the Part D requirements and how they have been met within the West Central Pinal PM-2.5 Nonattainment Area.

ES.1.5 The Area has a Fully Approved Maintenance Plan

MAG is submitting the required Maintenance Plan (Chapter Three) concurrently with this Redesignation Request to EPA for approval.

ES.2 Maintenance Plan

The Maintenance Plan has been developed to meet the requirements of CAA Section 175A and in accordance with EPA policy guidance (Calcagni Memo).[5] The plan demonstrates that the area will continue to maintain the 2006 24-hour PM-2.5 standard through 2038, a period of at least ten years following an assumed redesignation to attainment by EPA in 2028 or sooner. The Maintenance Plan also contains contingency provisions that may be implemented should the area violate the 2006 24-hour PM-2.5 NAAQS in the future.

Additionally, the Calcagni Memo lists "core provisions" that are anticipated to be necessary in order to ensure maintenance of the standard. Those core provisions include:

- An attainment (base) year emissions inventory
- Demonstration of maintenance

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[4] *Partial Approval and Disapproval of Air Quality Implementation Plans; Arizona; Infrastructure Requirements for Ozone and Fine Particulate Matter* , *77 Fed. Reg. 66398*, November 5, 2012.

[5] *Calcagni, John, Memorandum, Procedures for Processing Requests to Redesignate Areas to Attainment, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, September 4, 1992. Retrieved from: https://www.epa.gov/sites/default/files/2016-03/documents/calcagni_memo_-_procedures_for_processing_requests_to_redesignate_areas_to_attainment_090492.pdf*

- Continued operation of the air quality monitoring network
- Verification of continued attainment
- Contingency plan

In addition to the requirements of Section 175A and core provisions, the Maintenance Plan also includes an assessment of air quality conditions and the establishment of motor vehicle emissions budgets for transportation conformity requirements.

ES.2.1 Comprehensive Emissions Inventory

A comprehensive emissions inventory for the West Central Pinal PM-2.5 Nonattainment Area has been developed to (1) satisfy remaining Clean Air Act Part D requirements that are applicable to the Redesignation Request; and (2) provide the projected emission estimates needed to perform a demonstration of maintenance of the 2006 24-hour PM-2.5 NAAQS through 2038. Comprehensive emission inventories for fine particulate matter (PM-2.5) require both estimates of emissions from sources that directly emit PM-2.5 and estimates of emissions from sources that can contribute to secondary particulate formation. As a result, the comprehensive emissions inventory for the nonattainment area included in this plan contains emission estimates for directly emitted PM-2.5 as well as sources of ammonia (NH_3), nitrogen oxides (NOx), volatile organic compounds (VOC), and sulfur dioxide (SO_2).

The comprehensive emissions inventory for the nonattainment area was developed through a collaborative effort with the Arizona Department of Environmental Quality (ADEQ), Arizona Department of Transportation (ADOT), Pinal County Air Quality Control District (PCAQCD), Sun Corridor Metropolitan Planning Organization (SCMPO), MAG and the EPA. Emission estimates for 2023 (attainment year), 2030 (interim year), and 2038 (maintenance year) are summarized by the primary source categories that contribute to the emissions profile in the West Central Pinal PM-2.5 nonattainment area. The primary categories include permitted stationary sources, nonpoint sources, nonroad mobile sources, onroad mobile sources, and biogenic sources.

Table ES-1 contains the 2023, 2030, and 2038 estimated emissions within the nonattainment area for directly emitted PM-2.5 by primary source category. Tables 3-4 through 3-7 contain similar emission estimates for the secondary pollutants of NOx, NH_3, SO_2 and VOC. Collectively these source categories are estimated to have contributed annual direct PM-2.5 emissions of 1,342.10 tons per year and daily average emissions of 8,524.9 pounds in calendar year 2023 within the West Central Pinal PM-2.5 Nonattainment Area. The vast majority of direct PM-2.5 emissions come from onroad mobile and nonpoint primary source categories. Total direct PM-2.5 emissions decrease slightly from 2023 through 2038, with total direct PM-2.5 emissions of 1,313.92 tons per year and daily average emissions of 8,440.6 pounds in 2038.

NOx emissions decline significantly from 2023 to 2038, with totals of 834.59 tons per year and 661.92 tons per year respectively. NH_3 emissions experience a very minor increase from 4,611.09 tons per year in 2023 to 4,627.91 tons per year in 2038. SO_2 emissions are minimal within the nonattainment area and have negligible impacts on PM-2.5 concentrations but do increase from 8.45 tons per year in 2023 to 9.65 tons per year in 2038. Lastly, VOC emissions increase from 2023

to 2038, with totals of 9,106.01 tons per year and 9,439.82 tons per year respectively.

Table ES-1 Annual and daily average 2023, 2030, and 2038 PM-2.5 emissions within the West Central Pinal PM-2.5 Nonattainment Area.

Source Category	2023 Annual PM-2.5 Emissions (tons/year)	2030 Annual PM-2.5 Emissions (tons/year)	2038 Annual PM-2.5 Emissions (tons/year)	2023 Daily PM-2.5 Emissions (lbs/day)	2030 Daily PM-2.5 Emissions (lbs/day)	2038 Daily PM-2.5 Emissions (lbs/day)
Permitted Sources	7.04	7.04	7.04	38.6	38.6	38.6
Nonpoint	442.67	442.45	456.85	3,583.5	3,606.4	3,739.0
Nonroad Mobile	15.47	10.31	8.17	97.8	64.7	50.7
Onroad Mobile	876.92	879.26	841.86	4,805.0	4,817.4	4,612.3
Biogenic	-	-	-	-	-	-
Total	1,342.10	1,339.06	1,313.92	8,524.9	8,527.1	8,440.6

ES.2.2 Maintenance Demonstration

The Maintenance Demonstration presents the technical justification that the projected PM-2.5 and precursor emissions from the West Central Pinal PM-2.5 Nonattainment Area will not lead to violations of the 2006 24-hour PM-2.5 NAAQS in the maintenance year (2038) and an interim year (2030) within the 10-year maintenance period. Maintenance of the 24-hour PM-2.5 NAAQS is demonstrated using a proportional rollback applied to speciated PM-2.5 data at the Hidden Valley monitor. The method assumes that the portion of ambient PM-2.5 attributable to sources within the nonattainment area changes in direct proportion to emissions from those sources, while the portion attributable to sources outside the area remains constant.

The results of the rollback modeling indicate that the projected 2030 and 2038 PM-2.5 and precursor emissions from the West Central Pinal PM-2.5 Nonattainment Area will result in PM-2.5 design values of 27.5 and 28.1 µg/m^3 for 2030 and 2038, respectively. The modeled PM-2.5 design values are substantially below the 2006 24-hour PM-2.5 NAAQS of 35 µg/m^3 and indicate that the nonattainment area can demonstrate maintenance of the standard through 2038.

ES.2.3 Transportation Conformity

The MAG 2026 Redesignation Request and Maintenance Plan for the West Central Pinal PM-2.5 Nonattainment Area establishes transportation conformity Motor Vehicle Emissions Budgets (MVEB) based on the adopted and existing particulate matter control measures referenced in this plan, which are being implemented throughout the 10-year maintenance period ending in 2038. The plan includes MVEB for the interim year of 2030 and for the maintenance year of 2038. Consistent with conformity regulations in 40 CFR 93.102(b), MVEB are established for directly emitted PM-2.5 emissions and precursor nitrogen oxide (NOx) emissions.

The Maintenance Plan establishes a PM-2.5 MVEB of 2.4 metric tons per day for 2030 and 2.3 metric tons per day for 2038. The plan also establishes a NOx MVEB of 0.5 metric tons per day for 2030 and 0.3 metric tons per day for 2038. The MVEB include excess emissions from available

safety margins to account for future year uncertainties in transportation planning and development.

ES.2.4 Verification of Continued Attainment

EPA's guidance[6] suggests that air agencies indicate how they will track the progress of their maintenance plans over time to verify continued attainment. A primary method of tracking progress and verifying attainment is through periodic reviews of emission inventories. As the lead air quality planning agency for the area, MAG commits to coordinating the review of emissions inventories for the area, including the assumptions and methodologies used to develop emission estimates. The three-year National Emissions Inventory (NEI) development cycle provides an opportunity to review and develop emissions within Pinal County and the nonattainment area.

The Pinal County Air Quality Control District (PCAQCD) is committed to the continued required operation of the Hidden Valley PM-2.5 monitor and the publication of the annual monitoring plan and report. MAG will continue to evaluate and investigate any future exceedances of the 2006 24-hour PM-2.5 NAAQS to determine possible causes and emission sources contributing to those exceedances, and to determine that the exceedances will not lead to a violation of the standard. The responsibility to maintain and implement the provisions of any adopted Maintenance Plan is required by State law in Arizona Revised Statutes Section 49-404 and 49-406.

ES.2.5 Contingency Plan

CAA Section 175A(d) requires maintenance plans to identify contingency provisions to offset any unexpected increases in emissions and ensure maintenance of the standard. In this document, the contingency provisions as referred to as the contingency plan.

Upon verification of a future design value violation of the 2006 PM-2.5 NAAQS, PCAQCD (in coordination with ADEQ and MAG) shall commence analyses within 60 days to determine the causes of the non-exceptional event PM-2.5 exceedances that resulted in a violation of the design value. If specific causes and emission sources of the exceedances can be determined, PCAQCD will use this information to evaluate potential actions to reduce exceedance level PM-2.5 concentrations. Once the analyses are complete, PCAQCD will consult with ADEQ, MAG, and SCMPO, and engage interested parties and stakeholders within the PM-2.5 maintenance area to identify measures and options (including voluntary and incentive-based measures) to expeditiously reduce concentrations and emissions of directly emitted PM-2.5 or precursors within 12 months. Within 24 months of the design value analysis, new voluntary or regulated measures will be promulgated as needed by the appropriate sponsoring agency.

Voluntary or regulatory measures chosen for promulgation and implementation will be based upon the analysis of the design value violation performed by PCAQCD, and the result of consultation with Arizona agencies and interested parties and stakeholders. Possible measures that would be a candidate for evaluation and strengthening include fugitive dust rules contained in PCAQCD Articles 1 and 3.

[6] *Ibid.*

ES.2.6 Subsequent Maintenance Plan Revisions

Section 175A(b) of the CAA requires that a maintenance plan be submitted to EPA eight years after the original redesignation request and maintenance plan has been approved. The purpose of the second maintenance plan is to demonstrate maintenance of the standard for the 2006 24-hour PM-2.5 standard for an additional ten years (2038-2048) following the first ten-year period (2028-2038). As the lead air quality planning agency for the area, MAG intends to submit a SIP revision eight years after redesignation to attainment to demonstrate maintenance of the NAAQS for an additional 10-year period.

1. Introduction

1.1 Overview

The Maricopa Association of Governments (MAG) is requesting that the U.S Environmental Protection Agency (EPA) redesignate the West Central Pinal PM-2.5 Nonattainment Area to attainment for the 2006 24-hour PM-2.5 fine particulate matter National Ambient Air Quality Standard (NAAQS) of 35 micrograms per cubic meter (µg/m^3). The area was initially designated as a nonattainment area for the standard in February 2011. In 2019, EPA determined the nonattainment area attained the PM-2.5 NAAQS by the December 31, 2017, attainment date and there have been no violations of the standard since 2022. As such the area is eligible for redesignation. Modeling in the MAG 2026 Redesignation Request and Maintenance Plan demonstrates that the 2006 24-hour PM-2.5 standard will continue to be met through 2038 with existing federal, state, and local control measures. The plan also includes a comprehensive emissions inventory, contingency provisions, and motor vehicle emission budgets for transportation conformity.

MAG was designated by the Governor of Arizona in 1978 and recertified by the Arizona Legislature in 1992 to serve as the regional air quality planning agency to develop plans to address air pollution problems.[7] On June 22, 2016, the Governor of Arizona transmitted a letter to the EPA to update the planning certifications (Appendix C). The MAG 2026 Redesignation Request and Maintenance Plan for the West Central Pinal PM-2.5 Nonattainment Area has been prepared through a coordinated effort with the Arizona Department of Environmental Quality (ADEQ), Arizona Department of Transportation (ADOT), MAG, Pinal County Air Quality Control District (PCAQCD), and the Sun Corridor Metropolitan Planning Organization (SCMPO).

Chapter One of the MAG 2026 Redesignation Request and Maintenance Plan provides an introduction and overview of the plan including the regulatory history, a description of the nonattainment area, and the Clean Air Act (CAA) requirements for a Redesignation Request and Maintenance Plan. Chapter Two includes the components needed to satisfy a formal redesignation request.[8,9] Chapter Three presents the required Maintenance Plan which provides an assessment of air quality conditions, a comprehensive emissions inventory, PM-2.5 monitoring network description, a demonstration of continued attainment of the standard through year 2038, motor vehicle emissions budgets for transportation conformity, contingency provisions and a commitment to submit a second maintenance plan. Lastly, Chapter Four includes documentation of the public participation process.

1.2 2006 24-Hour Standard for Fine Particulate Matter (PM-2.5)

Particulate matter is one of the six criteria pollutants for which EPA is required to set NAAQS for

[7] *See Arizona Revised Statutes Section 49-406.A.*

[8] *Clean Air Act, 42 U.S.C. § 7407(d)(3)(E)*

[9] *Calcagni, John, Memorandum, Procedures for Processing Requests to Redesignate Areas to Attainment, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, September 4, 1992. Retrieved from: https://www.epa.gov/sites/default/files/2016-03/documents/calcagni_memo_-_procedures_for_processing_requests_to_redesignate_areas_to_attainment_090492.pdf*

under the CAA. EPA first issued standards for particulate matter in 1971 and subsequently revised the standards in 1987, 1997, 2006, and 2012. The 2006 revision addressed two categories of particle pollution: fine particles (PM-2.5), which have an aerodynamic diameter of 2.5 micrometers or smaller, and inhalable coarse particles (PM-10) which have a nominal aerodynamic diameter of less than 10 micrometers. EPA describes PM as "the term for a mixture of solid particles and liquid droplets found in the air. Some particles, such as dust, dirt, soot, or smoke, are large or dark enough to be seen with the naked eye. Others are so small they can only be detected using an electron microscope."[10]

The EPA established the separate annual and 24-hour standards for PM-2.5 in 1997.[11] The annual standard was set at 15.0 µg/m³. The 24-hour standard was set at 65 µg/m^3, based on a 3-year average of the 98th percentile of 24-hour PM-2.5 concentrations. In 2006, EPA lowered the 24-hour PM-2.5 standard from 65 to 35 µg/m^3 and retained the annual PM-2.5 standard at 15.0 µg/m^3. The revised PM-2.5 standards were published on October 17, 2006, and became effective on December 18, 2006.[12]

1.3 Historical Background

On February 3, 2011, EPA designated an area in the western central portion of Pinal County as nonattainment for the 2006 24-hour PM-2.5 NAAQS under subpart 1, part D of Title I of the CAA.[13] This area is known as the West Central Pinal PM-2.5 Nonattainment Area. EPA based its designation on 2006-2008 air quality monitoring data within the area.

On January 4, 2013, the U.S. Court of Appeals for the D.C. Circuit issued its decision regarding a legal challenge to the EPA's 2007 PM-2.5 Implementation Rule.[14] The court held that the EPA erred in implementing the 1997 PM-2.5 NAAQS pursuant only to the general implementation requirements of subpart 1, rather than also to the implementation requirements specific to coarse particulate matter (PM-10) in subpart 4, part D of title I of the CAA (''subpart 4''). As a result of this decision, EPA published a final rule on June 2, 2014, classifying all areas, including the West Central Pinal PM-2.5 Nonattainment Area, as Moderate under subpart 4.[15] The new Moderate designation established an attainment date of December 31, 2017, and set a due date of December 31, 2014, for submittal of a state implementation plan (SIP) revision that demonstrated attainment of the standard in the nonattainment area by the attainment date.

However, on September 4, 2013, EPA issued a Clean Data Determination (CDD) for the West

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[10] U.S. Environmental Protection Agency, Particulate Matter Basics. Retrieved from https://www.epa.gov/pm-pollution/particulate-matter-pm-basics#PM. Retrieved on February 2026.

[11] National Ambient Air Quality Standards for Particulate Matter (1997 Standard), 62 Fed. Reg. 38652, July 18, 1997.

[12] National Ambient Air Quality Standards for Particulate Matter (2006 Standard), 71 Fed. Reg. 61144, October 17, 2006.

[13] Additional Air Quality Designations for the 2006 24-Hour Fine Particle National Ambient Air Quality Standards, 110(k)(6) Correction and Technical Correction Related to Prior Designation, and Decisions Related to the 1997 Air Quality Designations and Classifications for the Annual Fine Particles National Ambient Air Quality Standards,76 Fed. Reg. 6056, February 3, 2011.

[14] Nat. Resources Def. Council v. EPA, 706 F.3d 428 (D.C. Cir. 2013).

[15] Identification of Nonattainment Classification and Deadlines for Submission of State Implementation Plan (SIP) Provisions for the 1997 Fine Particle (PM2.5) National Ambient Air Quality Standard (NAAQS) and 2006 PM2.5 NAAQS, 79 Fed. Reg. 31566, June 2, 2014.

Central Pinal PM-2.5 Nonattainment Area based on 2010-2012 air quality monitoring data.[16] EPA's CDD suspended certain CAA requirements for the West Central Pinal PM-2.5 Nonattainment Area for so long as the area continues to attain the 2006 24-hour PM-2.5 NAAQS, including requirements to submit an attainment demonstration pursuant to CAA Section 189(a)(1)(B), the reasonably available control measure (RACM) provisions of CAA Section 189(a)(1)(C), the reasonable further progress (RFP) provisions of CAA Section 189(c), and related attainment demonstration, RACM, RFP and contingency measure provisions requirements of Subpart 1, Section 172 of the CAA. As a result of EPA's CDD, a SIP revision demonstrating attainment of the standard was no longer required to be submitted to EPA by December 31, 2014.

Lastly, on October 3, 2019, the EPA published a final rule that determined the area had attained the NAAQS by the attainment date of December 31, 2017, based on 2015-2017 air quality monitoring data and issued a Determination of Attainment by the Attainment Date (DAAD).[17] The DAAD also relieved the requirements to submit an attainment plan SIP revision and several other requirements consistent with the previous CDD. Together these determinations suspend most of the CAA SIP planning requirements but did not redesignate the West Central Pinal PM-2.5 Nonattainment Area to attainment. The remaining CAA requirements[18] for the West Central Pinal PM-2.5 Nonattainment Area to be redesignated as an attainment area are addressed in this MAG 2026 Redesignation Request and Maintenance Plan.

1.4 Nonattainment Area

As defined in the CAA, the term nonattainment area refers to locations which exceed any NAAQS for any pollutant based upon the data collected through air quality monitoring.[19] A general description of the West Central Pinal PM-2.5 Nonattainment Area, including a discussion of the boundaries, the geography and climatic conditions is provided in subsequent subsections. Figure 1-1 shows the West Central Pinal PM-2.5 Nonattainment Area which includes unincorporated and incorporated areas, Metropolitan Planning Organizations (MPO) planning area boundaries, Native Nations, and wilderness areas.

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[16] *Determination of Attainment for the West Central Pinal Nonattainment Area for the 2006 Fine Particle Standard; Arizona; Determination Regarding Applicability of Clean Air Act Requirements, 78 Fed. Reg. 54394, September 4, 2013.*

[17] *Determination of Attainment by the Attainment Date; 2006 24-Hour Fine Particulate Matter National Ambient Air Quality Standard; Pinal County, Arizona, 84 Fed. Reg. 52766, October 3, 2019.*

[18] *Calcagni, John, Memorandum, Procedures for Processing Requests to Redesignate Areas to Attainment, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, September 4, 1992. Retrieved from: https://www.epa.gov/sites/default/files/2016-03/documents/calcagni_memo_-_procedures_for_processing_requests_to_redesignate_areas_to_attainment_090492.pdf*

[19] *Nonattainment area means an area designated as nonattainment under Section 107 of the Act and described in 40 CFR part 81.*

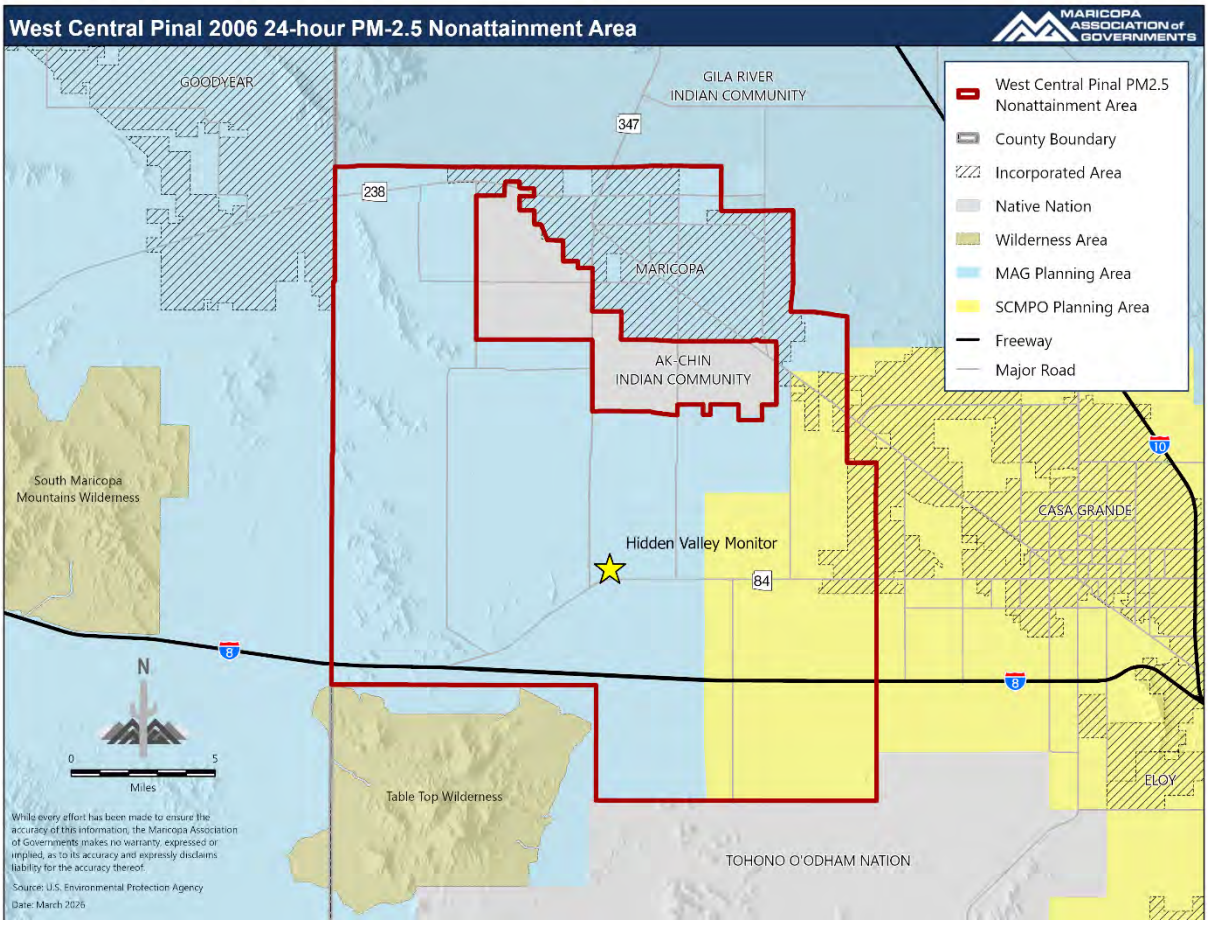


Figure 1-1 West Central Pinal PM-2.5 Nonattainment Area.

1.4.1 Nonattainment Area Boundaries

The West Central Pinal PM-2.5 Nonattainment Area is located in the west-central portion of Pinal County and shares a western border with Maricopa County. The nonattainment area encompasses approximately 323 square miles and includes parts of two metropolitan planning organizations, MAG and the Sun Corridor Metropolitan Planning Organization (SCMPO). The Gila River Indian Community's land shares the nonattainment area's northern boundary. The Ak-Chin Indian Community's land is centrally located to the mid-northwestern portion on the area, but officially excluded from the nonattainment area, creating a "donut hole" within the area. Both the Table Top Wilderness and the Tohono O'odham Nation delineate the southwest borders. EPA's final designation defined the boundaries of the nonattainment area to encompass the following townships and ranges:

T4S, R2E – R4E, except Indian Country; T5S, R2E – R4E, except Indian Country; T6S, R2E – R4E; T7S, R2E, except sections 13 - 36; T7S, R3E, except-NW ¼, NW ¼ of section 15, SW ¼, NW ¼ of section 15, NW ¼, SW ¼ of section 15, SW ¼, SW ¼ of section 15; sections 16 – 21; NW ¼, NW ¼ of section 22, SW ¼ , NW ¼ of section 22, NW ¼ , SW ¼ of section 22, SW ¼ , SW ¼ of section 22; NW ¼ , NW ¼ of section 27, SW ¼ , NW ¼ of section 27, NW ¼ , SW ¼ of section 27, SW ¼ , SW ¼ of section 27; sections 28-33; and NW ¼ , NW ¼ of section 34, SW ¼ , NW ¼ of section

34, NW ¼ , SW ¼ of section 34, SW ¼ , SW ¼ of section 34; T7S, R4E.[20]

1.4.2 Geography and Climatic Conditions

The West Central Pinal PM-2.5 Nonattainment Area is situated in Pinal County, which is located in central Arizona. The nonattainment area covers approximately six percent of total Pinal County land area. Pinal County lies between the City of Phoenix and City of Tucson metropolitan areas and encompasses approximately 5,374 square miles. The eastern portion of Pinal County is mountainous with elevations up to 6,000 feet, whereas the western region primarily consists of low desert valleys. Pinal County consists of several cities that sit on various elevations. The elevation of the nonattainment area is approximately 1,173 ft.

The climate in the nonattainment area is arid with an annual mean temperature of approximately 71.9°F, which is lower than the Phoenix Sky Harbor Airport annual mean temperature of approximately 75.6°F.[21] The mean maximum temperature reaches 89.2°F in summer and the mean minimum temperature drops to 54°F in winter. Figure 1-2 provides a summary of normal seasonal temperatures to show daily maximum, daily minimum, and mean temperatures measured near the nonattainment area. The data collected from the Maricopa 4N station is the nearest available data to the PM-2.5 nonattainment area over 30 years.

Historically, the driest time of the year for the nonattainment area is typically April through June followed by September through November. A 30-year average provided by the National Oceanic and Atmospheric Administration (NOAA) documents the highest seasonal mean precipitation recorded near the nonattainment area that reached 2.32 inches during the winter months and typically 7.11 inches annually. These data represent a summary of annual/seasonal normal rainfall amounts for 1991-2020.[22] Riverbeds and washes throughout the nonattainment area are generally dry, except during torrential rainfall, which happens infrequently. Figure 1-3 displays the 30-year average precipitation.

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[20]Additional Air Quality Designations for the 2006 24-Hour Fine Particle National Ambient Air Quality Standards, 110(k)(6) Correction and Technical Correction Related to Prior Designation, and Decisions Related to the 1997 Air Quality Designations and Classifications for the Annual Fine Particles National Ambient Air Quality Standards76 Fed. Reg. 6056, February 3, 2011.

[21]NOAA, 2026. U.S. Climate Normals Quick Access tool. Website data accessed on February 10, 2026. Retrieved from: https://www.ncei.noaa.gov/access/us-climate-normals/#dataset=normals-annualseasonal&timeframe=30&location=AZ&station=USC00025270

[22]Ibid.

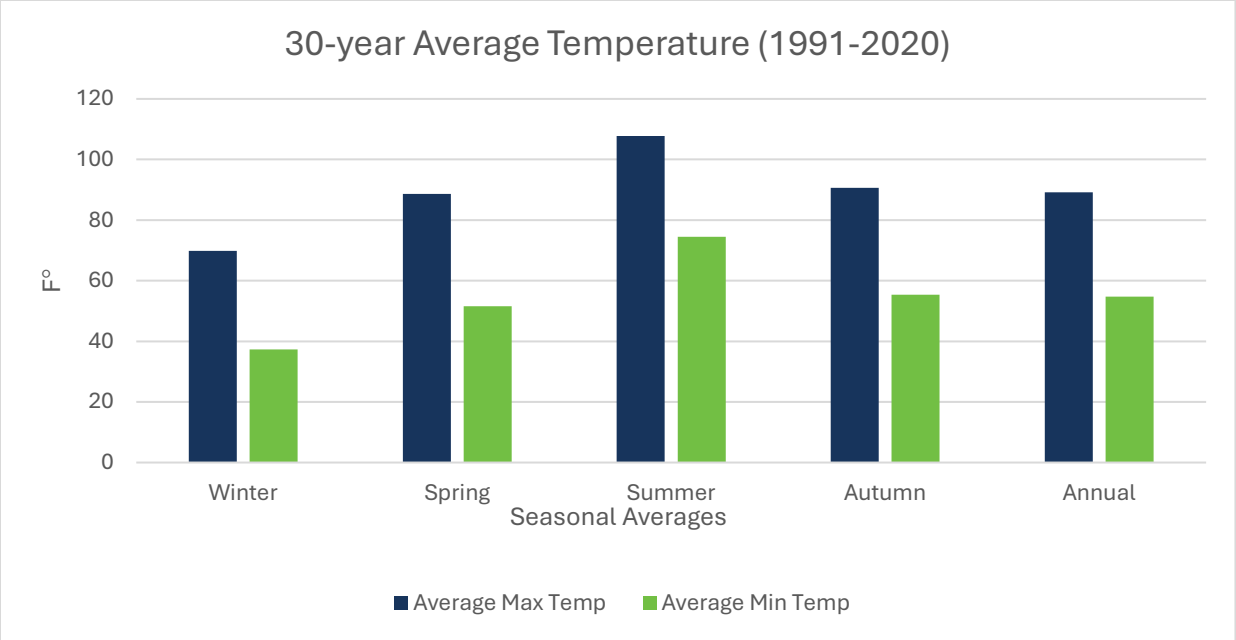


Figure 1-2 30-year average temperature (1991-2020).

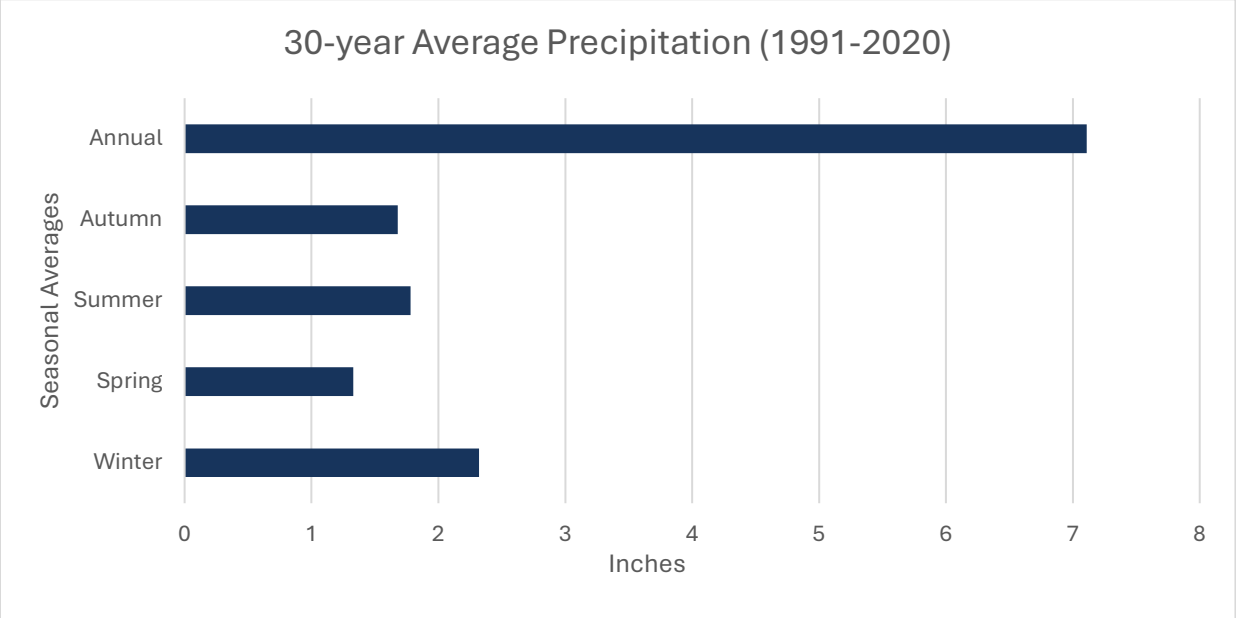


Figure 1-3 30-year average precipitation (1991-2020).

1.4.3 Population Demographics

The West Central Pinal PM-2.5 Nonattainment Area contains the entirety of the incorporated City of Maricopa and a portion of the incorporated City of Casa Grande. The majority of land in the area consists of unincorporated rural land. According to the MAG socioeconomic analysis, the nonattainment area has a population of 80,041 in 2023. Population for the nonattainment area and the entirety of Pinal County are provided below for comparison. Due to increased urbanization, population within the nonattainment area is projected to grow swiftly throughout 2030 and 2038, and a rate faster than Pinal County as a whole.

Table 1-1 Summary of the West Central Pinal PM-2.5 Nonattainment Area and Pinal county-wide population and growth.

Population Type	2023 Pinal County	2023 PM-2.5 NAA	2030 Pinal County	2030 PM-2.5 NAA	2038 Pinal County	2038 PM-2.5 NAA
Residential	470,484	75,227	587,821	101,256	738,734	118,638
Transient	11,323	596	13,153	779	15,864	873
Seasonal	33,364	4,218	42,108	5,362	53,354	6,719
Total	515,171	80,041	643,082	107,397	807,952	126,230
Percent growth	-	-	25%	34%	57%	58%

1.4.4 PM-2.5 Design Values

The West Central Pinal PM-2.5 Nonattainment Area contains one PM-2.5 monitor, known as the Hidden Valley monitor. A map of the Hidden Valley monitor location is shown earlier in Figure 1-1. Since 2017, this monitor has served as the regulatory monitor within the nonattainment area and determines whether or not compliance with the 2006 24-hour PM-2.5 NAAQS is attained.

Compliance with the 2006 24-hour PM-2.5 NAAQS in the nonattainment area is determined by comparing the Hidden Valley monitoring site "design value" to the standard. Design values for the 2006 24-hour PM-2.5 NAAQS are calculated using three years of certified monitoring data. Specifically, the 98th percentile of monitored 24-hour concentrations in each year is averaged over three years to yield the design value. The design value must be at or below the standard (35 $\mu g/m^3$) in order to be in compliance with the standard. As shown in Figure 1-4 below, the Hidden Valley monitor design value has met the standard since 2022. Additional information on air quality monitoring data in the nonattainment area is included in Chapter Three.

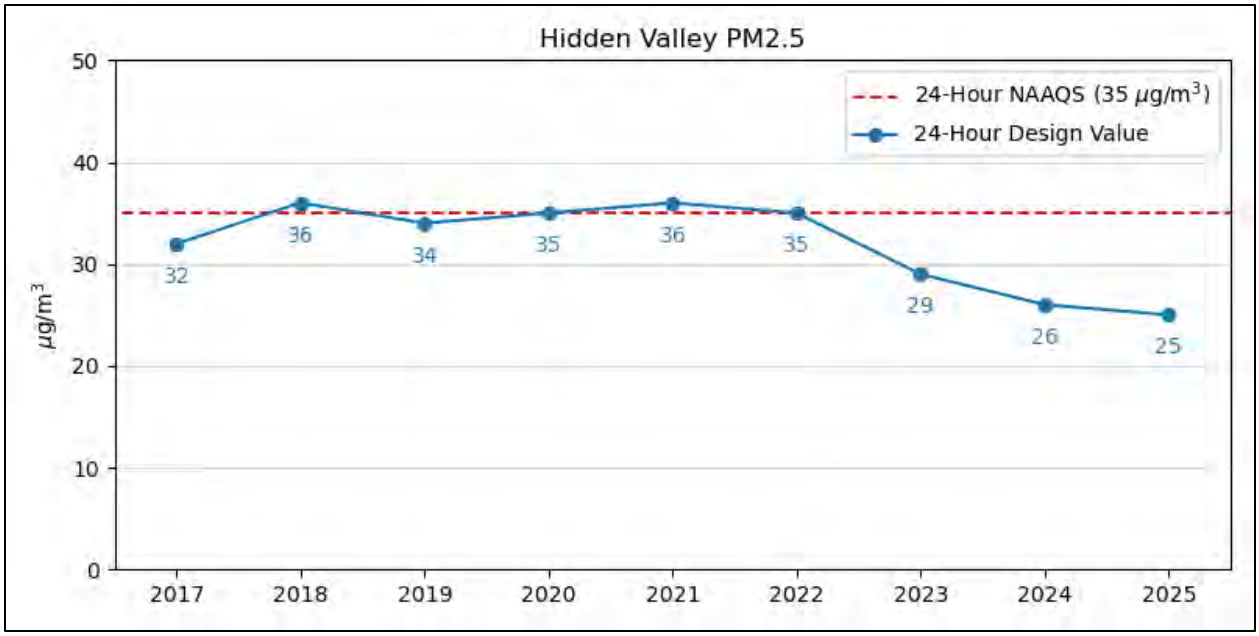


Figure 1-4 PM-2.5 design values at the Hidden Valley monitor.

1.5 Redesignation Request and Maintenance Plan Requirements

Section 107(d)(3)(E) of the CAA define the criteria that must be met before an area can be redesignated to attainment. This MAG 2026 Redesignation Request and Maintenance Plan demonstrates that the West Central Pinal PM-2.5 Nonattainment Area meets the five required criteria, which are summarized below:

1. The Administrator determines that the area has attained the standard - CAA §107(d)(3)(E)(i)

Chapter Two references the applicable EPA actions which indicate the nonattainment area has attained the 2006 24-hour PM-2.5 NAAQS. On October 3, 2019,[23] EPA determined that the area attained the 2006 24-hour PM-2.5 NAAQS based on 2015-2017 air quality monitoring data. EPA also issued a clean data determination based on 2010-2012 air quality monitoring data on September 4, 2013.[24] Since 2022, there have been no violations of the standard within the area.

2. The Administrator has fully approved the applicable implementation plan under Clean Air Act Section 110 (k) - CAA §107(d)(3)(E)(ii)

Chapter Two references EPA's regulatory actions in 2013 and 2019 which relieved the West Central Pinal PM-2.5 Nonattainment Area from nearly all nonattainment area CAA SIP revision requirements so long as the area continues to attain the 2006 24-hour PM-2.5 NAAQS. These actions suspended CAA SIP requirements to submit an attainment demonstration, reasonably available control measures (RACM), a reasonable further progress (RFP) plan, and contingency measures for failure to attain or meet RFP. The remaining applicable requirement are satisfied

[23] *Determination of Attainment by the Attainment Date; 2006 24-Hour Fine Particulate Matter National Ambient Air Quality Standard; Pinal County, Arizona, 84 Fed. Reg. 52766, October 3, 2019.*

[24] *Determination of Attainment for the West Central Pinal Nonattainment Area for the 2006 Fine Particle Standard; Arizona; Determination Regarding Applicability of Clean Air Act Requirements, 78 Fed. Reg. 54394, September 4, 2013.*

by the inclusion of a comprehensive 2023 emissions inventory in the Maintenance Plan as detailed in Chapter Three.

3. The Administrator determined that the improvement in air quality is due to permanent and enforceable emission reductions - CAA §107(d)(3)(E)(iii)

Chapter Two includes a discussion and provides evidence that existing local, state, and federal emissions control measures have resulted in attainment of the 2006 24-hour PM-2.5 standard within the nonattainment area. Attainment of the 2006 24-hour PM-2.5 NAAQS has continued through a variety of meteorological conditions, showing that favorable weather is not solely responsible for improved air quality conditions.

4. The State containing such an area has met all requirements applicable to the area under Section 110 and part D of the Act - CAA §107(d)(3)(E)(v)

Chapter Two references Arizona's approved infrastructure SIP for the 2006 and 2012 PM-2.5 standards which satisfies CAA Section 110(a) requirements including requirements pertaining to the state and local air district legal authority, regulatory structure, resources, permit programs, and monitoring necessary to assure attainment and maintenance of the 2006 and 2012 PM-2.5 NAAQS in the West Central Pinal PM-2.5 Nonattainment Area. As discussed above, EPA referenced actions in 2013 and 2019 relieved and suspended the area from most CAA Part D requirements. The remaining Part D requirements for the West Central Pinal PM-2.5 Nonattainment Area are addressed in Chapter Three.

5. The Administrator has fully approved a maintenance plan for the area as meeting the requirements of Section 175A of the Act - CAA §107(d)(3)(E)(iv)

Chapter Three addresses CAA maintenance plan requirements within 175A and the Calcagni Memo.[25] The Maintenance Plan in Chapter Three provides for continued maintenance of the PM-2.5 standard for ten years after redesignation and includes the following components:

1. Attainment year emissions inventory;
2. Maintenance demonstration;
3. Commitment to continue the monitoring network operation;
4. Commitment for verification of continued attainment; and
5. Contingency provisions to correct any violation of the PM-2.5 standard that occurs after the area has been redesignated.

In addition, Chapter Three includes motor vehicle emissions budgets for transportation conformity and a commitment to submitting a second Maintenance Plan for demonstrating maintenance of the standard for 20 years after redesignation.

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[25] *Calcagni, John, Memorandum, Procedures for Processing Requests to Redesignate Areas to Attainment, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, September 4, 1992. Retrieved from: https://www.epa.gov/sites/default/files/2016-03/documents/calcagni_memo_-_procedures_for_processing_requests_to_redesignate_areas_to_attainment_090492.pdf*

2. Redesignation Request

The Maricopa Association of Governments requests that the U.S. Environmental Protection Agency redesignate the West Central Pinal PM-2.5 Nonattainment Area to attainment for the 2006 24-hour PM2.5 NAAQS. EPA determined in 2019 that the nonattainment area attained the standard by the December 31, 2017, attainment date and there have been no violations of the standard within the nonattainment area since 2022. As such, the nonattainment area is eligible for redesignation.

Section 107(d)(3)(E) of the CAA define the criteria that must be met before an area can be redesignated to attainment. The criteria are listed below and discussed in the following subsections:

1. The Administrator determines that the area has attained the standard - CAA §107(d)(3)(E)(i)
2. The Administrator has fully approved the applicable implementation plan under Clean Air Act Section 110 (k) - CAA §107(d)(3)(E)(ii)
3. The Administrator determined that the improvement in air quality is due to permanent and enforceable emission reductions - CAA §107(d)(3)(E)(iii)
4. The State containing such an area has met all requirements applicable to the area under Section 110 and part D of the Act - CAA §107(d)(3)(E)(v)
5. The Administrator has fully approved a maintenance plan for the area as meeting the requirements of Section 175A of the Act - CAA §107(d)(3)(E)(iv)

2.1 Determination that the Area has Attained the Standard

On two separate occasions, EPA has made determinations that the West Central Pinal PM-2.5 Nonattainment Area has attained the 2006 24-hour PM-2.5 NAAQS. Initially, on September 4, 2013, EPA issued a Clean Data Determination (CDD) based on air quality monitoring data from 2010-2012.[26] Then, on October 3, 2019,[27] EPA published a final rule that determined that the area attained the 2006 24-hour PM-2.5 NAAQS by the December 31, 2017, attainment date based on air quality monitoring data from 2015-2017. Since 2022, no violations of the standard have occurred in the nonattainment area. Additional information on air quality monitoring data in the nonattainment area is included in Chapter Three.

[26] *Determination of Attainment for the West Central Pinal Nonattainment Area for the 2006 Fine Particle Standard; Arizona; Determination Regarding Applicability of Clean Air Act Requirements, 78 Fed. Reg. 54394, September 4, 2013.*

[27] *Determination of Attainment by the Attainment Date; 2006 24-Hour Fine Particulate Matter National Ambient Air Quality Standard; Pinal County, Arizona, 84 Fed. Reg. 52766, October 3, 2019.*

2.2 The Areas has a Fully Approved Applicable Implementation Plan

Regulatory actions by EPA in 2013 and 2019[28] relieved the West Central Pinal PM-2.5 Nonattainment Area from nearly all nonattainment area SIP planning requirements for so long as the area continues to attain the 2006 24-hour PM-2.5 NAAQS. As such, a nonattainment area implementation plan was never submitted to EPA. These actions specifically suspended CAA requirements to submit an attainment demonstration, reasonably available control measures (RACM), a reasonable further progress (RFP) plan, and contingency measures for failure to attain or meet RFP. The CAA requirement to submit a comprehensive emissions inventory for the area is fulfilled in the Maintenance Plan in Chapter 3 which includes a 2023 attainment year inventory, a 2030 interim year inventory, and a 2038 maintenance year inventory.

2.3 Determination that the Improvement in Air Quality is due to Permanent and Enforceable Emissions Reductions

As referenced in the above subsections, EPA issued a CDD in October 2013 based on air quality monitoring data from 2010-2012 which suspended CAA planning requirements in the nonattainment area to submit an attainment demonstration, reasonably available control measures (RACM), a reasonable further progress (RFP) plan, and contingency measures for failure to attain and meet RFP. EPA's action in 2013 occurred only two years after the West Central Pinal PM-2.5 Nonattainment Area was designated as a nonattainment area and a year before an attainment plan SIP revision was due to EPA for the area (December 31, 2014). As such, specific new control measures to limit PM-2.5 emissions were not developed within the nonattainment area. EPA definitively demonstrated through issuance of the CDD that existing controls were sufficient to bring the area in attainment with the 2006 24-hour PM-2.5 standard. In 2019, EPA again reaffirmed that the area had attained the standard based on 2015-2017 air quality data with the existing control measures in place. Since 2022, there have been violations of the 2006 24-hour PM-2.5 NAAQS within the nonattainment area.

2.3.1 Existing Permanent and Enforceable Emission Controls

While specific PM-2.5 control measures were not developed for the nonattainment area due to the 2013 CDD by EPA, the West Central Pinal PM-2.5 Nonattainment Area is subject to existing local, state and federal particulate matter control measures that are designed to limit PM-10, of which PM-2.5 is a subset of. Many of these measures have been strengthened over time since the nonattainment area was initially designated in 2011. In particular, since 2021, a total of 61 new particulate matter control measures designed to limit PM-10 emissions within the West Pinal County PM-10 Nonattainment Area have been adopted.[29] These measures were classified as best available control measures, and in some cases most stringent measures, for controlling PM-10 emissions. These measures were designed to, at a minimum, reduce PM-10 by five percent per

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[28] Determination of Attainment for the West Central Pinal Nonattainment Area for the 2006 Fine Particle Standard; Arizona; Determination Regarding Applicability of Clean Air Act Requirements, 78 Fed. Reg. 54394, September 4, 2013; and Determination of Attainment by the Attainment Date; 2006 24-Hour Fine Particulate Matter National Ambient Air Quality Standard; Pinal County, Arizona, 84 Fed. Reg. 52766, October 3, 2019.

[29] Maricopa Association of Governments 2023 Five Percent Particulate Plan for PM-10 for the West Pinal County Nonattainment Area, December 2023.

year until the area demonstrated attainment in 2026. The five percent reductions in PM-10 emissions also directly lead to reductions in PM-2.5 emissions.

As shown in Figure 2-1, the West Central Pinal PM-2.5 Nonattainment Area is located entirely within the boundaries of the West Pinal County PM-10 Nonattainment Area. As such, the PM-2.5 nonattainment area was subject to the emission reduction benefits from PM-10 controls implemented throughout the PM-10 nonattainment area. A listing of the most impactful permanent and enforceable local, state and federal control measures which have contributed to attainment of the 2006 24-hour PM-2.5 standard is provided in Table 2-1.

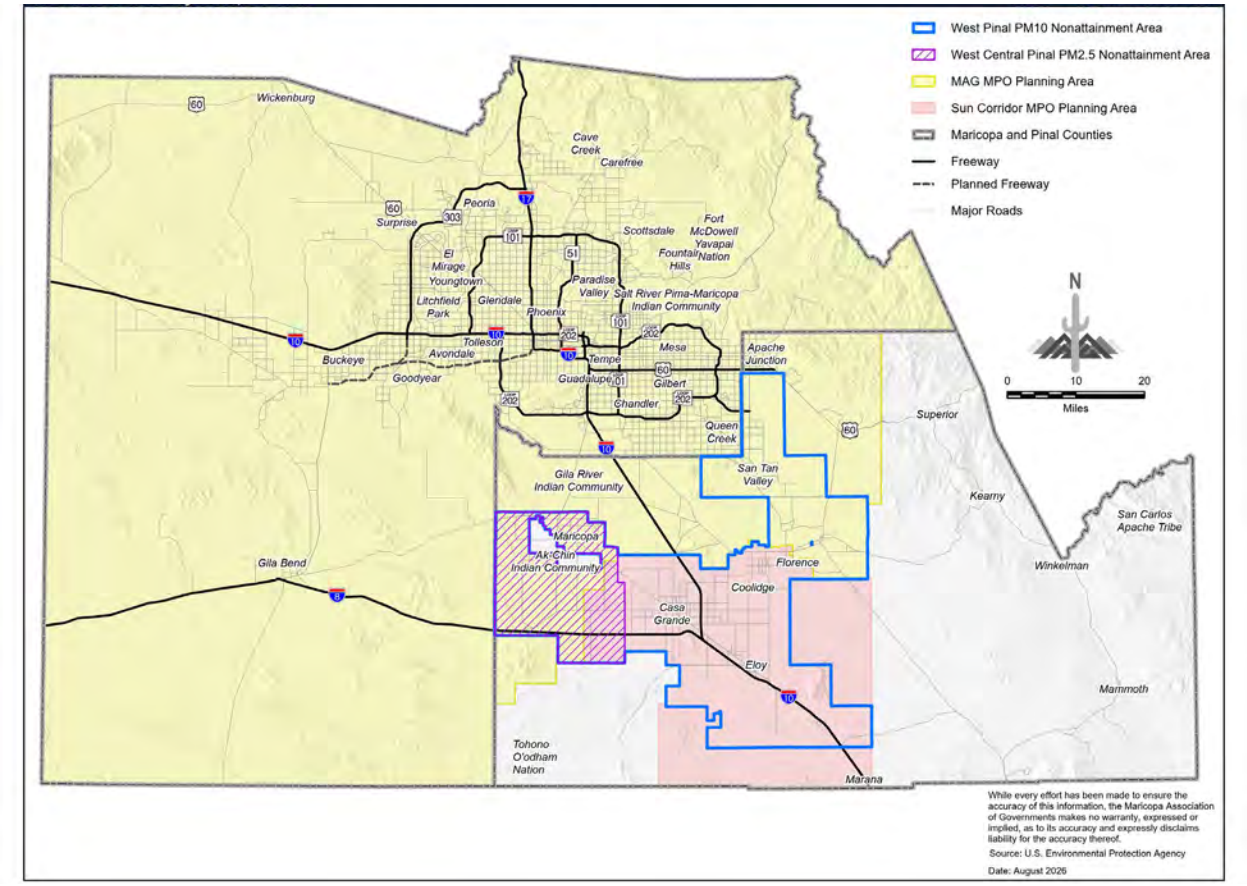


Figure 2-1 Location of PM-2.5 and PM-10 nonattainment areas in Pinal County.

The majority of the local and state rules are designed to limit the emissions of fugitive dust from source categories that are active in the nonattainment area. Fugitive dust is a primary contributor to the direct emissions of PM-2.5 within the nonattainment area. These local and state rules also limit emissions of organic matter, another significant component of PM-2.5 formation within the nonattainment area. As detailed in Chapter Three of this plan, 76 percent of reconstructed PM-2.5 mass in the nonattainment area is from organic mass and soil/crustal components. The PCAQCD fugitive dust rules listed in Table 2-1 apply to, and limit fugitive dust emissions from, source categories including construction sites, open and cleared areas, unpaved roads and parking lots, and paved road dust - while also contributing to reductions in windblown dust from these same source categories. The state rules apply specifically to agricultural sources, limiting

both fugitive dust emissions and the organic matter emissions from confined animal feeding operations, dairies, cropland, and windblown dust from these sources.

The federal rules control exhaust emissions, including particulate matter, from onroad and nonroad engines. Additionally, PCAQCD has delegation authority from the Arizona Department of Environmental Quality to issue both major and minor source permits within the nonattainment area for stationary sources, directly limiting emissions of PM-2.5 and precursor pollutants at the facility level. In summary, the local, state and federal rules in place within the nonattainment area result in permanent and enforceable emission reductions of PM-2.5 and precursor pollutants.

Table 2-1 Existing permanent and enforceable control measures that have contributed to attainment of the 24-hour PM-2.5 NAAQS in the West Central Pinal PM-2.5 Nonattainment Area.

Regulation Type	Existing Control Measure	Adoption Date
Local	PCAQCD Chapter 4, Article 1: West Pinal PM-10 Serious Nonattainment Area Fugitive Dust	January 25, 2023
Local	PCAQCD Chapter 4, Article 3: Construction Sites – Fugitive Dust	January 25, 2023
State	Arizona Administrative Code R18-2-610, R18-2-610.03, R18-2-611, and R18-2.611.03	November 26, 2021
Federal	Tier 3 Motor Vehicle Emission and Fuel Standards	April 18, 2014
Federal	Control of Emissions From Nonroad Spark-Ignition Engines and Equipment	October 8, 2008

2.3.2 Downward Trend in PM-2.5 Concentrations Since Adoption of Tighter Local Particulate Matter Controls

The emission reduction benefits of the adoption of tighter local particulate matter controls within the nonattainment area can directly be seen in reduced PM-2.5 design value concentrations. As shown below, since 2022, the design value has decreased by about 28 percent between design value years 2022 to 2025. At the same time, population, employment and vehicle travel in the nonattainment area increased by more than 17 percent.[30] Figure 2-2 shows the long-term PM-2.5 design value trend at the Hidden Valley monitor, along with a demarcation for the implementation of PM-10 controls. Visible co-benefits in reductions of PM-2.5 concentrations can been seen at the Hidden Valley monitor since stricter PM-10 control implementation began in approximately 2022. In summary, the existence of adequate local, state and federal particulate matter controls, the adoption of tighter PM-10 controls measures beginning in late 2021, and the co-reduction of PM-2.5 design values since 2022 demonstrate that the improvement in PM-2.5 air quality in the nonattainment area is due to permanent and enforceable emissions reductions.

[30] *City of Maricopa Office of Economic Opportunity, Retrieved from: https-inmaricopa-com-new-population-data-maricopa-tops-pinal-and-pinal-tops-arizona/, Date retrieved June 11, 2026.*

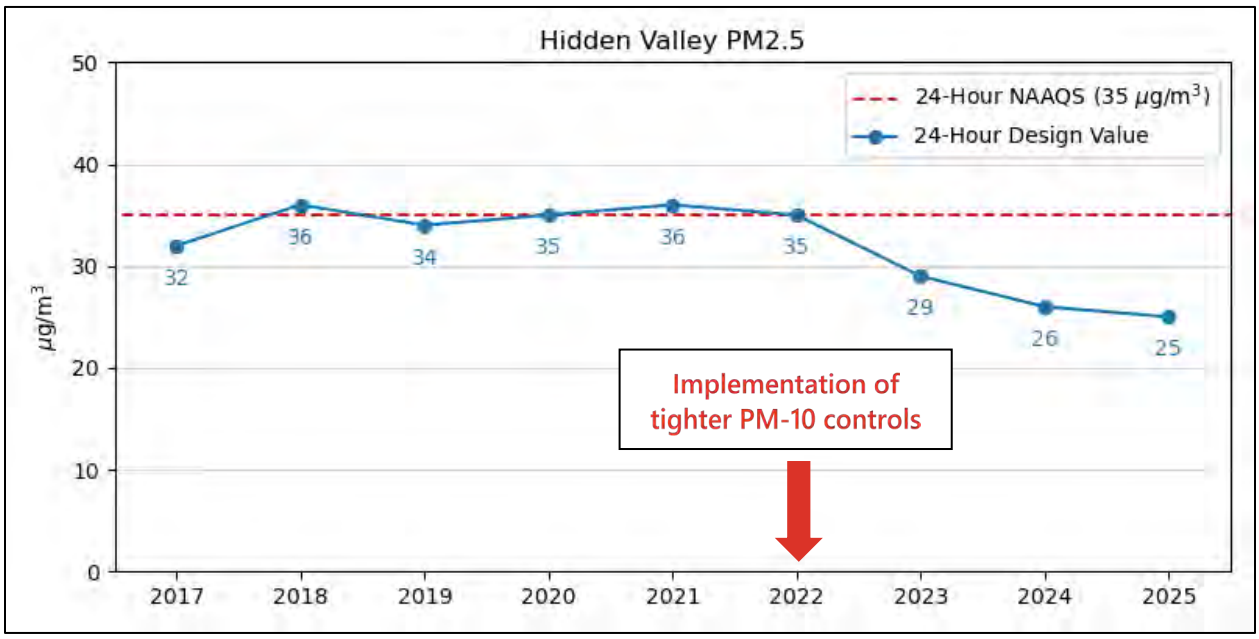


Figure 2-2 Hidden Valley monitor design value trends (2017-2025).

2.4 The State has met all Requirements Applicable to the Area under Section 110 and Part D of the Act

The requirements of CAA Section 110 are met through the State's submittal, and EPA's approval, of an infrastructure SIP. Sections 110(a)(1) and 110(a)(2) of the Act require the state to submit a SIP revision that provides for the implementation, maintenance, and enforcement of each primary of secondary NAAQS within three years after promulgation of a new, or revised NAAQS. Requirements in Part D of the Act include both general nonattainment area requirements and pollutant specific nonattainment area requirements under the subparts of Part D.

The requirements of both Section 110 and Part D of the Act have been sufficiently met in Arizona and the West Central Pinal PM-2.5 Nonattainment Area (as they apply to the 2006 24-hour PM-2.5 NAAQS) to allow for redesignation of the nonattainment area to attainment. The following subsections details how those requirements have been met.

2.4.1 Requirements Related to CAA Section 110 - Arizona Infrastructure SIP for the 2006 24-Hour PM-2.5 NAAQS

Clean Air Act Sections 110(a)(2)(A) through 110(a)(2)(M) contain the specific elements and requirements that comprise an "infrastructure SIP". In general, an infrastructure SIP and the requirements of Section 110(a)(2)(A) detail how the state will implement, meet, and enforce federal standards for NAAQS and describes the regulatory infrastructure Arizona has in place to protect air quality, such as:

- Enforceable emissions limitations;
- Monitoring, compiling, and analyzing of ambient air quality data;
- Preconstruction review of new or modified stationary sources;
- Interstate pollution transport provisions;
- Adequate funding, staff, and resources necessary to implement its requirements; and
- Assurances that the State maintains responsibility for ensuring CAA requirements are met.

On November 5, 2012, EPA published a final rule that approved most of the requirements of Section 110(a)(2) for the 2006 24-hour PM-2.5 NAAQS in Arizona.[31] Subsequent final rulemakings by EPA approved additional requirements of Section 110(a)(2).

Additionally, EPA has consistently interpreted "that section 110 elements not linked to the area's nonattainment status are not applicable for redesignation".[32, 33] Accordingly, requirements under Section 110(a)(2)(D) concerning the interstate transport of pollution are not "linked" to a particular nonattainment area and would not need to be evaluated in a redesignation request. Table 2-2 includes the relevant EPA actions approving Section 110 infrastructure elements for the 2006 24-hour PM-2.5 NAAQS.

[31] *Partial Approval and Disapproval of Air Quality Implementation Plans; Arizona; Infrastructure Requirements for Ozone and Fine Particulate Matter* , 77 Fed. Reg. 66398, November 5, 2012.

[32] *Approval and Promulgation of Implementation Plans; Designation of Areas for Air Quality Planning Purposes; State of California; PM–10; Revision of Designation; Redesignation of the San Joaquin Valley Air Basin PM–10 Nonattainment Area to Attainment; Approval of PM–10 Maintenance Plan for the San Joaquin Valley Air Basin; Approval of Commitments for the East Kern PM–10 Nonattainment Area, 73 Fed. Reg. 22313, November 12, 2008.*

[33] *Guidance on Infrastructure State Implementation Plan (SIP) Elements under Clean Air Act Sections 110(a)(1) and 110(a)(2), Memorandum from Stephen D. Page, September 13, 2013.*

Table 2-2 EPA approval actions related to Clean Air Act Section 110 infrastructure requirements for the 2006 24-hour PM-2.5 NAAQS in Arizona and Pinal County.

Section 110(a)(2) Requirement	EPA Approval Action
Section 110(a)(2)(A) Emission limits and other control measures	77 FR 66398 – November 5, 2012
Section 110(a)(2)(B) Ambient air quality monitoring/data system	77 FR 66398 – November 5, 2012
Section 110(a)(2)(C) Program for enforcement of control measures and regulation of new and modified stationary sources.	83 FR 19631 – May 4, 2018, and 86 FR 31927 – June 16, 2021. Additional information specific to current permitting programs in Pinal County is included in Table 2-3.
Section 110(a)(2)(D)(i) - I Prong 1: Interstate transport - significant contribution	Requirement not applicable for redesignation per EPA policy interpretation (per 73 FR 22313).
Section 110(a)(2)(D)(i) - I Prong 2: Interstate transport - interfere with maintenance	Requirement not applicable for redesignation per EPA policy interpretation (per 73 FR 22313).
Section 110(a)(2)(D)(i) - II Prong 3: Interstate transport - prevention of significant deterioration	Requirement not applicable for redesignation per EPA policy interpretation (per 73 FR 22313).
110(a)(2)(D)(i) - II Prong 4: Interstate transport - protect visibility	Requirement not applicable for redesignation per EPA policy interpretation (per 73 FR 22313).
Section 110(a)(2)(D)(ii) Interstate and international pollution abatement	Requirement not applicable for redesignation per EPA policy interpretation (per 73 FR 22313).
Section 110(a)(2)(E) Adequate resources, legal authority, conflict of interest, and State oversight of local or regional government agencies	80 FR 47859 – August 10, 2015. Action specific to Pinal County.
Section 110(a)(2)(F) Stationary source monitoring system	77 FR 66398 – November 5, 2012. EPA partial disapproval for this requirement only applicable to Pima County.
Section 110(a)(2)(G) Emergency power	77 FR 66398 – November 5, 2012.
Section 110(a)(2)(H) Future SIP revisions	77 FR 66398 – November 5, 2012.
Section 110(a)(2)(J) Consultation with government officials; Public notification; PSD & visibility protection	83 FR 19631 – May 4, 2018.
Section 110(a)(2)(K) Air quality modeling/data	83 FR 42214 – August 21, 2018.
Section 110(a)(2)(L) Permitting fees	77 FR 66398 – November 5, 2012.
Section 110(a)(2)(M) Consultation/participation by affected local entities	77 FR 66398 – November 5, 2012.

2.4.2 Requirements Related to CAA Part D – Plan Requirements for Nonattainment Areas

Part D of the CAA includes both general requirements for nonattainment areas and pollutant-specific nonattainment area requirements. The general nonattainment area requirements are listed in Section 172(c) of the Act. For PM-2.5, the pollutant-specific nonattainment area requirements of Section 189 also apply. Table 2-3 includes a listing of the Part D requirements and how they have been met within the West Central Pinal PM-2.5 Nonattainment Area.

Table 2-3 Clean Air Act Part D requirements for nonattainment areas and how they have been met within the West Central Pinal PM-2.5 Nonattainment Area.

Part D Requirement	How the Requirement has been Met
Section 172(c)(1) – *"Such plan provisions shall provide for the implementation of all reasonably available control measures as expeditiously as practicable (including such reductions in emissions from existing sources in the area as may be obtained through the adoption, at a minimum, of reasonably available control technology) and shall provide for attainment of the national primary ambient air quality standards."*	On September 4, 2013, EPA issued a Clean Data Determination (CDD) for the West Central Pinal PM-2.5 Nonattainment Area based on 2010-2012 air quality monitoring data. EPA's CDD suspended this requirement.
Section 172(c)(2) – *"Such plan provisions shall require reasonable further progress."*	On September 4, 2013, EPA issued a Clean Data Determination (CDD) for the West Central Pinal PM-2.5 Nonattainment Area based on 2010-2012 air quality monitoring data. EPA's CDD suspended this requirement. Additionally, on October 3, 2019, the EPA published a final rule that determined the area had attained the NAAQS by the attainment date of December 31, 2017. This action also relieved the requirements to submit an attainment plan SIP revision and several other requirements consistent with the previous CDD.
Section 172(c)(3) – *"Such plan provisions shall include a comprehensive, accurate, current inventory of actual emissions from all sources of the relevant pollutant or pollutants in such area, including such periodic revisions as the Administrator may determine necessary to assure that the requirements of this part are met."*	A comprehensive, accurate and current inventory of actual PM-2.5 and precursor emissions for calendar year 2023 is included in Chapter Three and Appendix A of this plan. Inventories for 2030 and 2038 are also included.
Section 172(c)(4) – *"Such plan provisions shall expressly identify and quantify the emissions, if any, of any such pollutant or pollutants which will be allowed, in accordance with section 7503(a)(1)(B) of this title, from the construction and operation of major new or modified stationary sources in each such area. The plan shall demonstrate to the satisfaction of the Administrator that the emissions quantified for this purpose will be consistent with the*	This requirement is not applicable to the West Central Pinal PM-2.5 Nonattainment Area as there are no economic development zones present in the nonattainment area.

Part D Requirement	How the Requirement has been Met
achievement of reasonable further progress and will not interfere with attainment of the applicable national ambient air quality standard by the applicable attainment date."	
Section 172(c)(5) – *"Such plan provisions shall require permits for the construction and operation of new or modified major stationary sources anywhere in the nonattainment area, in accordance with section 7503 of this title."*	As shown in Table 2-2, a permitting program for the West Central Pinal PM-2.5 Nonattainment Area is in place and authorized by EPA in its approval of several state rules as referenced in 83 FR 19631 (May 4, 2018) and 86 FR 31927 (June 16, 2021). The Arizona Department of Environmental Quality has delegated permitting authority to the Pinal County Air Quality Control District for both major and minor sources of PM-2.5 and precursor emissions within the nonattainment area.
Section 172(c)(6) – *"Such plan provisions shall include enforceable emission limitations, and such other control measures, means or techniques (including economic incentives such as fees, marketable permits, and auctions of emission rights), as well as schedules and timetables for compliance, as may be necessary or appropriate to provide for attainment of such standard in such area by the applicable attainment date specified in this part."*	On September 4, 2013, EPA issued a Clean Data Determination (CDD) for the West Central Pinal PM-2.5 Nonattainment Area based on 2010-2012 air quality monitoring data. EPA's CDD suspended this requirement. Additionally, on October 3, 2019, the EPA published a final rule that determined the area had attained the NAAQS by the attainment date of December 31, 2017. This action also relieved the requirements to submit an attainment plan SIP revision and several other requirements consistent with the previous CDD.
Section 172(c)(7) – *"Such plan provisions shall also meet the applicable provisions of section 7410(a)(2) of this title."*	Table 2-2 provides a listing of how Clean Air Act Section 110(a)(2) requirements are met.
Section 172(c)(8) – *"Upon application by any State, the Administrator may allow the use of equivalent modeling, emission inventory, and planning procedures, unless the Administrator determines that the proposed techniques are, in the aggregate, less effective than the methods specified by the Administrator."*	Not applicable as an attainment plan for the nonattainment area was not submitted to EPA; as on September 4, 2013, EPA issued a Clean Data Determination (CDD) for the West Central Pinal PM-2.5 Nonattainment Area based on 2010-2012 air quality monitoring data which relieved the requirement to submit an attainment plan where these techniques could be used. The emissions inventories and modeling included in the Maintenance Plan in Chapter Three are consistent with EPA procedures and guidance.
Section 172(c)(9) – *"Such plan shall provide for the implementation of specific measures to be undertaken if the area fails to make reasonable further progress, or to attain the national primary ambient air quality standard by the attainment date applicable under this part. Such measures shall be included in the plan revision as contingency*	On September 4, 2013, EPA issued a Clean Data Determination (CDD) for the West Central Pinal PM-2.5 Nonattainment Area based on 2010-2012 air quality monitoring data. EPA's CDD suspended this requirement. Additionally, on October 3, 2019, the EPA published a final rule that determined the area had attained the NAAQS by the attainment date of

Part D Requirement	How the Requirement has been Met
measures to take effect in any such case without further action by the State or the Administrator."	December 31, 2017. This action also relieved the requirements to submit an attainment plan SIP revision and several other requirements consistent with the previous CDD. The contingency provisions included in the Maintenance Plan in Chapter Three are consistent with the Section 175A(d) and guidance for contingency provisions in Maintenance Plans.
Section 188(c)(1) – *"For a Moderate Area, the attainment date shall be as expeditiously as practicable but no later than the end of the sixth calendar year after the area's designation as nonattainment, except that, for areas designated nonattainment for PM–10 under section 7407(d)(4) of this title, the attainment date shall not extend beyond December 31, 1994."*	On October 3, 2019, the EPA published a final rule that determined the area had attained the NAAQS by the attainment date of December 31, 2017.
Section 189(a)(1)(A) – *"(A) For the purpose of meeting the requirements of section 7502(c)(5) of this title, a permit program providing that permits meeting the requirements of section 7503 of this title are required for the construction and operation of new and modified major stationary sources of PM–10."*	As shown in Table 2-2, a permitting program for the West Central Pinal PM-2.5 Nonattainment Area is in place and authorized by EPA approval of several state rules as referenced in 83 FR 19631 (May 4, 2018) and 86 FR 31927 (June 16, 2021). The Arizona Department of Environmental Quality has delegated permitting authority to the Pinal County Air Quality Control District for both major and minor sources of PM-2.5 and precursor emissions within the nonattainment area.
Section 189(a)(1)(B) – *"Either (i) a demonstration (including air quality modeling) that the plan will provide for attainment by the applicable attainment date; or (ii) a demonstration that attainment by such date is impracticable."*	On September 4, 2013, EPA issued a Clean Data Determination (CDD) for the West Central Pinal PM-2.5 Nonattainment Area based on 2010-2012 air quality monitoring data. EPA's CDD suspended this requirement. Additionally, on October 3, 2019, the EPA published a final rule that determined the area had attained the NAAQS by the attainment date of December 31, 2017. This action also relieved the requirements to submit an attainment plan SIP revision and several other requirements consistent with the previous CDD.
Section 189(a)(1)(C) – *"Provisions to assure that reasonably available control measures for the control of PM–10 shall be implemented no later than December 10, 1993, or 4 years after designation in the case of an area classified as moderate after November 15, 1990."*	On September 4, 2013, EPA issued a Clean Data Determination (CDD) for the West Central Pinal PM-2.5 Nonattainment Area based on 2010-2012 air quality monitoring data. EPA's CDD suspended this requirement. Additionally, on October 3, 2019, the EPA published a final rule that determined the area had attained the NAAQS by the attainment date of December 31, 2017. This action also relieved the requirements to submit an attainment plan SIP

Part D Requirement	How the Requirement has been Met
	revision and several other requirements consistent with the previous CDD.
Section 189(a)(2) – *"A State shall submit the plan required under subparagraph (1) no later than the following: (B) 18 months after the designation as nonattainment, for those areas designated nonattainment after the designations prescribed under section 7407(d)(4) of this title."*	On September 4, 2013, EPA issued a Clean Data Determination (CDD) for the West Central Pinal PM-2.5 Nonattainment Area based on 2010-2012 air quality monitoring data. EPA's CDD suspended this requirement. Additionally, on October 3, 2019, the EPA published a final rule that determined the area had attained the NAAQS by the attainment date of December 31, 2017. This action also relieved the requirements to submit an attainment plan SIP revision and several other requirements consistent with the previous CDD.
Section 189(c)(1) – *"Plan revisions demonstrating attainment submitted to the Administrator for approval under this subpart shall contain quantitative milestones which are to be achieved every 3 years until the area is redesignated attainment and which demonstrate reasonable further progress, as defined in section 7501(1) of this title, toward attainment by the applicable date."*	On September 4, 2013, EPA issued a Clean Data Determination (CDD) for the West Central Pinal PM-2.5 Nonattainment Area based on 2010-2012 air quality monitoring data. EPA's CDD suspended this requirement. Additionally, on October 3, 2019, the EPA published a final rule that determined the area had attained the NAAQS by the attainment date of December 31, 2017. This action also relieved the requirements to submit an attainment plan SIP revision and several other requirements consistent with the previous CDD.
Section 189(e) – *"The control requirements applicable under plans in effect under this part for major stationary sources of PM–10 shall also apply to major stationary sources of PM–10 precursors, except where the Administrator determines that such sources do not contribute significantly to PM–10 levels which exceed the standard in the area. The Administrator shall issue guidelines regarding the application of the preceding sentence."*	As this requirement relates to precursors in the context of an attainment plan, EPA has interpreted that in the context of a redesignation request this requirement does not need to be fully approved. See EPA explanation, 83 FR 21238 at 21244.

2.5 The Area has a Fully Approved Maintenance Plan Satisfying Section 175A of the Act

Section 107(d)(3)(E)(iv) of the Clean Air Act stipulates that for a nonattainment area to be redesignated to attainment, EPA must fully approve a maintenance plan which meets the requirements of CAA Section 175A. MAG is submitting the required Maintenance Plan (Chapter Three) concurrently with this redesignation request. The Maintenance Plan included in Chapter Three meets the requirements of CAA Section 175A and provides for maintenance of the 2006 24-hour PM-2.5 NAAQS through 2038.

3. Maintenance Plan

The Maintenance Plan included in this chapter has been developed to meet the requirements of CAA Section 175A and in accordance with EPA policy guidance (Calcagni Memo).[34] The plan demonstrates that the area will continue to maintain the 2006 24-hour PM-2.5 standard through 2038, a period of at least ten years following an assumed redesignation to attainment by EPA in 2028 or sooner. The Maintenance Plan also contains contingency provisions that may be implemented should the area violate the 2006 24-hour PM-2.5 NAAQS in the future.

Additionally, the Calcagni Memo lists "core provisions" that are anticipated to be necessary in order to ensure maintenance of the standard. Those core provisions include:

- An attainment (base) year emissions inventory
- Demonstration of maintenance
- Continued operation of the air quality monitoring network
- Verification of continued attainment
- Contingency plan

An overview of the Clean Air Act Section 175A requirements and how the Maintenance Plan addresses the requirements is included in the next subsection. In addition to the requirements of Section 175A and core provisions, the Maintenance Plan also includes an assessment of air quality conditions and the establishment of motor vehicle emissions budgets for transportation conformity requirements.

3.1 Overview of Clean Air Act Maintenance Plan Requirements

3.1.1 CAA § 175A(a) – Plan Revision

> *"Each State which submits a request under section 107(d) for redesignation of a nonattainment area for any air pollutant as an area which has attained the national primary ambient air quality standard for that air pollutant shall also submit a revision of the applicable State implementation plan to provide for the maintenance of the national primary ambient air quality standard for such air pollutant in the area concerned for at least 10 years after the redesignation. The plan shall contain such additional measures, if any, as may be necessary to ensure such maintenance."*

The Maintenance Plan demonstrates maintenance of the 2006 24-hour PM-2.5 NAAQS through 2038 with existing local, state and federal control measures. It is anticipated that EPA would approve a redesignation request in 2028 or sooner. Demonstrating maintenance through 2038 provides for maintenance of the standard for at least a 10-year period. The technical

[34] *Calcagni, John, Memorandum, Procedures for Processing Requests to Redesignate Areas to Attainment, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, September 4, 1992. Retrieved from: https://www.epa.gov/sites/default/files/2016-03/documents/calcagni_memo_-_procedures_for_processing_requests_to_redesignate_areas_to_attainment_090492.pdf*

demonstration of maintenance is included in Section 3.4.

3.1.2 CAA § 175A(b) – Subsequent Plan Revisions

> *"8 years after redesignation of any area as an attainment area under section 107(d), the State shall submit to the Administrator an additional revision of the applicable State implementation plan for maintaining the national primary ambient air quality standard for 10 years after the expiration of the 10-year period referred to in subsection (a)."*

Section 3.8 of the Maintenance Plan includes a commitment to submit a SIP revision eight years after redesignation to attainment to demonstrate continued maintenance of the 2006 24-hour PM-2.5 NAAQS for an additional 10-year period.

3.1.3 CAA § 175A(c) – Nonattainment Requirements Applicable Pending Plan Approval

> *"Until such plan revision is approved and an area is redesignated as attainment for any area designated as a nonattainment area, the requirements of this part shall continue in force and effect with respect to such area."*

Chapter Two provides a description of how applicable Clean Air Act Section 110 and Part D requirements have been, and will continue to be, met within the West Central Pinal PM-2.5 Nonattainment Area. Maintenance of the 2006 24-hour PM-2.5 NAAQS is demonstrated through 2038 by the implementation of existing and in-place particulate matter control measures. The particulate matter control measures that provide for maintenance are described in Chapter Two, Section 2.3. These control measures are both locally and federally enforceable and will remain so throughout the maintenance period. All other applicable nonattainment area requirements will continue to be in effect throughout the maintenance period.

3.1.4 CAA § 175A(d) – Contingency Provisions

> *"Each plan revision submitted under this section shall contain such contingency provisions as the Administrator deems necessary to assure that the State will promptly correct any violation of the standard which occurs after the redesignation of the area as an attainment area. Such provisions shall include a requirement that the State will implement all measures with respect to the control of the air pollutant concerned which were contained in the State implementation plan for the area before redesignation of the area as an attainment area. The failure of any area redesignated as an attainment area to maintain the national ambient air quality standard concerned shall not result in a requirement that the State revise its State implementation plan unless the Administrator, in the Administrator's discretion, requires the State to submit a revised State implementation plan."*

Section 3.7 of the Maintenance Plan contains contingency provisions should the nonattainment area violate the 2006 24-hour PM-2.5 NAAQS. All existing particulate matter control measures in place before redesignation continue to be effective and implemented.

3.2 Assessment of Air Quality Conditions

3.2.1 Fine Particulate Matter (PM-2.5) Pollution

As explained by the EPA,[35] particulate matter is a term used to describe a mixture of solid particles and liquid droplets found in the air. Common particles suspended in the air include dust, soot, and smoke. Particulate matter can be emitted directly from a source, such as driving on an unpaved road, agricultural activities, construction, and fires. Particulate matter can also form through secondary chemical reactions in the atmosphere which usually involve combining pollutants such as nitrogen oxides and sulfur dioxide from sources of combustion such as power plants, industries, and vehicles.

Fine particulate matter (PM-2.5) refers to very small particles with diameters that are generally 2.5 micrometers or smaller. PM-2.5 particles pose the greatest risk to human health as they are small enough to lodge deeply in the lungs and can also enter the bloodstream. Fine particles also are the main contributor to visibility reduction across the United States.

3.2.2 PM-2.5 Monitoring Network

The Pinal County Air Quality Control District (PCAQCD) operates and maintains the air quality monitoring network with the West Central Pinal PM-2.5 Nonattainment Area. The current ambient air PM-2.5 monitor consists of a single State and Local Air Monitoring Station (SLAMS), utilizing the Federal Equivalent Method (FEM) located at 43750 Carefree Place, Maricopa, Arizona. The monitoring site is known as the Hidden Valley monitor (AQS ID# 040213075). Currently, the site deploys a continuous FEM Met One BAM 1020 PM-2.5 monitor and a collocated FRM Thermo Scientific 2025i PM-2.5 monitor.

The Hidden Valley monitor site is located approximately 12 miles south of the City of Maricopa and 16 miles west of the City of Casa Grande. The Hidden Valley monitoring site is located primarily in a rural, agricultural location with a dairy and feedlot located approximately 0.3 miles to the east. Immediately to the north, west and south of the site is low density residential land use. Beyond the low-density residential areas are large areas of agricultural cropland and open desert. The site is also in proximity to unpaved roads and to both Highway 84 (south of the site) and Highway 347 (west of the site).

40 CFR Part 58.10 requires an annual monitoring network plan to summarize the air quality surveillance system consisting of SLAMS and Special Purpose Monitors (SPMs) operated under state and local authority. According to the regulation, the Annual Monitoring Network Plan must be submitted to the EPA Regional Administrator by July 1 each year.

The PCAQCD Monitoring Network Plan includes an annual review of the existing monitoring network to determine the adequacy of the network and to propose any modifications.[36] PCAQCD will continue to operate its monitoring network, including the Hidden Valley monitor site, in accordance with 40 CFR 58 to verify attainment status with the 2006 24-Hour PM-2.5 NAAQS.

[35] "Particulate Matter (PM) Basics" https://www.epa.gov/pm-pollution/particulate-matter-pm-basics#effects.
[36] *Pinal County Air Quality Control District Monitoring Network Plan, https://www.pinal.gov/371/Monitoring-Network.*

Figure 3-1 includes a picture of the Hidden Valley monitoring site and a map of the land uses located within a two-mile radius of the site.

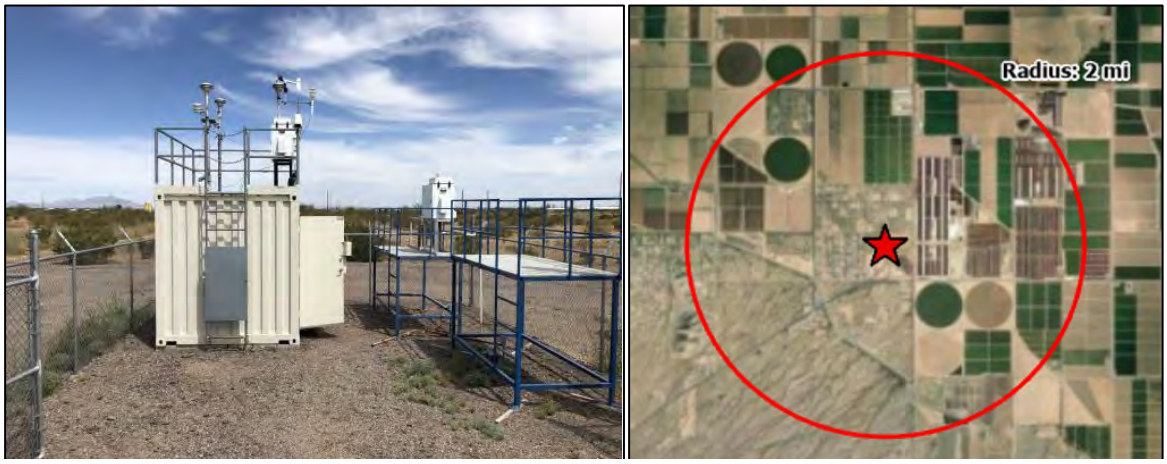


Figure 3-1 Hidden Valley monitor and map of land uses within a 2-mile radius of the site.

3.2.3 PM-2.5 Design Values

For the West Central Pinal PM-2.5 Nonattainment Area, compliance with the 2006 24-hour PM-2.5 NAAQS is based on whether the Hidden Valley monitor (the only PM-2.5 monitor in the area) design value is less than or equal to 35 µg/m^3, based on the regulations and procedures contained in 40 CFR part 50, Appendix N. The design value is calculated based on the three-year average of annual 98th percentile 24-hour average PM-2.5 concentration values recorded at the Hidden Valley monitoring site.

Figure 3-2 displays the design values at the Hidden Valley monitor since 2017; the year the Hidden Valley monitor became the design value monitor for the area. The design values were compiled using EPA's Design Value Reports.[37] Figure 3-2 also includes the annual 98th percentile PM-2.5 concentration from which the three-year average design values are calculated. Design values remained at or near the standard from 2017-2022. Since 2022, design values have decreased and remained significantly below the 35 µg/m^3 standard. As explained in Section 2.3, the decrease in PM-2.5 is partially due to the implementation of stricter local PM-10 control measures in the wider West Pinal County PM-10 Nonattainment Area.

[37] *Design values are computed and published annually by EPA's Office of Air Quality Planning and Standards and reviewed in conjunction with the EPA Regional Offices. Data available at this interactive Design Value Tool.*

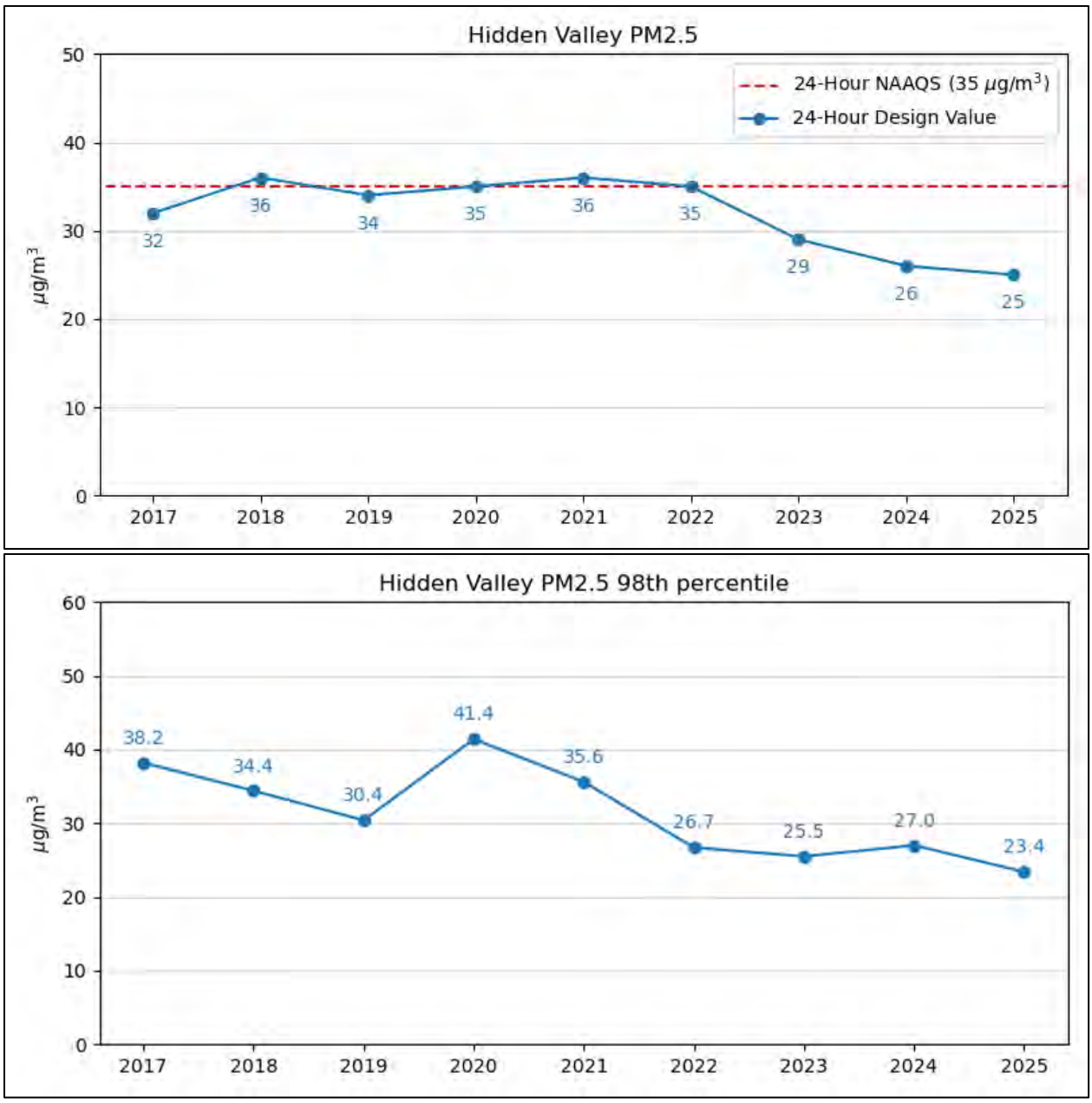


Figure 3-2 Hidden Valley monitor design values and annual 98th percentile PM-2.5 concentration (2017-2025).

3.2.4 PM-2.5 Exceedance Event Data

An exceedance event for the 2006 24-hour PM-2.5 NAAQS is any day when then 24-hour average PM-2.5 concentration is higher than 35 µg/m^3. Table 3-1 includes all of the exceedance events at the Hidden Valley monitor in years 2017-2025. The number of exceedance events range from lows of one event in 2019, 2023, and 2024, and a high of 20 events in 2020. Exceedances are generally associated with two major weather conditions: (1) stagnation, where wind speeds near the monitor are less than three miles an hour, allowing PM-2.5 concentrations to accumulate and not disperse; and (2) high winds, where wind speeds are generally above 12 miles per hour which allows for the

generation of windblown PM-2.5 from vacant and open land uses. Some exceedance may also experience both conditions at different times in a 24-hour period. 24-hour PM-2.5 concentrations on exceedance events range from concentrations just barely above the standard at 35.1 µg/m^3 to concentrations as high as 87.5 µg/m^3. 2020 appears to be somewhat of an outlier year, where stagnation exceedances were more frequent. Stagnation exceedances can also be exacerbated by periods of drought, making the desert soils more susceptible to producing greater quantities of PM-2.5 mass under similar activity levels. As mentioned above, since the implementation of stricter PM-10 controls in approximately 2022, there have been a maximum of only 3 exceedance events in 2022-2025. In most years, it is the 8th highest annual 24-hour PM-2.5 concentration that is used in the design value calculation. Given the trends seen in the table below, it appears unlikely that an exceedance event would be part of a design value concentration in future years.

Table 3-1 Exceedances of the 2006 24-hour PM-2.5 NAAQS at the Hidden Valley monitor in 2017-2025 (day and month followed by 24-hour PM-2.5 concentration for each year).

2017	2018	2019	2020	2021	2022	2023	2024	2025
5/4: 57.5	5/11: 49.0	6/25: 36.8	5/6: 35.1	5/31: 41.3	4/26: 39.9	7/26: 53.3	12/20: 42.0	1/8: 87.5
6/25: 38.2	6/10: 41.7		6/26: 43.0	6/17: 40.9	7/17: 39.3			7/1: 38.8
6/26: 39.6	7/5: 50.7		7/2: 48.0	6/19: 37.7	10/3: 57.8			8/21: 50.5
7/10: 37.8	7/6: 52.5		7/15: 36.0	7/1: 40.8				
9/6: 37.0	7/7: 41.8		7/16: 48.6	8/26: 36.7				
10/7: 38.5	7/8: 63.5		8/4: 39.2	11/3: 39.8				
10/18: 38.6	7/30: 43.1		8/16: 49.7	11/7: 39.4				
11/13: 38.5	8/8: 42.2		8/17: 38.2	11/9: 36.7				
11/14: 36.6			8/25: 39.3					
11/16: 40.2			8/26: 36.8					
12/1: 42.0			9/19: 43.7					
			9/28: 37.8					
			9/30: 67.3					
			10/1: 47.3					
			10/6: 39.0					
			10/7: 43.6					
			10/9: 41.9					
			10/11: 47.7					
			10/12: 54.5					
			10/15: 44.2					
			10/18: 37.2					
			10/19: 40.6					

3.2.5 PM-2.5 Seasonal Trends

Figure 3-3 below shows daily observations (24-hour average PM-2.5 concentrations) in 2023 at the Hidden Valley monitor site. Data from 2023 is shown as this is the year used as the attainment year for the Maintenance Plan. Fluctuation of daily PM-2.5 is typical in the dry arid conditions present in the nonattainment area and is usually driven by the presence of either stagnant or high wind conditions. Seasonal patterns are also present, with wetter months (December-March and July-September) generally producing PM-2.5 concentrations lower than drier months, as wet conditions help to stabilize the desert soils. The one exceedance event displayed in Figure 3-3 recorded on July 26, 2023, was due to high wind conditions.

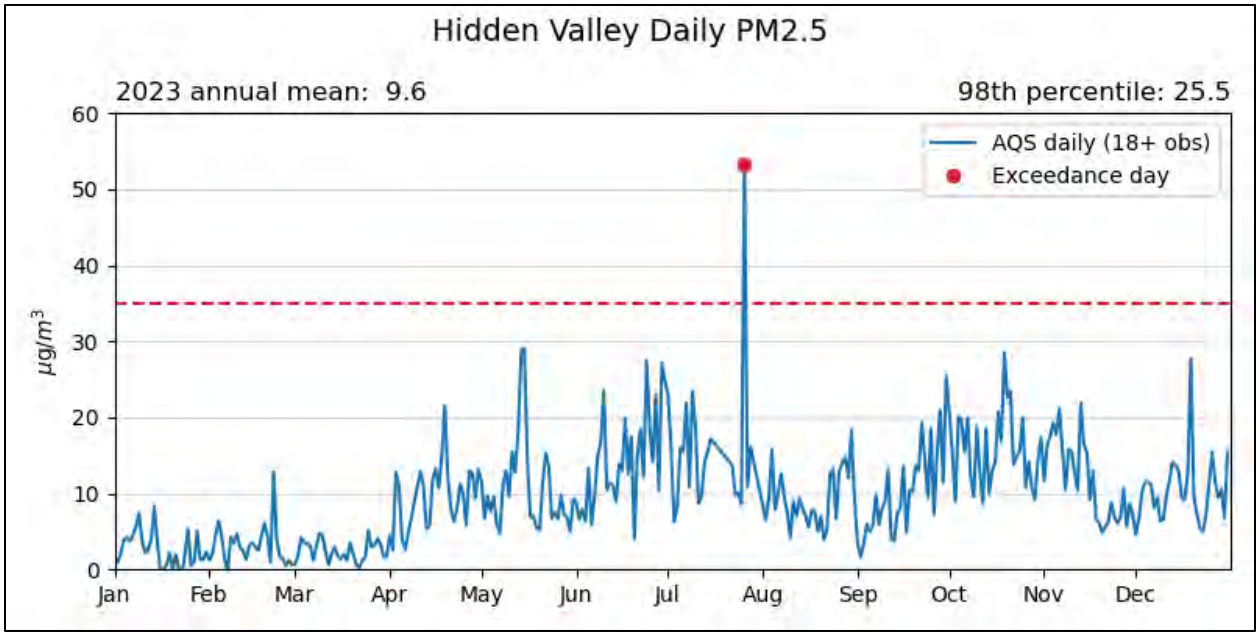


Figure 3-3 24-hour average PM-2.5 concentrations in 2023 at the Hidden Valley monitor site.

Figure 3-4 illustrates the seasonal patterns seen in 24-hour PM-2.5 concentrations at the Hidden Valley monitoring site by comparing seasonal monthly means over a six-year period (2020-2025). In general, higher mean PM-2.5 concentrations are seen in the drier summer and fall months, however there is variation from year to year. The outlier nature of 2020 is also apparent in the Figure, with higher than expected exceedance events occurring in July-October.

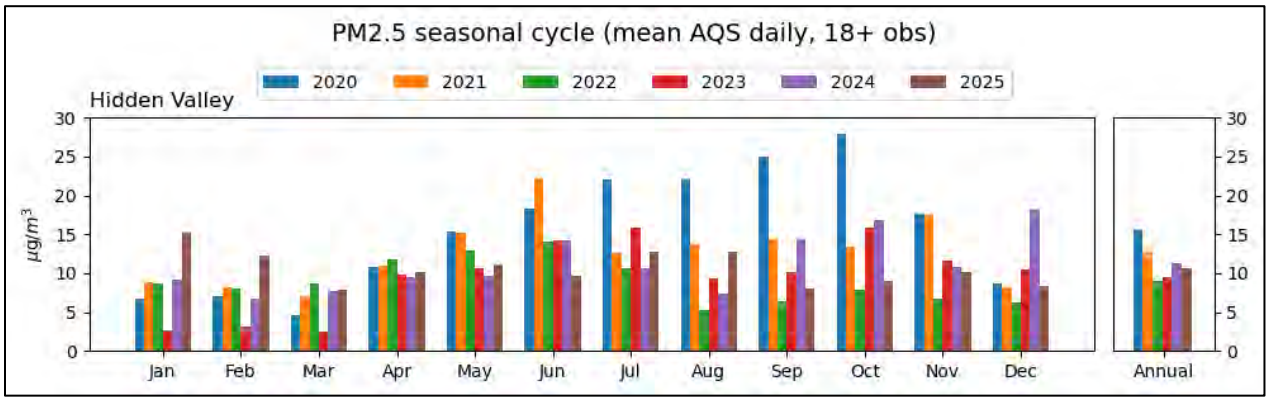


Figure 3-4 Seasonal PM-2.5 trends during 2020-2025 at the Hidden Valley monitor.

3.2.6 PM-2.5 Speciation Data

To further understand PM-2.5 sources in the West Central Pinal PM-2.5 Nonattainment Area, MAG conducted a special observation period to collect speciated PM-2.5 measurements from October 2024 to September 2025, on a one-in-six day schedule at the Hidden Valley monitor site. Analysis of the speciated data was performed using the Reconstructed Fine Mass (EPA IMPROVE RCFM) formula to obtain insights on PM-2.5 composition and to provide comparative analysis against background monitoring sites.[38] The speciated PM-2.5 data from Hidden Valley is available in Appendix B.

Speciated PM-2.5 was characterized at the Hidden Valley monitor and at the Organ Pipe Cactus National Monument (NM) background site.[39] For this analysis, speciated data at Organ Pipe from January 2022 through December 2024 were used for comparison against the Hidden Valley speciated samples collected from October 2024 through September 2025.

The component concentrations used in this analysis are organic mass, soil and crustal dust, ammonium nitrate, ammonium sulfate, elemental carbon, and salt. Their sum results in the Reconstructed Fine Mass (RCFM) as per the IMPROVE protocols. Using the same protocol and the same components at both locations yields comparable chemical profiles, which are necessary for determining appropriate background contributions at the Hidden Valley monitoring site. The mass reconstruction algorithm resolves PM-2.5 into six components, each computed from a measured species or set of species. Table 3-2 describes what each component represents and the source types that produce it. The same components are applicable for both the Hidden Valley and Organ Pipe monitoring sites.

[38] The Interagency Monitoring of Protected Visual Environments (IMPROVE) network is a cooperative visibility monitoring program that began in 1985 to characterize the chemical composition and long-term trends of fine particulate matter, primarily in Class I areas such as national parks and wilderness areas. IMPROVE monitors collect 24-hour average samples on a one-in-three-day schedule and report mass concentrations and key chemical species, including sulfate, nitrate, organic carbon (OC), elemental carbon (EC), salt, and fine soil. IMPROVE data are widely used because of the network's consistent sampling and analytical methods, particularly at rural and remote sites.

[39] To find a most representative background site with minimal anthropogenic influences, the Organ Pipe Cactus NM (ORPI1) site was selected over the Saguaro National Park (West)(SAWE1) due to its remote location and minimal influence from population centers such as Tucson, AZ.

Table 3-2 PM-2.5 components and their principal sources.

Component	Principal sources	Origin
Organic mass	Combustion of wood and fuels, open burning, engine exhaust, cooking, and the organic fraction of agricultural/feedlot dust carrying manure, feed, and plant debris. Organic aerosol can also form secondarily from VOCs. The available data do not quantify a separate secondary organic aerosol fraction, and this uncertainty is evaluated in the VOC sensitivity test.	Primary and secondary
Soil and crustal dust	Wind erosion of exposed soils, travel on paved and unpaved surfaces, agricultural field operations, and construction. The IMPROVE soil term captures the mineral fraction of dust.	Primary
Ammonium nitrate	Formed when nitric acid from NOx oxidation is neutralized by ammonia (NH_3). Semi-volatile and favored in cool conditions. At Hidden Valley, NH_3 is expected to be relatively abundant from nearby agricultural and feedlot sources, so ammonium nitrate formation is interpreted as more limited by nitric acid availability than by NH_3 availability. NOx is produced mainly by fuel combustion from mobile and stationary sources.	Secondary
Ammonium sulfate	Formed when sulfuric acid from SO2 oxidation is neutralized by NH_3. Stable once formed and generally more regional in character than ammonium nitrate. Nationally, SO_2 emissions are dominated by fossil-fuel power plants and certain industrial processes.	Secondary
Elemental carbon	Soot from incomplete combustion (principally diesel exhaust and other fuel combustion) and char from biomass/wood burning; a non-volatile tracer of combustion influence.	Primary
Sea salt	Named for marine aerosol, though at inland desert sites the sodium and chloride more commonly derive from saline soils, playa surfaces, and irrigation and fertilizer salts.	Primary

Figure 3-5 displays the PM-2.5 RCFM at the Hidden Valley monitor using the speciation data from October 2024 through September 2025. The figure includes two pie charts; the first showing the RCFM on the top ten highest PM-2.5 concentrations days, and the second showing the RCFM on all other days. The pie charts reveal that the chemical compositions are generally similar on the top ten days compared to all other days in the year, with soil dust composing a larger percentage on top ten days. While the RCFM compositions are relatively similar, the overall PM-2.5 concentrations on the top ten days are double those of all other days (i.e., 22.5 µg/m^3 on top ten days and 11.6 µg/m^3 on all other days). This indicates that on the top ten days, emissions from the local sources are simply greater than those experienced on all other days, as opposed to the increased concentrations coming from a different subset of emission sources.

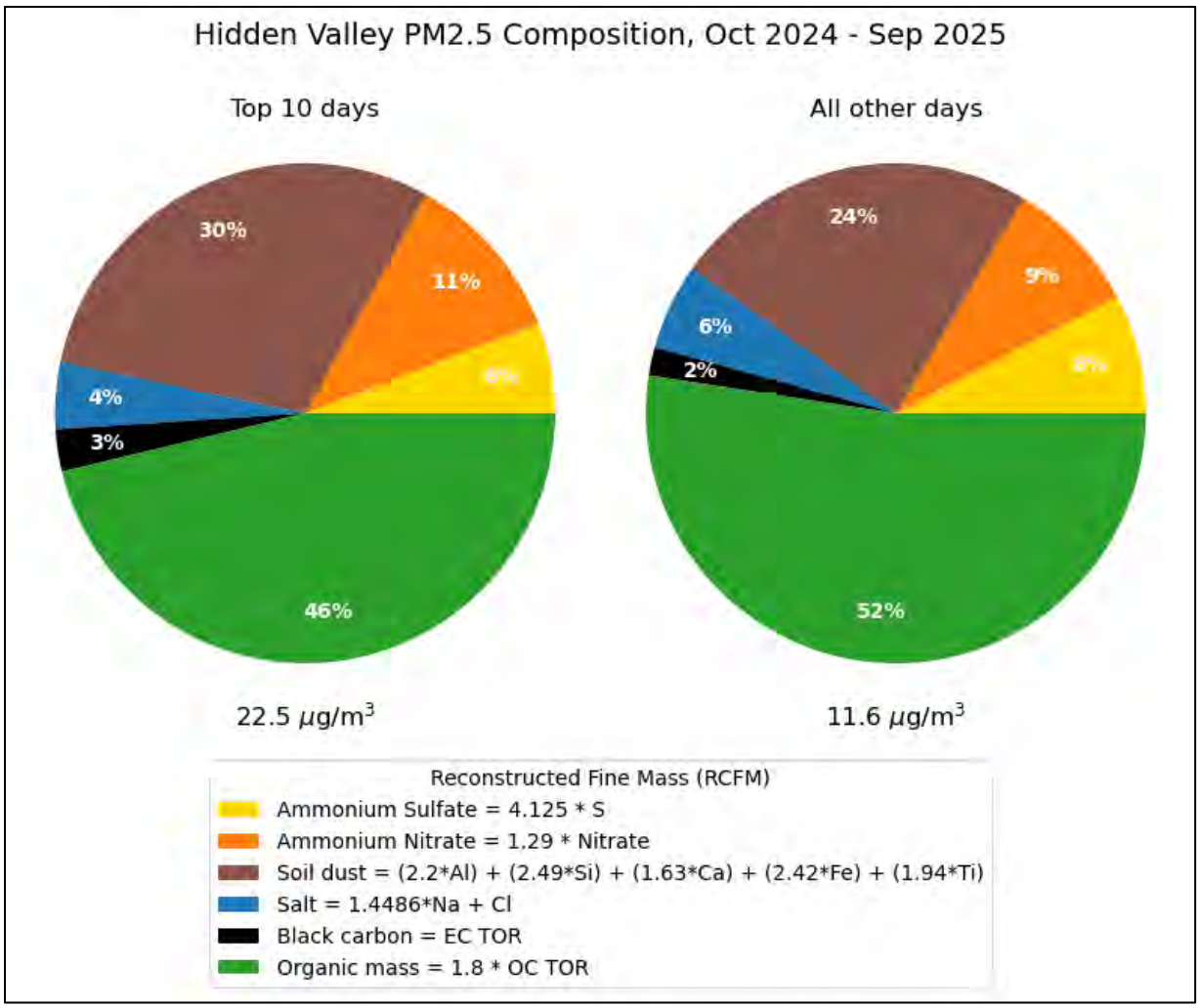


Figure 3-5 Hidden Valley PM-2.5 composition (RCFM) from top 10 days compared to all other days for the study period October 2024-September 2025.

While measurements in the data set at the Hidden Valley monitor were somewhat limited, a comparison of RCFM was also made between windy days and stagnant days. Figure 3-6 compares RCFM on a windy day versus a stagnant say. As would be expected, the windy day has a higher component mass of soil dust (presumably from the generation of windblown dust) as compared to the stagnant day. The stagnation day also has higher component concentrations from combustion sources and emission sources that can lead to secondary formation of PM-2.5.

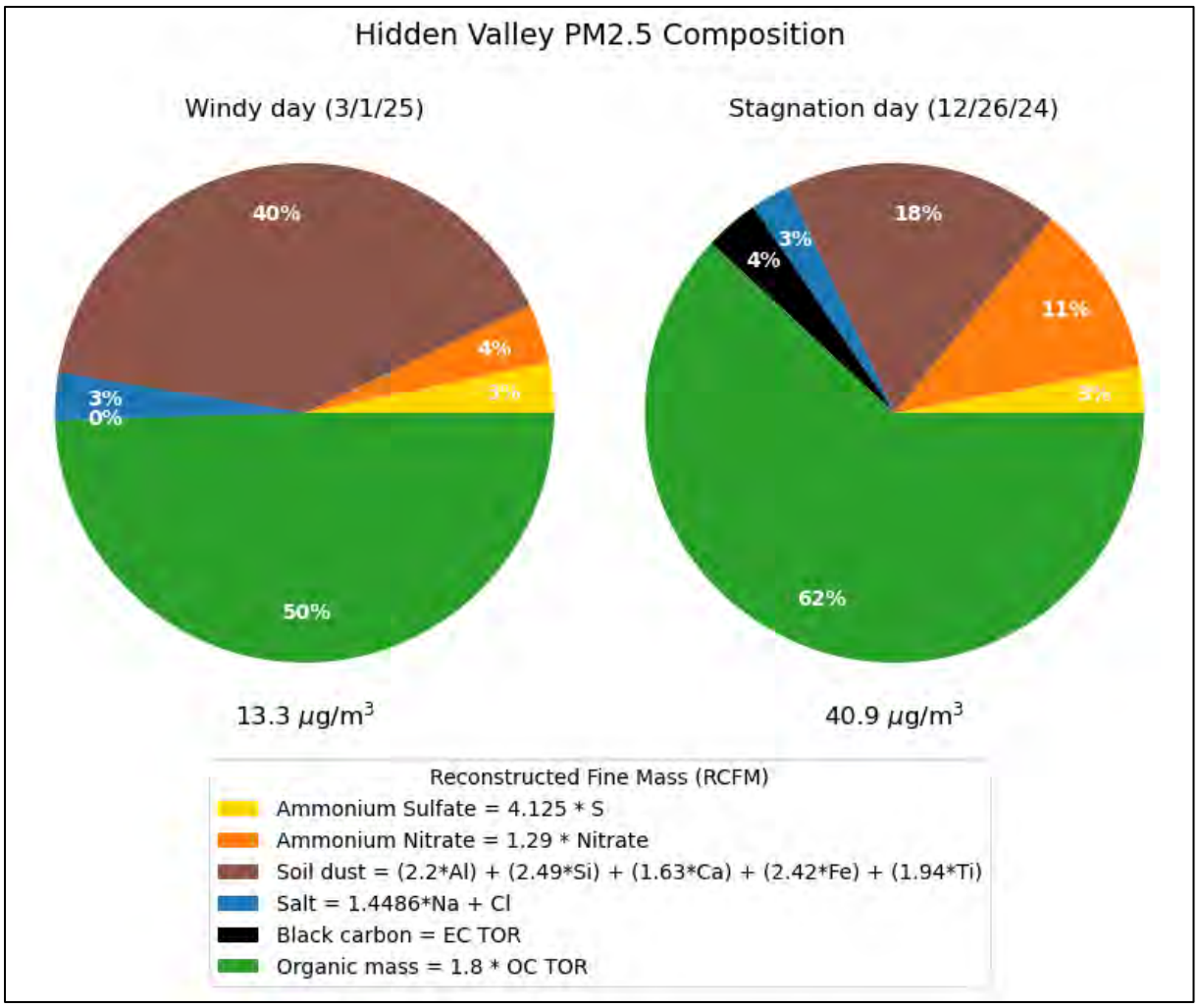


Figure 3-6 Hidden Valley PM-2.5 composition (RCFM) comparing a windy day to a stagnation day during the study period of October 2024-September 2025.

To better understand the surrounding conditions that can be an influence on what type of sources are contributing to the total concentrations of PM-2.5 at the Hidden Valley monitor, RCFM were also analyzed from a background location at Organ Pipe Cactus National Monument, where there is assumed to be minimal anthropogenic activity. Measurements taken every three days from 2022-2024 were used for this analysis in order to generate a relatively stable RCFM from the background site.[40] To understand what background PM-2.5 concentrations may be contributing to Hidden Valley PM-2.5 concentrations, the analysis conducted a comparison of two Organ Pipe datasets: (1) Organ Pipe RCFM data on days that correspond to the top 10 percent PM-2.5 concentrations days at Hidden Valley monitor during 2022-2024; and (2) Organ Pipe RCFM on all other days in 2022-2024. The results of this comparison are included in the pie charts in Figure 3-7. This comparison shows that the Organ Pipe background site is very stable in terms of both component distribution and concentration, and that when PM-2.5 concentrations are high at the Hidden Valley monitor, it is likely due to local source contributions as opposed to increased background concentrations.

[40] *Note: Data from 2025 at Organ Pipe was either not complete or available at time of the analysis.*

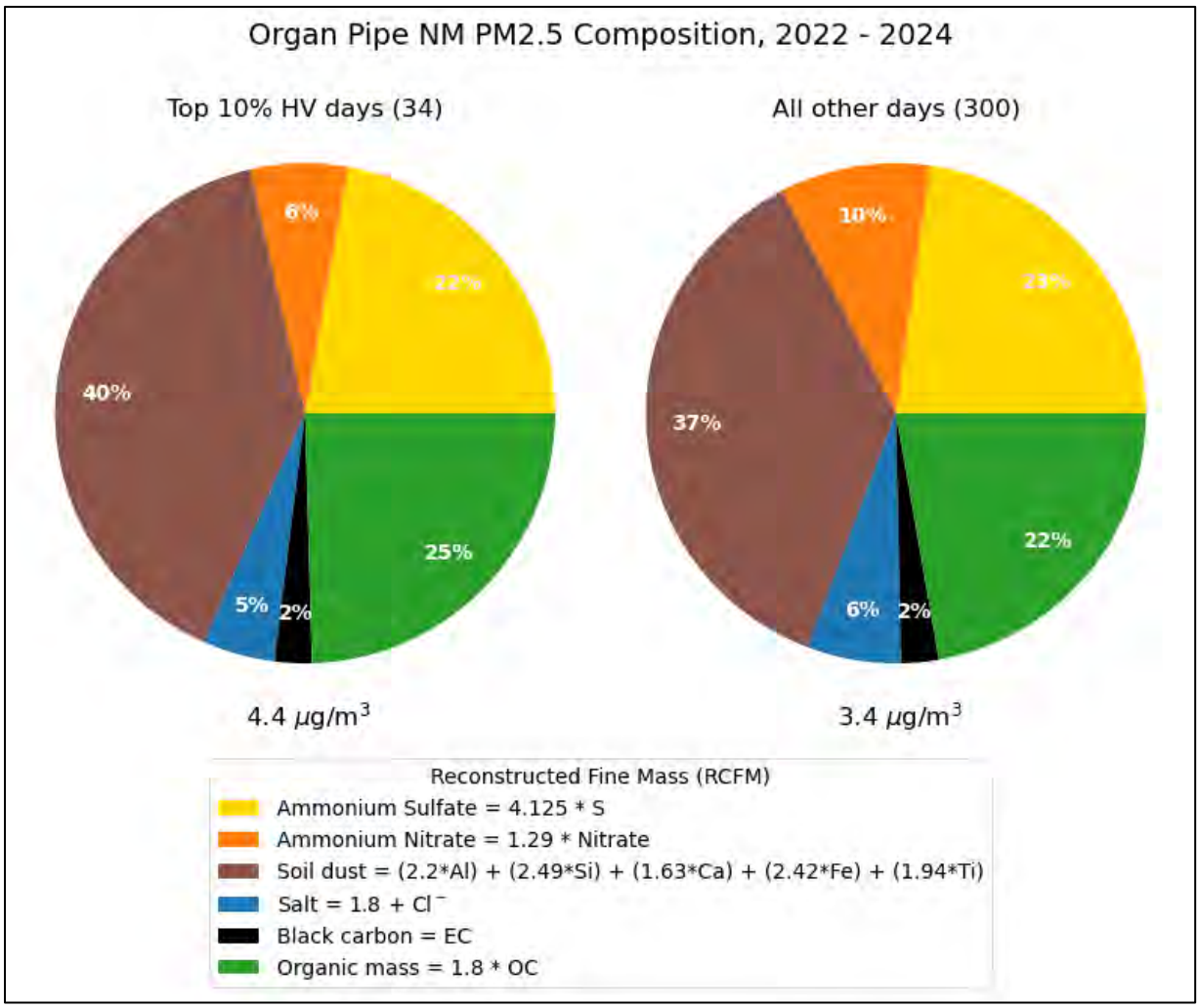


Figure 3-7 Organ Pipe Cactus National Monument PM-2.5 composition (RCFM) on the top 10 percent PM-2.5 concentration days at Hidden Valley in 2022-2024 compared to all other days for the years 2022-2024.

3.3 Comprehensive Emissions Inventory

A comprehensive emissions inventory for the West Central Pinal PM-2.5 Nonattainment Area has been developed to (1) satisfy remaining Clean Air Act Part D requirements that are applicable to the Redesignation Request described in Chapter Two of this plan; and (2) provide the projected emission estimates needed to perform a demonstration of maintenance of the 2006 24-hour PM-2.5 NAAQS through 2038 as described in Section 3.5 of this chapter. Comprehensive emission inventories for fine particulate matter (PM-2.5) require both estimates of emissions from sources that directly emit PM-2.5 and estimates of emissions from sources that can contribute to secondary particulate formation. As a result, the comprehensive emissions inventory for the nonattainment area included in this plan contains emission estimates for directly emitted PM-2.5 as well as sources of ammonia (NH_3), nitrogen oxides (NOx), volatile organic compounds (VOC), and sulfur dioxide (SO_2). The inventory also identifies the portions of direct PM-2.5 emissions that are condensable and filterable.

The comprehensive emissions inventory for the nonattainment area was developed through a

collaborative effort with the Arizona Department of Environmental Quality (ADEQ), Arizona Department of Transportation (ADOT), Pinal County Air Quality Control District (PCAQCD), Sun Corridor Metropolitan Planning Organization (SCMPO), Maricopa Association of Governments (MAG) and the Environmental Protection Agency (EPA). A complete description of the comprehensive emissions inventory, including the methodologies used to estimate emissions, is included in Appendix A of this plan (Technical Support Document for the Development of an Emissions Inventory for the MAG 2026 Redesignation Request and Maintenance Plan for the West Central Pinal PM-2.5 Nonattainment Area).

The comprehensive emissions inventory includes nonattainment area emission estimates for three distinct calendar years:

1. **2023 – Attainment Year Inventory:** 2023 was selected as the attainment year (base year) for the PM-2.5 and precursor emissions inventory for the West Central Pinal nonattainment area. While 2023 year does not directly correspond to EPA's 2019 determination of attainment (which was based on monitoring data from 2015-2017), 2023 captures the nonattainment area emissions that correspond to recent attainment in the area and represents the clean monitoring data in three design value periods of: 2021-2023, 2022-2024, and 2023-2025 (see Figure 3-2). Additionally, selection of 2023 allows for more accurate projection of future maintenance and interim years, while also leveraging the latest PM-2.5 emissions data available from EPA's 2023 National Emissions Inventory (NEI) for Pinal County, Arizona.
2. **2038 – Maintenance Year Inventory:** Emissions for 2038 were either projected from 2023 base year estimates using appropriate socioeconomic, spatial and temporal surrogates, or were generated directly from EPA models (e.g., MOVES5). Emissions in 2038 are integral to demonstrating that the 2006 24-hour PM-2.5 NAAQS will be maintained through the required 10-year maintenance period.
3. **2030 – Interim Year Inventory:** The interim year was selected as a "spot check" year for incremental analysis that provides additional evidence that the 2006 24-hour PM-2.5 NAAQS will be maintained through the required 10-year maintenance period. Emissions for 2030 were developed with similar methodologies used for 2038 estimates.

3.3.1 Summary Emissions for 2023, 2030, and 2038

Emission estimates for 2023, 2030, and 2038 are summarized by the primary source categories that contribute to the emissions profile in the West Central Pinal PM-2.5 nonattainment area. The primary categories include permitted stationary sources, nonpoint sources, nonroad mobile sources, onroad mobile sources, and biogenic sources. A description of the primary source categories is included below.

Permitted Sources: Permitted stationary sources are traditional stationary facilities that emit significant quantities of air pollutants under an air quality permit issued by the PCAQCD. For this emissions inventory, permitted stationary sources within the PM-2.5 nonattainment area are classified as either Major or Minor sources based upon their permit status under the nonattainment new source review permit program operated by the PCAQCD. These may include stationary sources such as landfills, petroleum storage and transfer facilities, and other large industrial operations.

Nonpoint: Nonpoint, or area sources, are sources which are generally too small or too numerous to be treated as individual point sources. Examples of nonpoint source categories within the West Central Pinal PM-2.5 Nonattainment Area include sources of fugitive dust (e.g., agricultural activities, construction, and windblown dust), combustion sources (e.g., residential and commercial fuel burning, commercial cooking, open burning, and wildfires) and precursor pollutant sources (e.g., gas stations, solvent use, and waste disposal). The 2023 National Emissions Inventory (NEI) for Pinal County was also reviewed to ensure all significant nonpoint sources of PM-2.5 and precursors were included in the emissions inventories.

Nonroad Mobile: Nonroad mobile sources are vehicles or equipment that move (or are moved) within a 12-month period and are not licensed or certified as highway vehicles. Nonroad vehicles and equipment include categories such as agricultural equipment (e.g., tractors), commercial and industrial equipment (e.g., forklifts), construction equipment (e.g., backhoes), lawn and garden equipment (e.g., lawn mowers), personal recreational equipment (e.g., ATVs), aircraft and locomotives. Emissions from nonroad mobile sources are calculated using EPA's MOVES5 model.

Onroad Mobile: Onroad mobile sources include emissions from vehicles that are licensed for highway use. Emissions from onroad mobile sources come from three main source categories: (1) exhaust, break wear and tire wear from onroad vehicle travel (calculated using EPA's MOVES5 model); (2) paved road fugitive dust; and (3) unpaved road fugitive dust (i.e., travel on unpaved agricultural roads, public roads, private roads, trails and test tracks).

Biogenic: Biogenic sources include emissions from vegetation and soils. Emissions from biogenic sources are only for the precursor pollutants of NOx and VOC.

Collectively these source categories are estimated to have contributed annual direct PM-2.5 emissions of 1,342.10 tons per year and daily average emissions of 8,524.9 pounds in calendar year 2023 within the West Central Pinal PM-2.5 Nonattainment Area. The vast majority of direct PM-2.5 emissions come from onroad mobile and nonpoint primary source categories. Total direct PM-2.5 emissions decrease slightly from 2023 through 2038, with total direct PM-2.5 emissions of 1,313.92 tons per year and daily average emissions of 8,440.6 pounds in 2038.

Precursor nitrogen oxides (NOx) emissions decline significantly from 2023 to 2038, with totals of 834.59 tons per year and 661.92 tons per year respectively. Ammonia (NH_3) emissions experience a very minor increase from 4,611.09 tons per year in 2023 to 4,627.91 tons per year in 2038. Sulfur dioxide (SO_2) emissions are minimal within the nonattainment area and have negligible impacts on PM-2.5 concentrations but do increase from 8.45 tons per year in 2023 to 9.65 tons per year in 2038. Lastly, volatile organic compound (VOC) emissions increase from 2023 to 2038, with totals of 9,106.01 tons per year and 9,439.82 tons per year respectively.

The following tables include summary annual and daily average 2023, 2030, and 2038 PM-2.5 and precursor emissions within the nonattainment area, organized by primary emission source category. Refer to Appendix A for a detailed description of emissions from all individual source categories.

Table 3-3 Annual and daily average 2023, 2030, and 2038 PM-2.5 emissions within the West Central Pinal PM-2.5 Nonattainment Area.

Source Category	2023 Annual PM-2.5 Emissions (tons/year)	2030 Annual PM-2.5 Emissions (tons/year)	2038 Annual PM-2.5 Emissions (tons/year)	2023 Daily PM-2.5 Emissions (lbs/day)	2030 Daily PM-2.5 Emissions (lbs/day)	2038 Daily PM-2.5 Emissions (lbs/day)
Permitted Sources	7.04	7.04	7.04	38.6	38.6	38.6
Nonpoint	442.67	442.45	456.85	3,583.5	3,606.4	3,739.0
Nonroad Mobile	15.47	10.31	8.17	97.8	64.7	50.7
Onroad Mobile	876.92	879.26	841.86	4,805.0	4,817.4	4,612.3
Biogenic	-	-	-	-	-	-
Total	1,342.10	1,339.06	1,313.92	8,524.9	8,527.1	8,440.6

Table 3-4 Annual and daily average 2023, 2030, and 2038 NOx emissions within the West Central Pinal PM-2.5 Nonattainment Area.

Source Category	2023 Annual NO_X Emissions (tons/year)	2030 Annual NO_X Emissions (tons/year)	2038 Annual NO_X Emissions (tons/year)	2023 Daily NO_X Emissions (lbs/day)	2030 Daily NO_X Emissions (lbs/day)	2038 Daily NO_X Emissions (lbs/day)
Permitted Sources	56.81	56.81	56.81	311.2	311.2	311.2
Nonpoint	31.98	42.07	49.31	307.5	407.6	479.0
Nonroad Mobile	221.74	173.86	156.69	1,337.1	1,030.7	918.6
Onroad Mobile	215.48	141.86	90.53	1,181.0	777.4	496.3
Biogenic	308.58	308.58	308.58	1,684.1	1,684.1	1,684.1
Total	834.59	723.18	661.92	4,820.9	4,211.0	3,889.2

Table 3-5 Annual and daily average 2023, 2030, and 2038 NH_3 emissions within the West Central Pinal PM-2.5 Nonattainment Area.

Source Category	2023 Annual NH_3 Emissions (tons/year)	2030 Annual NH_3 Emissions (tons/year)	2038 Annual NH_3 Emissions (tons/year)	2023 Daily NH_3 Emissions (lbs/day)	2030 Daily NH_3 Emissions (lbs/day)	2038 Daily NH_3 Emissions (lbs/day)
Permitted Sources	-	-	-	-	-	-
Nonpoint	4,596.58	4,599.27	4,609.41	25,222.7	25,249.8	25,313.7
Nonroad Mobile	0.42	0.44	0.42	2.6	2.7	3.0
Onroad Mobile	14.09	16.69	18.08	77.5	91.4	98.9
Biogenic	-	-	-	-	-	-
Total	4,611.09	4,616.40	4,627.91	25,302.8	25,343.9	25,415.6

Table 3-6 Annual and daily average 2023, 2030, and 2038 SO_2 emissions within the West Central Pinal PM-2.5 Nonattainment Area.

Source Category	2023 Annual SO_2 Emissions (tons/year)	2030 Annual SO_2 Emissions (tons/year)	2038 Annual SO_2 Emissions (tons/year)	2023 Daily SO_2 Emissions (lbs/day)	2030 Daily SO_2 Emissions (lbs/day)	2038 Daily SO_2 Emissions (lbs/day)
Permitted Sources	4.62	4.62	4.62	25.3	25.3	25.3
Nonpoint	2.31	2.82	3.20	19.4	24.8	28.3
Nonroad Mobile	0.77	0.86	0.86	4.3	4.7	4.8
Onroad Mobile	0.75	0.95	0.97	4.1	5.2	5.2
Biogenic	-	-	-	-	-	-
Total	8.45	9.25	9.65	53.1	60.0	63.6

Table 3-7 Annual and daily average 2023, 2030, and 2038 VOC emissions within the West Central Pinal PM-2.5 Nonattainment Area.

Source Category	2023 Annual VOC Emissions (tons/year)	2030 Annual VOC Emissions (tons/year)	2038 Annual VOC Emissions (tons/year)	2023 Daily VOC Emissions (lbs/day)	2030 Daily VOC Emissions (lbs/day)	2038 Daily VOC Emissions (lbs/day)
Permitted Sources	10.71	10.71	10.71	58.7	58.7	58.7
Nonpoint	1,751.77	1,986.70	2,167.44	10,188.1	11,641.8	12,745.7
Nonroad Mobile	82.77	79.67	76.53	544.9	524.1	502.8
Onroad Mobile	205.36	189.87	129.74	1,125.3	1,040.4	711.2
Biogenic	7,055.40	7,055.40	7,055.40	38,436.8	38,436.8	38,436.8
Total	9,106.01	9,322.35	9,439.82	50,353.8	51,701.8	52,455.2

3.4 Maintenance Demonstration

The Maintenance Demonstration presents the technical justification that the projected PM-2.5 and precursor emissions from the West Central Pinal PM-2.5 Nonattainment Area will not lead to violations of the 2006 24-hour PM-2.5 NAAQS in the maintenance year (2038) and an interim year (2030) within the 10-year maintenance period. This demonstration utilizes proportional rollback modeling to calculate the resulting PM-2.5 design values in 2030 and 2038.

The results of the rollback modeling indicate that the projected 2030 and 2038 PM-2.5 and precursor emissions from the West Central Pinal PM-2.5 Nonattainment Area will result in PM-2.5 design values of 27.5 and 28.1 µg/m³ for 2030 and 2038, respectively. The modeled PM-2.5 design values are substantially below the 2006 24-hour PM-2.5 NAAQS of 35 µg/m³ and indicate that the nonattainment area can demonstrate maintenance of the standard through 2038. The following subsections provide the technical information and modeling used in the Maintenance Demonstration.

3.4.1 PM-2.5 Baseline PM-2.5 Design Values at the Hidden Valley Monitor

As shown earlier in Figure 3-2, Figure 3-8 again presents the annual 98th percentile of 24-hour PM-2.5 concentrations for the Hidden Valley monitor and the resulting 3-year average design values as published by EPA (AQS ID: 04-021-3015) from 2017 through 2025.

Consistent with Section 4.1.1 of EPA's 2018 modeling guidance,[41] the baseline design value (DVB) is calculated as the average of the three design value periods that include the base emissions inventory year (in this case, the "base emissions inventory year" is the attainment year of 2023). Averaging the three overlapping design value periods, which span 2021–2025, inherently places the most emphasis on 2023, the year represented by the attainment inventory. This approach provides a more stable air quality anchor for future-year projections than relying on any single design value period. This baseline design value becomes the starting point from which proportional rollback modeling will occur for the maintenance year of 2038 and the interim year of 2030. Table 3-8 lists the three most recent design value periods that include the 2023 attainment year: 29 µg/m^3 for 2023 (2021–2023), 26 µg/m^3 for 2024 (2022–2024), and 25 µg/m^3 for 2025 (2023–2025), and the resulting 24-hour PM-2.5 baseline design value for Hidden Valley of 26.7 µg/m^3.

[41] *U.S. EPA, Modeling Guidance for Demonstrating Air Quality Goals for Ozone, PM2.5, and Regional Haze, EPA-454/R-18-009, November 2018, Section 4.1.1, p. 101.*

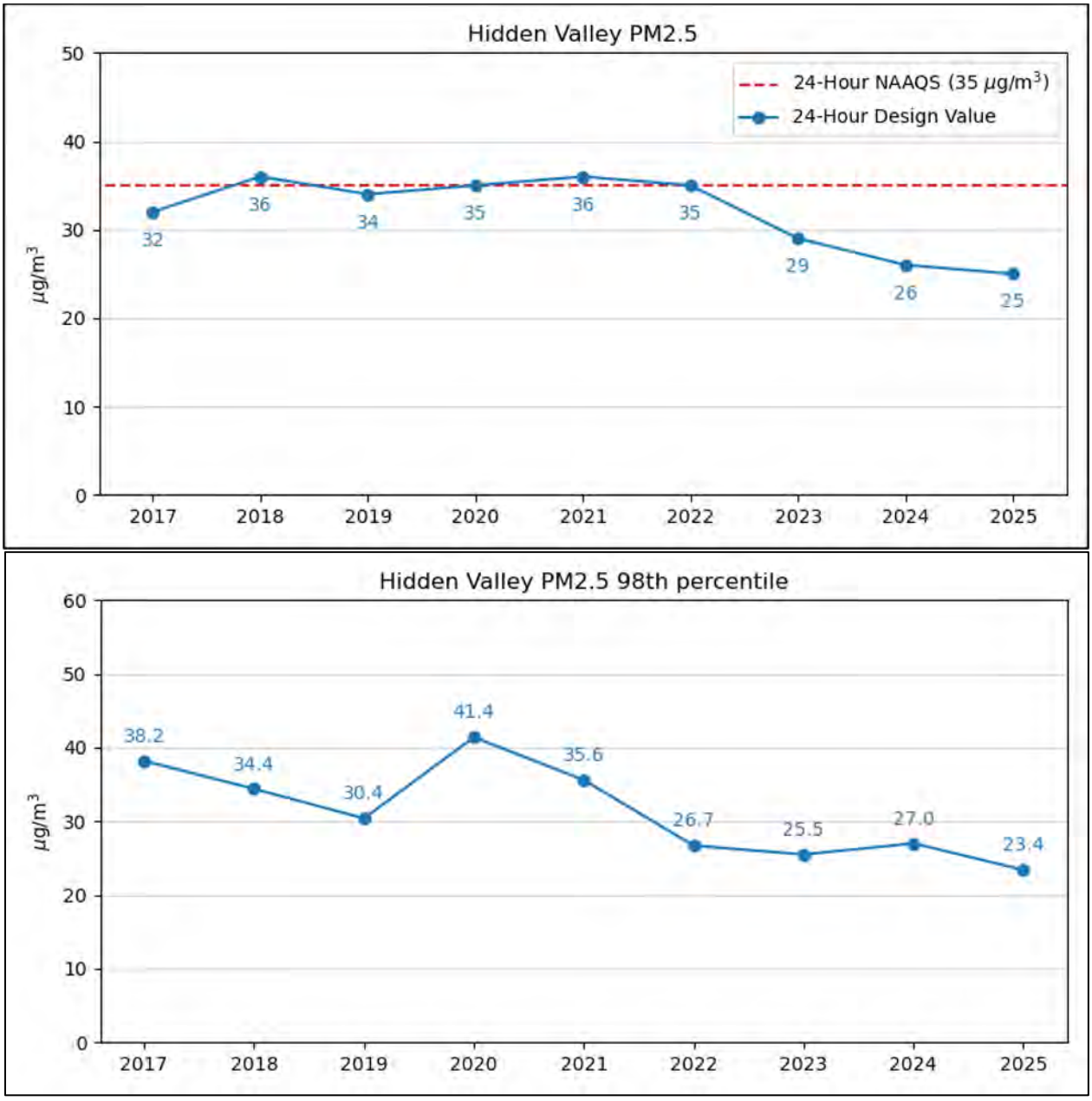


Figure 3-8 Hidden Valley monitor design values and annual 98th percentile PM-2.5 concentration (2017-2025).

Table 3-8 Hidden Valley monitor 3-year average of design values from 2023-2025.

Site	2021-2023 Design Value	2022-2024 Design Value	2023-2025 Design Value	Baseline Design Value for Modeling
Hidden Valley	29	26	25	26.7

3.4.2 PM-2.5 Speciation Data

3.4.2.1 IMPROVE Network

The Interagency Monitoring of Protected Visual Environments (IMPROVE) network is a cooperative visibility monitoring program that began in 1985 to characterize the chemical composition and long-term trends of fine particulate matter, primarily in Class I areas such as national parks and wilderness areas. IMPROVE monitors collect 24-hour average samples on a one-in-three-day schedule and report mass concentrations and key chemical species, including sulfate, nitrate, organic carbon (OC), elemental carbon (EC), salt, and fine soil. OC and EC are measured using the Thermal Optical Reflectance (TOR) method on quartz-fiber filters. Elements are typically measured by X-ray fluorescence (XRF), and ions are measured by ion chromatography. IMPROVE data are widely used because of the network's consistent sampling and analytical methods, particularly at rural and remote sites. These data support Regional Haze Rule analyses and are commonly used to characterize background concentrations.

Speciated PM-2.5 was characterized at the Organ Pipe Cactus National Monument (NM) background site and at the Hidden Valley monitor using IMPROVE sampling and analytical protocols and the associated mass reconstruction algorithm. For this analysis, speciated data from Organ Pipe for January 2022 through December 2024 were used, while Hidden Valley speciated samples were collected from October 2024 through September 2025.

The component concentrations used in this analysis are organic mass, soil and crustal dust, ammonium nitrate, ammonium sulfate, elemental carbon, and salt. Their sum is termed reconstructed PM-2.5 concentration. Using the same protocol and the same components at both locations yields comparable chemical profiles, which are necessary for the determining appropriate background contributions at the Hidden Valley monitoring site.

The mass reconstruction algorithm resolves PM-2.5 into six components, each computed from a measured species or set of species. Table 3-9 describes what each component represents and the source types that produce it. The same components are reported for both monitoring sites, so the descriptions below apply throughout this chapter.

Table 3-9 PM-2.5 components and their principal sources.

Component	Principal Sources	Origin
Organic mass	Combustion of wood and fuels, open burning, engine exhaust, cooking, and the organic fraction of agricultural/feedlot dust carrying manure, feed, and plant debris. Organic aerosols can also form secondarily from VOCs. The available data do not quantify a separate secondary organic aerosol fraction, and this uncertainty is evaluated in the VOC sensitivity test.	Primary and secondary
Soil and crustal dust	Wind erosion of exposed soils, travel on paved and unpaved surfaces, agricultural field operations, and construction. The IMPROVE soil term captures the mineral fraction of dust.	Primary
Ammonium nitrate	Formed when nitric acid from NOx oxidation is neutralized by ammonia (NH_3). Semi-volatile and favored in cool conditions. At Hidden Valley, NH_3 is expected to be relatively abundant from nearby agricultural and feedlot sources, so ammonium nitrate formation is interpreted as more limited by nitric acid availability than by NH_3 availability. NOx is produced mainly by fuel combustion from mobile and stationary sources.	Secondary
Ammonium sulfate	Formed when sulfuric acid from SO2 oxidation is neutralized by NH_3. Stable once formed and generally more regional in character than ammonium nitrate. Nationally, SO_2 emissions are dominated by fossil-fuel power plants and certain industrial processes.	Secondary
Elemental carbon	Soot from incomplete combustion (principally diesel exhaust and other fuel combustion) and char from biomass/wood burning; a non-volatile tracer of combustion influence.	Primary
Sea salt	Named for marine aerosol, though at inland desert sites the sodium and chloride more commonly derive from saline soils, playa surfaces, and irrigation and fertilizer salts.	Primary

3.4.2.2 PM-2.5 Composition at Hidden Valley

MAG contracted with Sonoma Technology, Inc. to conduct a one-year PM-2.5 speciation monitoring study at the Hidden Valley monitor from October 2024 through September 2025. Samples were collected every sixth day using IMPROVE-compatible sampling and analytical methods, resulting in 60 valid 24-hour measurements. PM-2.5 speciation data from the special study at the Hidden Valley monitor is included in Appendix B.

The 10 days with the highest measured PM-2.5 concentrations were selected to characterize the chemical composition of elevated PM-2.5 conditions at Hidden Valley. This selection is not a breakpoint prescribed by the 24-hour PM-2.5 standard. The annual 98th percentile determines the concentration used to calculate the design value, whereas the high-day subset is used to characterize chemical composition. EPA's 2018 modeling guidance (pp. 127–128) supports the use of multiple high-concentration days to develop high-day species fractions. Because only 60 valid speciation samples were available from the one-year campaign, a strict highest-10-percent selection would include only six samples. The 10 highest samples were chosen to provide a more stable elevated-day profile and reduce the influence of individual events.

As shown in Figure 3-9, the selected samples occupy the upper portion of the concentration distribution, ranging from 40.9 µg/m³ on the highest day to 18.1 µg/m³ on the tenth-highest day. Their average reconstructed PM-2.5 concentration was 22.5 µg/m³, compared with 11.6 µg/m³ for the remaining 50 samples, or approximately 1.9 times higher. The selected days therefore provide a representative multi-day profile of elevated PM-2.5 conditions.

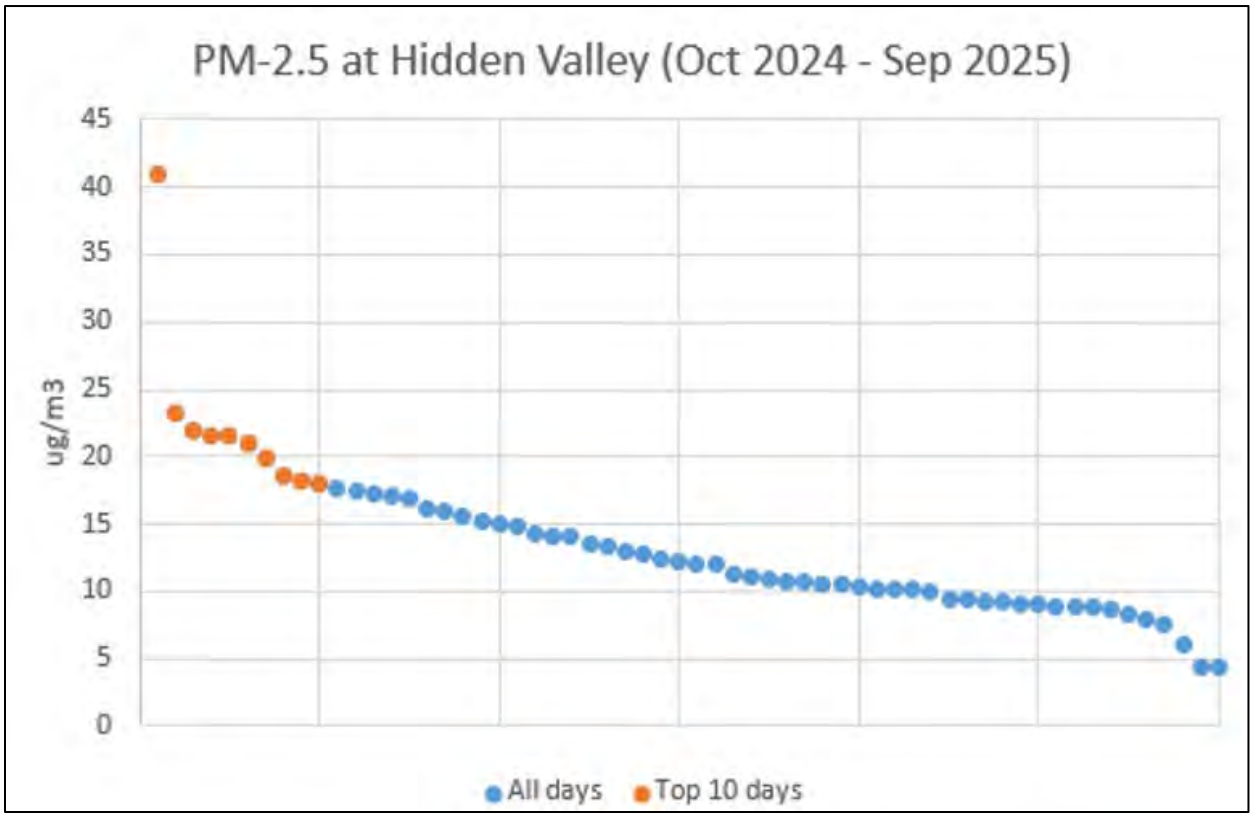


Figure 3-8 Ranked PM-2.5 concentrations from the Hidden Valley speciation study, October 2024 through September 2025. The 10 highest sampling days are shown in orange.

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Table 3-10 presents the component concentrations for each of the 10 selected days. Across these days, organic mass averaged 10.4 µg/m³ and accounted for approximately 46 percent of reconstructed PM-2.5 mass. Soil and crustal dust averaged 6.7 µg/m³, or approximately 30 percent. Together, these two components accounted for approximately 76 percent of reconstructed PM-2.5 mass. Ammonium nitrate contributed 11 percent, ammonium sulfate 6 percent, salt 4 percent, and elemental carbon 3 percent.

Table 3-10 PM-2.5 component concentrations (µg/m³) for the 10 highest speciation sampling days at Hidden Valley, October 2024 through September 2025.

Date	Sulfate (µg/m³)	Nitrate (µg/m³)	Soil dust (µg/m³)	Salt (µg/m³)	Elemental carbon (µg/m³)	Organic mass (µg/m³)	Total (µg/m³)
December 26, 2024	1.2	4.6	7.3	1.1	1.4	25.3	40.9
October 4, 2024	2.5	1.3	8.6	3.4	0.3	7.1	23.3
January 1, 2025	1.5	6.4	2.7	0.5	1.6	9.1	21.9
November 14, 2024	0.7	2.7	9.0	0.3	0.4	8.4	21.5
June 29, 2025	1.5	0.7	7.9	1.5	0.2	9.7	21.5
December 31, 2024	0.8	3.7	6.3	0.3	0.7	9.3	21.0
December 20, 2024	0.8	2.0	7.8	0.3	0.6	8.6	20.0
October 9, 2024	1.7	0.9	6.9	1.0	0.4	7.5	18.5
December 2, 2024	0.9	2.2	6.2	0.2	0.5	8.3	18.3
May 31, 2025	1.5	0.4	4.1	1.1	0.2	10.6	18.1
Average	**1.3**	**2.5**	**6.7**	**1.0**	**0.6**	**10.4**	**22.5**
Percent	**6**	**11**	**30**	**4**	**3**	**46**	**100.0**

Note: Component values are rounded for presentation. Totals are computed from unrounded concentrations and may differ slightly from the sum of the rounded values shown. Sulfate and nitrate are reported as ammonium sulfate and ammonium nitrate, and soil dust is the soil and crustal dust component.

The component percentages from the 10 selected days are then applied to the separately established 26.7 µg/m³ baseline design value to determine the starting component concentrations for the rollback analysis in Table 3-11. For example, the 46-percent organic-mass fraction corresponds to approximately 12.3 µg/m³ when scaled to the baseline design value. Thus, the 22.5 µg/m³ high-day average is used to establish the relative chemical composition and does not replace the 26.7 µg/m³ baseline design value.

Table 3-11 PM-2.5 component concentrations (µg/m³) for the 10 highest speciation sampling days at Hidden Valley, October 2024 through September 2025.

PM-2.5 Component	Component Concentration (µg/m³)	Mass Percentage	Concentration Scaled to DVB (µg/m³)
Organic mass	10.4	46%	12.3
Soil and crustal dust	6.7	30%	8.0
Ammonium nitrate	2.5	11%	2.9
Ammonium sulfate	1.3	6%	1.6
Elemental carbon	0.6	3%	0.8
Salt	1.0	4%	1.1
Total	**22.5**	**100%**	**26.7**

Note: Component values are rounded for presentation. Totals are computed from unrounded concentrations and may differ slightly from the sum of the rounded values shown.

3.4.2.3 Background PM-2.5 Composition at Organ Pipe Cactus National Monument

The Organ Pipe Cactus National Monument IMPROVE site (ORPI1; AQS ID 04-019-0005), located approximately 126 km southwest of Hidden Valley, was selected to represent regional background PM-2.5 because it is in a remote Sonoran Desert setting with limited nearby anthropogenic influence and provides the speciated measurements needed for the component analysis. Saguaro West (SAWE1) was also considered; however, SAWE1 is closer to the Tucson metropolitan area and potential urban source influences. Tonto National Monument (TONT1), approximately 90 km east-northeast of Phoenix, has been identified in Arizona aerosol studies as susceptible to transported emissions from the Phoenix metropolitan area. Organ Pipe Cactus National Monument was therefore considered more representative of regional background conditions for the West Central Pinal PM-2.5 Nonattainment Area.

To characterize background during elevated PM-2.5 conditions at Hidden Valley, dates from 2022 through 2024 with valid measurements at both Hidden Valley and Organ Pipe were first identified. For each year, the highest 10 percent of Hidden Valley PM-2.5 concentrations were then selected from this matched dataset. This resulted in 34 matched days: 12 in 2022, 11 in 2023, and 11 in 2024. EPA's 2018 modeling guidance supports the use of multiple high-concentration days to characterize high-day species fractions. The 10-percent screen differs from the selection of the 10 highest of 60 samples (16.7 percent) used for the Hidden Valley profile because the two selections start from different records. The background screen draws on three years of coincident Hidden Valley and Organ Pipe observations and yielded 34 selected dates, whereas the one-year speciation study provided only 60 samples, for which a strict 10-percent selection would have yielded six.

As shown in Figure 3-10, the selected Hidden Valley observations occupy the upper portion of the annual ranked concentration distributions, with a more gradual decline beyond the selected range. Because the screening is performed separately for each year, the corresponding breakpoint concentration varies by year.

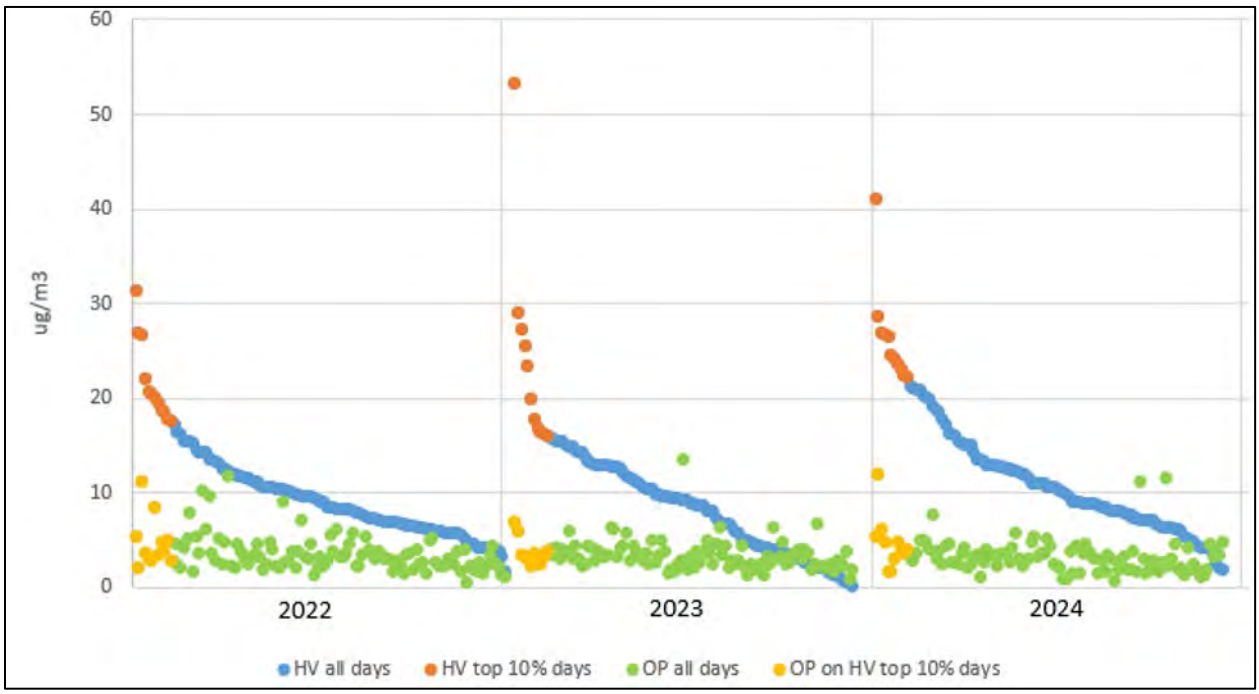


Figure 3-9 Hidden Valley top-10-percent PM-2.5 days and coincident Organ Pipe background measurements, 2022–2024.

Organ Pipe data were used only for the same dates as the 34 selected Hidden Valley high days (Table 3-12). On those days, Organ Pipe totals ranged from 1.7 to 11.9 µg/m³, compared with 16.1 to 53.3 µg/m³ at Hidden Valley. This supports using Organ Pipe as regional background during elevated conditions at Hidden Valley.

Table 3-12 PM-2.5 component concentrations (µg/m³) at Organ Pipe for the 34 matched Hidden Valley high-concentration days, 2022–2024.

Date	Sulfate (µg/m³)	Nitrate (µg/m³)	Soil dust (µg/m³)	Salt (µg/m³)	Elemental carbon (µg/m³)	Organic mass (µg/m³)	OP total (µg/m³)	HV total (µg/m³)
July 13, 2022	1.3	0.6	2.7	0.1	0.1	0.7	5.4	31.3
May 14, 2022	0.5	0.1	1.2	0.0	0.0	0.3	2.2	26.9
April 26, 2022	1.3	0.5	5.9	0.1	0.2	3.2	11.2	26.7
June 16, 2022	1.2	0.3	1.3	0.3	0.1	0.5	3.7	22.0
January 17, 2022	0.3	0.2	1.4	0.0	0.2	0.9	3.0	20.7
September 5, 2022	1.0	0.1	0.4	0.0	0.1	1.2	2.9	20.6
May 2, 2022	1.8	0.8	3.5	1.3	0.1	0.9	8.4	20.2
May 5, 2022	0.5	0.2	2.2	0.1	0.1	0.4	3.5	19.5
July 16, 2022	1.4	0.4	1.8	0.1	0.1	1.0	4.8	18.8
June 7, 2022	1.2	0.5	0.9	0.9	0.0	0.5	4.0	18.5
May 8, 2022	1.3	0.4	2.0	0.8	0.0	0.5	5.0	17.7
March 24, 2022	0.3	0.1	1.8	0.0	0.0	0.6	2.9	17.5
July 26, 2023	2.1	0.9	2.0	0.3	0.1	1.5	6.8	53.3
May 15, 2023	1.3	0.4	2.6	0.2	0.1	1.3	5.9	29.1
June 29, 2023	0.7	0.2	1.3	0.4	0.1	0.8	3.4	27.2
September 30, 2023	0.8	0.3	0.9	0.8	0.0	0.5	3.3	25.5
October 21, 2023	1.0	0.1	0.7	0.0	0.1	1.1	3.0	23.4
June 17, 2023	0.7	0.1	0.8	0.0	0.1	0.7	2.3	19.9
November 5, 2023	0.8	0.1	1.0	0.0	0.2	1.7	3.7	17.7
October 18, 2023	1.3	0.1	0.8	0.1	0.1	0.7	3.0	16.8
November 14, 2023	0.7	0.1	0.8	0.0	0.1	0.6	2.4	16.5
November 2, 2023	0.8	0.1	1.3	0.0	0.1	0.8	3.3	16.3
July 2, 2023	1.2	0.3	1.1	0.4	0.1	0.7	3.8	16.1
December 20, 2024	0.5	0.3	3.4	0.0	0.2	1.1	5.4	41.0
October 3, 2024	1.1	0.4	5.3	0.2	0.4	4.6	11.9	28.6
October 9, 2024	1.6	0.4	2.6	0.1	0.2	1.4	6.2	27.0
June 14, 2024	1.4	0.2	1.4	0.1	0.2	1.3	4.7	26.8
January 1, 2024	0.3	0.3	0.3	0.0	0.1	0.7	1.7	26.6
December 26, 2024	0.1	0.1	1.1	0.0	0.0	0.3	1.7	24.6
June 11, 2024	0.7	0.2	1.3	0.2	0.1	0.6	3.0	24.1
October 6, 2024	1.1	0.2	1.6	0.0	0.1	1.7	4.9	23.7
September 9, 2024	1.2	0.1	1.1	0.0	0.1	1.5	4.1	23.0
September 6, 2024	0.9	0.2	1.3	0.0	0.1	1.0	3.5	22.4
December 5, 2024	0.9	0.2	1.6	0.0	0.2	1.1	4.1	22.3
Average (ug/m3)	**1.0**	**0.3**	**1.8**	**0.2**	**0.1**	**1.1**	**4.4**	N/A
Percent	**22**	**6**	**40**	**5**	**2**	**25**	**100**	N/A

Note: Component values are rounded for presentation. Totals are computed from unrounded concentrations and may differ slightly from the sum of the rounded values shown. Sulfate and nitrate are reported as ammonium sulfate and ammonium nitrate, and soil dust is the soil and crustal dust component.

Table 3-13 summarizes the average background on the matched days. The average reconstructed PM-2.5 concentration was 4.4 µg/m³, led by soil and crustal dust (40 percent), organic mass (25 percent), and ammonium sulfate (22 percent). These component concentrations are the regional background in the rollback analysis. They are held constant in the future-year projections and added back after the locally attributable concentrations are scaled.

Table 3-13 PM-2.5 component concentrations (µg/m³) at Organ Pipe for the 34 matched Hidden Valley high-concentration days, 2022–2024.

PM-2.5 Component	Component Concentration (µg/m³)	Mass Percentage
Organic mass	1.1	25%
Soil and crustal dust	1.8	40%
Ammonium nitrate	0.3	6%
Ammonium sulfate	1.0	22%
Elemental carbon	0.1	2%
Salt	0.2	5%
Total	**4.4**	**100%**

Note: Component values are rounded for presentation. Totals are computed from unrounded values and might differ slightly from the sum of the rounded values shown.

3.4.3 Modeling Demonstration

EPA's 2018 modeling guidance recognizes that simplified techniques, including rollback models, may be sufficient to demonstrate attainment or maintenance of the PM-2.5 NAAQS in areas where PM-2.5 comes mainly from primary emissions.[42] Both the emissions inventory and the composition measured at the design value monitor support the use of this approach for the West Central Pinal PM-2.5 nonattainment area.

3.4.3.1 Predominance of Primary PM-2.5

Emissions. Fugitive dust from roads, disturbed soils, agricultural operations, and animal waste makes up 85 percent of 2023 daily direct PM-2.5 emissions. Paved and unpaved road dust accounts for 56 percent, agricultural harvesting and tilling for 12 percent, animal operations and dairies for 9 percent, windblown dust for 5 percent, and unpaved parking and construction for 3 percent. Everything else, mainly fuel combustion, open burning, and mobile source exhaust, accounts for the remaining 15 percent and is likewise directly emitted. The nonattainment area contains no power generation, smelting, refining, or comparable industrial operations. Direct emissions are dominated instead by agricultural activity and travel on paved and unpaved surfaces, and the area holds no significant point sources of secondary aerosol precursors.

How the inventory relates to the monitor. The emission proportion and the composition measured at Hidden Valley classify the same material in different ways. The IMPROVE soil component is built from aluminum, silicon, calcium, iron, and titanium, each scaled to its common oxide form, so it captures only the mineral fraction of fugitive dust. Dust from feedlots, dairies, and cultivated fields carries more than mineral grains. It also carries manure, feed, and plant debris,

[42] *U.S. EPA, Modeling Guidance for Demonstrating Air Quality Goals for Ozone, PM2.5, and Regional Haze, EPA-454/R-18-009, November 2018, Section 2.5, p. 25.*

which register as organic carbon and are reported under organic mass. Some fugitive-dust sources can contribute to both measured components, and the soil term alone understates how much of it reaches the monitor. Because these operations are situated close to the Hidden Valley monitor, they are a plausible contributor to the organic mass measured there, although the speciation data do not fully apportion organic mass between primary and secondary origins.

Composition on high-concentration sampling days. Because attainment with the 24-hour standard is based on the three-year average of the annual 98th-percentile 24-hour concentrations, the composition of elevated days matters more than the annual average. Comparing the 10 highest sampling days at Hidden Valley against the remaining 50, all collected at the same monitor under the same analytical protocol, characterizes the relative enhancement of PM-2.5 components on the high-concentration sampling days.

As shown in Table 3-14, total reconstructed mass rises from 11.6 to 22.5 µg/m³, an increment of 10.9 µg/m³, of which secondary inorganic aerosol represented by ammonium nitrate and ammonium sulfate accounts for 18 percent. Elemental carbon shows the largest relative enhancement on the 10 highest sampling days, increasing by a factor of 2.9. Soil and crustal dust and ammonium nitrate had enhancement ratios of 2.4 and 2.5, respectively, compared with 1.9 for total reconstructed mass. Ammonium sulfate showed a smaller relative increase of 1.5. Organic mass contributed 40 percent of the increment. The elevated-day composition therefore shows substantial contributions from organic mass and soil and crustal dust, which together account for approximately 76 percent of the increase in reconstructed PM-2.5 mass. Although organic mass represents the largest share of the increment, the available speciation data do not distinguish between its primary and secondary fractions.

Table 3-14 Reconstructed PM-2.5 composition on the 10 highest concentration days compared with the remaining 50 sampling days at Hidden Valley, October 2024 – September 2025.

Component	Remaining 50 sampling days (µg/m³)	10 highest days (µg/m³)	Increment (µg/m³)	Share of increment	Enhancement ratio
Organic mass	6.1	10.4	4.3	40%	1.7
Soil and crustal dust	2.7	6.7	4.0	36%	2.4
Ammonium nitrate	1.0	2.5	1.5	14%	2.5
Ammonium sulfate	0.9	1.3	0.4	4%	1.5
Elemental carbon	0.2	0.6	0.4	4%	2.9
Salt	0.6	1.0	0.3	3%	1.5
Total	**11.6**	**22.5**	**10.9**	**100%**	**1.9**

Note: Totals are sums of the component values; shares are computed from unrounded concentrations.

Precursor formation potential. Sulfur dioxide (SO_2) emissions within the nonattainment area are 53 lbs/day. Even at complete conversion, this could produce no more than roughly 110 lbs/day of ammonium sulfate.[43] Nitrogen oxides emissions of 4,821 lbs/day, expressed as NO_2-equivalent, have a theoretical maximum formation potential of approximately 8,400 lbs/day of ammonium nitrate. These values represent theoretical upper bounds rather than expected atmospheric formation. Local SO_2 emissions are small relative to the 8,524.9 lbs/day of directly emitted PM-2.5, and ammonium sulfate shows an enhancement ratio of only 1.5 on the 10 highest sampling days and accounts for 4 percent of the PM-2.5 increment. These observations are consistent with a substantial regional contribution to the sulfate measured at Hidden Valley and indicate that local SO_2 emissions are not a major driver of elevated PM-2.5 concentrations.

Although substantial NH_3 emissions from animal feeding operations and fertilizer use suggest that local ammonium nitrate formation is primarily limited by nitric acid from NOx oxidation, the response of ambient nitrate to changes in NOx is nonlinear and cannot be quantified from the available measurements. Ammonium nitrate accounted for 11 percent of reconstructed PM-2.5 on the 10 highest sampling days and 14 percent of the increase above the remaining 50 days. Therefore, rather than scaling nitrate with projected NOx reductions, the rollback holds the ammonium nitrate concentration constant through 2038. Because NOx emissions are projected to decline, this approach takes no credit for a potential nitrate reduction and is conservative.

Conclusion. Elevated PM-2.5 at Hidden Valley is strongly influenced by directly emitted local material. Secondary inorganic aerosol accounts for approximately 18 percent of the increase between the remaining sampling days and the 10 highest. The available data do not quantify the primary and secondary fractions of organic mass, but the elevated-day timing, local source setting, and substantially lower organic mass at Organ Pipe indicate that local primary organic material is an important contributor. These observations support a component-specific proportional rollback approach, with sensitivity tests used to evaluate source-composition and secondary-organic-aerosol uncertainties.

3.4.3.2 Rollback Methodology

Maintenance of the 24-hour PM-2.5 NAAQS is demonstrated using a proportional rollback applied to speciated PM-2.5 data at the Hidden Valley monitor. The method assumes that the portion of ambient PM-2.5 attributable to sources within the nonattainment area changes in direct proportion to emissions from those sources, while the portion attributable to sources outside the area remains constant.

For each PM-2.5 component, the regional background concentration measured at the Organ Pipe Cactus NM IMPROVE site is subtracted from the Hidden Valley component concentration scaled to the baseline design value (**DVB**). The difference is the Net Component Concentration (**NCC**), which is treated as the locally responsive concentration for purposes of the rollback analysis. That net concentration is scaled by the ratio of future-year to 2023 base year (attainment-year)

[43] *The theoretical upper bounds assume 100 percent conversion of SO_2 to ammonium sulfate and NO_x to ammonium nitrate with sufficient NH3 for complete neutralization: 53 lbs/day SO_2 × (132.14/64.07) = 109 lbs/day $(NH_4)_2SO_4$; and 4,821 lbs/day NO_x × (80.04/46.01) = 8,387 lbs/day NH_4NO_3. NO_x emissions are expressed on an NO_2-equivalent mass basis.*

emissions for the source category or precursor associated with the component. The background concentration is added back unchanged.

For example, the projected future year design value (**DVF**) of each component is:

$$DVF_i = (DVB_i - B_i) \times R_i + B_i$$

where DVB_i is the DVB of component i at Hidden Valley, $B_i$is the corresponding background concentration of component i, and $R_i$is the ratio of future year to base year emissions for the source category or precursor associated with component i.

The projected DVF is the sum of the projected component concentrations:

$$DVF = \sum_{i=1}^{6} DVF_i$$

The components are those identified in EPA's PM-2.5 composition procedure: organic mass, soil and crustal dust, ammonium nitrate, ammonium sulfate, elemental carbon, and salt. For the two components held constant, ammonium nitrate and salt, the scaling ratio (R) is set equal to 1.0. Each component is projected independently and the results are summed. The same equation and component assignments are applied to both the 2030 interim year and the 2038 maintenance year.

3.4.3.3 Assignment of PM-2.5 Components to Emissions Categories

Each of the six PM-2.5 components is either scaled by the emissions group or precursor that governs its concentration or held constant. This section establishes those assignments once. The interim and maintenance year demonstrations that follow apply them without restating them, and report only the resulting emissions and projections.

Component assignments and chemical basis. Organic mass is treated as predominantly associated with local primary organic material for the central rollback analysis. Potential local sources include feedlot and dairy activity, organic-rich agricultural dust, combustion, cooking, engine exhaust, and open burning. Organic aerosol can also form secondarily from volatile organic compounds, but the available speciation data do not separately quantify primary organic aerosol and secondary organic aerosol. This uncertainty is addressed through the VOC sensitivity test, which evaluates the effect of assigning a portion of organic mass to VOC-related secondary organic aerosol (SOA) formation.

Organic mass, soil and crustal dust, and elemental carbon are treated as directly emitted material and are scaled by direct PM-2.5 emissions, while salt is held constant because no emissions surrogate is available. Organic aerosol can also form in the atmosphere from volatile organic compounds, and the speciation data do not separate the primary and secondary fractions of measured organic mass. The scaling assignment does not require that separation. The organic mass group combines combustion sources with animal operations, and these same operations

are the principal local sources of the volatile organic compounds from which locally formed organic aerosol would arise. Directly emitted particles and locally formed aerosol therefore rise and fall with the same activity, and both are captured in the measured concentration the rollback scales. The only organic aerosol that would not respond to local emissions is material formed from precursors spread across the region, such as biogenic VOC. If that material were a major contributor, it would appear at both sites, yet organic mass on the highest days measures 10.4 $\mu g/m^3$ at Hidden Valley and only 1.1 $\mu g/m^3$ at the background site.

The central organic-mass assignment is supported by the source setting and by the monitoring data. Organic mass on the 10 highest Hidden Valley sampling days is much higher than the corresponding background value at Organ Pipe, which suggests a substantial local contribution. Therefore, the central rollback analysis scales organic mass using the organic mass group of direct PM-2.5 sources (Table 3-16), while the VOC sensitivity test provides a conservative check on the potential influence of secondary organic aerosol.

Ammonium nitrate and ammonium sulfate are secondary PM-2.5 components formed in the atmosphere. Formation generally involves oxidation of NOx and SO_2 to nitric and sulfuric acids, followed by neutralization with NH_3. Because feedlots, dairies, and fertilizer use provide substantial NH_3 emissions near Hidden Valley, NH_3 is expected to remain abundant, and acid formation is an important limiting step.

For ammonium sulfate, SO_2 emissions are used as the scaling surrogate. For ammonium nitrate, however, the relationship between NOx emissions and ambient nitrate is nonlinear and has not been quantified for this area. In several previous California plans, ammonium nitrate was assumed to change by 0.7 percent for each 1 percent change in NOx emissions, based on photochemical modeling of the San Joaquin Valley, so a one-to-one response could overstate the benefit of NOx reductions. Therefore, consistent with EPA's recommendation, ammonium nitrate is held constant at its baseline concentration through the maintenance period rather than scaled with projected NOx reductions. This approach takes no credit for a potential nitrate reduction and is conservative. Table 3-15 summarizes the scaling basis for each PM-2.5 component used in the rollback analysis.

Table 3-15 PM-2.5 components, scaling basis, and rationale.

PM-2.5 component	Scaling Basis	Rationale for the assignment
Organic mass	Organic mass group emissions	Represents primary organic material from feedlot/dairy activity, organic-rich agricultural dust, combustion, cooking, mobile exhaust, and open burning. VOC is not used as the central scaling surrogate because the measured organic mass is not apportioned into primary and secondary fractions and total VOC does not represent the local primary organic PM-2.5 source profile.
Soil and crustal dust	Fugitive dust group emissions	Crustal material undergoes no chemical change in the atmosphere, so ambient mass responds directly to emissions from the dust-generating categories
Ammonium nitrate	Held constant (R = 1.0)	NH_3 is abundant, but the response of ambient ammonium nitrate to changes in NO_x emissions is nonlinear and has not been quantified for this area. Therefore, nitrate is held constant rather than assuming a proportional decrease with projected NO_x reductions, providing a conservative assumption for the maintenance demonstration.
Ammonium sulfate	SO_2	Under the same NH_3-rich condition, formation is limited by the oxidation of sulfur dioxide
Elemental carbon	Combustion group emissions	The combustion categories only. Feedlots and dairies are excluded, since the inventory identifies no combustion at those sources
Salt	Held constant (R = 1.0)	No controllable source within the nonattainment area and no emissions surrogate available

Source groups and emissions ratios used in the rollback analysis. Table 3-16 identifies the inventory source categories included in each scaling group. An "X" indicates that the source category is included in that group. The last row sums the selected source categories within each column. These column totals are not additive across columns because some source categories are included in more than one scaling group. The direct PM-2.5 emissions in Table 3-16 for individual source categories are identical to the emissions included in Appendix A (Technical Support Document).

Table 3-16 Inventory source categories assigned to each scaling group.

Source category	2023 PM-2.5 (lbs/day)	2030 PM-2.5 (lbs/day)	2038 PM-2.5 (lbs/day)	Organic Mass	Fugitive Dust	Combustion
Permitted sources	38.6	38.6	38.6	X	-	X
Harvesting and tilling	1,064.1	949.5	929.3	-	X	-
CAFOs	551.5	508.1	508.1	X	X	-
Dairies	205.1	196.3	196.3	X	X	-
Road construction	0.0	29.5	16.9	-	X	-
All other construction	64.8	55.1	64.8	-	X	-
Commercial cooking	41.8	56.1	65.9	X	-	X
Fuel combustion	633.0	849.1	998.3	X	-	X
Miscellaneous non-industrial processes	33.6	42.1	48.2	X	-	X
Other agricultural and livestock	1.2	1.2	1.2	X	-	-
Wildfires	48.4	48.4	48.4	X	-	X
Open burning	385.9	377.7	369.9	X	-	X
Unpaved parking	159.9	99.1	97.5	-	X	-
Windblown dust	394.2	394.2	394.2	-	X	-
Nonroad mobile	83.3	50.0	36.0	X	-	X
Airport	2.0	2.2	2.2	X	-	X
Locomotive	12.5	12.5	12.5	X	-	X
Onroad mobile (exhaust/tire and brake wear)	35.9	32.0	25.8	X	-	X
Paved road	165.0	246.2	302.9	-	X	-
Unpaved road, agricultural	1,371.1	1,146.2	1,121.7	-	X	-
Unpaved road, public	1,202.4	1,362.4	1,131.3	-	X	-
Unpaved road, private	1,824.8	1824.8	1,824.8	-	X	-
Unpaved road, trails	61.4	61.4	61.4	-	X	-
Unpaved road, test tracks	144.4	144.4	144.4	-	X	-
Total PM-2.5	**8,524.9**	**8,527.1**	**8,440.6**	-	-	-
Total Organic Mass	**2,073**	**2,214**	**2,351**	**-**	**-**	**-**
Total Fugitive Dust	**7,209**	**7,017**	**6,794**	**-**	**-**	**-**
Total Combustion	**1,315**	**1,509**	**1,646**	**-**	**-**	**-**

Feedlots and dairies appear in both the organic mass and fugitive dust groups because their dust contributes to both measured components, as described in Section 3.4.3.1. The groups are used to compute ratios and are not a partition of the inventory, so they are never summed. Every source category emitting direct PM-2.5 is assigned to at least one group, and the assigned totals reconcile to the 2023 inventory. Assigning the full emissions of a category to each group in which it appears is a simplification, because a category may contribute to the measured components in different proportions. The source-composition sensitivity test in Section 3.4.4 (Sensitivity Tests) evaluates

component-specific weights for these categories.

3.4.3.4 Net Component Concentration

As described in Section 3.4.3.2, the Net Component Concentration (NCC) is calculated for each component by subtracting the background component concentration at Organ Pipe (Table 3-13) from the Hidden Valley concentration scaled to the baseline design value (Table 3-11). The result of that operation is shown in Table 3-17.

Table 3-17 Net Component Concentration (NCC) at Hidden Valley for each component.

PM-2.5 Component	Scaling Basis	Component Concentration at Organ Pipe (µg/m^3)	Concentration Scaled to DVB at HV (µg/m^3)	Net Component Concentration (µg/m^3)
Organic mass	Organic mass group	1.1	12.3	11.2
Soil and crustal dust	Fugitive dust group	1.8	8.0	6.3
Ammonium nitrate	Held constant	0.3	2.9	2.7
Ammonium sulfate	SO_2	1.0	1.6	0.6
Elemental carbon	Combustion group	0.1	0.8	0.7
Salt	Held constant	0.2	1.1	0.8
Total	-	**4.4**	**26.7**	**22.3**

Note: Component values are rounded for presentation. Totals are computed from unrounded values and might differ slightly from the sum of the rounded values shown.

3.4.3.5 2030 Interim Year Demonstration

As shown in Table 3-18, applying the emissions ratios for each scaling group to the NCC and adding back the 4.4 µg/m^3 regional background gives a projected 2030 design value of 27.5 µg/m^3, well below the 24-hour standard of 35 µg/m^3. Organic mass and elemental carbon are projected to grow with combustion and animal-feeding activity, and those increases are partly offset by a modest decline in fugitive dust.

Table 3-18 2030 interim year PM-2.5 maintenance demonstration at Hidden Valley.

PM-2.5 Component	Net Component Concentration (µg/m³)	2023 Emissions (lbs/day)	2030 Emissions (lbs/day)	Scaling Ratio	2030 Rolled NCC (µg/m³)	2030 DV (µg/m³)
Organic mass	11.2	2,072.8	2,214.3	1.07	11.9	13.0
Soil and crustal dust	6.3	7,208.7	7,017.2	0.97	6.1	7.8
Ammonium nitrate	2.7	n/a	n/a	1.00	2.7	2.9
Ammonium sulfate	0.6	53.1	60.0	1.13	0.7	1.7
Elemental carbon	0.7	1,315.0	1,508.7	1.15	0.8	0.9
Salt	0.8	n/a	n/a	1.00	0.8	1.1
Total	**22.3**	**n/a**	**n/a**	**n/a**	**23.1**	**27.5**

Note: Emissions for ammonium sulfate are the precursor SO2 emissions. Ammonium nitrate and salt are held constant (scaling ratio of 1.00). Component values are rounded for presentation, and totals are computed from unrounded values.

3.4.3.6 2038 Maintenance Year Demonstration

The 2038 projection follows the same method and the same component assignments, substituting 2038 emissions. As shown in Table 3-19, the projected 2038 design value is 28.1 µg/m³, below the 24-hour standard of 35 µg/m³. A six percent reduction in fugitive dust partly offsets projected growth in organic mass and elemental carbon, and the area is demonstrated to maintain the standard through the end of the maintenance period.

Table 3-19 2038 maintenance year PM-2.5 maintenance demonstration at Hidden Valley.

PM-2.5 Component	Net Component Concentration (µg/m³)	2023 Emissions (lbs/day)	2038 Emissions (lbs/day)	Scaling Ratio	2038 Rolled NCC (µg/m³)	2038 DV (µg/m³)
Organic mass	11.2	2,072.8	2,351.4	1.13	12.7	13.8
Soil and crustal dust	6.3	7,208.7	6,793.6	0.94	5.9	7.7
Ammonium nitrate	2.7	n/a	n/a	1.00	2.7	2.9
Ammonium sulfate	0.6	53.1	63.6	1.20	0.8	1.7
Elemental carbon	0.7	1,315.0	1,645.8	1.25	0.9	1.0
Salt	0.8	n/a	n/a	1.00	0.8	1.1
Total	**22.3**	**n/a**	**n/a**	**n/a**	**23.7**	**28.1**

3.4.4 Sensitivity Test

Three sensitivity tests evaluate key scaling assumptions in the rollback. The first treats part of the organic mass as secondary organic aerosol scaled by VOC emissions. The second and third replaces the full-emissions assignments in Table 3-16 with component-specific weights for source categories that contribute to more than one PM-2.5 component. All tests use the same NCC and background concentrations as the central component-specific proportional rollback demonstration.

3.4.4.1 Organic Mass Using VOC as a Partial Scaling Surrogate

The first sensitivity test was conducted to evaluate the effect of treating a portion of organic mass as SOA formed from VOC, rather than as primary organic material associated with combustion and animal-feeding operations. The assumed VOC-related portion of organic mass was varied from 1 percent to 100 percent.

SOA is generally most important where abundant VOC emissions coincide with warm, photochemically active conditions. Studies in southern Arizona have identified enhanced biogenic and aqueous secondary organic aerosol formation during warm-season and monsoon conditions.[44,45] Elevated PM-2.5 at Hidden Valley occurs in both warm and cool seasons, so some SOA contribution to the measured organic mass is possible, along with primary organic material from nearby agricultural/feedlot and combustion sources. The available data do not separate the two, and the VOC sensitivity test evaluates the effect of this uncertainty on the projected design values.

For each assumed VOC fraction, the organic-mass scaling ratio was calculated using the VOC emissions ratio for the VOC-related portion and the direct PM-2.5 emissions ratio for the remaining primary organic portion. This test provides a conservative check on the central assumption that organic mass is represented by the organic mass group.

As shown in Table 3-20, VOC emissions increase more slowly than emissions in the organic mass group. VOC emissions increase by factors of 1.03 in 2030 and 1.04 in 2038, compared with 1.07 and 1.13 for the organic mass group. Therefore, assigning a portion of organic mass to VOC does not increase the projected design values. Instead, the sensitivity test produces projected design values equal to or lower than the central component-specific proportional rollback results.

[44] *Sorooshian, A., Wonaschütz, A., Jarjour, E.G., Hashimoto, B.I., Schichtel, B.A., and Betterton, E.A. (2011). An aerosol climatology for a rapidly growing arid region (southern Arizona): Major aerosol species and remotely sensed aerosol properties. Journal of Geophysical Research: Atmospheres, 116, D19205.*

[45] *Youn, J.-S., Wang, Z., Wonaschütz, A., Arellano, A., Betterton, E.A., and Sorooshian, A. (2013). Evidence of aqueous secondary organic aerosol formation from biogenic emissions in the North American Sonoran Desert. Geophysical Research Letters, 40, 3468–3472.*

Table 3-20 Comparison of organic-mass scaling surrogates for VOC sensitivity test.

Scaling Surrogate	2023 Emissions (lbs/day)	2030 Emissions (lbs/day)	2030 Ratio	2038 Emissions (lbs/day)	2038 Ratio
Organic mass group (direct PM-2.5)	2,072.8	2,214.3	1.07	2,351.4	1.13
Volatile Organic Compounds	50,354	51,693	1.03	52,411	1.04

Note: Ratios are calculated relative to 2023 emissions. The VOC sensitivity test changes only the scaling surrogate for the assumed VOC-related portion of organic mass; all other PM-2.5 components retain the scaling assignments used in the central component-specific proportional rollback demonstration.

For example, when 50 percent of organic mass is assumed to be formed through VOC oxidation, the projected design value is 27.2 µg/m³ in 2030 and 27.6 µg/m³ in 2038. These values are lower than the central projected design values of 27.5 µg/m³ in 2030 and 28.1 µg/m³ in 2038. The sensitivity test therefore confirms that the central organic-mass scaling assumption is conservative and that use of VOC as a partial surrogate would not threaten continued maintenance of the 2006 24-hour PM-2.5 NAAQS.

3.4.4.2 Source-Composition Weights for the Scaling Groups

The central component-specific proportional rollback performed in Section 3.4.3 assigns the full PM-2.5 emissions of each source category to every scaling group in which it appears (Table 3-16). This treatment assumes that a category contributes to each assigned component in proportion to its total PM-2.5 emissions, although categories can contribute to the measured components in different proportions. For example, CAFOs and dairies may differ in the shares of their emissions that are measured as organic mass and as soil and crustal dust. The source-composition sensitivity test replaces the full-emissions assignments with component-specific weights for the categories that contribute most to the organic mass and fugitive dust groups, based on published source profiles and local measurements. Table 3-21 lists the weights.

Animal operations. Selected EPA SPECIATE version 5.4 profiles indicate organic mass fractions of 24.93 percent for CAFOs and 44.56 percent for dairies.[46] Upadhyay et al. (2015) characterized resuspended cattle-feedlot surface material in Pinal County and reported approximately 37 percent organic mass and 63 percent crustal material in its reconstructed PM-2.5 composition.[47] Informed by these data, the test applies a common allocation of 40 percent organic mass and 60 percent fugitive dust to both categories. This allocation is a screening assumption. It does not imply that the two categories have identical source profiles or that the measured feedlot profile represents all emissions from animal-feeding operations.

Windblown dust. Windblown dust near Hidden Valley may carry organic material because the monitor is close to animal-feeding operations. On two high-wind days during the October

[46] *U.S. EPA, SPECIATE, Version 5.4.*

[47] *Upadhyay, N., Clements, A.L., Fraser, M.P., Sundblom, M., Solomon, P., and Herckes, P. (2015). Size-Differentiated Chemical Composition of Re-Suspended Soil Dust from the Desert Southwest United States. Aerosol and Air Quality Research, 15, 387–398. https://doi.org/10.4209/aaqr.2013.07.0253.*

2024 through September 2025 speciation study, organic mass accounted for approximately 46 percent of measured PM-2.5. The test therefore allocates windblown dust 50 percent to organic mass and 50 percent to fugitive dust. Because the ambient measurements reflect several contributing sources rather than a windblown-dust source profile, this allocation is a sensitivity assumption rather than a measured composition.

Agricultural soil and road dust. Harvesting, tilling, and road dust remain in the fugitive dust group in the central component-specific proportional rollback, but they are not free of organic material. SPECIATE profiles 91101 and 91130 indicate organic mass fractions of approximately 4.3 percent for tilling and 5.7 percent for harvesting, and Upadhyay et al. (2015)[48] found less than 5 percent organic mass in resuspended agricultural soil from Pinal County. The same study reported approximately 2.4 percent organic mass in agricultural unpaved-road dust and 9.8 percent in paved-road dust. The test applies 5 percent organic mass to harvesting and tilling, 10 percent to paved roads, and 2.5 percent to all unpaved-road categories, with the remainder assigned to fugitive dust. Upadhyay et al. (2015) did not report profiles for public, private, trail, or test-track unpaved roads, so the agricultural unpaved-road value is applied to those categories as a screening assumption.

Combustion sources. Fuel combustion and open burning account for 1,018.9 lbs/day, or 77.5 percent, of the 2023 PM-2.5 emissions assigned to both the organic mass and combustion groups. Wood-burning sources, including woodstoves, fireplaces, furnaces, outdoor wood-burning devices, and other wood-fired sources, contribute approximately 614.7 lbs/day, or 97.1 percent, of the 633.0 lbs/day from fuel combustion. EPA's residential wood-combustion profile 91105 contains 52.8 percent organic carbon and 37.0 percent non-carbon organic matter, or 89.8 percent organic mass,[49] so fuel combustion is weighted at 90 percent in the organic mass group. Open burning is weighted at 85 percent, based on EPA's prescribed-burning composite profile 91109 (50.19 percent organic carbon and 35.13 percent non-carbon organic matter), which is used here as a surrogate for vegetative burning. The combustion group is unchanged, and the non-organic fractions of these two categories are not reassigned to another component, therefore this sensitivity test isolates the effect of the organic mass weights.

[48] *Ibid.*

[49] *Reff, A., Bhave, P.V., Simon, H., Pace, T.G., Pouliot, G.A., Mobley, J.D., and Houyoux, M. (2009). Emissions Inventory of PM2.5 Trace Elements across the United States. Environmental Science & Technology, 43(15), 5790–5796. https://doi.org/10.1021/es802930x.*

Table 3-21 Source-category weights used in the source-composition sensitivity test.

Source category	Organic mass weight	Fugitive dust weight	Basis
Harvesting and tilling	0.05	0.95	SPECIATE profiles 91101 and 91130; Upadhyay et al. (2015)
CAFOs	0.40	0.60	SPECIATE v5.4; Upadhyay et al. (2015)
Dairies	0.40	0.60	SPECIATE v5.4; Upadhyay et al. (2015)
Fuel combustion	0.90	-	SPECIATE profile 91105
Open burning	0.85	-	SPECIATE profile 91109
Windblown dust	0.50	0.50	Hidden Valley high-wind days
Paved road	0.10	0.90	Upadhyay et al. (2015)
Unpaved road, agricultural	0.025	0.975	Upadhyay et al. (2015)
Unpaved road, public	0.025	0.975	Screening assumption
Unpaved road, private	0.025	0.975	Screening assumption
Unpaved road, trails	0.025	0.975	Screening assumption
Unpaved road, test tracks	0.025	0.975	Screening assumption

Note: Weights are the fractions of each category's PM-2.5 emissions assigned to each scaling group. A dash indicates that the category is not assigned to that group. Categories not listed keep the assignments in Table 3-16, in which each category marked "X" has a weight of 1.00.

The source-composition weights were applied consistently to the 2023, 2030, and 2038 inventories before calculating the future-to-base-year emissions ratios. For the primary sensitivity case, the weighted 2023 organic mass and fugitive dust totals are 1,880 and 6,524 lbs/day, respectively, compared with 2,073 and 7,209 lbs/day in the central component-specific proportional rollback. All other component scaling ratios remain unchanged.

A third source-composition sensitivity case specifically evaluates differences between CAFO and dairy composition. The common 40-percent organic-mass allocation is replaced with the EPA SPECIATE v5.4 source-specific values, rounded to 25 percent OM and 75 percent fugitive dust for CAFOs and 45 percent OM and 55 percent fugitive dust for dairies. All other weights in Table 3-21 remain unchanged. This case directly evaluates some concerns that CAFOs and dairies may contribute different proportions to organic mass and fugitive dust.

As shown in Table 3-22, the source-composition sensitivity increases the projected design value by approximately 0.1 µg/m³, while the differential CAFO/dairy case increases it by approximately 0.2 µg/m³, relative to the central component-specific proportional rollback in both projection years. The highest projected design value is 28.3 µg/m³ in 2038, which remains well below the 24-hour PM-2.5 standard of 35 µg/m³. Therefore, the sensitivity analyses do not change the maintenance conclusion.

Table 3-22 Projected 24-hour PM-2.5 design values for the central component-specific proportional rollback and source-composition sensitivity cases.

Case	2030 DV (µg/m^3)	2038 DV (µg/m^3)
Component-specific proportional rollback (Tables 3-18 and 3-19)	27.5	28.1
Source-composition sensitivity, SOA from VOC	27.2	27.6
Source-composition sensitivity, 40% OM for CAFOs and dairies	27.6	28.2
Differential CAFO/dairy sensitivity, 25% CAFO OM and 45% dairy OM	27.7	28.3

3.5 Transportation Conformity

In accordance with the CAA, conformity requirements are intended to ensure that transportation activities do not result in air quality degradation. Section 176 of the CAA requires that transportation plans, programs, and projects conform to applicable air quality plans before the transportation action is approved by a metropolitan planning organization (MPO). The designated MPOs for the West Central Pinal PM-2.5 Nonattainment Area include the Maricopa Association of Governments and the Sun Corridor Metropolitan Planning Organization (SCMPO).

Both the MAG Metropolitan Planning Area Boundary and the SCMPO Metropolitan Planning Area Boundary include portions of the West Central Pinal PM-2.5 Nonattainment Area. The nonattainment area is covered by the boundaries of the two metropolitan planning organizations. Consequently, transportation conformity is required to be demonstrated for the nonattainment area by both metropolitan planning organizations.

Section 176(c) of the CAA provides the framework for ensuring that federal actions conform to air quality plans under Section 110. Conformity to an implementation plan means that proposed activities must not:

(1) cause or contribute to any new violation of any standard in any area,

(2) increase the frequency or severity of any existing violation of any standard in any area, or

(3) delay timely attainment of any standard or any required interim emission reductions or other milestones in any area.

3.5.1 Motor Vehicle Emissions Budgets

EPA transportation conformity regulations establish criteria involving comparison of projected transportation plan emissions with the motor vehicle emissions budgets (MVEB) established in applicable air quality plans. The regulations (40 CFR Section 93.101) define the term "motor vehicle emissions budget" as meaning:

> *"[T]hat portion of the total allowable emissions defined in the submitted or approved control strategy implementation plan revision or maintenance plan for a certain date for the purpose of meeting reasonable further progress milestones or demonstrating*

> *attainment or maintenance of the NAAQS, for any criteria pollutant or its precursors, allocated to highway and transit vehicle use and emissions."*

In September 2013, EPA determined that the West Central Pinal PM-2.5 Nonattainment Area attained the 2006 24-hour PM-2.5 NAAQS based on monitoring data from 2010-2012 (78 FR 54394). Additionally, in October 2019, EPA determined that the West Central Pinal PM-2.5 Nonattainment Area attained the 2006 24-hour PM-2.5 NAAQS by the December 31, 2017, attainment date based on monitoring data from 2015-2017. These actions suspended the requirements to submit demonstrations of attainment and reasonable further progress for the nonattainment area, along with the associated MVEB. As such, no prior MVEB have been established for the West Central Pinal PM-2.5 Nonattainment Area. For the West Central Pinal PM-2.5 Nonattainment Area, conformity analyses will continue to apply the interim emissions tests until EPA has found adequate or approved the MVEB's included in this plan.

The 2026 Redesignation Request and Maintenance Plan for the West Central Pinal PM-2.5 Nonattainment Area establishes transportation conformity MVEB based on the adopted and existing particulate matter control measures referenced in this plan, which are being implemented throughout the 10-year maintenance period ending in 2038. The plan includes MVEB for the interim year of 2030 and for the maintenance year of 2038. Consistent with conformity regulations in 40 CFR 93.102(b), MVEB are established for directly emitted PM-2.5 emissions and precursor nitrogen oxide (NOx) emissions.

For directly emitted PM-2.5, the MVEB are comprised of emissions from transportation-related source categories including:

(1) onroad mobile vehicle exhaust, tire wear and brake wear;

(2) road construction;

(3) re-entrained dust from vehicle travel on paved roads; and

(4) fugitive dust from vehicle travel on public and private (non-agricultural) unpaved roads.

While unpaved private non-agricultural roads are not officially maintained by a city, county or town, they are generally accessible and used frequently by the public. As such, unpaved private non-agricultural roads have been included as an emission source category in the MVEB. Conversely, unpaved private agricultural roads primarily used to access irrigation canals or farm fields have not been included as a category in the MVEB as these roads are generally not accessed or used by the public. This same classification of eligible emission sources is used for the PM-10 MVEB in the 2023 Five Percent Plan for PM-10 for the West Pinal County Nonattainment Area. For precursor NOx emissions, the budgets include emissions from onroad mobile vehicle exhaust.

The PM-2.5 and NOx emissions for the source categories that comprise the MVEB for the 2030 interim year and the 2038 maintenance year are summarized in Table 3-23 in pounds per day. The methods used to estimate and project 2030 and 2038 emissions for each of the source categories that make up the MVEB are described in detail in Appendix A of this plan. Table 3-24 provides a crosswalk for where the methodology for estimating each source category can be found in Appendix A.

Table 3-23 Projected 24-hour PM-2.5 design values for the central rollback and source-composition sensitivity cases.

Pollutant	Emissions Category	2030 (lbs/day)	2038 (lbs/day)
PM-2.5	Onroad mobile exhaust, tire and brake wear	32	26
PM-2.5	Paved road dust	246	303
PM-2.5	Unpaved public road dust	1,362	1,131
PM-2.5	Unpaved private road dust	1,825	1,825
PM-2.5	Road construction	30	17
Total PM-2.5	**-**	**3,495**	**3,302**
NOx	Onroad mobile exhaust	777	496
Total NOx	**-**	**777**	**496**

Table 3-24 Crosswalk for locating the methodologies for developing emissions for the source categories that comprise the Motor Vehicle Emissions Budgets.

Emissions Source Category	Location in Appendix A for 2030 and 2038 Emissions
Onroad mobile exhaust, tire and brake wear	Section III.D.1, page III-36
Paved road dust	Section III.D.2, page III-40
Unpaved public road dust	Section III.D.3, page III-44
Unpaved private road dust	Section III.D.3, page III-44
Road construction	Section III.B.2, page III-5

3.5.1.1 Motor Vehicle Emissions Budgets for 2030 and 2038 Including Excess Emissions from Available Safety Margins

To account for future uncertainties in transportation-related emissions within the West Central Pinal PM-2.5 Nonattainment Area, the MVEB for 2030 and 2038 have been increased by 50 percent (a factor of 1.5). There are several reasons why it is important to increase the MVEB in the nonattainment area to account for future uncertainties:

1. While the budgets already account for population growth in the nonattainment area, Pinal County is one of the fastest growing counties in the nation, which can make accurate prediction of dynamic transportation-related growth more difficult.
2. The nonattainment area is still largely dominated by rural agricultural activities apart from the City of Maricopa. Given the uncertainties in the future delivery of water for agriculture in the nonattainment area, the area could experience a faster transition to urban uses which could accelerate transportation-related emissions.
3. Estimating transportation-related emissions through available models and approved equations remains uncertain, particularly as the federal regulatory landscape around transportation emissions is in flux.
4. The increased budgets will help facilitate rapidly evolving transportation planning while ensuring that the nonattainment area remains in compliance with federal air quality standards.

The excess emissions applied to the MVEB consume only a relatively small portion of the available "safety margin" afforded by the maintenance demonstration, ensuring that the increased MVEB will not interfere with maintenance of the PM-2.5 standard through 2038. Transportation conformity regulations in 40 CFR §93.101 define "safety margin":

> *"Safety margin means the amount by which the total projected emissions from all sources of a given pollutant are less than the total emissions that would satisfy the applicable requirement for reasonable further progress, attainment or maintenance."*

As shown earlier in the maintenance demonstration in Section 3.4, the estimated total nonattainment area emissions in 2030 result in a PM-2.5 design value of 27.5 µg/m^3, well below the 24-hour PM-2.5 standard of 35 µg/m^3. Similarly, the total nonattainment area emissions in 2038 result in a PM-2.5 design value of 28.1 µg/m^3. The maintenance demonstration establishes that there are significant excess emissions available within the safety margin that can be utilized before the nonattainment area comes close to a future PM-2.5 design value in 2030 or 2038 that would exceed the 24-hour PM-2.5 standard of 35 µg/m^3.

In the subsection below, a technical demonstration, using the same methodology employed in the maintenance demonstration, confirms that the increased and excess emissions included in the MVEB would result in 2030 and 2038 PM-2.5 design values of 29.1 and 29.7µg/m^3, respectively. These future design values ensure that the increased MVEB will not interfere with maintenance of the PM-2.5 standard through 2038.

Table 3-25 displays the MVEB for 2030 and 2038, with the 1.5 factor applied to all source category emissions that comprise the budget. To be consistent with the conformity analyses performed by MAG for other nonattainment and maintenance areas with the MAG region, the MVEB as expressed in metric tons per day, are displayed in Table 3-26 and will be used in future conformity analyses. MAG will use these new budgets for conformity analyses that begin after the budgets are found to be adequate or have final approval by EPA as part of the 2026 Redesignation Request and Maintenance Plan for the West Central Pinal PM-2.5 Nonattainment Area.

In summary, the Maintenance Plan establishes a PM-2.5 MVEB of 2.4 metric tons per day for 2030 and 2.3 metric tons per day for 2038. The plan also establishes a NOx MVEB of 0.5 metric tons per day for 2030 and 0.3 metric tons per day for 2038.

Table 3-25 Motor Vehicle Emission Budgets for the West Central Pinal PM-2.5 Nonattainment Area for interim year 2030 and maintenance year 2038 in pounds per day.

Pollutant	Emissions Category	2030 (lbs/day)	2038 (lbs/day)
PM-2.5	Onroad mobile exhaust, tire and brake wear	48	39
PM-2.5	Paved road dust	369	454
PM-2.5	Unpaved public road dust	2,044	1,697
PM-2.5	Unpaved private road dust	2,737	2,737
PM-2.5	Road construction	44	25
Total PM-2.5	**-**	**5,242**	**4,953**
NOx	Onroad mobile exhaust	1,166	744
Total NOx	**-**	**1,166**	**744**

Table 3-26 Motor Vehicle Emission Budgets for the West Central Pinal PM-2.5 Nonattainment Area for interim year 2030 and maintenance year 2038 in metric tons per day.

Pollutant	2030 (metric tons/day)	2038 (metric tons/day)
PM-2.5	**2.4**	**2.3**
NOx	**0.5**	**0.3**

3.5.2 Technical Demonstration That the Motor Vehicle Emissions Budgets Do Not Interfere with Maintenance of the PM-2.5 Standard

In order to demonstrate that the MVEB (which include excess emissions available from safety margins in 2030 and 2038) do not interfere with maintenance of the PM-2.5 standard through 2038, the same rollback methodology used in the maintenance demonstration in Section 3.4.3 was applied to the 2030 and 2038 emissions total that include the increased emissions from the source categories that comprise the MVEB's. The result of the rollback modeling produces future PM-2.5 design values in 2030 and 2038 of 29.1 and 29.7 µg/m^3, respectively.

3.5.2.1 Sectoral Allocation of Speciated Mass

Emissions from the motor vehicle sector contribute to various chemical species that comprise PM-2.5, including organic mass, fugitive dust, NOx (as a precursor to nitrates), SO_2 (as a precursor to sulfates), and elemental carbon. To establish a technically sound budget, the "Net Component Concentration" (ambient concentrations at Hidden Valley minus the 4.4 µg/m^3 regional background from Organ Pipe Cactus NM) was allocated between motor vehicle sources and all other sources based on their respective contributions to the emissions inventory.

For each PM-2.5 component, the Net Component Concentration (NCC) is divided between motor vehicles and all other sources in proportion to their shares of the 2023 emissions of that component's scaling surrogate. The motor vehicle portion is the NCC multiplied by the motor vehicle fraction of total surrogate emissions, and the other source portion is the NCC multiplied by the remaining fraction:

$$NCC_{i,mv} = NCC_i \times \frac{E_{mv}}{E_{total}}$$

$$NCC_{i,other} = NCC_i \times \frac{E_{other}}{E_{total}}$$

Where:

NCC_i = Net component concentration for the PM-2.5 component i (µg/m³)

$NCC_{i,mv}$ = portion of the net component concentration attributed to motor vehicles for the PM-2.5 component i (µg/m³)

NCC_{other} = portion of the net component concentration attributed to all other sources for the PM-2.5 component i (µg/m³)

E_{mv} = 2023 emissions of the scaling surrogate from motor vehicles (lbs/day)

E_{other} = 2023 emissions of the scaling surrogate from all other sources (lbs/day)

$$E_{total}\ 2023\ \text{total emissions} = E_{mv} + E_{other}$$

For organic mass, for example, motor vehicle combustion emissions are 36 lbs/day and combustion and animal feeding emissions from all other sources are 2,037 lbs/day, so the motor vehicle fraction is 36/2,073, or about 1.7 percent. Applying the two fractions to the 11.2 µg/m³ available for rolling gives 0.2 µg/m³ for motor vehicles and 11.0 µg/m³ for all other sources. Salt is held constant and is not divided between source categories. Table 3-27 displays the resulting NCC at the Hidden Valley monitor.

Table 3-27 Apportionment of Net Component Concentration (NCC) at Hidden Valley monitor.

PM-2.5 Component	Source Category	Scaling Surrogate	2023 Emissions (lbs/day)	Rolling NCC ($\mu g/m^3$)
Organic mass	Motor vehicle	Combustion	36	0.2
Organic mass	Other sources	Combustion and animal feeding	2,037	11.0
Soil and crustal dust	Motor vehicle	Fugitive dust	3,192	2.8
Soil and crustal dust	Other sources	Fugitive dust	4,017	3.5
Ammonium nitrate	Not apportioned	Held constant	n/a	2.7
Ammonium sulfate	Motor vehicle	SO_2	4	0.0
Ammonium sulfate	Other sources	SO_2	49	0.6
Elemental carbon	Motor vehicle	Combustion	36	0.0
Elemental carbon	Other sources	Combustion	1,279	0.7
Salt	Not apportioned	Held constant	n/a	0.8
Total	**n/a**	**n/a**	**n/a**	**22.3**

3.5.2.2 Interim 2030 MVEB Scaling and Maintenance Demonstration

To establish MVEB that provide reasonable transportation planning flexibility while remaining consistent with continued maintenance of the 24-hour PM-2.5 NAAQS, a conservative factor of 1.5 was applied to projected on-road motor vehicle emissions for both the 2030 interim year and the 2038 maintenance year. This factor represents a 50 percent increase above the base technical projections.

Table 3-28 shows the 2030 component-specific rollback calculation with the 1.5 motor vehicle factor applied. For each PM-2.5 component, the NCC is divided between motor vehicle emissions and all other sources using the applicable scaling surrogate. The motor vehicle portion is scaled with the emissions ratio reflecting the 1.5 factor, while the remaining portion is scaled using the corresponding non-motor-vehicle emissions ratio. Salt is not apportioned and is held constant.

Table 3-28 2030 component-specific PM-2.5 rollback and MVEB scaling.

PM-2.5 Component	Source Category	Scaling Surrogate	Rolling NCC (µg/m³)	2030 Emissions (lbs/day)	Scaled 2030 Emissions (lbs/day)	Scaling Ratio	2030 Projected NCC (µg/m³)
Organic mass	Motor vehicle	Combustion	0.2	32	48	1.34	0.3
Organic mass	Other sources	Combustion and animal operations	11.0	2,182	2,182	1.07	11.8
Soil and crustal dust	Motor vehicle	Fugitive dust	2.8	3,463	5,194	1.63	4.5
Soil and crustal dust	Other sources	Fugitive dust	3.5	3,554	3,554	0.88	3.1
Ammonium nitrate	Not apportioned	Held constant	2.7	n/a	n/a	1.00	2.7
Ammonium sulfate	Motor vehicle	SO_2	0.0	5	8	1.90	0.1
Ammonium sulfate	Other sources	SO_2	0.6	55	55	1.12	0.7
Elemental carbon	Motor vehicle	Combustion	0.0	32	48	1.34	0.0
Elemental carbon	Other sources	Combustion	0.7	1,477	1,477	1.15	0.8
Salt	Not apportioned	Held constant	0.8	n/a	n/a	1.00	0.8
Total	**n/a**	**n/a**	**22.3**	**n/a**	**n/a**	**n/a**	**24.7**

Note: Component values are rounded for presentation. Totals are computed from unrounded concentrations and may differ slightly from the sum of the rounded values shown.

Table 3-29 adds the Organ Pipe background concentration back to the net concentration for each component. With the 1.5 motor vehicle factor applied, the projected 2030 design value at Hidden Valley is 29.1 µg/m³, which remains below the 24-hour PM-2.5 NAAQS of 35 µg/m³. This demonstrates that the proposed 2030 MVEBs are consistent with continued maintenance of the standard.

Table 3-29 2030 interim year PM-2.5 maintenance demonstration at Hidden Valley with increased MVEB emissions.

PM-2.5 Component	Background Concentration at Organ Pipe ($\mu g/m^3$)	2030 Projected NCC Mass ($\mu g/m^3$)	2030 DV ($\mu g/m^3$)
Organic mass	1.1	12.1	13.1
Soil and crustal dust	1.8	7.6	9.4
Ammonium nitrate	0.3	2.7	2.9
Ammonium sulfate	1.0	0.8	1.7
Elemental carbon	0.1	0.8	0.9
Salt	0.2	0.8	1.1
Total	**4.4**	**24.7**	**29.1**

Note: Component values are rounded for presentation. Totals are computed from unrounded concentrations and may differ slightly from the sum of the rounded values shown.

3.5.2.3 2038 Maintenance MVEB Scaling and Maintenance Demonstration

The same MVEB methodology was applied to the 2038 maintenance year. As in the 2030 demonstration, a conservative factor of 1.5 was applied to projected on-road motor vehicle emissions to provide transportation planning flexibility while continuing to maintain the 24-hour PM-2.5 NAAQS. For each PM-2.5 component, the NCC is divided between motor vehicle emissions and all other sources using the applicable scaling surrogate. The motor vehicle portion is scaled with the emissions ratio reflecting the 1.5 factor, while the remaining portion is scaled using the corresponding non-motor-vehicle emissions ratio. Salt is not apportioned and is held constant. Table 3-30 shows the 2038 component-specific rollback calculation with the 1.5 motor vehicle factor applied.

Table 3-30 2038 speciated PM-2.5 rollback and MVEB scaling.

PM-2.5 Component	Source Category	Scaling Surrogate	Rolling NCC (µg/m³)	2038 Emissions (lbs/day)	Scaled 2038 Emissions (lbs/day)	Scaling Ratio	2038 Projected NCC (µg/m³)
Organic mass	Motor vehicle	Combustion	0.2	26	39	1.08	0.2
Organic mass	Other sources	Combustion and animal feeding	11.0	2,326	2,326	1.14	12.5
Soil and crustal dust	Motor vehicle	Fugitive dust	2.8	3,276	4,914	1.54	4.3
Soil and crustal dust	Other sources	Fugitive dust	3.5	3,518	3,518	0.88	3.0
Ammonium nitrate	Not apportioned	Help constant	2.7	n/a	n/a	1.0	2.7
Ammonium sulfate	Motor vehicle	SO_2	0.0	5	8	1.90	0.1
Ammonium sulfate	Other sources	SO_2	0.6	58	58	1.19	0.7
Elemental carbon	Motor vehicle	Combustion	0.0	26	39	1.08	0.0
Elemental carbon	Other sources	Combustion	0.7	1,620	1,620	1.27	0.9
Salt	Not apportioned	Held constant	0.8	n/a	n/a	1.00	0.8
Total	**n/a**	**n/a**	**22.3**	**n/a**	**n/a**	**n/a**	**25.3**

Note: Component values are rounded for presentation. Totals are computed from unrounded concentrations and may differ slightly from the sum of the rounded values shown.

Table 3-31 adds the Organ Pipe background concentration back to the projected NCC for each component. With the 1.5 motor vehicle factor applied, the projected 2038 design value at Hidden Valley is 29.7 µg/m³, which remains below the 24-hour PM-2.5 NAAQS of 35 µg/m³. This demonstrates that the proposed 2038 MVEBs are consistent with continued maintenance of the standard.

Table 3-31 2038 maintenance year PM-2.5 maintenance demonstration at Hidden Valley with increased MVEB emissions.

PM-2.5 Component	Background Concentration at Organ Pipe ($\mu g/m^3$)	2038 Projected NCC ($\mu g/m^3$)	2038 DV ($\mu g/m^3$)
Organic mass	1.1	12.8	13.9
Soil and crustal dust	1.8	7.3	9.1
Ammonium nitrate	0.3	2.7	2.9
Ammonium sulfate	1.0	0.8	1.8
Elemental carbon	0.1	0.9	1.0
Salt	0.2	0.8	1.1
Total	**4.4**	**25.3**	**29.7**

Note: Component values are rounded for presentation. Totals are computed from unrounded concentrations and may differ slightly from the sum of the rounded values shown.

3.6 Verification of Continued Attainment

EPA's guidance[50] suggests that air agencies indicate how they will track the progress of their maintenance plans over time to verify continued attainment. A primary method of tracking progress and verifying attainment is through periodic reviews of emission inventories.

Emission inventories for the West Central Pinal PM-2.5 Nonattainment Area are developed and reviewed through a collaborative effort between ADEQ, ADOT, MAG, PCAQCD, SCMPO, and other planning partners. As the lead air quality planning agency for the area, MAG commits to coordinating the review of emissions inventories for the area, including the assumptions and methodologies used to develop emission estimates. The three-year National Emissions Inventory (NEI) development cycle provides an opportunity to review and develop emissions within Pinal County and the nonattainment area. The next NEI cycle includes work to develop county-level emissions for 2026, with work beginning in 2027 and likely completion in 2028. Additionally, on an annual basis, the PCAQCD surveys permitted stationary sources within the nonattainment area for the development of permit-specific emission inventories.

As mentioned in Section 3.2.2, the PCAQCD is committed to the continued required operation of the Hidden Valley PM-2.5 monitor and the publication of the annual monitoring plan and report. MAG will continue to evaluate and investigate any future exceedances of the 2006 24-hour PM-2.5 NAAQS to determine possible causes and emission sources contributing to those exceedances, and to determine that the exceedances will not lead to a violation of the standard. Lastly, the responsibility to maintain and implement the provisions of any adopted Maintenance Plan is required by State law in Arizona Revised Statutes Section 49-404 and 49-406.

3.7 Contingency Plan

CAA Section 175A(d) requires maintenance plans to identify contingency provisions to offset any

[50] *Calcagni, John, Memorandum, Procedures for Processing Requests to Redesignate Areas to Attainment, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, September 4, 1992. Retrieved from: https://www.epa.gov/sites/default/files/2016-03/documents/calcagni_memo_-_procedures_for_processing_requests_to_redesignate_areas_to_attainment_090492.pdf*

unexpected increases in emissions and ensure maintenance of the standard. In this document, the contingency provisions as referred to as the contingency plan.

CAA Section 175A(d) states that:

> *"Each plan revision submitted under this section shall contain such contingency provisions as the Administrator deems necessary to assure that the State will promptly correct any violation of the standard which occurs after the redesignation of the area as an attainment area. Such provisions shall include a requirement that the State will implement all measures with respect to the control of the air pollutant concerned which were contained in the State implementation plan for the area before redesignation of the area as an attainment area. The failure of any area redesignated as an attainment area to maintain the national ambient air quality standard concerned shall not result in a requirement that the State revise its State implementation plan unless the Administrator, in the Administrator's discretion, requires the State to submit a revised State implementation plan."*[51]

EPA guidance explains the contingency plan must also ensure that the contingency measures are adopted expeditiously once triggered.[52] The primary elements of the contingency plan are:

1. Tracking and triggering mechanisms to determine when contingency measures are needed;
2. A description of the process for recommending and implementing the contingency measures; and
3. The list of potential contingency measures.

3.7.1 Tracking and Triggers for the Contingency Plan

The tracking consists of monitoring and analyzing ambient PM-2.5 concentrations. In accordance with 40 CFR 58, the PCAQCD will continue to operate and maintain an adequate PM-2.5 monitoring network in the nonattainment area. Permitted sources, where applicable, will be monitored for PM-2.5 and precursors through annual emissions inventories collected and reviewed by PCAQCD.

The contingency plan will be triggered when certified air quality monitoring data collected at the Hidden Valley monitoring station results in a violation of the 2006 PM-2.5 NAAQS (i.e., when the design value of the Hidden Valley monitor exceeds 35 µg/m^3). Daily exceedances of the 2006 PM-2.5 NAAQS will be evaluated on an annual basis to determine if a future design value violation is possible or probable. In order to prevent a future design value violation, daily exceedances that were caused by high-wind dust events as determined jointly by ADEQ, MAG, and PCAQCD, will be submitted to EPA Region 9 for exclusion as Exceptional Events under Clean Air Act Section

[51] *42 U.S. Code 7505a(d).*

[52] *Calcagni, John, Memorandum, Procedures for Processing Requests to Redesignate Areas to Attainment, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, September 4, 1992. Retrieved from: https://www.epa.gov/sites/default/files/2016-03/documents/calcagni_memo_-_procedures_for_processing_requests_to_redesignate_areas_to_attainment_090492.pdf*

319(b) and EPA Exceptional Event regulations. The contingency plan will not be triggered if concurrence on submitted exceptional events by EPA prevents a violation of a future design value violation. Should a future violation of the 2006 PM-2.5 NAAQS occur that cannot be prevented through the exclusion of exceptional events, Section 3.7.2 details the process by which the contingency plan shall be implemented.

3.7.2 Contingency plan implementation process

Upon verification of a future design value violation of the 2006 PM-2.5 NAAQS, PCAQCD (in coordination with ADEQ and MAG) shall commence analyses within 60 days to determine the causes of the non-exceptional event PM-2.5 exceedances that resulted in a violation of the design value. This review may involve an analysis of speciation data, emission source attribution, meteorological data, diurnal concentrations, and other appropriate and applicable analyses. If specific causes and emission sources of the exceedances can be determined, PCAQCD will use this information to evaluate potential actions to reduce exceedance level PM-2.5 concentrations. Once the analyses are complete, PCAQCD will consult with ADEQ, MAG, and SCMPO, and engage interested parties and stakeholders within the PM-2.5 maintenance area to identify measures and options (including voluntary and incentive-based measures) to expeditiously reduce concentrations and emissions of directly emitted PM-2.5 or precursors within 12 months. Within 24 months of the design value analysis, new voluntary or regulated measures will be promulgated as needed by the appropriate sponsoring agency. A sample timeline of the contingency plan process is provided in the Table 3-32.

Table 3-32 Example timeline for triggering event and contingency plan action.

Triggering Event	Contingency Plan Action
Design value violation confirmed as of May 1, 2028.	Analysis of violation by PCAQCD completed by June 30, 2028.
PCAQCD completes violation analysis	PCAQCD consults with Arizona agencies and engages interested parties and stakeholders on potential voluntary or regulatory measures by June 30, 2029.
New voluntary or regulatory measures identified	Promulgation of identified measures by June 30, 2030.

3.7.3 Potential Contingency Measures

Voluntary or regulatory measures chosen for promulgation and implementation will be based upon the analysis of the design value violation performed by PCAQCD, and the result of consultation with Arizona agencies and interested parties and stakeholders. While potential measures cannot be predetermined before a robust technical analysis of the exceedance data is complete, given that the history of exceedances in the maintenance area have often been linked to fugitive dust emissions, it is likely that future measures to be considered would include identifying new reductions of fugitive dust emission sources or strengthening existing fugitive dust emission rules within the maintenance area. Possible measures that would be a candidate for evaluation and strengthening include fugitive dust rules contained in PCAQCD Articles 1 and 3.

3.8 Subsequent Maintenance Plan Revisions

Section 175A(b) of the CAA requires that a maintenance plan be submitted to EPA eight years after the original redesignation request and maintenance plan has been approved. The purpose of the second maintenance plan is to demonstrate maintenance of the standard for the 2006 24-hour PM-2.5 standard for an additional ten years (2038-2048) following the first ten-year period (2028-2038). As the lead air quality planning agency for the area, MAG intends to submit a SIP revision eight years after redesignation to attainment to demonstrate maintenance of the NAAQS for an additional 10-year period.

4. Public Participation

4.1 Overview

The Transportation-Air Quality Guidelines53 for public participation are issued jointly by the EPA and the U.S. Department of Transportation. These guidelines are designed to encourage an effective public participation program for the development and implementation of the State Implementation Plan. According to the guidelines, the objectives of the public participation program should be to:

- Promote public awareness of the air pollution problem, the SIP revision process, and the effects of various transportation control measures.
- Encourage active participation from a variety of interest groups in the plan preparation process.
- Promote public understanding and agreement on the transportation control measures necessary to improve air quality.
- Provide for the identification of both interested and affected constituencies.
- Ensure that the agencies and elected officials are responsive to these constituencies.
- Encourage a spirit of openness and trust among elected officials, agencies, and the public.

In order to be responsive to these guidelines, MAG has established a formal public participation program. The program includes the MAG Air Quality Technical Advisory Committee, additional Air Quality Working Groups, as necessary, the MAG Management Committee, and the MAG Regional Council.

4.2 Decision Making Structure

MAG has been designated as the lead planning agency for air quality planning within the Maricopa and Pinal County areas. MAG member agencies include 28 cities and towns within Maricopa County and portions of Pinal County, Maricopa County, Pinal County, the Gila River Indian Community, the Salt River Pima-Maricopa Indian Community, Fort McDowell Yavapai Nation, and the Arizona Department of Transportation. A representative from the Regional Public Transportation Authority is also included on the MAG Management Committee. Two Maricopa County State Transportation Board members representing the Arizona Department of Transportation are also on the Regional Council. The policy development process is influenced by input from the MAG member agencies, MAG committees, local citizens, and staff.

The decision-making body for MAG is the Regional Council, which is composed of elected officials from the member agencies. The MAG Management Committee, which is composed of managers from the member agencies, makes recommendations to the Regional Council (see Figure 4-1).

[53] *1992, U.S. EPA Office of Mobile Sources, Transportation and Air Quality Planning Guidelines, Retrieved from https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockey=2000WSCY.txt*

The MAG Air Quality Technical Advisory Committee was established by the MAG Regional Council in 1995. The purpose of the Committee is to review and comment on technical information generated during the planning process and make technical recommendations to the MAG Management Committee.

The MAG Air Quality Technical Advisory Committee (AQTAC) met and discussed the Draft MAG 2026 Redesignation Request and Maintenance Plan for the West Central Pinal PM-2.5 Nonattainment Area during its development on the following dates: 3/27/2026, 5/28/2026, 8/27/2026, 9/24/2026, and 10/22/2026.

[Include MAG Management Committee details here once they have occurred.]

[Include MAG Regional Council details here once they have occurred.]

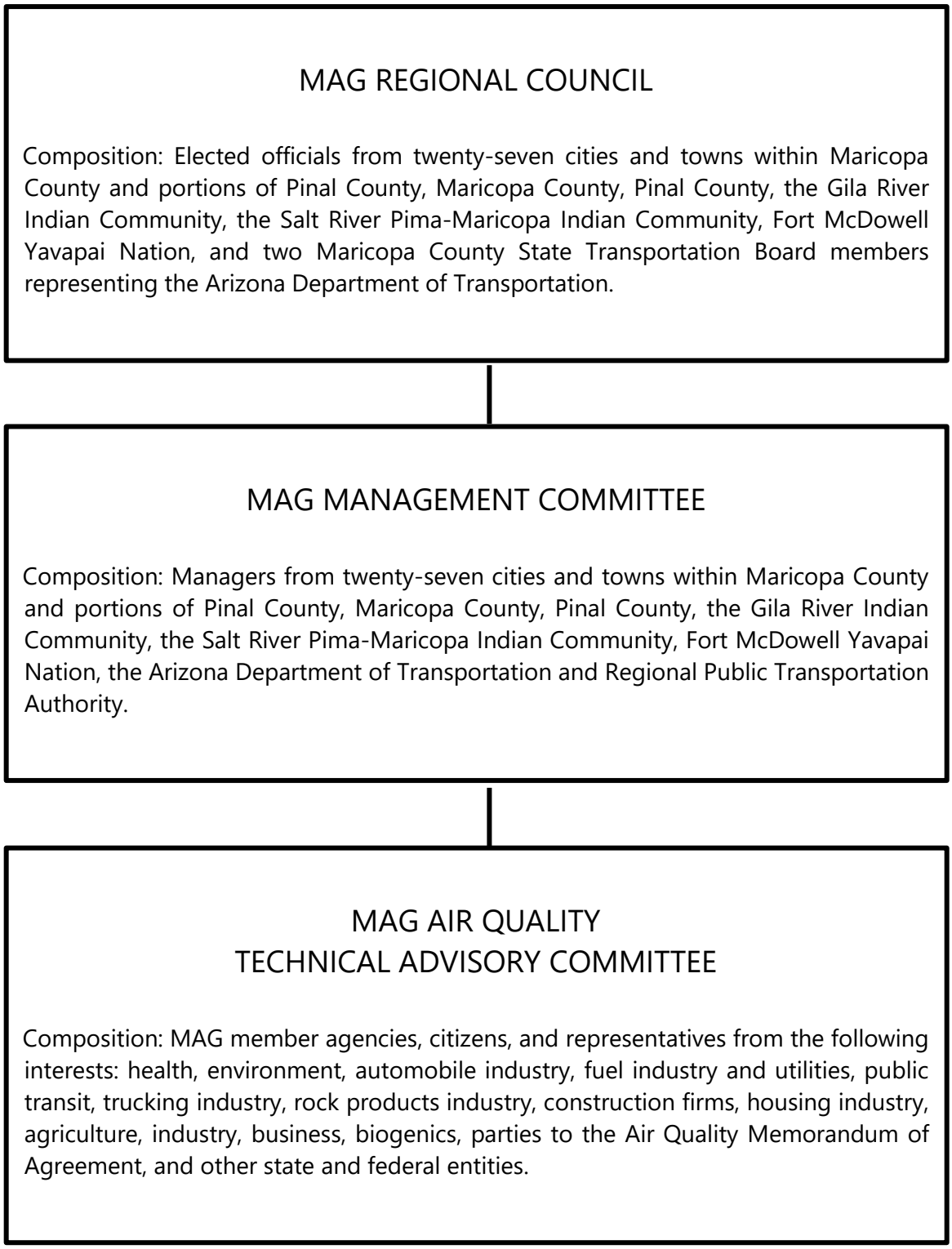


Figure 4-1 MAG decision making structure.

4.3 Public Participation in the Preparation of the MAG 2026 Redesignation Request and Maintenance Plan for the West Central Pinal Nonattainment Area

The process used to develop this Draft MAG 2026 Redesignation Request and Maintenance Plan for the West Central Pinal PM-2.5 Nonattainment Area included numerous meetings of the MAG Air Quality Technical Advisory Committee. All of the meetings were open to public attendance. During the preparation of the Draft MAG 2026 Redesignation Request and Maintenance Plan for the West Central Pinal PM-2.5 Nonattainment Area, an opportunity to comment on and/or request a public hearing on the Draft MAG 2026 Redesignation Request and Maintenance Plan for the West Central Pinal PM-2.5 Nonattainment Area will be provided. See Appendix C – Documentation of Public Review Process for details.

4.3.1 Meetings of the MAG Air Quality Technical Advisory Committee

A brief description of the Air Quality Technical Advisory Committee meetings agenda items relevant in preparing the plan is provided below.

On 3/27/2026, a meeting of the MAG Air Quality Technical Advisory Committee was conducted to provide an overview of current design value trends, requirements for a redesignation request and maintenance plan and tentative timeline for plan updates and completion.

On 5/28/2026, a meeting of the MAG Air Quality Technical Advisory Committee was conducted to discuss the following special operation period (October 2024-September 2025) air quality monitoring analyses of PM-2.5 concentration data at Hidden Valley including speciated measurements collected for a comparative analysis of Hidden Valley data with background data from the Organ Pipe air quality monitor.

On 8/27/2026, a meeting of the MAG Air Quality Technical Advisory Committee was conducted to discuss and provide a summary of the 2023 Comprehensive Emissions Inventory for the West Central Pinal PM-2.5 NAA.

On 9/24/2026, a meeting of the MAG Air Quality Technical Advisory Committee was conducted to discuss and provide a summary of the Maintenance Demonstration and Rollback Analysis to support the maintenance plan for the West Central Pinal PM-2.5 NAA.

On 10/22/2026, an overview of the completed portions of the Draft MAG 2026 Redesignation Request and Maintenance Plan for the West Central Pinal PM-2.5 Nonattainment Area and tentative timeline for completion.

4.3.2 Public Involvement Process for Transportation and Air Quality

Federal transportation legislation emphasizes public involvement in the metropolitan transportation planning process. The latest transportation authorization was signed into law on December 4, 2015. This enabling legislation, Fixing America's Surface Transportation Act (FAST Act) continues to emphasize public involvement in the metropolitan transportation planning process. Current legislation requires that the metropolitan planning organization work

cooperatively with the state department of transportation and the regional transit operator to provide citizens, affected public agencies, representatives of transportation agency employees, freight shippers, private providers of transportation, representatives of users of public transit, and other interested parties a reasonable opportunity to comment on proposed transportation plans and programs. MAG will continue to adhere to the federal requirements for public involvement, in addition to finding new ways of engaging Valley residents in the transportation planning and programming process.

The MAG Public Participation Plan (August 2023) indicates that MAG adheres to the many federal requirements for public involvement in transportation planning, which focus on timely public notice, full public access to key decisions, and opportunities for early and continuing involvement in the planning processes. The MAG guiding principles for public participation are:

- Include a diverse blend of voices in the decision-making process.
- Engage people early and often in meaningful conversations about the policies and plans that affect the near-term and long-term future of the MAG region.
- Be clear and transparent in all communications with members of the community.
- Listen and act by building relationships with members of the community and stakeholders by listening to their ideas and perspectives and incorporating them into the regional plans and projects.
- Report back to people who offer their time and feedback to MAG's planning efforts, and explain how their comments helped shape the final plans.

In accordance with 40 CFR §93.105, consultation is conducted on the draft air quality plans with the state air and transportation agencies, local air quality and transportation agencies, EPA, Federal Transit Administration, and Federal Highway Administration. Public hearings are conducted on draft air quality plans in accordance with state and federal requirements.

4.3.3 Title VI Considerations

Title VI of the Civil Rights Act of 1964 prohibits discrimination on the basis of race, color and national origin by recipients and subrecipients of federal funds and prohibits exclusion from participation in, denial of benefits, or being subjected to discrimination under any program or activity receiving federal financial assistance. Additional protections are provided in other federal and state authorities for income status, religion, sex, disability, sexual orientation, gender, and age. (See MAG's full Title VI Notice to the Public)

MAG is responsible for incorporating Title VI requirements in its planning and programming processes. For more than 50 years, MAG has fully integrated the voices of vulnerable populations into regional planning activities. The MAG is the metropolitan planning organization and council of governments for the region, comprising 28 cities and towns, Maricopa County, portions of Pinal County, the Gila River Indian Community, the Salt River Pima Maricopa Indian Community, Fort McDowell Yavapai Nation, and the Arizona Department of Transportation. A representative from the Regional Public Transportation Authority is a member of the MAG Management Committee.

Two Maricopa County State Transportation Board members representing the Arizona Department of Transportation are members of the MAG Regional Council. MAG receives funds from a variety of sources, including direct federal, indirect federal, and state and local government funds.

The MAG FY 2027 Title VI Program Document was approved by the MAG Regional Council on June 24, 2026. The document outlines the roles, method of administration, and analysis that supports nondiscrimination in MAGs regional planning.

The MAG FY 2027 Title VI Program Document describes how data are collected, reported and analyzed for major program areas within the agency. For the environmental area, the document indicates that a robust Title VI Outreach List is used to inform communities of concern and agencies representing the communities when the public is being engaged on environmental issues. This includes but is not limited to, the opportunity to provide comments or request public hearings when new plans are being developed. The Environmental Division sends letters to the Title VI stakeholders and other interested parties to solicit input from these targeted and often underserved entities to meet federal requirements. A copy of the public hearing notice published in the newspaper also is provided. A response to comments is prepared for any comments received and then included in the appendix of the plan. The comments and responses are reviewed by the committee before a recommendation is made and are part of the approved plan.

Attendees of public hearings are also invited to complete surveys. The ZIP codes of residence for survey respondents are mapped for analysis and reporting purposes. The results of this analysis are included in the MAG Title VI Program for approval by the MAG Regional Council. The results of the analysis are also used to determine when additional outreach efforts are needed to ensure effective levels of participation and representation by communities of concern.

In addition to public hearings, the Environmental Division may engage the public through other activities, including MAG committee meetings, open houses, community meetings, and presentations to local committees. The Environmental Division Title VI liaison works with the MAG Communication Division staff to develop appropriate outreach plans as needed.

The MAG Title VI Program is implemented through the Title VI Coordinator. The coordinator is responsible for reviewing and updating the program in collaboration with the division liaisons. The liaisons in each of the MAG divisions are the main point of contact for both the public and Coordinator on Title VI issues.

4.3.4 Information Dissemination

MAG employs a strategy of expanded information dissemination and public access to plans and decisions. Copies of studies and reports are placed in public libraries in the region as standard procedure.

MAG committee meetings are conducted in accordance with the Open Meeting Law, and therefore provide citizens public opportunities to comment before meetings of MAG technical and policy committees. Alternative formats, accessible meeting locations and accessible meeting

times are encouraged for MAG meeting planning.

MAG houses numerous records of data, statistics and information. Data collection, analysis and portrayal methods and products are evaluated periodically. Program area managers assess MAG's available data sources for relevance to Title VI requirements not less often than annually.

MAG maintains a home page on the Internet (https://azmag.gov/) which provides the public with access to information on the role and history of the agency and its programs, as well as the agendas and minutes of Committee meetings. The web page serves as an excellent portal for disseminating information about MAG events, programs and plans.

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MAG 2026 REDESIGNATION REQUEST AND MAINTENANCE PLAN FOR THE WEST CENTRAL PINAL PM-2.5 NONATTAINMENT AREA

APPENDIX A
TECHNICAL SUPPORT DOCUMENT FOR THE DEVELOPMENT OF AN EMISSIONS INVENTORY FOR THE MAG 2026 REDESIGNATION REQUEST AND MAINTENANCE PLAN FOR THE WEST CENTRAL PINAL PM-2.5 NONATTAINMENT AREA

OCTOBER 2026

MARICOPA ASSOCIATION of GOVERNMENTS

DRAFT

TECHNICAL SUPPORT DOCUMENT FOR THE DEVELOPMENT OF AN EMISSIONS INVENTORY FOR THE MAG 2026 REDESIGNATION REQUEST AND MAINTENANCE PLAN FOR THE WEST CENTRAL PINAL PM-2.5 NONATTAINMENT AREA

PREPARED BY:



OCTOBER 2026

Technical Assistance Provided by:

Arizona Department of Environmental Quality
Arizona Department of Transportation
Pinal County Air Quality Control District
Sun Corridor Metropolitan Planning Organization
U.S. Environmental Protection Agency

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I. Introduction and Emissions Summary

The Technical Support Document (TSD) for the Development of an Emissions Inventory for the MAG 2026 Redesignation Request and Maintenance Plan for the West Central Pinal PM-2.5 Nonattainment Area provides the technical basis and description of (1) the attainment year (2023) PM-2.5 and precursor emissions inventory and (2) the projected interim (2030) and maintenance year (2038) PM-2.5 and precursor emissions inventory.

A comprehensive inventory for PM-2.5 planning requires evaluation of both directly emitted fine particulate matter and precursor pollutants that can contribute to secondary particulate formation. This PM-2.5 emissions inventory therefore includes direct PM-2.5 as well as ammonia (NH_3), nitrogen oxides (NOX), volatile organic compounds (VOC), and sulfur dioxide (SO2). These pollutants are summarized for the major source categories that contribute to the emissions profile in the West Central Pinal PM-2.5 nonattainment area (herein referred to as the PM-2.5 NAA), including permitted stationary sources, nonpoint sources, nonroad mobile sources, onroad mobile sources, and biogenic sources. A map of the PM-2.5 NAA is included in Figure I-1 below.

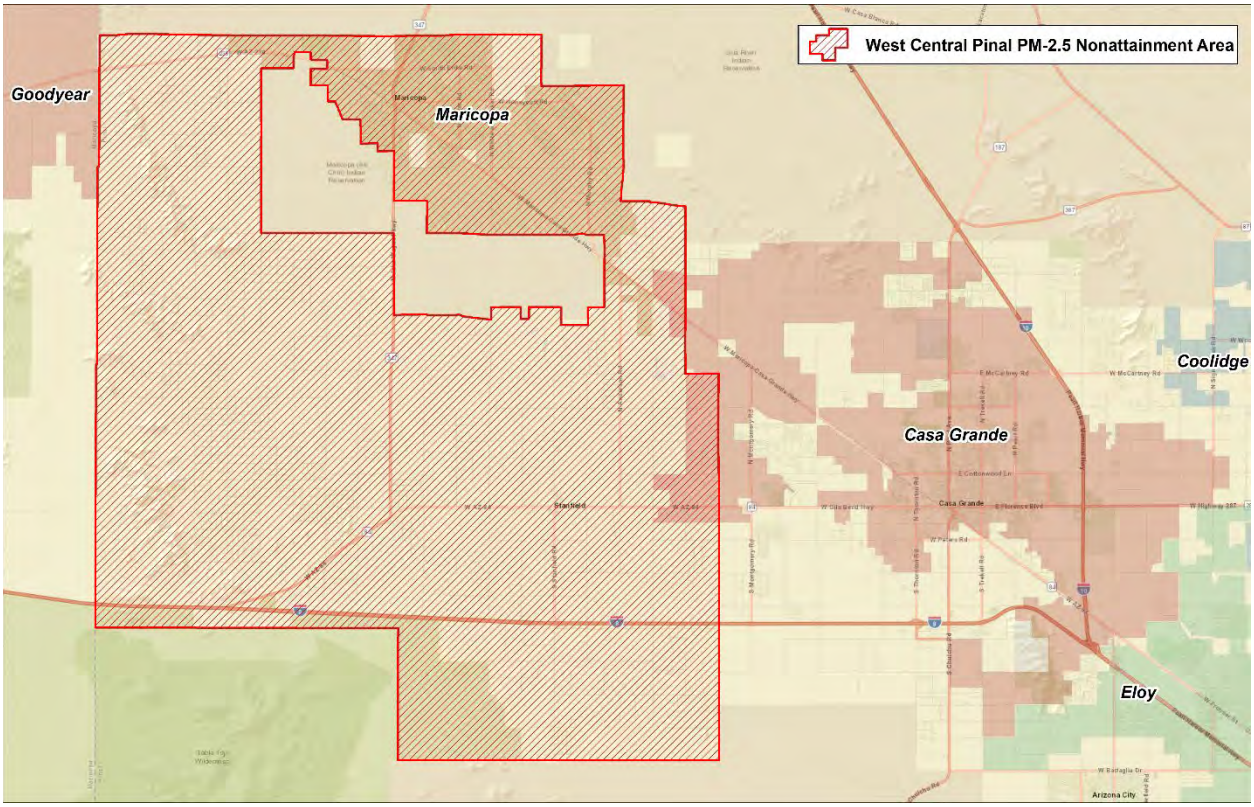


Figure I-1 The West Central Pinal PM-2.5 Nonattainment Area

For permitted stationary sources and nonpoint sources, the TSD emission estimates have been developed based upon local activity data or allocated county-level emissions data from the Environmental Protection Agency (EPA) 2023 National Emissions Inventory (NEI). For mobile source categories, the TSD relies on current emissions modeling tools and locally relevant transportation, fleet, fuel, and activity data. For biogenic emissions, the TSD includes separate estimates of naturally occurring VOC and soil NO_X emissions generated by the biogenic emission model.

Chapter II presents the 2023 attainment year emissions inventory. This chapter establishes the baseline technical record for annual and average daily emissions in the PM-2.5 NAA and describes the data sources, assumptions, emissions models, spatial allocation methods, and control assumptions used to develop the 2023 inventory.

Chapter III presents the interim year and maintenance year emissions inventories for 2030 and 2038. This chapter extends the attainment year methodology to future years using projected activity data where available and consistent assumptions where source-specific projections are not available. The future year inventories are used to evaluate whether emissions are expected to remain at levels consistent with continued maintenance of the PM-2.5 standards.

Collectively, these chapters provide a transparent and reproducible technical basis for the emissions inventories included in the MAG 2026 Redesignation Request and Maintenance Plan. The TSD documents not only the resulting emissions estimates, but also the data sources, calculation procedures, allocation methods, control assumptions, and PM-2.5-specific adjustments used to develop those estimates. This structure allows each major component of the inventory to be traced from source activity data through final annual and average daily emissions totals. It also provides a consistent framework for comparing the attainment year, interim year, and maintenance year inventories and for evaluating their role in supporting the maintenance demonstration. Please note that individual values in the tables throughout this document may not sum to the total due to rounding.

A. Socioeconomic and Land Use Data

Socioeconomic and land use data within Pinal County and the PM-2.5 NAA are critical inputs to the development of PM-2.5 and precursor emissions for many emission categories. When only county-level emission estimates are available, emissions are spatially allocated to the PM-2.5 NAA using socioeconomic and/or land use ratios. Table I-1 through Table I-3 include socioeconomic and land use data developed by MAG within Pinal County and the PM-2.5 NAA for the 2023 attainment year, 2030 interim year, and 2038 maintenance year (note land use data is available for years 2024, 2030, and 2038).

Table I-1 2023, 2030, and 2038 Socioeconomic data by population type in Pinal County and the PM-2.5 NAA

Population Type	2023 Pinal County	2023 PM-2.5 NAA	2030 Pinal County	2030 PM-2.5 NAA	2038 Pinal County	2038 PM-2.5 NAA
Residential	470,484	75,227	587,821	101,256	738,734	118,638
Transient	11,323	596	13,153	779	15,864	873
Seasonal	33,364	4,218	42,108	5,362	53,354	6,719
Total	**515,171**	**80,041**	**643,082**	**107,397**	**807,952**	**126,230**

Table I-2 2023, 2030, and 2038 Socioeconomic data by employment type in Pinal County and the PM-2.5 NAA

Employment Type	2023 Pinal County	2023 PM-2.5 NAA	2030 Pinal County	2030 PM-2.5 NAA	2038 Pinal County	2038 PM-2.5 NAA
Retail	21,229	2,406	24,425	3,062	30,244	3,957
Office	6,352	571	8,341	616	10,134	1,584
Industrial	14,608	602	27,181	745	35,778	2,475
Public	12,790	1,794	15,926	2,437	19,779	2,973
Other	11,422	775	13,720	847	16,374	1,041
Construction	1,720	304	1,562	212	1,630	135
Work at Home	8,583	1,746	10,883	2,267	14,103	2,965
Non-Site Based	5,568	846	7,122	1,099	9,402	1,472
Total	**82,272**	**9,044**	**109,160**	**11,285**	**137,444**	**16,602**

Table I-3 2024, 2030, and 2038 Land use data in Pinal County and the PM-2.5 NAA in acres

Land Use Type	2024 Pinal County	2024 PM-2.5 NAA	2030 Pinal County	2030 PM-2.5 NAA	2038 Pinal County	2038 PM-2.5 NAA
Residential	102,789	17,975	114,068	19,814	135,608	21,689
Commercial	4,303	849	5,064	1,096	6,016	1,252
Industrial	4,420	318	5,088	402	5,733	511
Office	196	15	242	38	309	71
Tourist and Visitor Accommodations	343	2	367	2	384	2
Educational	3,763	339	4,014	396	4,525	509
Institutional	1,570	60	1,570	60	1,570	60
Public Facilities, Military, Special Events	10,818	1,341	10,848	1,341	10,873	1,341
Landfill, Other Employment	33,401	3,188	33,401	3,188	33,401	3,188
Transportation and Parking	11,463	1,629	11,463	1,629	11,462	1,629
Railroad	4,487	407	4,487	407	4,487	407
Airports	3,288	369	3,288	369	3,288	369
General/Active Open Space	8,272	613	8,247	613	8,241	613
Golf Course	4,795	544	4,795	544	4,795	544
Passive/Restricted Open Space/Wash	1,307,282	40,108	1,307,109	39,972	1,307,015	39,951
Agriculture	317,510	76,079	313,247	74,837	302,941	73,243
Abandoned Agriculture	8,284	1,105	8,119	1,083	7,723	1,051
Dairy or Feedlot	4,928	3,125	4,913	3,118	4,848	3,095
Vacant	1,592,142	56,804	1,586,198	56,307	1,574,318	55,821
Developing Residential	6,604	1,443	4,348	1,113	3,629	998
Developing Non-residential	551	104	419	89	366	74
Total	**3,439,831**	**206,418**	**3,439,831**	**206,418**	**3,439,831**	**206,418**

B. PM-2.5 and Precursor Emissions Summary

Table I-4 and Table I-5 include a summary of 2023 annual and daily PM-2.5 and precursor emissions in the PM-2.5 NAA by source category; Similar data is included in Table I-6 through Table I-9 for the 2030 interim year and 2038 maintenance year. A high-level summary comparison of 2023, 2030, and 2038 annual and daily PM-2.5 emissions is included in Table I-10 through Table I-14.

Table I-4 2023 Attainment year annual PM-2.5 and precursor emissions in the PM-2.5 NAA (tons/year)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Permitted Sources	7.04	-	56.81	10.71	4.62
Harvesting and Tilling*	66.86	-	-	-	-
CAFOs*	100.65	-	-	-	-
Dairies*	37.44	-	-	-	-
Construction*	11.83	-	-	-	-
Gas Stations*	-	-	-	27.60	-
Commercial Cooking*	7.63	-	-	0.57	-
Fuel Combustion*	61.24	7.38	30.18	100.92	1.51
Solvent Use*	-	-	-	563.39	-
Miscellaneous Non-Industrial Processes*	6.13	16.18	0.57	3.75	0.29
Other Agricultural/Livestock*	0.22	4,052.06	-	324.19	-
Agricultural Fertilizer*	-	519.20	-	-	-
Agricultural Silage*	-	-	-	674.67	-
Petroleum Storage*	-	-	-	13.42	-
Waste Disposal*	-	0.74	-	5.25	-
Wildfires	8.83	1.02	1.23	13.58	0.51
Open Burning *	40.71	-	-	24.43	-
Unpaved Parking*	29.19	-	-	-	-
Windblown Dust*	71.94	-	-	-	-
Nonroad Mobile Sources**	12.82	0.36	130.47	73.65	0.12
Airport**	0.36	-	0.50	5.37	0.58
Locomotive**	2.29	0.06	90.77	3.75	0.07
Onroad Mobile Sources***	6.50	14.09	215.48	205.36	0.75
Paved Road***	30.11	-	-	-	-
Unpaved Road - Agricultural Roads***	250.23	-	-	-	-
Unpaved Road - Public Roads***	219.44	-	-	-	-
Unpaved Road - Private Roads***	333.02	-	-	-	-
Unpaved Road - Trails***	11.20	-	-	-	-
Unpaved Road - Test Tracks***	26.42	-	-	-	-
Biogenic Sources	-	-	308.58	7,055.40	-
Total	**1,342.10**	**4,611.09**	**834.59**	**9,106.01**	**8.45**

Note: * Nonpoint Source; **Onroad Mobile Source; ***Nonroad Mobile Source.

Table I-5 2023 Attainment year daily PM-2.5 and precursor emissions in the PM-2.5 NAA (lbs/day)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Permitted Sources	38.6	-	311.2	58.7	25.3
Harvesting and Tilling*	1,064.1	-	-	-	-
CAFOs*	551.5	-	-	-	-
Dairies*	205.1	-	-	-	-
Construction*	64.8	-	-	-	-
Gas Stations*	-	-	-	151.2	-
Commercial Cooking*	41.8	-	-	3.1	-
Fuel Combustion*	633.0	76.4	297.7	1,044.9	15.0
Solvent Use*	-	-	-	3,087.2	-
Miscellaneous Non-Industrial Processes*	33.6	88.7	3.1	20.5	1.6
Other Agricultural/Livestock*	1.2	22,203.0	-	1,776.2	-
Agricultural Fertilizer*	-	2,844.9	-	-	-
Agricultural Silage*	-	-	-	3696.8	-
Petroleum Storage*	-	-	-	73.5	-
Waste Disposal*	-	4.1	-	28.8	-
Wildfires	48.4	5.6	6.7	74.4	2.8
Open Burning *	385.9	-	-	231.5	-
Unpaved Parking*	159.9	-	-	-	-
Windblown Dust*	394.2	-	-	-	-
Nonroad Mobile Sources**	83.3	2.3	837.0	494.9	0.7
Airport**	2.0	-	2.7	29.4	3.2
Locomotive**	12.5	0.3	497.4	20.6	0.4
Onroad Mobile Sources***	35.9	77.5	1,181.0	1,125.3	4.1
Paved Road***	165.0	-	-	-	-
Unpaved Road - Agricultural Roads***	1,371.1	-	-	-	-
Unpaved Road - Public Roads***	1,202.4	-	-	-	-
Unpaved Road - Private Roads***	1,824.8	-	-	-	-
Unpaved Road - Trails***	61.4	-	-	-	-
Unpaved Road - Test Tracks***	144.4	-	-	-	-
Biogenic Sources	-	-	1,684.1	38,436.8	-
Total	**8,524.9**	**25,302.8**	**4,820.9**	**50,353.8**	**53.1**

Note: * Nonpoint Source; **Onroad Mobile Source; ***Nonroad Mobile Source.

Table I-6 2030 Interim year annual PM-2.5 and precursor emissions in the PM-2.5 NAA (tons/year)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Permitted Sources	7.04	-	56.81	10.71	4.62
Harvesting and Tilling*	59.47	-	-	-	-
CAFOs*	92.72	-	-	-	-
Dairies*	35.82	-	-	-	-
Construction*	15.45	-	-	-	-
Gas Stations*	-	-	-	34.45	-
Commercial Cooking*	10.24	-	-	0.76	-
Fuel Combustion*	82.13	9.90	40.23	135.40	2.01
Solvent Use*	-	-	-	753.56	-
Miscellaneous Non-Industrial Processes*	7.69	21.69	0.61	4.41	0.30
Other Agricultural/Livestock*	0.22	4,054.93	-	324.39	-
Agricultural Fertilizer*	-	510.73	-	-	-
Agricultural Silage*	-	-	-	675.20	-
Petroleum Storage*	-	-	-	13.99	-
Waste Disposal*	-	1.00	-	7.05	-
Wildfires	8.83	1.02	1.23	13.58	0.51
Open Burning *	39.85	-	-	23.91	-
Unpaved Parking*	18.09	-	-	-	-
Windblown Dust*	71.94	-	-	-	-
Nonroad Mobile Sources**	7.61	0.38	82.52	69.82	0.13
Airport**	0.41	-	0.57	6.10	0.66
Locomotive**	2.29	0.06	90.77	3.75	0.07
Onroad Mobile Sources***	5.87	16.69	141.86	189.87	0.95
Paved Road***	44.92	-	-	-	-
Unpaved Road - Agricultural Roads***	209.19	-	-	-	-
Unpaved Road - Public Roads***	248.64	-	-	-	-
Unpaved Road - Private Roads***	333.02	-	-	-	-
Unpaved Road - Trails***	11.20	-	-	-	-
Unpaved Road - Test Tracks***	26.42	-	-	-	-
Biogenic Sources	-	-	308.58	7,055.40	-
Total	**1,339.06**	**4,616.40**	**723.18**	**9,322.35**	**9.25**

Note: * Nonpoint Source; **Onroad Mobile Source; ***Nonroad Mobile Source.

Table I-7 2030 Interim year daily PM-2.5 and precursor emissions in the PM-2.5 NAA (lbs/day)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Permitted Sources	38.6	-	311.2	58.7	25.3
Harvesting and Tilling*	949.5	-	-	-	-
CAFOs*	508.1	-	-	-	-
Dairies*	196.3	-	-	-	-
Construction*	84.6	-	-	-	-
Gas Stations*	-	-	-	188.8	-
Commercial Cooking*	56.1	-	-	4.2	-
Fuel Combustion*	849.1	102.4	397.6	1,402.0	20.3
Solvent Use*	-	-	-	4,129.1	-
Miscellaneous Non-Industrial Processes*	42.1	118.9	3.3	24.2	1.7
Other Agricultural/Livestock*	1.2	22,218.9	-	1,777.5	-
Agricultural Fertilizer*	-	2,798.5	-	-	-
Agricultural Silage*	-	-	-	3699.7	-
Petroleum Storage*	-	-	-	76.7	-
Waste Disposal*	-	5.5	-	38.6	-
Wildfires	48.4	5.6	6.7	74.4	2.8
Open Burning *	377.7	-	-	226.6	-
Unpaved Parking*	99.1	-	-	-	-
Windblown Dust*	394.2	-	-		-
Nonroad Mobile Sources**	50.0	2.4	530.2	470.1	0.7
Airport**	2.2	-	3.1	33.4	3.6
Locomotive**	12.5	0.3	497.4	20.6	0.4
Onroad Mobile Sources***	32.0	91.4	777.4	1,040.4	5.2
Paved Road***	246.2	-	-	-	-
Unpaved Road - Agricultural Roads***	1,146.2	-	-	-	-
Unpaved Road - Public Roads***	1,362.4	-	-	-	-
Unpaved Road - Private Roads***	1,824.8	-	-	-	-
Unpaved Road - Trails***	61.4	-	-	-	-
Unpaved Road - Test Tracks***	144.4	-	-	-	-
Biogenic Sources	-	-	1,684.1	38,436.8	-
Total	**8,527.1**	**25,343.9**	**4,211.0**	**51,701.8**	**60.0**

Note: * Nonpoint Source; **Onroad Mobile Source; ***Nonroad Mobile Source.

Table I-8 2038 Maintenance year annual PM-2.5 and precursor emissions in the PM-2.5 NAA (tons/year)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Permitted Sources	7.04	-	56.81	10.71	4.62
Harvesting and Tilling*	58.20	-	-	-	-
CAFOs*	92.72	-	-	-	-
Dairies*	35.82	-	-	-	-
Construction*	14.91	-	-	-	-
Gas Stations*	-	-	-	43.29	-
Commercial Cooking*	12.04	-	-	0.90	-
Fuel Combustion*	96.56	11.64	47.45	159.16	2.38
Solvent Use*	-	-	-	894.17	-
Miscellaneous Non-Industrial Processes*	8.79	25.50	0.63	4.95	0.31
Other Agricultural/Livestock*	0.22	4,078.40	-	326.27	-
Agricultural Fertilizer*	-	491.68	-	-	-
Agricultural Silage*	-	-	-	679.04	-
Petroleum Storage*	-	-	-	14.39	-
Waste Disposal*	-	1.17	-	8.28	-
Wildfires	8.83	1.02	1.23	13.58	0.51
Open Burning *	39.02	-	-	23.41	-
Unpaved Parking*	17.80	-	-	-	-
Windblown Dust*	71.94	-	-	-	-
Nonroad Mobile Sources**	5.47	0.36	65.35	66.68	0.13
Airport**	0.41	-	0.57	6.10	0.66
Locomotive**	2.29	0.06	90.77	3.75	0.07
Onroad Mobile Sources***	4.76	18.08	90.53	129.74	0.97
Paved Road***	55.28	-	-	-	-
Unpaved Road - Agricultural Roads***	204.71	-	-	-	-
Unpaved Road - Public Roads***	206.47	-	-	-	-
Unpaved Road - Private Roads***	333.02	-	-	-	-
Unpaved Road - Trails***	11.20	-	-	-	-
Unpaved Road - Test Tracks***	26.42	-	-	-	-
Biogenic Sources	-	-	308.58	7,055.40	-
Total	**1,313.92**	**4,627.91**	**661.92**	**9,439.82**	**9.65**

Note: * Nonpoint Source; **Onroad Mobile Source; ***Nonroad Mobile Source.

Table I-9 2038 Maintenance year daily PM-2.5 and precursor emissions in the PM-2.5 NAA (lbs/day)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Permitted Sources	38.6	-	311.2	58.7	25.3
Harvesting and Tilling*	929.3	-	-	-	-
CAFOs*	508.1	-	-	-	-
Dairies*	196.3	-	-	-	-
Construction*	81.7	-	-	-	-
Gas Stations*	-	-	-	237.2	-
Commercial Cooking*	65.9	-	-	4.8	-
Fuel Combustion*	998.3	120.5	468.8	1,647.9	23.8
Solvent Use*	-	-	-	4,899.6	-
Miscellaneous Non-Industrial Processes*	48.2	139.7	3.5	27.1	1.7
Other Agricultural/Livestock*	1.2	22,347.3	-	1,787.8	-
Agricultural Fertilizer*	-	2,694.2	-	-	-
Agricultural Silage*	-	-	-	3720.7	-
Petroleum Storage*	-	-	-	78.9	-
Waste Disposal*	-	6.4	-	45.4	-
Wildfires	48.4	5.6	6.7	74.4	2.8
Open Burning *	369.9	-	-	221.9	-
Unpaved Parking*	97.5	-	-	-	-
Windblown Dust*	394.2	-	-	-	-
Nonroad Mobile Sources**	36.0	2.7	418.1	448.8	0.8
Airport**	2.2	-	3.1	33.4	3.6
Locomotive**	12.5	0.3	497.4	20.6	0.4
Onroad Mobile Sources***	25.8	98.9	496.3	711.2	5.2
Paved Road***	302.9	-	-	-	-
Unpaved Road - Agricultural Roads***	1,121.7	-	-	-	-
Unpaved Road - Public Roads***	1,131.3	-	-	-	-
Unpaved Road - Private Roads***	1,824.8	-	-	-	-
Unpaved Road - Trails***	61.4	-	-	-	-
Unpaved Road - Test Tracks***	144.4	-	-	-	-
Biogenic Sources	-	-	1,684.1	38,436.8	-
Total	**8,440.6**	**25,415.6**	**3,889.2**	**52,455.2**	**63.6**

Note: * Nonpoint Source; **Onroad Mobile Source; ***Nonroad Mobile Source.

Table I-10 High-level comparison of 2023, 2030, and 2038 annual and daily PM-2.5 emissions

Source Category	2023 Annual PM-2.5 Emissions (tons/year)	2030 Annual PM-2.5 Emissions (tons/year)	2038 Annual PM-2.5 Emissions (tons/year)	2023 Daily PM-2.5 Emissions (lbs/day)	2030 Daily PM-2.5 Emissions (lbs/day)	2038 Daily PM-2.5 Emissions (lbs/day)
Permitted Sources	7.04	7.04	7.04	38.6	38.6	38.6
Nonpoint	442.67	442.45	456.85	3583.5	3606.4	3739.0
Nonroad Mobile	15.47	10.31	8.17	97.8	64.7	50.7
Onroad Mobile	876.92	879.26	841.86	4805.0	4817.4	4612.3
Biogenic	-					
Total	**1342.10**	**1339.06**	**1313.92**	**8524.9**	**8527.1**	**8440.6**

Table I-11 High-level comparison of 2023, 2030, and 2038 annual and daily NH3 emissions

Source Category	2023 Annual NH_3 Emissions (tons/year)	2030 Annual NH_3 Emissions (tons/year)	2038 Annual NH_3 Emissions (tons/year)	2023 Daily NH_3 Emissions (lbs/day)	2030 Daily NH_3 Emissions (lbs/day)	2038 Daily NH_3 Emissions (lbs/day)
Permitted Sources	-	-	-	-	-	-
Nonpoint	4,596.58	4,599.27	4,609.41	25,222.7	25,249.8	25,313.7
Nonroad Mobile	0.42	0.44	0.42	2.6	2.7	3.0
Onroad Mobile	14.09	16.69	18.08	77.5	91.4	98.9
Biogenic	-	-	-	-	-	-
Total	**4,611.09**	**4,616.40**	**4,627.91**	**25,302.8**	**25,343.9**	**25415.6**

Table I-12 High-level comparison of 2023, 2030, and 2038 annual and daily NOX emissions

Source Category	2023 Annual NO_X Emissions (tons/year)	2030 Annual NO_X Emissions (tons/year)	2038 Annual NO_X Emissions (tons/year)	2023 Daily NO_X Emissions (lbs/day)	2030 Daily NO_X Emissions (lbs/day)	2038 Daily NO_X Emissions (lbs/day)
Permitted Sources	56.81	56.81	56.81	311.2	311.2	311.2
Nonpoint	31.98	42.07	49.31	307.5	407.6	479.0
Nonroad Mobile	221.74	173.86	156.69	1,337.1	1,030.7	918.6
Onroad Mobile	215.48	141.86	90.53	1,181.0	777.4	496.3
Biogenic	308.58	308.58	308.58	1,684.1	1,684.1	1,684.1
Total	**834.59**	**723.18**	**661.92**	**4,820.9**	**4,211.0**	**3,889.2**

Table I-13 High-level comparison of 2023, 2030, and 2038 annual and daily VOC emissions

Source Category	2023 Annual VOC Emissions (tons/year)	2030 Annual VOC Emissions (tons/year)	2038 Annual VOC Emissions (tons/year)	2023 Daily VOC Emissions (lbs/day)	2030 Daily VOC Emissions (lbs/day)	2038 Daily VOC Emissions (lbs/day)
Permitted Sources	10.71	10.71	10.71	58.7	58.7	58.7
Nonpoint	1,751.77	1,986.70	2,167.44	10,188.1	11,641.8	12,745.7
Nonroad Mobile	82.77	79.67	76.53	544.9	524.1	502.8
Onroad Mobile	205.36	189.87	129.74	1,125.3	1,040.4	711.2
Biogenic	7,055.40	7,055.40	7,055.40	38,436.8	38,436.8	38,436.8
Total	**9,106.01**	**9,322.35**	**9,439.82**	**50,353.8**	**51,701.8**	**52,455.2**

Table I-14 High-level comparison of 2023, 2030, and 2038 annual and daily SO_2 emissions

Source Category	2023 Annual SO_2 Emissions (tons/year)	2030 Annual SO_2 Emissions (tons/year)	2038 Annual SO_2 Emissions (tons/year)	2023 Daily SO_2 Emissions (lbs/day)	2030 Daily SO_2 Emissions (lbs/day)	2038 Daily SO_2 Emissions (lbs/day)
Permitted Sources	4.62	4.62	4.62	25.3	25.3	25.3
Nonpoint	2.31	2.82	3.20	19.4	24.8	28.3
Nonroad Mobile	0.77	0.86	0.86	4.3	4.7	4.8
Onroad Mobile	0.75	0.95	0.97	4.1	5.2	5.2
Biogenic	-	-	-	-	-	-
Total	**8.45**	**9.25**	**9.65**	**53.1**	**60.0**	**63.6**

C. Condensable and Filterable Portions of PM-2.5 Emissions

The final fine particulate matter implementation rule[1] requires a comprehensive emissions inventory for PM-2.5 to identify the condensable and filterable portions of primary PM-2.5 emissions "as applicable". As described in the EPA Emissions Inventory Guidance,[2] condensable PM is the material that is in vapor phase as a result of combustion, while filterable PM consists of those particles directly emitted by a source as a solid or liquid at the stack[3] (or similar release conditions) and captured on a filter medium. This guidance also clarifies the meaning of the phrase "as applicable" by providing a list of source types for which the identification of condensable and filterable portions is expected. These source types are stationary point and nonpoint combustion sources that are expected to generate condensable PM and include sources such as commercial cooking, fuel combustion at electric generating utilities, industrial processes like cement or chemical manufacturing, and flares or incinerators associated with waste disposal. Mobile sources are not required to identify condensable and filterable portions according to the guidance.

1. Conversion Factors for Condensable and Filterable Portions of PM2.5 Emissions

In order to determine the condensable and filterable portions of applicable primary PM-2.5 emissions sources, emission source category-specific conversion factors for separating condensable and filterable portions from total primary emissions were identified. For all applicable emission source categories, conversion factors as identified and referenced in the 2021 South Coast Air Basin Redesignation Request and Maintenance Plan[4] and the 2018 Imperial County PM-2.5 State Implementation plan were used.

For the Fuel Combustion and Permitted Source categories, the conversion factor for natural gas combustion was used as the combustion processes in these categories are overwhelmingly the result of natural gas combustion. The conversion factor for diesel combustion was used for the Miscellaneous Non-Industrial Processes category as diesel combustion is the dominant combustion process. The conversion factor for charbroiling was used for Commercial Cooking. These conversion factors were applied to the primary PM-2.5 emissions to first estimate the condensable portion, and then the filterable portion was calculated by subtracting the condensable portion from the total PM-2.5 primary emissions. For applicable PM-2.5 emission source categories that are not the result of a combustion process or commercial cooking, all of the primary PM-2.5 emissions are assumed to be filterable with no condensable portions. Condensable and filterable portions of primary PM-2.5 emissions were estimated for all applicable emissions source categories for the attainment year (2023), interim year (2030), and maintenance year (2038) as shown in the following tables.

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1 Fine Particulate Matter National Ambient Air Quality Standards: State Implementation Plan Requirements, 81 Fed. Reg. 58010, August 24, 2016.

2 2017 EPA Emissions Inventory Guidance for Implementation of Ozone and Particulate Matter National Ambient Air Quality Standards (NAAQS) and Regional Haze Regulations, retrieved on July 29, 2026 from: https://www.epa.gov/sites/default/files/2017-07/documents/ei_guidance_may_2017_final_rev.pdf

3 40 CFR 51

4 ibid

Table I-15 2023 Categories emitting condensable and filterable portions of primary PM-2.5 emissions (tons per year)

Source Category *	Total PM-2.5 to PM -2.5 Condensable Conversion Factor	Total PM-2.5 (tons/year)	Condensable PM-2.5 (tons/year)	Filterable PM-2.5 (tons/year)
Permitted Major Sources**	0.4505	2.23	0.81	1.42
Permitted Minor Sources	0.4505	4.82	2.17	2.65
Harvesting and Tilling	-	66.86	-	66.86
CAFOs	-	100.65	-	100.65
Dairies	-	37.44	-	37.44
Construction	-	11.83	-	11.83
Commercial Cooking	0.9968	7.63	7.61	0.02
Fuel Combustion	0.4505	61.24	27.59	33.65
Miscellaneous Non-Industrial Processes	0.0227	6.13	0.14	5.99
Other Agricultural/Livestock	-	0.22	-	0.22
Wildfires	-	8.83	-	8.83
Open Burning	-	40.71	-	40.71
Unpaved Parking	-	29.19	-	29.19
Windblown Dust	-	71.94	-	71.94
Nonroad Mobile Sources***	-	12.82	NA	NA
Airport***	-	0.36	NA	NA
Locomotive***	-	2.29	NA	NA
Onroad Mobile Sources***	-	6.50	NA	NA
Paved Road	-	30.11	-	30.11
Unpaved Road - Agricultural Roads	-	250.23	-	250.23
Unpaved Road - Public Roads	-	219.44	-	219.44
Unpaved Road - Private Roads	-	333.02	-	333.02
Unpaved Road - Trails	-	11.20	-	11.20
Unpaved Road - Test Tracks	-	26.42	-	26.42
Total	**-**	**1342.10**	**38.31**	**1303.80**

Notes:

* Source categories with no PM-2.5 emissions are not included in this table.

** Sierra Estrella Landfill, Inc is assumed to be all filterable PM-2.5 emissions.

*** Mobile source PM-2.5 emissions are not required to report condensable and filterable portions.

Table I-16 2030 Categories emitting condensable and filterable portions of primary PM-2.5 emissions (tons per year)

Source Category *	Total PM-2.5 to PM -2.5 Condensable Conversion Factor	Total PM-2.5 (tons/year)	Condensable PM-2.5 (tons/year)	Filterable PM-2.5 (tons/year)
Permitted Major Sources**	0.4505	2.23	0.81	1.42
Permitted Minor Sources	0.4505	4.82	2.17	2.65
Harvesting and Tilling	-	59.47	-	59.47
CAFOs	-	92.72	-	92.72
Dairies	-	35.82	-	35.82
Construction	-	15.45	-	15.45
Commercial Cooking	0.9968	10.24	10.21	0.03
Fuel Combustion	0.4505	82.13	37.00	45.13
Miscellaneous Non-Industrial Processes	0.0227	7.69	0.17	7.52
Other Agricultural/Livestock	-	0.22	-	0.22
Wildfires	-	8.83	-	8.83
Open Burning	-	39.85	-	39.85
Unpaved Parking	-	18.09	-	18.09
Windblown Dust	-	71.94	-	71.94
Nonroad Mobile Sources***	-	7.61	NA	NA
Airport***	-	0.41	NA	NA
Locomotive***	-	2.29	NA	NA
Onroad Mobile Sources***	-	5.87	NA	NA
Paved Road	-	44.92	-	44.92
Unpaved Road - Agricultural Roads	-	209.19	-	209.19
Unpaved Road - Public Roads	-	248.64	-	248.64
Unpaved Road - Private Roads	-	333.02	-	333.02
Unpaved Road - Trails	-	11.20	-	11.20
Unpaved Road - Test Tracks	-	26.42	-	26.42
Total	**-**	**1339.06**	**50.36**	**1288.71**

Notes:

* Source categories with no PM-2.5 emissions are not included in this table.

** Sierra Estrella Landfill, Inc is assumed to be all filterable PM-2.5 emissions.

*** Mobile source PM-2.5 emissions are not required to report condensable and filterable portions.

Table I-17 2038 Categories emitting condensable and filterable potions of primary PM-2.5 emissions (tons per year).

Source Category *	Total PM-2.5 to PM -2.5 Condensable Conversion Factor	Total PM-2.5 (tons/year)	Condensable PM-2.5 (tons/year)	Filterable PM-2.5 (tons/year)
Permitted Major Sources**	0.4505	2.23	0.81	1.42
Permitted Minor Sources	0.4505	4.82	2.17	2.65
Harvesting and Tilling	-	58.20	-	58.20
CAFOs	-	92.72	-	92.72
Dairies	-	35.82	-	35.82
Construction	-	14.91	-	14.91
Commercial Cooking	0.9968	12.04	12.00	0.04
Fuel Combustion	0.4505	96.56	43.50	53.06
Miscellaneous Non-Industrial Processes	0.0227	8.79	0.20	8.59
Other Agricultural/Livestock	-	0.22	-	0.22
Wildfires	-	8.83	-	8.83
Open Burning	-	39.02	-	39.02
Unpaved Parking	-	17.80	-	17.80
Windblown Dust	-	71.94	-	71.94
Nonroad Mobile Sources***	-	5.47	NA	NA
Airport***	-	0.41	NA	NA
Locomotive***	-	2.29	NA	NA
Onroad Mobile Sources***	-	4.76	NA	NA
Paved Road	-	55.28	-	55.28
Unpaved Road - Agricultural Roads	-	204.71	-	204.71
Unpaved Road - Public Roads	-	206.47	-	206.47
Unpaved Road - Private Roads	-	333.02	-	333.02
Unpaved Road - Trails	-	11.20	-	11.20
Unpaved Road - Test Tracks	-	26.42	-	26.42
Total	**-**	**1313.92**	**58.68**	**1255.25**

Notes:

* Source categories with no PM-2.5 emissions are not included in this table.

** Sierra Estrella Landfill, Inc is assumed to be all filterable PM-2.5 emissions.

*** Mobile source PM-2.5 emissions are not required to report condensable and filterable portions.

II. 2023 Attainment Year PM-2.5 and Precursor Emissions

This chapter describes the 2023 attainment year PM-2.5 and precursor emissions inventory for the PM-2.5 NAA. The attainment year inventory serves as the foundation for the maintenance plan because it represents emissions during the period used to characterize attainment conditions and provides the reference point for evaluating future emissions in the interim and maintenance years. The inventory includes annual emissions, expressed in tons per year, and daily emissions, expressed in pounds per day, for direct PM-2.5 and the precursor pollutants NH_3, NO_X, VOC, and SO_2.

The 2023 inventory is organized by the following source categories: permitted stationary sources, nonpoint sources, nonroad mobile sources, onroad mobile sources, and biogenic sources. Permitted stationary sources include major and minor new source review facilities that have received an operating permit from the Pinal County Air Quality Control District (PCAQCD) and are located within the PM-2.5 NAA. Nonpoint sources include activity categories that are too numerous, dispersed, or small to be treated as individual point sources, such as agricultural activities, fertilizer application, construction, open burning, fuel combustion, commercial cooking, miscellaneous non-industrial processes, wildfires, unpaved parking, and windblown dust. Nonroad mobile sources include equipment and vehicles that are not certified as highway vehicles, as well as emissions from airport operations and locomotives. The onroad mobile sources include exhaust, brake wear, tire wear, and re-entrained dust from travel on paved and unpaved roadways. Biogenic sources are included to account for naturally occurring VOC and soil NO_X emissions that may contribute to secondary PM-2.5 formation.

This chapter provides the methodological bridge between raw activity data and final emissions values by explaining the data sources, assumptions, control effectiveness estimates, spatial allocation procedures, temporal allocation procedures, and conversion factors used for each major source category. The resulting 2023 inventory establishes a consistent and transparent technical basis for the future-year inventories discussed in Chapter III and for the overall maintenance demonstration.

A. Permitted Stationary Sources

Permitted stationary sources are traditional stationary facilities that emit significant quantities of air pollutants under an air quality permit issued by the Pinal County Air Quality Control District (PCAQCD). For this emissions inventory, permitted stationary sources within the PM-2.5 NAA are classified as either Major or Minor sources based upon their permit status under the nonattainment new source review permit program operated by the PCAQCD. These may include stationary sources such as landfills, petroleum storage and transfer facilities, and other large industrial operations.

2023 Annual PM-2.5 and precursor emissions in tons per year for each permitted point source in

the PM-2.5 NAA were provided by PCAQCD. Daily PM-2.5 emissions were calculated by dividing annual emissions by 365 days and converting tons to pounds. Ammonia (NH_3) emissions for all permitted stationary sources are not inventoried by PCAQCD as ammonia was determined to be an insignificant precursor under the new source review program for Pinal County (86 FR 31927).

1. Major Sources

The major source category includes stationary facilities that emit, or have the potential to emit, annual emissions greater than location-specific and pollutant-specific major source thresholds. These sources have been issued Title V permits by PCAQCD that have been reviewed and approved by EPA. Annual and daily emissions from the three major sources located within the PM-2.5 NAA are listed in Table II-1 and Table II-2.

Table II-1 2023 Annual PM-2.5 and precursor emissions from all major sources in the PM-2.5 NAA (tons/year)

Permit #	Facility	PM-2.5	NH_3	NO_X	VOC	SO_2
V20714.000	El Paso Natural Gas Co, LLC	0.94	-	6.97	1.10	0.48
V20696.000	Sierra Estrella Landfill, Inc	0.44	-	0.00	5.32	0.00
V20702.R01	WOF SW GGP 1 LLC	0.85	-	10.63	0.06	2.57
N/A	**Total**	**2.23**	**-**	**17.60**	**6.48**	**3.05**

Table II-2 2023 Daily PM-2.5 and precursor emissions from all major sources in the PM-2.5 NAA (lbs/day)

Permit #	Facility	PM-2.5	NH_3	NO_X	VOC	SO_2
V20714.000	El Paso Natural Gas Co, LLC	5.2	-	38.2	6.0	2.6
V20696.000	Sierra Estrella Landfill, Inc	2.4	-	0.0	29.1	0.0
V20702.R01	WOF SW GGP 1 LLC	4.7	-	58.2	0.3	14.1
N/A	**Total**	**12.2**	**-**	**96.4**	**35.5**	**16.7**

2. Minor Sources

The minor source category includes emissions from all other non-major operating permits issued by PCAQCD. Emissions from permitted gas stations are tabulated separately and included as a combined source in Chapter II.B Nonpoint Sources. Table II-3 and Table II-4 list each individual minor source facility and associated annual and daily PM-2.5 and precursor emissions.

Table II-3 2023 Annual PM-2.5 and precursor emissions from all minor sources in the PM-2.5 NAA (tons/year)

Permit #	Facility	PM-2.5	NH_3	NO_X	VOC	SO_2
B31357.000	Arizona Grain Maricopa Facility	1.92	-	1.27	0.07	0.01
B31489.000	Arizona Proving Grounds	1.48	-	20.90	2.18	1.38
S12761.000	Arizona Soaring	0.00	-	0.00	0.25	0.00
B31443.000	Arizona Test Center	0.09	-	1.25	0.48	0.08
B31451.000	City Of Maricopa	0.04	-	0.00	0.00	0.00
B31440.000	G Farms Quality Feeds	0.02	-	0.52	0.00	0.00
B31398.000	L.P. Steel Industries	0.00	-	0.00	0.54	0.00
S16162.000	Maricopa Central Office	0.01	-	0.15	0.00	0.01
B31391.R01	Milky Way RNG Facility	0.80	-	5.90	0.20	0.00
S16183.000	Neely East Well	0.00	-	0.05	0.00	0.00
S16155.000	Neely North Well	0.00	-	0.03	0.00	0.00
C31512.000	Pinal Energy	0.00	-	0.12	0.00	0.00
B31493.000	Pinal Feeding	0.33	-	6.08	0.01	0.03
S15053.000	Pinal Gin	0.01	-	0.11	0.01	0.00
S16193.000	PVUC Campus 1 WRF	0.05	-	1.59	0.05	0.03
S16156.000	Rancho El Dorado Water Dist Center	0.01	-	0.25	0.01	0.00
S16157.000	Rancho Mirage WDC	0.01	-	0.24	0.01	0.00
S16177.000	Rancho Mirage Well #2	0.00	-	0.04	0.00	0.00
B31456.000	Sacate Pellet Mills	0.03	-	0.35	0.01	0.01
B31447.000	SH Engineering & Mfg	0.00	-	0.00	0.38	0.00
S16221.000	Shamrock Farms	0.01	-	0.21	0.01	0.00
S13267.000	Sharp's Welding & Mechanical Works	0.00	-	0.00	0.02	0.00
S16179.000	Terrazo Water Distribution Center	0.00	-	0.07	0.00	0.00
B31458.000	Walmart Store #4430	0.01	-	0.06	0.00	0.00
N/A	**Total**	**4.81**	**-**	**39.21**	**4.23**	**1.57**

Table II-4 2023 Daily PM-2.5 and precursor emissions from all minor sources in the PM-2.5 NAA (lbs/day)

Permit #	Facility	PM-2.5	NH_3	NO_X	VOC	SO_2
B31357.000	Arizona Grain Maricopa Facility	10.5	-	7.0	0.4	0.0
B31489.000	Arizona Proving Grounds	8.1	-	114.5	12.0	7.6
S12761.000	Arizona Soaring	0.0	-	0.0	1.4	0.0
B31443.000	Arizona Test Center	0.5	-	6.8	2.6	0.5
B31451.000	City Of Maricopa	0.2	-	0.0	0.0	0.0
B31440.000	G Farms Quality Feeds	0.1	-	2.9	0.0	0.0
B31398.000	L.P. Steel Industries	0.0	-	0.0	3.0	0.0
S16162.000	Maricopa Central Office	0.1	-	0.8	0.0	0.1
B31391.R01	Milky Way RNG Facility	4.4	-	32.3	1.1	0.0
S16183.000	Neely East Well	0.0	-	0.3	0.0	0.0
S16155.000	Neely North Well	0.0	-	0.2	0.0	0.0
C31512.000	Pinal Energy	0.0	-	0.7	0.0	0.0
B31493.000	Pinal Feeding	1.8	-	33.3	0.0	0.1
S15053.000	Pinal Gin	0.0	-	0.6	0.0	0.0
S16193.000	PVUC Campus 1 WRF	0.3	-	8.7	0.3	0.2
S16156.000	Rancho El Dorado Water Dist Center	0.0	-	1.4	0.0	0.0
S16157.000	Rancho Mirage WDC	0.0	-	1.3	0.0	0.0
S16177.000	Rancho Mirage Well #2	0.0	-	0.2	0.0	0.0
B31456.000	Sacate Pellet Mills	0.2	-	1.9	0.1	0.1
B31447.000	SH Engineering & Mfg	0.0	-	0.0	2.1	0.0
S16221.000	Shamrock Farms	0.0	-	1.2	0.0	0.0
S13267.000	Sharp's Welding & Mechanical Works	0.0	-	0.0	0.1	0.0
S16179.000	Terrazo Water Distribution Center	0.0	-	0.4	0.0	0.0
B31458.000	Walmart Store #4430	0.0	-	0.3	0.0	0.0
N/A	**Total**	**26.4**	**-**	**214.8**	**23.2**	**8.6**

B. Nonpoint Sources

Nonpoint, or area sources, are sources which are generally too small or too numerous to be treated as individual point sources. The 2023 attainment year emissions from nonpoint sources are summarized by specific source classification categories. Emissions from nonpoint sources are estimated based on local activity data or allocated county-level 2023 EPA National Emissions Inventory (NEI) data when local data is unavailable. Nonpoint source categories using county-level 2023 NEI emissions data are allocated to the PM-2.5 NAA using spatial (land use) and socioeconomic data surrogates developed by MAG as discussed in Chapter I.A.

1. Agricultural Sources

Nonpoint agricultural sources include PM-2.5 emissions from (1) the harvesting and tilling of cropland and (2) concentrated animal feeding operations (CAFOs) and dairies. PM-2.5 emissions from unpaved agricultural roads are included under the unpaved road section for onroad mobile sources. Precursor emissions from livestock waste emissions, silage, and fertilizer are included in Chapter II.D.4 National Emissions Inventory Source Categories.

2023 attainment year PM-2.5 emissions from nonpoint agricultural sources have generally been calculated and adapted based on methodologies developed for the 2023 Five Percent Particulate Plan for PM-10 for the West Pinal County Nonattainment Area (MAG, 2023). Since most of the agricultural sources are the result of fugitive dust sources, the PM-10 fugitive dust control measures assumptions included in the 2023 Five Percent Plan have also been assumed to be equally effective at controlling fugitive dust PM-2.5 emissions. Details on the calculation methods and assumptions for each agricultural source category are included below.

Harvesting and Tilling

Agricultural harvesting and tilling operations are a source of fugitive particulate matter emissions within the PM-2.5 NAA. These activities generate dust through soil disturbance and mechanical handling of crops, contributing to ambient particulate matter concentrations.

Direct emission factors for PM-2.5 from agricultural harvesting and tilling operations are limited and not consistently available across crop types and activities. In addition, control efficiencies for fugitive dust mitigation measures are typically developed on a PM-10 basis.

As a result, a PM-10-based framework is used to ensure consistency in the application of emission factors, control efficiencies, and activity data. Under this approach, emissions are first estimated as PM-10 and then converted to PM-2.5 using a representative ratio:

$$PM_{2.5} = PM_{10} \times \left(\frac{PM_{2.5}}{PM_{10}}\right)_{ref}$$

A reference (PM-2.5/PM-10) ratio of 0.15, as recommended by the Western Regional Air Partnership (WRAP) Fugitive Dust Handbook (Countess Environmental, 2006), is used to estimate PM-2.5 emissions from harvesting and tilling by applying the ratio to PM-10 emissions. The resulting PM-2.5 emissions for the 2023 attainment year are summarized in Table II-5.

Table II-5 2023 Annual and daily controlled PM-2.5 emissions from harvesting and tilling in the PM-2.5 NAA

Source Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Harvesting	4.97	130.3
Tilling	61.90	933.8
Total	**66.86**	**1,064.1**

Crop classification data were sourced from the 2023 Cropland Data Layer (CDL) produced by the USDA National Agricultural Statistics Service (NASS) (USDA, 2024a). The CDL dataset was clipped to the PM-2.5 NAA boundary to characterize crop distribution within the study area as shown in Figure II-1. The map displays land cover classifications from the CDL dataset, which are used to estimate crop distribution proportions within the study area and to support subsequent PM-2.5 emission calculations. Agricultural areas in the clipped CDL dataset were aggregated into six crop categories: Alfalfa, Corn, Cotton, Grain, Hay, and Vegetables. For each category, the corresponding area was calculated and converted to percentage shares of the total agricultural area in the study domain (Table II-6).

Separately, total agricultural acreage for the PM-2.5 NAA was obtained using the best available land use data provided by MAG. For the 2023 attainment year, the total agricultural acreage is 76,079 acres. To account for non-cultivated land, a fallow field percentage of 25.0%, obtained from the 2023 Five Percent Plan, was applied to derive the active agricultural acreage (57,059 acres). The 2023 CDL-derived crop distribution percentages were then applied to the active agricultural acreage to estimate crop-specific acreage.

Table II-6 2023 Estimated crop-specific acreage in the PM-2.5 NAA based on CDL-derived crop distribution and MAG land use data

Crop Category	Crop Distribution	2023 Acreage (acres)
Alfalfa	43.5%	24,806
Corn	25.5%	14,538
Cotton	7.9%	4,501
Grain	14.4%	8,208
Hay	2.4%	1,376
Vegetables	6.4%	3,630
Total	**100%**	**57,059**

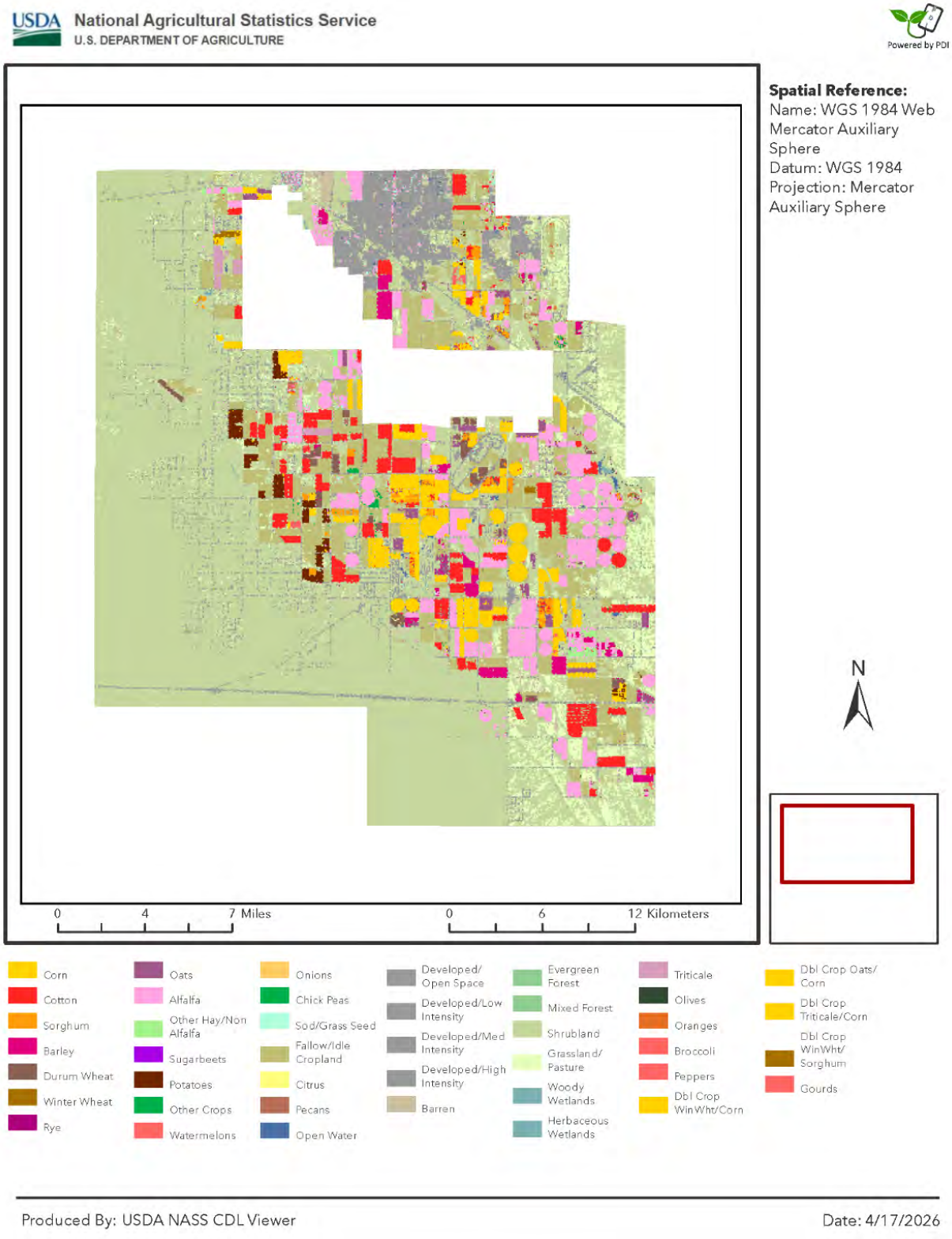


Figure II-1 Spatial distribution of 2023 USDA NASS CDL within the PM-2.5 NAA

Harvesting

PM-10 emissions from harvesting are estimated and then used to derive PM-2.5 emissions for this analysis. Uncontrolled annual PM-10 emissions associated with harvesting operations within the PM-2.5 NAA are estimated using the following equation, which uses crop-specific emission factors (CARB, 2017):

$$Harvest_{crop} = EF_{\text{crop}} \times A_{\text{crop}} \times \left(\frac{1\ ton}{2{,}000\ lbs}\right)$$

where: $Harvest_{crop}$ = annual PM-10 emissions from harvesting for each crop type (tons/year),

EF_{crop} = crop-specific harvesting emission factor (lbs/acre), and

A_{crop} = harvested acreage for each crop type (acres).

Uncontrolled daily PM-10 emissions are calculated by dividing annual emissions by the number of days during which harvesting is expected to occur. The corresponding PM-2.5 emissions are derived by applying the reference (PM-2.5/PM-10) ratio to the calculated PM-10 emissions. Crop-specific harvesting PM-10 emission factors, harvesting operations data, and uncontrolled PM-2.5 annual and daily emissions for the 2023 attainment year are summarized in Table II-7.

Table II-7 2023 Harvesting PM-10 emission factors, operations data, and uncontrolled PM-2.5 emissions derived from harvesting operations in the PM-2.5 NAA

Crop Category	PM-10 Emission Factor[a] (lbs/acre)	Harvesting Operations[b] (days/year)	Uncontrolled Annual PM-2.5 Emissions (tons/year)	Uncontrolled Daily PM-2.5 Emissions (lbs/day)
Alfalfa	0.0	294	0.00	0.0
Corn	1.7	91	1.85	40.7
Cotton	3.4	143	1.15	16.1
Grain	5.8	60	3.57	119.0
Hay	1.7	294	0.18	1.2
Vegetables	0.2	116	0.05	0.8
Total	**N/A**	**N/A**	**6.79**	**177.8**

a. Source: California Air Resources Board (2017). "Supporting Documentation for Miscellaneous Process Methodology 7.5: Agricultural Harvesting Operations." California Air Resources Board.

b. Source: ADEQ, 2015. "Appendix B: Pinal County PM-10 Nonattainment Area Emissions Inventories for 2008 and 2018 Base Years and Design Days." Arizona Department of Environmental Quality. (Prepared by Sierra Research, 2014.)

The methodology used to estimate controlled PM-10 emissions from agricultural harvesting operations is based on the approach included in the 2023 Five Percent Plan (MAG, 2023). Control effectiveness is calculated as the product of control efficiency, rule effectiveness, and rule penetration. In this analysis, the control assumptions for calendar year 2023 in the 2023 Five Percent Plan are applied for rule effectiveness (RE) and rule penetration (RP) to provide representative estimates for the 2023 attainment year.

For harvesting operations, the 2023 Five Percent Plan assumed a rule effectiveness percentage of 60% and a rule penetration of 99.78% for harvesting controls in 2023 to reflect the implementation of the two mandated Best Management Practices (BMPs). The 60% RE and 99.78% RP values are applied to crop-specific harvesting control efficiencies to produce crop-specific control effectiveness values.

The crop-specific control effectiveness for harvesting operations is shown in Table II-8. Table II-8 also includes controlled harvesting PM-2.5 emissions calculated by applying control effectiveness values to uncontrolled harvesting emissions in the PM-2.5 NAA.

Table II-8 2023 Control effectiveness percentages and controlled PM-2.5 emissions from harvesting operations in the PM-2.5 NAA

Crop Category	Annual Harvesting Control Effectiveness (%)	Controlled Annual PM-2.5 Emissions (tons/year)	Controlled Daily PM-2.5 Emissions (lbs/day)
Alfalfa	13.9	0.00	0.0
Corn	31.5	1.27	27.9
Cotton	25.4	0.86	12.0
Grain	25.4	2.66	88.8
Hay	23.5	0.13	0.9
Vegetables	8.4	0.04	0.7
Total	**N/A**	**4.97**	**130.3**

Tilling

Uncontrolled PM-10 emissions from tilling are estimated using an emission factor developed in a Technical Support Document for Arizona's Agricultural Best Management Practices Program (ERG, 2001). The calculated PM-10 emissions serve as the basis for estimating PM-2.5 emissions for this analysis.

$$EF_{tillage} = k(4.8)s^{0.6}$$

where: $EF_{tillage}$ = agricultural tillage emission factor (lbs/acre-pass),
k = particle size multiplier (0.15 for PM-10),
s = percent silt content of soil (12.1 for Pinal County, corresponding to 12.1%)[5].

[5] Calculated from "Summary of Silt and Moisture Analyses of Soil Samples from Pinal County, Arizona, Collected on May 8th,

This emission factor of 3.21 lbs/acre-pass is used to estimate uncontrolled annual crop-specific PM-10 emissions from agricultural tillage using the following equation:

$$Tillage_{crop} = EF_{tillage} \times AP_{crop} \times A_{crop} \times \left(\frac{1\ ton}{2{,}000\ lbs}\right)$$

where: $Tillage_{crop}$ = annual PM-10 emissions from tilling for each crop type (tons/year),
$EF_{tillage}$ = tillage emission factor (lbs/acre-pass),
AP_{crop} = number of tillage passes per crop (passes), and
A_{crop} = tilled acreage for each crop type (acres).

Daily PM-10 emissions are estimated by dividing annual emissions by the number of days during which tilling is expected to occur. PM-2.5 emissions are then estimated by applying the reference (PM-2.5/PM-10) ratio described above to the calculated PM-10 emissions. Tillage passes per year, tilling operations data, and uncontrolled PM-2.5 annual and daily emissions for the 2023 attainment year are summarized in Table II-9.

Table II-9 2023 Tillage passes, operations data, and uncontrolled PM-2.5 emissions from tilling operations in the PM-2.5 NAA

Crop Category	Tilling Passes[a] (passes/year)	Tilling Operations[a] (days/year)	Uncontrolled Annual PM-2.5 Emissions (tons/year)	Uncontrolled Daily PM-2.5 Emissions (lbs/day)
Alfalfa	5.1	91	30.49	670.2
Corn	7.3	152	25.58	336.6
Cotton	8.8	364	9.55	52.5
Grain	3.1	243	6.13	50.5
Hay	5.1	91	1.69	37.2
Vegetables	14.0	182	12.25	134.6
Total	**N/A**	**N/A**	**85.69**	**1,281.4**

a. Source: ADEQ, 2015. "Appendix B: Pinal County PM-10 Nonattainment Area Emissions Inventories for 2008 and 2018 Base Years and Design Days." Arizona Department of Environmental Quality. (Prepared by Sierra Research, 2014.)

2013," JBR Environmental Consultants, June 26, 2013

Controlled PM-10 emissions from tilling operations are estimated using the same overall control framework described above for harvesting. The 2023 Five Percent Plan assumed a rule effectiveness percentage of 60% and a rule penetration of 99.78% for tilling controls in 2023 to reflect the implementation of the two mandated Best Management Practices (BMPs). The 60% RE and 99.78% RP values are applied to crop-specific tilling control efficiencies to produce crop-specific control effectiveness values. The crop-specific control effectiveness for tilling operations and the controlled tilling PM-2.5 emissions derived from applying control effectiveness to uncontrolled emissions are shown in Table II-10.

Table II-10 2023 Control effectiveness percentages and controlled PM-2.5 emissions from tilling operations in the PM-2.5 NAA

Crop Category	Annual Tilling Control Effectiveness (%)	Controlled Annual PM-2.5 Emissions (tons/year)	Controlled Daily PM-2.5 Emissions (lbs/day)
Alfalfa	23.9	23.20	510.0
Corn	37.1	16.09	211.7
Cotton	27.8	6.89	37.9
Grain	33.8	4.06	33.4
Hay	31.4	1.16	25.5
Vegetables	14.4	10.49	115.3
Total	**N/A**	**61.90**	**933.8**

Concentrated Animal Feeding Operations (CAFOs)

Fugitive dust PM-2.5 emissions from CAFOs are calculated by first estimating PM-10 emissions and then applying a PM-2.5/PM-10 ratio to PM-10 emissions to obtain PM-2.5 emissions. Extensive research to establish an emission factor for uncontrolled PM-10 emissions from CAFOs was described in the 2023 Five Percent Particulate Plan for PM-10 for the West Pinal County Nonattainment Area (MAG, 2023). The 2023 Five Percent Plan also calculated controlled PM-10 emissions to reflect the adoption of agricultural control measures. As stated earlier, PM-10 emission controls for fugitive dust are assumed to be equally effective at controlling PM-2.5 emissions from fugitive dust sources.

Daily PM-10 emission factors for CAFOs were computed from the medians of hourly emission factors (Bonifacio et al., 2012) as described in the 2023 Five Percent Plan. Direct emission factors for PM-2.5 from CAFO operations are limited and are not consistently available across regions and activities. Multiple research articles varied on appropriate PM-2.5/PM-10 ratios for CAFOs and dairies. For this analysis, MAG reviewed studies conducted under comparable climate, soil, and facility conditions and derived a PM-2.5/PM-10 ratio of 0.21 by averaging the ratios

reported in the most recent literature[6]. This ratio was then applied to the relevant controlled PM-10 emissions from CAFOs in the PM-2.5 NAA.

A 2023 annual average daily headcount for CAFOs of 52,500 within the PM-2.5 NAA was provided by the Arizona Cattle Feeders Association[7]. This population value was multiplied by the daily PM-10 emission factor to estimate the daily uncontrolled PM-10 emissions from CAFOs. The daily uncontrolled PM-2.5 emissions were then calculated by applying the PM-2.5/PM-10 ratio. Daily emissions were subsequently annualized by multiplying by 365.

As discussed in the 2023 Five Percent Plan, PM-10 control efficiencies for four activity categories at CAFOs were analyzed: (1) arenas, corrals, and pens; (2) animal waste and feed handling/transporting; (3) unpaved access connections within CAFOs; and (4) unpaved roads within CAFOs.

The four activity control efficiencies were weighted by activity and then averaged to calculate a single annual average control efficiency of 39.95%. A rule effectiveness (RE) of 60% for calendar year 2023 was applied to the combined control efficiency for the four activity categories to calculate an overall control effectiveness (CE) of 23.97%. The overall control effectiveness was applied to uncontrolled annual and daily PM-10 emissions to produce controlled PM-10 emissions. As described above, a ratio of 0.21 was applied to controlled PM-10 emissions to provide estimated annual and daily controlled PM-2.5 emissions. Table II-11 contains the annual and daily PM-2.5 emissions from CAFOs within the PM-2.5 NAA.

Table II-11 2023 Annual and daily PM-2.5 emissions from CAFOs in the PM-2.5 NAA

Source Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
CAFOs	100.65	551.5

[6] Henry F. Bonifacio, Ronaldo G. Maghirang, Steven L. Trabue, Laura L. McConnell, John H. Prueger, Edna R. Bonifacio (2015), TSP, PM10, and PM2.5 emissions from a beef cattle feedlot using the flux-gradient technique, Atmospheric Environment, Volume 101, 2015, Pages 49-57, ISSN 1352-2310, retrieved from https://www.sciencedirect.com/science/article/pii/S1352231014008760

EPA (2015), Fugitive Dust from Beef Cattle Feedlots Source Category Guidance retrieved from https://www.epa.gov/sites/default/files/2015-08/documents/feedlots.pdf

MR Habib et.al. (2022), Particulate Matter Emission Factors for Dairy Facilities and Cattle Feedlots during Summertime in Texas MR Habib, EJN Baticados, SC Capareda International Journal of Environmental Research and Public Health 19 (21), 14090 retrieved from https://pmc.ncbi.nlm.nih.gov/articles/PMC9657701/

Gonzales et al. (2011). Measuring Cattle Feedlot Dust Using Laser Diffraction Analysis, page 2325 retrieved from Vol. 54(6): 2319-2327 2319 2011 American Society of Agricultural and Biological Engineers ISSN 2151-0032 retrieved from https://www.ars.usda.gov/ARSUserFiles/30200510/2012%20-%20Measuring%20Cattle%20Feedlot%20Dust.pdf

[7] Email communication from Aja, 2026

Dairies

Fugitive dust PM-2.5 emissions for dairy operations in the PM-2.5 NAA were derived in a similar manner to CAFO emissions, by calculating PM-10 emissions first and then applying a PM-2.5/PM-10 ratio to PM-10 emissions. PM-10 emissions from dairies are calculated using from an emission factor published by the Arizona Governor's Agricultural Best Management Practices Committee (AgBMP Committee, 2010) and estimates of average annual headcounts in 2023 (80,242) at affected dairies in the PM-2.5 NAA based upon prior estimates supplied by United Dairymen of Arizona as described in the 2023 Five Percent Plan. The published emission factor of 5.21 lb/head-year was multiplied by the average annual headcount of 80,242 to calculate uncontrolled annual PM-10 emissions for all dairies in the PM-2.5 NAA. Annual uncontrolled PM-10 emissions are divided by 365 days to obtain daily emissions.

Similar to the methodologies used to establish control effectiveness for CAFOs as described above, the 2023 Five Percent Plan estimated an overall PM-10 control effectiveness of 14.71% for dairy controls for the year 2023. Annual and daily controlled PM-10 emissions were estimated by applying the overall control effectiveness value to uncontrolled PM-10 emissions. Annual and daily PM-2.5 emissions were then multiplied by the PM-2.5/PM-10 ratio of 0.21 to determine controlled annual PM-2.5 emissions. Table II-12 contains the controlled annual and daily PM-2.5 emissions from dairies within the PM-2.5 NAA.

Table II-12 2023 Annual and daily PM-2.5 emissions from dairies in the PM-2.5 NAA

Source Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Dairies	37.44	205.1

2. Construction

Annual and daily PM-2.5 emissions from construction fugitive dust are estimated based on construction dust permits issued in 2023 within the PM-2.5 NAA as provided by the Pinal County Air Quality Control District (PCAQCD).

PCAQCD provided both the methodology and data to calculate construction emissions in the PM-2.5 NAA. According to PCAQCD, construction fugitive dust was initially evaluated for PM-10. The method categorizes construction projects into commercial, residential multi-family, residential single-family, road construction, site prep/land development, trenching, weed control, and demolition. There were no road construction, weed control, nor demolition permits issued by PCAQCD in 2023, thus no emissions were reported for these categories.

The 2023 construction activity data were obtained from PCAQCD's Accela permit software and evaluation of construction fugitive dust permits issued in the PM-2.5 NAA. To determine uncontrolled PM-2.5 emissions, PM-10 emissions were analyzed for each dust permit. The acreage was summed for each category and multiplied by the average duration to achieve the total acre-months. The emission factor was multiplied by the total acre-months to capture the annual uncontrolled PM-10 emissions and then calculated for PM-2.5 using a PM-2.5/PM-10 ratio of 0.10. The equation applied for each construction category is provided below:

$$Uncontrolled\ Emissions = Acres\ Disturbed \times Number\ of\ Months \times Emission\ Factor$$

Prior methods for estimating total acre-months for each construction fugitive dust permit assume that the entirety of the project was completed within the calendar year that the permit was issued; potentially overestimating emissions as it is not likely every project was completed within the calendar year the permit was issued. However, to remain consistent with conservative calculations, the actual permit data were used without any assumptions on project completion or overlap with previous years. Construction emissions are assumed to occur equally throughout the year. As such, daily PM-2.5 emissions are calculated by dividing annual emissions by 365 days per year.

Construction emissions are controlled through rules and a permitting program administrated by PCAQCD. For controlled emissions, a control efficiency of 90% for watering/stabilization was applied to the uncontrolled emissions calculations. A rule effectiveness (RE) was applied to the watering control efficiency and was determined to be 77.8% based on compliance inspections at construction sites in 2023. The overall control effectiveness of 70% and the annual controlled PM-10 emissions were calculated as follows:

$$Overall\ Control\ Effectiveness = Control\ Efficiency \times Rule\ Effectiveness$$

$$Controlled\ Emissions = Uncontrolled\ Emissions \times [1 - (Control\ Effectiveness)]$$

Table II-13 includes the resulting construction acre-months based upon 2023 data, PM-10 emission factors by construction category, and control effectiveness.

Table II-13 2023 Construction acre-months, emissions factors, and control effectiveness from construction in the PM-2.5 NAA

Construction Category	Acre-Months	PM-10 Emission Factor (tons/acre-month)	Control Effectiveness
Commercial	631.29	0.19	70%
Residential: Multi-Family	670.08	0.11	70%
Residential: Single Family	5,219.16	0.03	70%
Site Prep/Land Development	306.96	0.11	70%
Trenching	3.00	0.11	70%

Table II-14 summarizes the controlled annual and daily fugitive dust PM-2.5 emissions from construction within the PM-2.5 NAA.

Table II-14 2023 Annual and daily PM-2.5 emissions from permitted constructions in the PM-2.5 NAA

Construction Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Commercial	3.59	19.7
Residential: Multi-Family	5.01	27.4
Residential: Single Family	2.21	12.1
Site Prep/Land Development	1.01	5.5
Trenching	0.01	0.1
Total	**11.83**	**64.8**

3. Gas Stations

Permitting details were provided by PCAQCD for gas stations in the PM-2.5 NAA. This category replaces the gas station category in the 2023 NEI. Table II-15 summarizes the annual and daily VOC emissions from all gas stations permitted within the PM-2.5 NAA.

Table II-15 2023 Annual and daily VOC emissions from all gas stations permitted in the PM-2.5 NAA

Permit #	Facility	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
S12719.000	Circle K Store #2703486	6.10	33.4
S12800.000	Circle K Store #2703390	3.81	20.8
S12813.000	Circle K Store #2706639	4.57	25.0
S12731.000	Circle K Store #2709535	0.83	4.6
S12735.000	Fry's Fuel Center #672	5.71	31.3
S12709.000	Jb Farmer's Convenience Store	0.24	1.3
S12774.000	Maricopa Shell	0.48	2.6
S12770.000	Quiktrip Store #499	5.87	32.2
N/A	**Total**	**27.60**	**151.2**

4. National Emissions Inventory Source Categories

For nonpoint source categories where local activity data were unavailable, PM-2.5 and precursor emissions were subsequently derived from the Pinal County estimates prepared by EPA for the 2023 NEI. The emissions from the 2023 NEI are either not included in the permitted source emissions or have been replaced with site specific calculations based on available data, therefore double counting did not occur. Annual and daily PM-2.5 and precursor emissions within the PM-2.5 NAA were allocated by extracting the NEI datasets for Pinal County, and applying surrogates using MAG developed socioeconomic and land use data as a spatial surrogate as discussed in Chapter I.A. Temporal surrogates are allocated based on known activity data from NEI methodologies and consultation with ADEQ and PCAQCD.

The 2023 NEI for Pinal County was reviewed to ensure all significant nonpoint sources of PM-2.5 and precursors were included. The sector categories quantified include the following:

- Commercial Cooking
- Stationary Source Fuel Combustion
- Solvent Use
- Miscellaneous Non-Industrial Processes Not Elsewhere Classified
- Other Agricultural Livestock Sources

- Agricultural Fertilizer
- Agricultural Silage
- Petroleum Products Storage and Handling
- Waste Disposal, Treatment, and Recovery
- Wildfires

Commercial Cooking

Emissions from commercial cooking were derived from Pinal County estimates prepared by EPA for the 2023 NEI. Annual emissions within the PM-2.5 NAA were calculated by multiplying 2023 NEI Pinal County emissions by the ratio of total population in the PM-2.5 NAA to the total population in Pinal County (15.54%) as supplied from the MAG 2023 Socioeconomic data.

Commercial cooking activity is assumed to occur uniformly throughout the year. Therefore, daily emissions were developed by dividing the annual emissions by 365 days per year. Table II-16 and Table II-17 include the annual and daily PM-2.5 and precursor emissions from commercial cooking in the PM-2.5 NAA.

Table II-16 2023 Annual PM-2.5 and precursor emissions from commercial cooking sources in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2302002100	Conveyorized Charbroiling	0.50	-	-	0.11	-
2302002200	Underfired Charbroiling	1.94	-	-	0.27	-
2302003000	Deep Fat Frying	4.22	-	-	0.14	-
2302003100	Flat Griddle Frying	0.89	-	-	0.05	-
2302003200	Clamshell Griddle Frying	0.09	-	-	0.00	-
N/A	**Total**	**7.63**	**-**	**-**	**0.57**	**-**

Table II-17 2023 Daily PM-2.5 and precursor emissions from commercial cooking sources in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2302002100	Conveyorized Charbroiling	2.7	-	-	0.6	-
2302002200	Underfired Charbroiling	10.6	-	-	1.5	-
2302003000	Deep Fat Frying	23.1	-	-	0.7	-
2302003100	Flat Griddle Frying	4.9	-	-	0.3	-
2302003200	Clamshell Griddle Frying	0.5	-	-	0.0	-
N/A	**Total**	**41.8**	**-**	**-**	**3.1**	**-**

Fuel Combustion

For annual PM-2.5 and precursor emissions from fuel combustion, 2023 NEI Pinal County PM-2.5 emissions data for residential, commercial/institutional and industrial combustion categories were allocated to the PM-2.5 NAA based on population, commercial/institutional land use, and industrial land use, respectively. Residential combustion was allocated using total population (15.54%), commercial/institutional combustion was allocated using commercial/ institutional land use (15.48%), and industrial combustion was allocated using industrial land use (7.18%).

Daily emissions for residential combustion were calculated by dividing the annual total by 193 days, representing the number of heating degree days in 2023. Daily emissions for commercial/institutional and industrial combustion were calculated by dividing the annual total by 312 operating days, assuming combustion occurs six days per week. When a particular fuel type (e.g., coal) or technology (hydronic heaters) are known to be not in use in the PM-2.5 NAA, 2023 Pinal County PM-2.5 NEI emissions data were zeroed out. Table II-18 and Table II-19 summarize annual and daily PM-2.5 and precursor emissions in the PM-2.5 NAA.

Table II-18 2023 Annual PM-2.5 and precursor emissions from fuel combustion sources in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2104004000	Residential Heating-Distillate	0.00	0.00	0.01	0.00	0.00
2104006000	Residential Heating-Natural Gas	0.08	3.89	18.26	1.07	0.12
2104007000	Residential Heating-LPG	0.01	0.01	2.77	0.11	0.01
2104008011	Woodstove: Non-certified wood stoves <=4FT3	17.82	1.04	0.68	39.92	0.24
2104008021	Woodstove: EPA certified wood stoves non-cat	19.52	0.72	1.39	36.52	0.44
2104008031	Woodstove: EPA certified, catalytic or hybrid	1.84	0.18	0.57	5.37	0.11
2104008100	Fireplace: General	12.56	0.96	1.38	10.06	0.21
2104008400	Woodstove: Pellet-fired, General	0.11	0.02	0.20	0.23	0.02
2104008500	Furnace: Indoor, Cordwood-fired, General	1.78	0.12	0.07	0.75	0.13
2104008530	Furnace: Indoor, Pellet-fired, General	0.01	0.00	0.02	0.02	0.00
2104008700	Outdoor wood burning device, NEC (fire-pits, chimeas, etc)	5.53	0.42	0.61	4.43	0.09
2104009000	Wax Log; Total: All Combustor Types	1.60	0.00	0.43	2.23	0.00
2103004001	ICI, Distillate Boilers, Commercial/Institutional	0.01	0.00	0.08	0.00	0.00
2103004002	ICI, Distillate Engines, Commercial/Institutional	0.11	0.00	1.62	0.11	0.11
2103006000	ICI, Natural Gas, Commercial/Institutional	0.00	0.01	0.33	0.02	0.00
2103007000	ICI, LPG, Commercial/Institutional	0.00	0.00	0.05	0.00	0.00
2103008000	ICI, Wood, Commercial/Institutional	0.12	0.00	0.06	0.01	0.01
2102004001	ICI, Distillate Boilers, Industrial	0.00	0.00	0.00	0.00	0.00
2102004002	ICI, Distillate Engines, Industrial	0.00	0.00	0.00	0.00	0.00
2102006000	ICI, Natural Gas, Industrial	0.01	0.01	1.35	0.07	0.01
2102007000	ICI, LPG, Industrial	0.00	0.00	0.22	0.01	0.00
2102008000	ICI, Wood, Industrial	0.14	0.00	0.07	0.01	0.01
N/A	**Total**	**61.24**	**7.38**	**30.18**	**100.92**	**1.51**

Table II-19 2023 Daily PM-2.5 and precursor emissions from fuel combustion sources in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2104004000	Residential Heating-Distillate	0.0	0.0	0.1	0.0	0.0
2104006000	Residential Heating-Natural Gas	0.9	40.3	189.2	11.1	1.2
2104007000	Residential Heating-LPG	0.1	0.1	28.7	1.1	0.1
2104008011	Woodstove: Non-certified wood stoves <=4FT3	184.7	10.8	7.1	413.7	2.5
2104008021	Woodstove: EPA certified wood stoves non-cat	202.3	7.5	14.4	378.4	4.5
2104008031	Woodstove: EPA certified, catalytic or hybrid	19.0	1.9	5.9	55.6	1.1
2104008100	Fireplace: General	130.1	9.9	14.3	104.2	2.2
2104008400	Woodstove: Pellet-fired, General	1.1	0.2	2.1	2.4	0.2
2104008500	Furnace: Indoor, Cordwood-fired, General	18.4	1.2	0.7	7.8	1.4
2104008530	Furnace: Indoor, Pellet-fired, General	0.1	0.0	0.2	0.2	0.0
2104008700	Outdoor wood burning device, NEC (fire-pits, chimeas, etc)	57.3	4.4	6.3	45.9	1.0
2104009000	Wax Log; Total: All Combustor Types	16.6	0.0	4.5	23.1	0.0
2103004001	ICI, Distillate Boilers, Commercial/Institutional	0.0	0.0	0.5	0.0	0.0
2103004002	ICI, Distillate Engines, Commercial/Institutional	0.7	0.0	10.4	0.7	0.7
2103006000	ICI, Natural Gas, Commercial/Institutional	0.0	0.1	2.1	0.1	0.0
2103007000	ICI, LPG, Commercial/Institutional	0.0	0.0	0.3	0.0	0.0
2103008000	ICI, Wood, Commercial/Institutional	0.8	0.0	0.4	0.0	0.0
2102004001	ICI, Distillate Boilers, Industrial	0.0	0.0	0.0	0.0	0.0
2102004002	ICI, Distillate Engines, Industrial	0.0	0.0	0.0	0.0	0.0
2102006000	ICI, Natural Gas, Industrial	0.0	0.0	8.7	0.5	0.1
2102007000	ICI, LPG, Industrial	0.0	0.0	1.4	0.1	0.0
2102008000	ICI, Wood, Industrial	0.9	0.0	0.4	0.0	0.0
N/A	**Total**	**633.0**	**76.4**	**297.7**	**1,044.9**	**15.0**

Solvent Use

Volatile Organic Compounds (VOCs) are the precursor emissions captured by this category. This category includes both industrial, commercial and consumer uses. Categories that were known to not exist in the PM-2.5 NAA were removed from the category. Because not all uses of solvents can be captured through permitting, some double counting may have occurred but was minimized where applicable. This resulted in conservative estimates for this NEI category. Spatial surrogates used to allocate county-level 2023 NEI solvent use emissions to the PM-2.5 NAA include total population and total employment. Solvent uses were assumed to occur uniformly throughout the year. Therefore, daily emissions were developed by dividing the annual emissions by 365 days per year. Table II-20 summarizes annual and daily VOC emissions from solvent use in the PM-2.5 NAA.

Table II-20 2023 Annual and daily VOC emissions from solvent use in the PM-2.5 NAA

SCC #	SCC Description	SCC Level 3	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
2401001000	Solvent - Non-Industrial Surface Coating	Architectural Coatings	47.02	257.7
2401005000	Solvent - Industrial Surface Coating & Solvent Use	Auto Refinishing: SIC 7532	2.45	13.4
2401008000	Solvent - Industrial Surface Coating & Solvent Use	Traffic Markings	8.10	44.4
2401015000	Solvent - Industrial Surface Coating & Solvent Use	Factory Finished Wood: SIC 2426 thru 242	0.01	0.1
2401020000	Solvent - Industrial Surface Coating & Solvent Use	Wood Furniture: SIC 25	0.13	0.7
2401030000	Solvent - Industrial Surface Coating & Solvent Use	Paper: SIC 26	0.05	0.3
2401055000	Solvent - Industrial Surface Coating & Solvent Use	Machinery and Equipment: SIC 35	0.08	0.4
2401065000	Solvent - Industrial Surface Coating & Solvent Use	Electronic and Other Electrical: SIC 36 - 363	0.65	3.5
2401070000	Solvent - Industrial Surface Coating & Solvent Use	Motor Vehicles: SIC 371	0.01	0.1
2401075000	Solvent - Industrial Surface Coating & Solvent Use	Aircraft: SIC 372	0.10	0.6
2401090000	Solvent - Industrial Surface Coating & Solvent Use	Miscellaneous Manufacturing	0.11	0.6
2401100000	Solvent - Industrial Surface Coating & Solvent Use	Industrial Maintenance Coatings	9.32	51.0
2415000000	Solvent - Degreasing	All Processes/All Industries	3.28	18.0
2425000000	Solvent - Graphic Arts	All Processes	1.31	7.2

SCC #	SCC Description	SCC Level 3	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
2460030999	Solvent - Consumer & Commercial Solvent Use	Lighter Fluid, Fire Starter, Other Fuels	1.50	8.2
2460100000	Solvent - Consumer & Commercial Solvent Use	All Personal Care Products	104.95	575.1
2460200000	Solvent - Consumer & Commercial Solvent Use	All Household Products	69.97	383.4
2460400000	Solvent - Consumer & Commercial Solvent Use	All Automotive Aftermarket Products	9.40	51.5
2460500000	Solvent - Consumer & Commercial Solvent Use	All Coatings and Related Products	100.44	550.4
2460600000	Solvent - Consumer & Commercial Solvent Use	All Adhesives and Sealants	81.23	445.1
2460800000	Solvent - Consumer & Commercial Solvent Use	All FIFRA Related Products	3.76	20.6
2460900000	Solvent - Consumer & Commercial Solvent Use	Miscellaneous Products (Not Otherwise Covered)	1.50	8.2
2461021000	Solvent - Consumer & Commercial Solvent Use	Cutback Asphalt	19.76	108.3
2461022000	Solvent - Consumer & Commercial Solvent Use	Emulsified Asphalt	55.09	301.9
2461023000	Solvent - Consumer & Commercial Solvent Use	Asphalt Roofing	2.78	15.2
2461025100	Solvent - Consumer & Commercial Solvent Use	Asphalt Paving: Hot and Warm Mix	14.94	81.9
2461025200	Solvent - Consumer & Commercial Solvent Use	Asphalt Paving: Hot and Warm Mix	0.24	1.3
2461850000	Solvent - Consumer & Commercial Solvent Use	Pesticide Application: Agricultural	25.21	138.1
N/A	**Total**	**N/A**	**563.39**	**3,087.2**

Miscellaneous Non-Industrial Processes Not Elsewhere Classified

This category includes PM-2.5 and precursor emissions from miscellaneous non-industrial processes and not elsewhere classified sources in the PM-2.5 NAA. Spatial surrogates used to allocate county-level 2023 NEI emissions to the PM-2.5 NAA include a variety of socioeconomic surrogates that best correlate with individual miscellaneous activities. These activities are assumed to occur uniformly throughout the year. Therefore, daily emissions were developed by dividing the annual emissions by 365 days per year. Table II-21 and Table II-22 summarize annual and daily PM-2.5 and precursor emissions from miscellaneous non-industrial processes and not elsewhere classified sources in the PM-2.5 NAA.

Table II-21 2023 Annual PM-2.5 and precursor emissions from miscellaneous non-industrial processes and not elsewhere classified sources in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2806010000	Pet Cats	0.00	1.81	0.00	0.00	0.00
2806015000	Pet Dogs	0.00	12.66	0.00	0.00	0.00
2810003000	Cigarette Smoking	0.00	0.13	0.00	0.00	0.00
2810030000	Miscellaneous Non-Industrial NEC - Structure Fires	1.80	0.04	0.02	2.67	0.00
2810050000	Miscellaneous Non-Industrial NEC - Motor Vehicle Fires	0.26	0.00	0.02	0.05	0.01
2810060100	Miscellaneous Non-Industrial NEC - Human Cremation	0.25	0.00	0.44	0.04	0.27
2810090001	Miscellaneous Non-Industrial NEC - Campfires	0.85	0.07	0.09	0.68	0.01
2812001000	Miscellaneous Non-Industrial NEC - Residential Cooking	2.97	0.00	0.00	0.31	0.00
2813010000	Human Perspiration and Respiration	0.00	1.41	0.00	0.00	0.00
2813020000	Diapers	0.00	0.06	0.00	0.00	0.00
N/A	**Total**	**6.13**	**16.18**	**0.57**	**3.75**	**0.29**

Table II-22 2023 Daily PM-2.5 and precursor emissions from miscellaneous non-industrial processes and not elsewhere classified sources in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2806010000	Pet Cats	0.0	9.9	0.0	0.0	0.0
2806015000	Pet Dogs	0.0	69.4	0.0	0.0	0.0
2810003000	Cigarette Smoking	0.0	0.7	0.0	0.0	0.0
2810030000	Miscellaneous Non-Industrial NEC - Structure Fires	9.9	0.2	0.1	14.6	0.0
2810050000	Miscellaneous Non-Industrial NEC - Motor Vehicle Fires	1.4	0.0	0.1	0.3	0.0
2810060100	Miscellaneous Non-Industrial NEC - Human Cremation	1.4	0.0	2.4	0.2	1.5
2810090001	Miscellaneous Non-Industrial NEC - Campfires	4.7	0.4	0.5	3.7	0.1
2812001000	Miscellaneous Non-Industrial NEC - Residential Cooking	16.2	0.0	0.0	1.7	0.0
2813010000	Human Perspiration and Respiration	0.0	7.7	0.0	0.0	0.0
2813020000	Diapers	0.0	0.3	0.0	0.0	0.0
N/A	**Total**	**33.6**	**88.7**	**3.1**	**20.5**	**1.6**

Other Agricultural Livestock Sources

This category includes sources of both waste and dust emissions (PM-2.5 and precursors) from livestock including layers, broilers, turkey, swine, horses and ponies, sheep and lambs, and goats. While PM-2.5 precursor emissions (NH_3 and VOCs) from CAFO and dairy operations in the PM-2.5 NAA are included in this section, dust emissions from CAFOs and dairies are reported separately. Values less than 0.001 tons/year were removed from the dataset. Spatial surrogates used to allocate county-level 2023 NEI emissions to the PM-2.5 NAA include agricultural acreage and CAFO/dairy acreage. These activities are assumed to occur uniformly throughout the year. Therefore, daily emissions were developed by dividing the annual emissions by 365 days per year. Table II-23 and Table II-24 summarize annual and daily PM-2.5 and precursor emissions from other agricultural livestock sources in the PM-2.5 NAA.

Table II-23 2023 Annual PM-2.5 and precursor emissions from other agricultural livestock sources in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	SCC Level	PM-2.5	NH_3	NO_X	VOC	SO_2
2805007100	Agricultural Livestock	Waste - Layers	0.00	16.50	-	1.32	-
2805009100	Agricultural Livestock	Waste - Broilers	0.00	0.02	-	0.00	-
2805010100	Agricultural Livestock	Waste - Turkeys	0.00	0.01	-	0.00	-
2805025000	Agricultural Livestock	Waste - Swine	0.00	51.93	-	4.15	-
2805035000	Agricultural Livestock	Waste – Horses/Ponies	0.00	7.50	-	0.60	-
2805040000	Agricultural Livestock	Waste – Sheep/Lamb	0.00	1.40	-	0.11	-
2805045000	Agricultural Livestock	Waste - Goats	0.00	0.41	-	0.03	-
2805002000	Agricultural Livestock	Waste - CAFOs	0.00	1,173.26	-	93.9	-
2805018000	Agricultural Livestock	Waste - Dairies	0.00	2,801.03	-	224.08	-
2805100040	Agriculture - Crops & Livestock	Dust - Hooves Layers	0.20	0.00	-	0.00	-
2805100050	Agriculture - Crops & Livestock	Dust - Hooves Swine	0.02	0.00	-	0.00	-
N/A	**Total**	**N/A**	**0.22**	**4,052.06**	**-**	**324.19**	**-**

Table II-24 2023 Daily PM-2.5 and precursor emissions from other agricultural livestock sources in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	SCC Level	PM-2.5	NH_3	NO_X	VOC	SO_2
2805007100	Agricultural Livestock	Waste - Layers	0.0	90.4	0.0	7.2	0.0
2805009100	Agricultural Livestock	Waste - Broilers	0.0	0.1	0.0	0.0	0.0
2805010100	Agricultural Livestock	Waste - Turkeys	0.0	0.1	0.0	0.0	0.0
2805025000	Agricultural Livestock	Waste - Swine	0.0	284.5	0.0	22.8	0.0
2805035000	Agricultural Livestock	Waste - Horses/Ponies	0.0	41.1	0.0	3.3	0.0
2805040000	Agricultural Livestock	Waste - Sheep/Lamb	0.0	7.7	0.0	0.6	0.0
2805045000	Agricultural Livestock	Waste - Goats	0.0	2.2	0.0	0.2	0.0
2805002000	Agricultural Livestock	Waste - CAFOs	0.0	6,428.8	0.0	514.30	0.0
2805018000	Agricultural Livestock	Waste - Dairies	0.0	15,348.1	0.0	1,227.8	0.0
2805100040	Agriculture - Crops & Livestock	Dust - Hooves Layers	1.1	0.0	0.0	0.0	0.0
2805100050	Agriculture - Crops & Livestock	Dust - Hooves Swine	0.1	0.0	0.0	0.0	0.0
N/A	**Total**	**N/A**	**1.2**	**22,203.0**	**0.0**	**1,776.2**	**0.0**

Agricultural Fertilizer

Agricultural soil NH_3 emissions for Pinal County, totaling 2,292.12 short tons, were obtained from EPA's 2023 National Emissions Inventory (NEI). These emissions were developed using the Fertilizer Emissions Scenario Tool for CMAQ (FEST-C) coupled with CMAQ in bidirectional exchange mode, which dynamically computes NH_3 fluxes between agricultural soils and the atmosphere. The FEST-C framework employs the Environmental Policy Integrated Climate (EPIC) model to simulate crop-specific agricultural management practices and soil nitrogen biogeochemistry, providing a physically consistent basis for estimating fertilizer application timing, composition, and amount by crop type. Further details on the methodology are documented in the EPA's 2022v2 platform Technical Support Document (EPA, 2025).

County-level fertilizer NH_3 emissions for Pinal County were spatially distributed to the PM-2.5 NAA based on the proportion of fertilizer-applicable cropland within the PM-2.5 NAA boundary. Alfalfa acreage was excluded from this allocation because alfalfa, as a nitrogen-fixing legume, does not require synthetic nitrogen fertilizer application and accordingly contributes no fertilizer

NH_3 emissions in the FEST-C/EPIC framework. The spatial apportionment was therefore based solely on the remaining eligible cropland area within the nonattainment boundary.

Table II-25 presents the cropland percentages by type for both Pinal County and the PM-2.5 NAA in 2023. Non-alfalfa cropland accounts for approximately 59.8% of the total agricultural land in Pinal County, while non-alfalfa cropland within the PM-2.5 NAA accounts for about 56.5% of the agricultural land in the NAA (see also Table II-6).

Table II-25 Percentage of cropland in Pinal County and the PM-2.5 NAA

Field Crops	Crop Distribution in Pinal County[a]	Crop Distribution in the PM-2.5 NAA[a]
Alfalfa	40.2%	43.5%
Corn	13.7%	25.5%
Cotton	26.7%	7.9%
Grain	11.2%	14.4%
Hay	3.5%	2.4%
Vegetables	4.7%	6.4%
Total	**100.0%**	**100.0%**

a. Crop distribution data were obtained from the USDA NASS CDL for 2023, https://croplandcros.scinet .usda.gov/.

The total agricultural land acreages for both Pinal County and the PM-2.5 NAA were taken from MAG's 2024 land use data. To account for non-cultivated land, a fallow field percentage of 25.0%, obtained from the 2023 Five Percent Particulate Plan for PM-10 for the West Pinal County Nonattainment Area (MAG, 2023), was applied to derive the active agricultural acreage. The non alfalfa acreages for both Pinal County and the PM-2.5 NAA were then derived using the non-alfalfa percentage values presented in Table II-25. As a result, Table II-26 shows that an estimated 22.7% of the non-alfalfa land in Pinal County lies within the PM-2.5 NAA. This fraction was applied to spatially allocate the county-level fertilizer NH_3 emissions to the PM-2.5 NAA. Table II-27 shows the annual total and daily NH_3 emissions for Pinal County and the PM-2.5 NAA in 2023.

Table II-26 Acreage and PM-2.5 NAA ratios for agricultural land in Pinal County

Area	Pinal County (acres)	PM-2.5 NAA (acres)	PM-2.5 NAA to Pinal County Ratio (%)
Total Agricultural Land	317,510	76,079	23.96
Active Agricultural Land	238,133	57,059	23.96
Non-Alfalfa Cropland	142,391	32,253	22.70

Table II-27 2023 Annual and daily NH_3 emissions from agricultural fertilizer for Pinal County and the PM-2.5 NAA

Area	Annual NH_3 Emissions (tons/year)	Daily NH_3 Emissions (lbs/day)
Pinal County	2,292.12	12,559.6
PM-2.5 NAA	519.20	2,844.9

Agricultural Silage

This category includes 2023 NEI VOC emissions for agricultural silage relating to storage, mixing and feeding operations. The primary emissions from these sources are VOCs. Spatial surrogates used to allocate county-level 2023 NEI emissions to the PM-2.5 NAA include CAFO/dairy acreage. These activities are assumed to occur uniformly throughout the year. Therefore, daily emissions were developed by dividing the annual emissions by 365 days per year. Table II-28 summarizes annual and daily VOC emissions from other agricultural silage in the PM-2.5 NAA.

Table II-28 2023 Annual and daily VOC emissions from agricultural silage sources in the PM-2.5 NAA

SCC #	SCC Description	SCC Level	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
2802004001	Agricultural Silage	Storage	373.93	2,048.9
2802004002	Agricultural Silage	Mixing	28.01	153.5
2802004003	Agricultural Silage	Feeding	272.74	1,494.5
N/A	**Total**	**N/A**	**674.67**	**3,696.8**

Petroleum Products Storage and Handling

This category includes emissions from petroleum products storage and handling in the PM-2.5 NAA. VOCs are the precursor emissions captured by this category. This category includes both commercial and residential storage types. Aviation gas stations were included in this category as they were not previously captured elsewhere. Spatial surrogates used to allocate county-level 2023 emissions to the PM-2.5 NAA include total population and the geographic location of airports. These category types were assumed to occur uniformly throughout the year. Therefore, daily emissions were developed by dividing the annual emissions by 365 days per year. Table II-29 and Table II-30 summarize annual and daily VOC emissions from petroleum products storage and handling in the PM-2.5 NAA.

Table II-29 2023 Annual VOC emissions from petroleum products storage and handling in the PM-2.5 NAA (tons/year)

SCC	SCC Description	SCC Level	VOC
2501011011	Residential Gas Can	Permeation	0.42
2501011012	Residential Gas Can	Evaporation (Includes Diurnal Losses)	0.47
2501011014	Residential Gas Can	Refilling at the Pump - Vapor Displacement	0.15
2501012011	Commercial Gas Can	Permeation	0.03
2501012012	Commercial Gas Can	Evaporation (Includes Diurnal Losses)	0.02
2501012014	Commercial Gas Can	Refilling at the Pump - Vapor Displacement	0.64
2501080050	Aviation - Gas Stations	Stage 1: Total	11.27
2501080100	Aviation - Gas Stations	Stage 2: Total	0.42
N/A	**Total**	**N/A**	**13.42**

Table II-30 2023 Daily VOC emissions from petroleum products storage and handling in the PM-2.5 NAA (lbs/day)

SCC	SCC Description	SCC Level	VOC
2501011011	Residential Gas Can	Permeation	2.3
2501011012	Residential Gas Can	Evaporation (Includes Diurnal Losses)	2.6
2501011014	Residential Gas Can	Refilling at the Pump - Vapor Displacement	0.8
2501012011	Commercial Gas Can	Permeation	0.2
2501012012	Commercial Gas Can	Evaporation (Includes Diurnal Losses)	0.1
2501012014	Commercial Gas Can	Refilling at the Pump - Vapor Displacement	3.5
2501080050	Aviation - Gas Stations	Stage 1: Total	61.7
2501080100	Aviation - Gas Stations	Stage 2: Total	2.3
N/A	**Total**	**N/A**	**73.5**

Waste Disposal, Treatment, and Recovery

This category includes precursor emissions from waste disposal, treatment, and recovery in the PM-2.5 NAA, that were not included as permitted sources. Spatial surrogates used to allocate county-level 2023 NEI emissions to the PM-2.5 NAA include total population. This category type was assumed to occur uniformly throughout the year. Therefore, daily emissions were developed by dividing the annual emissions by 365 days per year. Table II-31 and Table II-32 summarize annual and daily precursor emissions from waste disposal, treatment, and recovery in the PM-2.5 NAA. Activities associated with the burning of waste, e.g. land clearing debris, are reported in the open burning section.

Table II-31 2023 Annual precursor emissions from waste disposal, treatment, and recovery in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	SCC Level	NH_3	VOC
2680003000	Greenwaste Composting	100% Green Waste (e.g., residential or municipal yard wastes) All Processes	0.74	5.25

Table II-32 2023 Daily precursor emissions from waste disposal, treatment, and recovery in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	SCC Level	NH_3	VOC
2680003000	Greenwaste Composting	100% Green Waste (e.g., residential or municipal yard wastes) All Processes	4.1	28.8

Wildfires

Wildfire data for Pinal County was provided by the Arizona Department of Environmental Quality (ADEQ). Location data were filtered as applicable to the PM-2.5 NAA. This category type was assumed to occur uniformly throughout the year. Therefore, daily emissions were developed by dividing the annual emissions by 365 days per year. Table II-34 and Table II-35 summarize annual and daily PM-2.5 and precursor emissions from wildfires in the PM-2.5 NAA.

Table II-33 2023 Annual PM-2.5 and precursor emissions from wildfires in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	SCC Level	PM-2.5	NH_3	NO_X	VOC	SO_2
2810072001	Fires - Wildfires	Grassland Wildfires - Smoldering+Flaming	0.65	0.06	0.05	0.95	0.07
2810073001	Fires - Wildfires	Shrubland Wildfires - Smoldering+Flaming	6.63	0.93	1.18	10.47	0.44
2810073002	Fires - Wildfires	Shrubland Wildfires - CWD Residual Smoldering	1.46	0.02	0.00	1.70	0.00
2810073003	Fires - Wildfires	Shrubland Wildfires - Duff Residual Smoldering	0.09	0.01	0.00	0.46	0.00
N/A	**Total**	**N/A**	**8.83**	**1.02**	**1.23**	**13.58**	**0.51**

Table II-34 2023 Daily PM-2.5 and precursor emissions from wildfires in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	SCC Level	PM-2.5	NH_3	NO_X	VOC	SO_2
2810072001	Fires - Wildfires	Grassland Wildfires - Smoldering+Flaming	3.6	0.3	0.3	5.2	0.4
2810073001	Fires - Wildfires	Shrubland Wildfires - Smoldering+Flaming	36.3	5.1	6.5	57.4	2.4
2810073002	Fires - Wildfires	Shrubland Wildfires - CWD Residual Smoldering	8.0	0.1	0.0	9.3	0.0
2810073003	Fires - Wildfires	Shrubland Wildfires - Duff Residual Smoldering	0.5	0.1	0.0	2.5	0.0
N/A	**Total**	**N/A**	**48.4**	**5.6**	**6.7**	**74.4**	**2.8**

5. Open Burning

The PCAQCD provided activity and emissions data on open burning in the nonattainment area for four categories: (1) agricultural; (2) commercial; (3) residential; and (4) land clearing. PCAQCD provided an overview of the open burning emissions in 2023 for the PM-2.5 NAA using local data. In addition, PCAQCD provided the methodology for data analysis.

In order to estimate open burning emissions for the year 2023, permit counts data were retrieved from Accela to evaluate three-day, one month, and special permits as shown in Table II-36.

Table II-35 Permit counts by open burning type in 2023

Open Burning Type	Number of Permits
One Month Large Commercial	3
One Month Small Commercial	6
One Month Large Residential	31
One Month Small Residential	55
Three-Day Residential	28
Land Clearing	4

Because many permittees did not report the amount of material burned, if a record did not indicate material amount, to be conservative, each record was assumed to have the maximum allowable material burned. For instance, a small scale one month burn was assumed to be nine cubic yards of material burned. Emissions were assessed by activity type using the following equation:

$$E = A \times FL \times EF$$

where: E = PM-2.5 and VOC emissions (tons/year),

A = acreage of permitted lands for burning,

FL = fuel loading factor (3.2 tons/acre for land clearing and agricultural acres and 200 lb/cu yd for residential and commercial open burning)

EF = emission factor (15 lbs/ton and 9 lbs/ton for PM-2.5 and VOC respectively from EPA AP-42 Chapter 2.5)

Table II-37 and Table II-38 present the estimated acreage of permitted lands for burning and fuel loading factors in the PM-2.5 NAA, respectively.

Table II-36 Total acreage of permitted lands for burning in the PM-2.5 NAA

Agriculture (acres)	Commercial (cu yd)	Residential (cu yd)	Land Clearing (acres)
1,595	57	1,170	63

Table II-37 Fuel loading factors by open burning category in the PM-2.5 NAA (tons)

Agriculture	Commercial	Residential	Land Clearing
5,104.0	5.7	117.0	201.6

There were 211 days during which open burning was permitted for residential and commercial permittees. To calculate daily emissions, the total emissions were divided by 211. Table II-39 summarizes the annual and daily PM-2.5 and VOC emissions from open burning in the PM-2.5 NAA.

Table II-38 2023 Annual and daily PM-2.5 and VOC emissions from open burning in the PM-2.5 NAA

Open Burning Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
Agriculture	38.28	362.8	22.97	217.7
Commercial	0.04	0.4	0.03	0.2
Residential	0.88	8.3	0.53	5.0
Land Clearing	1.51	14.3	0.91	8.6
Total	**40.71**	**385.9**	**24.43**	**231.5**

6. Unpaved Parking

Fugitive dust PM-2.5 emissions from vehicles traveling on unpaved parking lot surfaces are based on unpaved parking lot acreage, vehicle activity on unpaved parking lots, emission rates from AP-42, and methodologies developed for the Maricopa County Air Quality Department (MCAQD) 2023 Periodic Emissions Inventory for PM-10 (MCAQD, 2026). The MCAQD methodology estimated dust emissions from unpaved parking lots with the assumption that emissions would be limited in the urban areas and would mostly be attributable to vacant areas and areas under development.

The MCAQD methodology estimated that eight percent of the vacant land in urban areas is disturbed and thirty percent of the land under development is disturbed. Due to the rural nature of the PM-2.5 NAA, it was assumed that unpaved parking lots are equally likely to occur on both urban and rural lands. As such, all vacant lands within the PM-2.5 NAA, as opposed to just urban vacant lands, were considered as part of emission estimates. This will likely result in a conservative, over-estimate of unpaved parking PM-2.5 emissions.

GIS was applied to MAG land use data to estimate that there are 56,804 acres of vacant land and 1,547 acres of land under residential and non-residential development in the PM-2.5 NAA. Multiplying the vacant disturbed percentages by these land areas produces:

$$56{,}804\ acres \times 0.08$$

$$= 4{,}544\ acres\ of\ vacant\ disturbed\ urban\ land\ in\ the\ PM{-}2.5\ NAA$$

$$1{,}547\ acres \times 0.30$$

$$= 464\ acres\ of\ vacant\ disturbed\ land\ under\ development\ in\ the\ PM{-}2.5\ NAA$$

Summing the vacant disturbed urban acres and areas under development produces a total of 5,008 acres of vacant disturbed land in the PM-2.5 NAA. In estimating fugitive dust emissions from unpaved parking lots, the MAG Serious Area PM-10 Plan assumed that 24 percent of the disturbed vacant non-agricultural land is devoted to unpaved parking areas (MAG, 2000). Applying this percentage to the acres of vacant disturbed land results in 1,202 acres of unpaved parking lots in the PM-2.5 NAA.

The MAG Serious Area PM-10 Plan also assumed that the average size of an unpaved parking lot is 625 square meters (i.e., 0.154 acres), an average of ten vehicles travel on each lot per day, and each vehicle travels an average distance of 0.031 miles on a lot. Multiplying 10 vehicles per day by 0.031 miles per vehicle and dividing by 0.154 acres produces 2.013 vehicle miles of travel (VMT) per acre per day. Multiplying 2.013 VMT per acre per day by 1,202 acres yields 2,420 VMT per day on unpaved parking lots in the PM-2.5 NAA.

The emission factors for unpaved parking lots were derived from the AP-42 equation for unpaved industrial roads (EPA, 2006); assuming a silt content of 10.75 percent (average of silt content from public and private unpaved roads), an average vehicle weight of 2.44 tons in the

PM-10 NAA (derived from 2023 vehicle registration data and traffic on arterials), and accounting for days of the year in 2023 with precipitation of at least 0.01 inches (29 days). The resultant AP-42 emission factor is 0.1140 pounds per mile for PM-2.5.

This AP-42 emission factor was applied to the unpaved parking lot VMT of 2,420 to obtain uncontrolled PM-2.5 daily emissions (275.7 pounds). Controlled daily PM-2.5 emissions from unpaved parking lots were calculated by applying the 2023 assumed control effectiveness (42%) of rules adopted by the PCAQCD to limit PM-10 emissions from unpaved parking lots as described in the 2023 Five Percent Particulate Plan for PM-10 for the West Pinal County Nonattainment Area (MAG, 2023) for a total of 159.9 pounds per day. As shown in Table II-40, the pounds per day were converted to annual emissions, assuming 365 days in 2023, to obtain 29.19 tons per year of PM-2.5.

Table II-39 2023 Annual and daily PM-2.5 emissions from vehicles traveling on unpaved parking lots in the PM-2.5 NAA

Source Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Unpaved Parking	29.19	159.9

7. Windblown Dust

PM-2.5 emissions from windblown dust in 2023 are estimated indirectly using concentration and meteorological data from the Hidden Valley monitor. The process to derive PM-2.5 emissions is accomplished through two primary steps. First, the PM-10 windblown dust contribution was estimated from five-minute meteorological and PM-10 data, as reliable five-minute PM-2.5 concentration data is unavailable. Second, monitoring hours at the Hidden Valley monitor were classified by the number of five-minute records meeting the high-wind threshold (12 mph) and the PM-10 windblown dust contribution was scaled to PM-2.5. Details on this process are discussed below.

PM-10 Windblown Dust Emission Calculations

The percentage of PM-10 attributable to windblown dust at Hidden Valley was estimated following MCAQD simplified 2023 Periodic Emissions Inventory (PEI) methodology. Five-minute time stamps during 2023 with wind speeds ≥12 mph — the established threshold for windblown dust generation in Maricopa County — were first identified. PM-10 concentrations recorded at those time stamps were then summed and divided by the sum of all five-minute PM-10 concentrations measured during 2023 to estimate the windblown dust contribution.

Figure II-2 shows the 2023 five-minute PM-10 record at Hidden Valley summarized two ways. The top panel plots daily accumulated PM-10 concentrations, comparing the all-periods total to the subset measured during winds ≥12 mph; high-wind concentrations accounted for 7.6% of

the annual total (642,724 of 8,464,320 µg/m^3). The bottom panel plots daily record counts, with all-periods data completeness near 100% throughout the year (101,226 valid five-minute observations, 96.3% data capture) and high-wind records representing 4.8% of total observations.

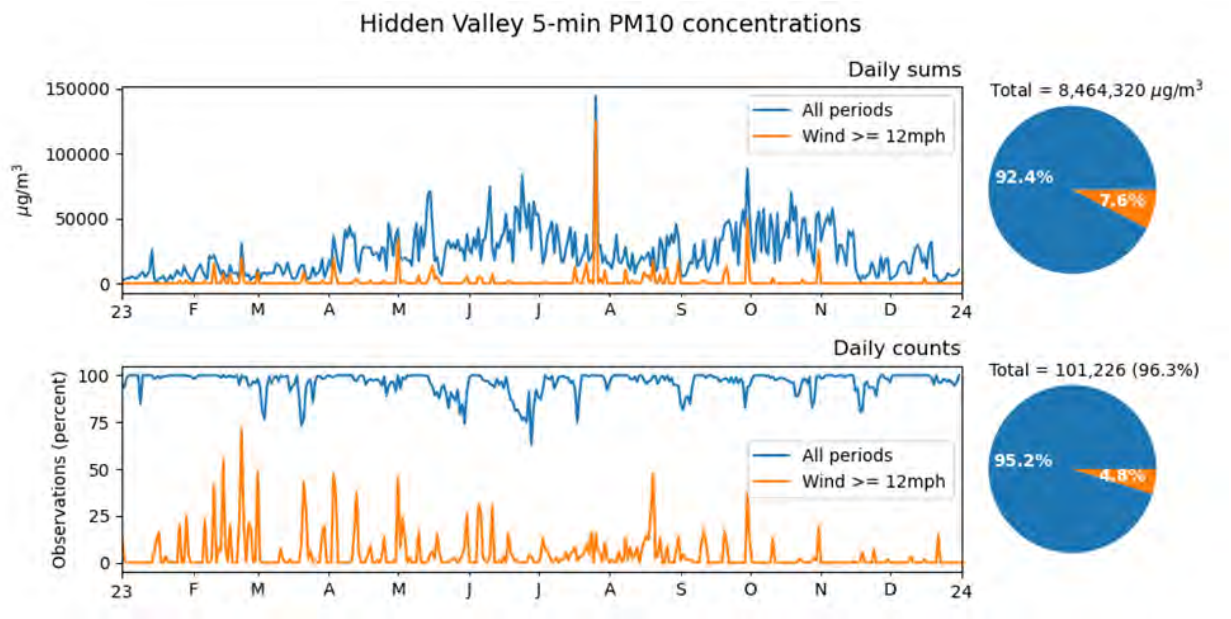


Figure II-2 2023 Daily accumulated PM-10 concentrations and daily sample counts at Hidden Valley from five-minute data, with high-wind (≥12 mph) contribution

PM-10 and PM-2.5 Windblown Dust Contributions by Hourly Count of High-Wind Five-Minute Records

Each hour in 2023 was classified by the number of its twelve five-minute records that met the high-wind threshold. The "≥N" rows in Table II-41 represent the cumulative subset of hours containing at least N high-wind records. For example, the ≥1 row includes any hour with at least one high-wind five-minute record, with cumulative hourly PM-10 of 66,291 µg/m^3, while the ≥12 row includes only hours in which all twelve five-minute records met the threshold, with cumulative hourly PM-10 of 24,741 µg/m^3. The total hourly PM-10 across all hours in 2023 was 612,237 µg/m^3, and the share of annual PM-10 in each row was computed against this denominator.

Table II-40 2023 Cumulative hourly PM-10 and PM-2.5 windblown dust shares at Hidden Valley by ≥N threshold of high-wind five-minute records per hour

High-Wind 5-Min Records per Hour (≥N)	Cumulative Hourly PM-10 (µg/m³)	Share of Annual PM-10	PM-10 Scaling Factor (vs. Overall 7.6%)	Cumulative Hourly PM-2.5 (µg/m³)	Share of Annual PM-2.5	Adjusted PM-2.5 Share
1	66,291	10.83%	1.42	6,912	8.53%	5.98%
2	58,746	9.60%	1.26	5,821	7.18%	5.69%
3	53,398	8.72%	1.15	5,211	6.43%	5.60%
4	50,401	8.23%	1.08	4,780	5.90%	5.44%
5	43,566	7.12%	0.94	4,115	5.08%	5.42%
6	40,272	6.58%	0.87	3,755	4.63%	5.35%
7	37,562	6.14%	0.81	3,510	4.33%	5.36%
8	34,618	5.65%	0.74	3,214	3.96%	5.33%
9	33,509	5.47%	0.72	3,130	3.86%	5.36%
10	32,178	5.26%	0.69	2,969	3.66%	5.30%
11	28,592	4.67%	0.61	2,683	3.31%	5.39%
12	24,741	4.04%	0.53	2,237	2.76%	5.19%
Total	**612,237**	**7.60%**	**N/A**	**81,065**	**N/A**	**N/A**

The ≥1 threshold gives a share of 10.83%, which overestimates the windblown dust contribution because it includes substantial non-windblown PM-10 mass from hours that were only briefly above the wind threshold. Conversely, the ≥12 threshold gives a share of 4.04%, which underestimates the contribution because it excludes hours containing high-wind dust loading in only part of the hour. The five-minute analysis established the overall windblown PM-10 contribution at Hidden Valley as 7.60%; PM-10 scaling factors were therefore calculated as the ratio of each row's share of annual PM-10 to this 7.60% baseline.

The same hourly classification was applied to PM-2.5 to obtain the corresponding cumulative PM-2.5 mass and share of annual PM-2.5 in each ≥N row of Table II-41. Total hourly PM-2.5 across all hours in 2023 was 81,065 µg/m^3. The ≥1 row contains 6,912 µg/m^3 of cumulative PM-2.5, representing 8.53% of the annual total, while the ≥12 row contains 2,237 µg/m^3, or 2.76%. As with PM-10, the ≥1 share overestimates the windblown PM-2.5 contribution and the ≥12 share underestimates it, because both retain the dependence on how densely high-wind records are distributed within each hour.

To remove this dependence, the PM-2.5 scaling factors derived from the PM-10 analysis were used to adjust the PM-2.5 shares. Each row's share of annual PM-2.5 was divided by its corresponding PM-10 scaling factor, producing the adjusted PM-2.5 share shown in the final column of Table II-41. The adjusted shares are stable across the ≥N threshold, ranging from

5.19% to 5.98% with a central value near 5.4%. From the N≥4 to N≥11 range of values for the adjusted PM-2.5 share of the wind-blown dust, the median value at 5.36% is selected to represent the estimated windblown dust contribution to PM-2.5 at Hidden Valley in 2023. Applying the same general methodology used by MCAQD, the remaining 94.64% of ambient PM-2.5 at Hidden Valley in 2023 is attributed to sources other than windblown dust.

As shown in Table II-42, because PM-2.5 emissions from all non-windblown dust categories total 1,270.16 tons/year, the implied total PM-2.5 inventory is 1,342.10 tons/year. The windblown dust portion is therefore 5.36%, or 71.94 tons/year. Dividing by 365 days per year and converting to pounds, the estimated daily windblown dust is 394.2 lbs/day.

Table II-41 2023 Annual and daily PM-2.5 windblown dust emissions in the PM-2.5 NAA

Category	Emission Shares	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Other Sources	94.64%	1,270.16	N/A
Windblown Dust	5.36%	71.94	394.2
Total	**100%**	**1,342.10**	**N/A**

C. Nonroad Mobile Sources

Nonroad mobile sources are vehicles or equipment that move (or are moved) within the 12-month 2023 period and are not licensed or certified as highway vehicles. Nonroad vehicles and equipment fall into the following categories:

- Agricultural equipment, such as tractors, combines and balers;
- Commercial equipment, such as generators and pumps;
- Construction equipment, such as graders, back hoes and trenchers;
- Industrial equipment, such as forklifts and sweepers;
- Lawn and garden equipment, such as leaf blowers and lawn mowers;
- Logging equipment (not present in the PM-2.5 NAA);
- Oil field equipment (not present in the PM-2.5 NAA);
- Pleasure craft, such as power boats and personal watercraft (not present in the PM-2.5 NAA);
- Railway maintenance equipment, such as rail straighteners;
- Recreational equipment, such as all-terrain vehicles and off-road motorcycles;
- Underground mining equipment (not present in the PM-2.5 NAA);
- Locomotives, such as switching and line-haul trains;
- Aircraft, such as jet- and piston-engine planes; and
- Airport ground support equipment (GSE), such as baggage tugs and terminal tractors, and auxiliary power units (APUs).

PM-2.5 and precursor emissions from vehicles or equipment not licensed or certified as highway vehicles were calculated using EPA's MOVES5 model, except for the emissions from aircraft, GSE, and APUs in airport, which were calculated using EPA's AEDT model.

1. MOVES5 Model Sources

For most nonroad mobile source categories (except airport GSE, APUs, aircraft, and locomotives), the EPA Motor Vehicle Emission Simulator (MOVES5) model was used to produce PM-2.5 and precursor emission estimates. The MOVES5 model generates emissions at the county level. MOVES5 was run for the year 2023, with local meteorology (Casa Grande) and local fuel parameters (RVP for Area C). Spatial surrogates based on the MAG 2024 land use data set were used to allocate the annual and daily PM-2.5 and precursor emissions for Pinal County to the PM-2.5 NAA.

A summary of annual and daily MOVES5 nonroad mobile source emissions in the attainment year 2023 is provided in Table II-43 and Table II-44. Annual emissions reported in Table II-43 are the sum of all daily weekday or weekend emissions chosen according to calendar day. Daily

emissions reported in Table II-44 are computed separately for each category, using either weekday or weekend emissions, whichever is higher for that category.

Table II-42 2023 Annual PM-2.5 and precursor emissions from nonroad mobile sources in the PM-2.5 NAA (tons/year)

Nonroad Mobile Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Agricultural	3.35	0.07	41.79	4.12	0.02
Commercial	0.24	0.00	2.84	4.42	0.00
Construction	6.66	0.25	76.27	18.40	0.08
Industrial	0.07	0.01	2.42	0.26	0.00
Lawn & Garden	2.28	0.03	6.22	38.79	0.02
Railway Maintenance	0.03	0.00	0.25	0.05	0.00
Recreation	0.19	0.00	0.68	7.61	0.00
Total	**12.82**	**0.36**	**130.47**	**73.65**	**0.12**

Table II-43 2023 Daily PM-2.5 and precursor emissions from nonroad mobile sources in the PM-2.5 NAA (lbs/day)

Nonroad Mobile Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Agricultural	21.3	0.5	266.2	25.9	0.2
Commercial	1.6	0.0	18.2	27.4	0.0
Construction	42.6	1.5	488.1	117.0	0.5
Industrial	0.4	0.0	14.2	1.6	0.0
Lawn & Garden	15.5	0.3	42.8	261.1	0.0
Railway Maintenance	0.2	0.0	1.7	0.4	0.0
Recreation	1.7	0.0	5.8	61.5	0.0
Total	**83.3**	**2.3**	**837.0**	**494.9**	**0.7**

2. Airport

For aircraft, APUs, and airport GSE categories, the Federal Aviation Administration (FAA) Aviation Environmental Design Tool (AEDT) Version 3g was used to produce emission estimates for Ak-Chin Regional and Arizona Soaring, the only two airports located within the PM-2.5 NAA. AEDT models aircraft performance in space and time to estimate noise, fuel consumption, emissions, and air quality impacts. The model uses geographic information system (GIS) and relational database technology to support studies ranging from a single flight at an airport to regional, national, and global aviation scenarios. AEDT is used by the U.S. government for regulatory studies, research, domestic aviation system planning, and aviation environmental policy analysis.

For this analysis, AEDT 3g was used to calculate aircraft, ground support equipment (GSE), and auxiliary power unit (APU) emissions of PM-2.5, NH_3, NO_X, VOC, and SO_2 using 2023 airport operational data. Because AEDT computes emissions for each aircraft and engine type and reports the results by aircraft category, the relevant categories depend on the types of operations conducted at each airport. Because the applicable aircraft category for both Ak-Chin Regional and Arizona Soaring is general aviation, this analysis is limited to the general aviation category. General aviation includes aircraft operating on an unscheduled basis for recreational flying, personal transportation, business travel, and other non-commercial purposes.

The AEDT model estimates annual airport emission inventories using three main input datasets: airport information, including location, runway, and taxi-time data; fleet information, including aircraft/engine types and arrival and departure flight profiles; and local activity data, including the number of landing and takeoff (LTO) operations at each airport.

Local 2023 aircraft operational data are a critical input to the AEDT 3g model. According to the Federal Aviation Administration's Terminal Area Forecast (TAF) website (https://taf.faa.gov/), 2023 general aviation operations at Ak-Chin Regional totaled 34,675. For Arizona Soaring, the FAA 5010 Airport Master Records database provided the 2023 general aviation operations total of 25,200. The FAA Traffic Flow Management System Counts (TFMSC) database provided the 2023 fleet mix for Ak-Chin Regional. Fleet information for Arizona Soaring was obtained from the airport's website (https://azsoaring.com/training/). The resulting 2023 annual and daily airport emissions for Ak-Chin Regional and Arizona Soaring are presented in Table II-45 and Table II-46, respectively.

Table II-44 2023 Annual airport emissions within the PM-2.5 NAA (tons/year)

Airport	FAA LID	Source	PM-2.5	NH_3	NO_X	VOC	SO_2
Ak-Chin Regional	A39	GSE+APUs	0.00	-	0.00	0.00	0.00
Ak-Chin Regional	A39	Aircraft	0.20	-	0.37	2.66	0.27
Arizona Soaring	E68	GSE+APUs	0.00	-	0.00	0.00	0.00
Arizona Soaring	E68	Aircraft	0.16	-	0.13	2.71	0.31
Total	**N/A**	**N/A**	**0.36**	**-**	**0.50**	**5.37**	**0.58**

Table II-45 2023 Daily airport emissions within the PM-2.5 NAA (lbs/day)

Airport	FAA LID	Source	PM-2.5	NH_3	NO_X	VOC	SO_2
Ak-Chin Regional	A39	GSE+APUs	0.0	-	0.0	0.0	0.0
Ak-Chin Regional	A39	Aircraft	1.1	-	2.0	14.6	1.5
Arizona Soaring	E68	GSE+APUs	0.0	-	0.0	0.0	0.0
Arizona Soaring	E68	Aircraft	0.9	-	0.7	14.9	1.7
Total	**N/A**	**N/A**	**2.0**	**-**	**2.7**	**29.4**	**3.2**

3. Locomotive

2023 Locomotive emissions for Pinal County were obtained from EPA's 2023 NEI. To estimate emissions within the PM-2.5 NAA, the county-wide totals were spatially allocated using a railroad-acreage surrogate. The PM-2.5 NAA contains 407 acres of railroad out of 4,487 acres county-wide, yielding an allocation factor of 0.0907.

Table II-47 presents the 2023 annual locomotive emissions for Pinal County by SCC (PM-2.5, NH_3, NO_X, VOC, and SO_2), along with the annual emission totals allocated to the PM-2.5 NAA. Table II-48 shows the corresponding daily emissions for the PM-2.5 NAA.

Table II-46 2023 Annual locomotive emissions for Pinal County and the PM-2.5 NAA (tons/year)

SCC	Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2285002006	Locomotive Class 1 Operations	21.14	0.59	863.64	34.72	0.67
2285002007	Locomotive Class 2&3 Operations	3.27	0.05	111.76	5.32	0.06
2285002008	Locomotive Passenger	0.79	0.02	24.26	1.31	0.02
N/A	**Pinal County Total**	**25.20**	**0.66**	**999.66**	**41.35**	**0.75**
N/A	**PM-2.5 NAA**	**2.29**	**0.06**	**90.77**	**3.75**	**0.07**

Table II-47 2023 Daily locomotive emissions for the PM-2.5 NAA (lbs/day)

Description	PM-2.5	NH_3	NO_X	VOC	SO_2
PM-2.5 NAA	12.5	0.3	497.4	20.6	0.4

D. Onroad Mobile Sources

Onroad mobile source emissions include PM-2.5 and precursor emissions from three main categories: (1) exhaust, brake wear and tire wear from onroad vehicle travel; (2) paved road fugitive dust; and (3) unpaved road fugitive dust. PM-2.5 and precursor emissions from exhaust, brake wear and tire wear were calculated using EPA's MOVES5 model. Paved and unpaved road fugitive dust emissions were calculated using EPA's AP-42 equations.

1. MOVES5 Model Sources – Exhaust, Brake Wear, and Tire Wear

This section describes the methodology used to estimate on-road mobile source emissions based on local travel activity data and MOVES5, EPA's state-of-the-art emissions modeling platform for generating emissions for on-road and off-network motor vehicles.

For the PM-2.5 NAA, the on-road emissions inventory was developed using MOVES5 in conjunction with MAG MOVESLINK5, a modeling framework designed to prepare MOVES-ready input datasets. The MAG MOVESLINK5 system processes transportation network assignment outputs generated by the MAG Activity Based Model (ABM) for the PM-2.5 NAA. MOVESLINK5 incorporates Geographic Information Systems (GIS) technology to manage and process geospatial network and emissions data and is implemented using the Python programming language.

To estimate onroad exhaust, evaporative, refueling, and extended idling emissions, MOVES5 was executed using local input data representing weekday and weekend conditions for each month. Modeling scenarios were configured at the county scale for all months, using the inventory calculation setting with monthly output aggregation. MOVES5 requires a comprehensive set of local inputs, including inspection and maintenance (I/M) programs, meteorological data, vehicle populations, source type age distribution, annual vehicle miles traveled (VMT), monthly/daily/hourly fractions, road type distribution, average speed distribution, fuel data, and alternative vehicle and fuel technologies (AVFT) data (EPA, 2024).

Local MOVES5 inputs were developed using data from multiple agencies and sources, including the Arizona Department of Transportation (ADOT), the Arizona Department of Agriculture (AZDA), the Maricopa Association of Governments (MAG) Transportation Division, and the National Centers for Environmental Information (NCEI). These datasets ensure that the emissions inventory reflects region-specific travel behavior, fleet characteristics, and environmental conditions.

I/M Programs

Because the PM-2.5 NAA lies outside of Area A, the No I/M Program option was applied.

Meteorological Data

MOVES5 requires hourly temperature and relative humidity data for each month of the year. Meteorological data for 2023 at the Casa Grande Municipal Airport were obtained from the

National Centers for Environmental Information Local Climatological Data (NCEI, 2023).

Source Type Population

In MOVES5, off-network emissions - including start, evaporative, and extended idle emissions - are determined directly by the vehicle population within the analysis area. The Maricopa Association of Governments (MAG) contracted with Eastern Research Group, Inc. (ERG) to decode vehicle identification numbers (VINs) from Arizona registration records and classify vehicles registered in Pinal County by vehicle type, fuel type, and model year for use in MOVES.

Vehicle source type population estimates were developed using ERG's vehicle classification script, the Arizona Department of Transportation (ADOT) December 2023 vehicle registration dataset, and transit bus information provided by ADOT. The ERG script decodes the VIN for each vehicle in the ADOT dataset, extracts vehicles registered in Pinal County, removes non-road equipment or trailers, eliminates duplicate records, assigns each vehicle to the appropriate MOVES source type category, and aggregates the results to produce MOVES-ready source type population totals for Pinal County in 2023.

The vehicle population for the PM-2.5 NAA was then estimated by scaling the countywide vehicle population according to the ratio of the nonattainment area's human population to that of Pinal County.

Source Type Age Distribution

The source type age distribution was developed using ERG's vehicle classification scripts, the ADOT December 2023 vehicle registration data, transit bus information provided by ADOT, and the MOVES5 national default age distributions for Pinal County. The ERG script generated age distributions for most MOVES source types based on VIN-decoded registration data, with the exception of transit buses (source type 42) and long-haul trucks (source types 53 and 62). The age distribution for transit buses was derived from the local transit bus data supplied by ADOT, while the age distribution for long-haul trucks was obtained from the MOVES5 national default age distribution for Pinal County.

Annual Vehicle Miles Traveled (VMT)

VMT was used to estimate onroad exhaust and evaporative emissions. Annual average daily VMT values were derived from the average weekday VMTs produced by the MAG Activity Based Model (ABM), as provided by the MAG transportation modeling staff. The traffic assignment data were clipped using GIS to calculate VMT specifically to the PM-2.5 NAA. Annual VMT was then obtained by multiplying the annual average daily VMT by the number of days in 2023.

Road Type Distribution

Local road type distributions were derived from the MAG ABM transportation network assignment data, which provide VMT by local road type and ABM vehicle class. These ABM assignment data supplied all road type distribution inputs required for the MOVES runs. The methods used to map ABM area and facility types to MOVES road types, and to map ABM vehicle classes to the MOVES source types, are presented in Table II-50 and Table II-51,

respectively.

Table II-50 Match table for ABM area/facility types and MOVES road types

MAG ABM Area Type	MAG ABM Facility Type	MOVES Road Type
5. Rural	00. Freeway HOV Lane 01. Freeway 07. Unmetered Ramp 08. Freeway Metered Ramp 16. Freeway HOV Link	2. Rural Restricted Access
	02. Expressway 03. Collector 04. 6 Legged Arterial 05. Centroid Connector 06. Major Arterial 09. CD Road 10. Parkway 11. Unpaved Road	3. Rural Unrestricted Access
1. CBD 2. Urban 3. Urban Fringe 4. Suburban	00. Freeway HOV Lane 01. Freeway 07. Unmetered Ramp 08. Freeway Metered Ramp 16. Freeway HOV Link	4. Urban Restricted Access
	02. Expressway 03. Collector 04. 6 Legged Arterial 05. Centroid Connector 06. Major Arterial 09. CD Road 10. Parkway 11. Unpaved Road	5. Urban Unrestricted Access

Table II-51 Match table for ABM vehicle classes and MOVES source types

MAG ABM Vehicle Class	Source Type
MC (Motorcycle)	11. Motorcycle
LDV (Light Duty Vehicle)	21. Passenger Car 31. Passenger Truck
LGT (Light Commercial Truck)	32. Light Commercial Truck
BUS (Transit Bus)	42. Transit Bus
MED (Medium Duty Vehicle)	51. Refuge Truck 52. Single Unit Short-haul Truck 53. Single Unit Long-haul Truck 54. Motor Home
HVY (Heavy Duty Vehicle)	41. Other Buses 43. School Bus 61. Combination Short-haul Truck 62. Combination Long-haul Truck

VMT Fraction

Because VMT varies by month, day of week, and hour, MOVES5 requires month/day/hour VMT fractions as local inputs to allocate annual VMT to hourly VMT for each weekday, weekend day, and month. To develop VMT fractions, the 2022 traffic count data were obtained from the ADOT Transportation Data Management System (https://adot.public.ms2soft.com/tcds/). Five permanent traffic count stations along the freeway and four stations on arterial roads within Pinal County were used to derive the freeway and arterial VMT temporal fractions, respectively.

Average Speed Distribution

In MOVES5, vehicle power, speed, and acceleration significantly influence emissions for all pollutants. MOVES5 accounts for these effects by assigning activity to operating mode distributions, which are determined from the distribution of vehicle hours traveled (VHT) across sixteen speed bins. Local average speed estimates were developed by post-processing the MAG ABM transportation network assignment outputs, which provide link-level data for four time periods: AM (6:00-8:59), MD (9:00-13:59), PM (14:00-17:59), and NT (0:00-5:59 and 18:00-23:59). To construct the average speed distribution, VHT within the sixteen speed bins was aggregated separately for each hour of the day, source type, and road type. The resulting distributions were then normalized within each hour, source type, and road type to produce the final average speed distribution.

Fuel Data

For local fuel inputs, MOVES5 relies on three primary tables: fuelsupply, fuelformulation, and fuelusagefraction. The MOVES5 default fuel data for Pinal County were used for the PM-2.5 NAA. An additional adjustment to the fuelformulation table was required to ensure compliance with the regulatory Reid Vapor Pressure (RVP) specifications applicable to this region. The MOVES5 Fuels Wizard was used to modify the default gasoline fuel parameters using the regulatory RVP values provided by the Arizona Department of Agriculture (AZDA) Weights and Measures Services Division (WMSD). The regulatory RVP requirements for Area C, shown in Table II-52, were applied to the PM-2.5 NAA.

Table II-52 Regulatory RVP by month for gasoline in Area C

Month	Averaged RVP (psi)
January	13.5
February	13.5
March	11.5
April	10
May	10
June	7
July	7
August	7
September	7
October	10
November	11.5
December	13.5

Alternative Vehicle and Fuel Technologies (AVFT) Strategy

The AVFT table is used in MOVES5 to adjust fuel-type distributions to reflect local fleet characteristics, such as those derived from vehicle registration data. The AVFT table for the attainment year was developed using ERG's vehicle classification scripts, the ADOT December 2023 vehicle registration data for Pinal County, transit bus data from ADOT, and the MOVES5 national default AVFT. ERG's vehicle classification scripts generated AVFT values for most MOVES source types based on VIN-decoded registration data, with the exception of transit buses (source type 42) and long-haul trucks (source types 53 and 62). The AVFT table for transit buses was developed using local transit bus data provided by ADOT, while the AVFT values for long-haul trucks were taken from the MOVES5 national default AVFT.

The annual emissions were calculated by aggregating monthly onroad emissions derived by MOVES5. The daily emissions were calculated by dividing the annual emissions by 365 days. Table II-49 and Table II-50 summarize the annual and daily onroad mobile emissions within the PM-2.5 NAA.

Table II-48 2023 Annual PM-2.5 and precursor emissions from onroad mobile sources within the PM-2.5 NAA (tons/year)

Source Type	PM-2.5	NH_3	NO_X	VOC	SO_2
Motorcycle	0.01	0.02	0.46	11.59	0.00
Passenger Car	0.92	4.83	21.42	67.79	0.21
Passenger Truck	2.44	6.90	79.31	110.08	0.41
Light Commercial Truck	0.23	0.18	6.28	4.83	0.01
Other Buses	0.11	0.06	2.67	0.56	0.00
Transit Bus	0.00	0.01	0.19	0.12	0.00
School Bus	0.03	0.01	0.81	0.09	0.00
Refuse Truck	0.00	0.00	0.12	0.00	0.00
Single Unit Short-haul Truck	0.48	0.48	14.89	3.33	0.04
Single Unit Long-haul Truck	0.03	0.04	0.72	0.19	0.00
Motor Home	0.16	0.13	4.48	2.85	0.00
Combination Short-haul Truck	0.53	0.40	21.80	1.05	0.02
Combination Long-haul Truck	1.56	1.03	62.33	2.88	0.06
Total	**6.50**	**14.09**	**215.48**	**205.36**	**0.75**

Table II-49 2023 Daily PM-2.5 and precursor emissions from onroad mobile sources within the PM-2.5 NAA (lbs/day)

Source Type	PM-2.5	NH_3	NO_X	VOC	SO_2
Motorcycle	0.0	0.2	2.5	63.5	0.0
Passenger Car	5.1	26.5	117.4	371.5	1.2
Passenger Truck	13.4	37.8	434.7	603.4	2.3
Light Commercial Truck	1.2	1.1	34.4	26.4	0.0
Other Buses	0.7	0.2	14.6	3.1	0.0
Transit Bus	0.0	0.1	1.0	0.7	0.0
School Bus	0.1	0.1	4.4	0.5	0.0
Refuse Truck	0.0	0.0	0.7	0.0	0.0
Single Unit Short-haul Truck	2.7	2.7	81.6	18.2	0.2
Single Unit Long-haul Truck	0.2	0.2	3.9	1.0	0.0
Motor Home	0.9	0.7	24.7	15.6	0.0
Combination Short-haul Truck	2.9	2.2	119.5	5.7	0.1
Combination Long-haul Truck	8.7	5.7	341.6	15.7	0.3
Total	**35.9**	**77.5**	**1,181.0**	**1,125.3**	**4.1**

2. Paved Road Fugitive Dust

PM-2.5 emissions from re-entrained paved road dust were estimated using the AP-42 equations for paved road dust emissions (EPA, 2011), with inputs consistent with those described in the 2023 Five Percent Particulate Plan for PM-10 (MAG, 2023).

Fugitive dust emission factors for paved roads depend on silt loading and the average weight of vehicles traveling on the roadway. Paved roads were classified as freeways, high-traffic arterials (high ADT), and low-traffic arterials (low ADT) to reflect differences in silt loading. Arterials carrying fewer than 10,000 vehicles per average weekday were classified as low-traffic; all other non-freeway arterials were classified as high-traffic. The following silt loading values used in the 2023 Five Percent Plan were applied in this analysis: 0.02 for freeways, 0.067 for high-traffic arterials, and 0.23 for low-traffic arterials.

Average vehicle weights for freeways and arterials were derived from 2023 Pinal County vehicle registration data provided by ADOT. The number of days in 2023 with at least 0.01 inches of precipitation (29 days) was obtained from the AZMET station in City of Maricopa. Fugitive dust emission factors for paved roads were calculated using the following AP-42 equation:

$$E = k \times (sL)^{0.91} \times (W)^{1.02} \times \left(1 - \frac{P}{4N}\right)$$

where: *E = annual average fugitive dust PM-2.5 emission factor (g/mile),*
k = particle size multiplier (0.25 g/mile for PM-2.5),
sL = road surface silt loading (0.02 g/m2 for freeways, 0.067 g/m2 for high-traffic arterials, and 0.23 g/m2 for low-traffic arterials),
W = average weight of the vehicles traveling on the roads (11.22 tons on freeways and 2.44 tons on arterials),
P = number of "wet" days with at least 0.254 mm (0.01 inch) of precipitation (29 days in 2023), and
N = number of days in the year (365 days in 2023).

The 2023 vehicle miles traveled (VMT) by silt loading category were used to estimate paved road fugitive dust PM-2.5 emissions. Annual average daily VMT (AADT) by silt loading category for the PM-2.5 NAA were derived from the 2023 MAG ABM network assignment. Table II-51 presents the annual average fugitive dust PM-2.5 emission factors derived from the AP-42 equation along with the corresponding AADT values for the PM-2.5 NAA.

The 2023 PM-2.5 emissions from paved roads in the PM-2.5 NAA were calculated by multiplying the PM-2.5 emission factors by the AADT values, as shown in Table II-52.

Table II-50 2023 Fugitive dust PM-2.5 emission factors for paved roads and AADT for the PM-2.5 NAA

Silt loading category	PM-2.5 Emissions Factor (grams/mile)	AADT (miles/day)
Freeway	0.0821	91,598
High ADT Arterial	0.0520	212,296
Low ADT Arterial	0.1598	348,279

Table II-51 2023 Annual and daily PM-2.5 emissions from paved roads

Silt loading category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Freeway	3.03	16.6
High ADT Arterial	4.44	24.3
Low ADT Arterial	22.39	122.7
Total	**29.86**	**163.6**

In addition to the AP-42 emission factors for freeways, high ADT arterials, and low ADT arterials, the 2023 Five Percent Particulate Plan for PM-10 also includes paved road re-entrained dust emissions from asphalt rock dust palliative (ARDP) roads, commonly referred to as "chip-sealed" roads.

Consistent with the 2023 Five Percent Particulate Plan for PM-10, ARDP roads are assumed to emit re-entrained road dust at a rate 10 percent higher than traditionally paved roads, as chip-sealing is considered a paving treatment but requires more maintenance than conventional hot-mix asphalt. For purposes of applying the AP-42 paved road dust equation, ARDP roads were assigned to the low ADT arterial silt loading category because the Pinal County Air Quality Control District (PCAQCD) indicated that these roads carry fewer than 10,000 vehicles per average weekday.

PCAQCD provided 2017 AADT estimates for ARDP roads. Because the MAG ABM network assignments do not include AADT for ARDP facilities, 2023 ARDP AADT was estimated by applying the growth rate of low ADT arterials in the ABM network between 2017 and 2023 to the 2017 ARDP AADT values.

Table II-53 presents the annual average fugitive dust PM-2.5 emission factor for ARDP roads, derived using the AP-42 equation, along with the corresponding AADT values for the PM-2.5 NAA.

The 2023 PM-2.5 emissions from ARDP roads in the PM-2.5 NAA were calculated by multiplying the PM-2.5 emission factors by the AADT values, as shown in Table II-54.

Table II-52 2023 Fugitive dust PM-2.5 emission factors for ARDP roads and AADT for the PM-2.5 NAA

Silt loading category	PM-2.5 Emissions Factor (grams/mile)	AADT (miles/day)
ARDP Roads	0.1757	3,602

Table II-53 2023 Annual and daily PM-2.5 emissions from ARDP roads

Silt loading category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
ARDP Roads	0.25	1.4

Table II-55 summarizes the fugitive dust PM-2.5 emission totals for paved roads and ARDP roads in the PM-2.5 NAA.

Table II-54 2023 Annual and daily PM-2.5 emissions from paved and ARDP roads

Silt loading category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Paved Roads	29.86	163.6
ARDP Roads	0.25	1.4
Total	**30.11**	**165.0**

3. Unpaved Road Fugitive Dust

Unpaved road fugitive dust emissions have been estimated for (1) unpaved agricultural roads, (2) unpaved public, private and trail roads, and (3) unpaved test tracks. Attainment year PM-2.5 emissions from these three broad categories are described below.

Unpaved Agricultural Roads

Controlled PM-2.5 emissions from fugitive dust from unpaved agricultural (farm) roads located in the PM-2.5 NAA were calculated using a similar methodology as described in the 2023 Five Percent Plan.

Road segment data initially provided by PCAQCD for 2017 was reviewed and updated by MAG staff to isolate roads in the PM-2.5 NAA. The total number of unpaved agricultural roads in the PM-2.5 NAA based upon this data was calculated to be 1,006.9 miles.

Because travel on unpaved agricultural roads varies depending on the activity that is occurring in the adjacent fields, the ADEQ methodology divided the total unpaved agricultural road mileage into three categories: (1) non-harvest operations; (2) inspection operations; and (3)

harvest operations. The percentage split of the mileage amongst the three categories is based upon activity data provided to ADEQ from Pinal County farmers.

Additionally, the average daily trips and average speed of the vehicles traveling on unpaved agriculture roads varies within each of the three categories as is also based upon activity data provided to ADEQ from Pinal County farmers. Table II-56 contains the average daily trips, miles of unpaved roads, average speed and resulting vehicle miles traveled (VMT) for the three unpaved agricultural road categories.

Table II-55 2023 Average speed, average daily trips, miles of unpaved roads, and vehicle miles traveled for three unpaved agricultural road categories

Agricultural Road Category	Average Speed (mph)	Average Daily Trips	Miles of Unpaved Roads	Daily Vehicle Miles Traveled (VMT)
Non-Harvest	28.2	11.33	222.5	2,521
Inspection	28.2	11.33	682.7	7,735
Harvest	22.8	19.91	101.7	2,025
Total	**N/A**	**N/A**	**1,006.9**	**12,281**

EPA AP-42 Section 13.2.2 unpaved road fugitive dust emission factors were applied to the VMT to estimate the daily PM-2.5 emissions from unpaved agricultural roads in the PM-2.5 NAA. The unpaved road PM-2.5 emission factors were derived from the following EPA AP-42 Section 13.2.2 equation for publicly accessible unpaved roads:

$$E = \left[\frac{k \left(\frac{s}{12}\right)^{1} \left(\frac{S}{30}\right)^{0.5}}{\left(\frac{M}{0.5}\right)^{0.2}} - C \right] \left(1 - \frac{P}{N}\right)$$

where: *E = annual average particulate emission factor adjusted for natural mitigation (lb/mile),*
k = particle size multiplier for particle size range (0.18 lb/mile for PM-2.5),
s = surface material silt content (14.9%),
S = mean vehicle speed (mph),
M = surface material moisture content (0.8%),
C = emission factor for 1980s vehicle fleet exhaust, brake wear, and tire wear (0.00036 lb/mile for PM-2.5),
P = annual number of "wet" days with at least 0.254 mm (0.01 in) of precipitation (29 days in 2023), and
N = annual number of days (365 days in 2023).

Controlled PM-2.5 emissions from unpaved agricultural roads are the result of applying the emission reduction benefits from controls included in the 2023 Five Percent Plan to uncontrolled emissions. The rule effectiveness (RE) and control efficiency (CE) values were obtained from the

values utilized in the 2023 Five Percent Particulate Plan. A RE percentage of 60% and CE percentage of 62.5% were applied to obtain an overall control effectiveness rate of 37.4%. Table II-57 contains the resulting controlled annual and daily PM-2.5 emissions from the three unpaved agricultural road categories for 2023.

Table II-56 2023 Controlled annual and daily fugitive dust PM-2.5 emissions from unpaved agricultural roads

Agricultural Road Category	Annual Emissions (tons/year)	Daily Emissions (lbs/day)
Non-Harvest	52.24	286.3
Inspection	160.27	878.2
Harvest	37.71	206.6
Total	**250.23**	**1,371.1**

Unpaved Public, Private and Trail Roads

PCAQCD provided data on public, private, and unpaved trails within the West Pinal County Serious PM-10 nonattainment area. The data included a GIS file supplied in 2021 which mapped the location of all the 2017 unpaved public, private and trail roads within the PM-10 nonattainment area and additionally provided the mileage associated with these unpaved roads. The road segment data contained within the GIS file was reviewed and updated by MAG staff with new available paving information and 2023 aerial imagery, to reflect roads that have been paved through 2023. The file was then clipped to isolate only the roads present within the PM-2.5 NAA.

PCAQCD assigned an average daily trips (ADT) value for each individual unpaved public, private, and trail road. Within the category of public unpaved roads, five road type classifications (A-E) were established based upon ADT ranges, with Class A representing the lowest ADT roads and Class E representing the highest ADT roads. Classes A through E were assigned different average speed values based upon observed traffic speeds on representative roads. Additionally, unpaved public road ADT values for 2023 were generated by utilizing Paved Low-ADT Arterial VMT as a surrogate for growth. The growth factor of 1.298 was applied to the 2017 ADT values to produce the 2023 ADT values.

Within the category of private unpaved roads, four road type classifications were established: (1) non-irrigation roads; (2) principal canal roads; (3) Secondary canal roads; and (4) alleys. ADT on non-irrigation roads is based upon values assigned by PCAQCD. ADT on principal canal roads is assumed to be 15 and ADT on secondary canal roads is assumed to be 3, as provided in the 2023 Five Percent Plan. ADT on alleys is assumed to be 4 and all trails are assumed to have an ADT of 2, as these roads are usually only accessed by motorcycles and off-highway vehicles.

Average daily vehicle miles traveled on all unpaved public, private, and trail road segments were calculated by multiplying the assigned ADT values by the length in miles of the unpaved road

segment. Table II-58 contains the average daily trips, miles of unpaved roads, average speed and resulting vehicle miles traveled (VMT) for the unpaved public, private, and trail roads.

Table II-57 2023 Average speed, average daily trips, miles of unpaved roads, and vehicle miles traveled for unpaved public, private, and trail roads

Unpaved Road Category	Average Speed (mph)	Average ADT[a]	Miles of Unpaved Roads	Daily Vehicles Miles Traveled (VMT)
Public – Class A	29	21	1.75	37.15
Public – Class B	44	66	102.13	7,048.94
Public – Class C	37	130	1.26	163.32
Public – Class D	47	195	2.99	582.27
Public – Class E	40	736	1.90	1,401.54
Public – Total	**N/A**	**N/A**	**110.03**	**9,233.22**
Private – Non-Irrigation	25	27	270.21	7,324.63
Private – Principal Canal	25	15	102.11	1,531.68
Private – Secondary Canal	15	3	85.09	255.27
Private – Alleys	10	4	14.90	59.61
Private – Total	**N/A**	**N/A**	**472.32**	**9,171.19**
All Trails	**15**	**2**	**197.48**	**394.95**

a. The average ADT values are provided for information purposes only and have not been used to calculate daily VMT. Daily VMT is the sum of each individually calculated road segment VMT within each category.

EPA AP-42 Section 13.2.2 unpaved road fugitive dust emission factors were applied to the VMT in Table II-58 to estimate annual and daily PM-2.5 emissions from unpaved public, private, and trail roads in the PM-2.5 NAA. The unpaved road PM-2.5 emission factors were derived from the following AP-42 equation for publicly accessible unpaved roads:

$$E = \left[\frac{k \left(\frac{s}{12}\right)^{1} \left(\frac{S}{30}\right)^{0.5}}{\left(\frac{M}{0.5}\right)^{0.2}} - C \right] \left(1 - \frac{P}{N}\right)$$

where: E = annual average particulate emission factor adjusted for natural mitigation (lb/mile),
k = particle size multiplier for particle size range (0.18 lb/mile for PM-2.5),
s = surface material silt content (7.1% for unpaved public roads and 14.4% for unpaved private and trail roads),
S = mean vehicle speed (listed in Table II-58),
M = surface material moisture content (0.3%),
C = emission factor for 1980s vehicle fleet exhaust, brake wear, and tire wear (0.00036 lb/mile for PM-2.5),
P = annual number of "wet" days with at least 0.254 mm (0.01 in) of precipitation (29 days in 2023), and
N = annual number of days (365 days in 2023).

The resulting AP-42 emission factors for unpaved public, private and trail roads were then multiplied by the daily VMT for each category to produce daily emissions. Annual emissions were obtained by multiplying daily emissions by 365 days per year.

The 2023 annual and daily emissions from unpaved public, private, and trail roads as calculated per the methodology described above were assumed to capture the unpaved road controls included in the 2023 Five Percent Plan. Additionally, no credit was taken for the implementation of controls for irrigation districts. Irrigation districts are required to select a Best Management Practice (BMP) for canal roads. As no reliable data was available on the use of BMPs on canal roads, to be conservative, no credit was taken for the implementation of BMPs on canal roads. Table II-59 summarizes the annual and daily PM-2.5 emissions from unpaved public, private, and trail roads in the PM-2.5 NAA.

Table II-58 2023 Annual and daily fugitive dust PM-2.5 emissions from unpaved public, private, and trail roads

Source Category	Annual Emissions (tons/year)	Daily Emissions (lbs/day)
Public – Class A	0.72	4.0
Public – Class B	168.74	924.6
Public – Class C	3.58	19.6
Public – Class D	14.41	78.9
Public – Class E	31.99	175.3
Public – Total	**219.44**	**1,202.4**
Private – Non-Irrigation	268.29	1,470.1
Private – Principal Canal	56.10	307.4
Private – Secondary Canal	7.24	39.7
Private – Alleys	1.38	7.6
Private – Total	**333.02**	**1,824.8**
All Trails	**11.20**	**61.4**

Unpaved Test Tracks

Two vehicle manufacturers (Nissan and Volkswagen) operate vehicle testing facilities in the nonattainment area which include testing on unpaved tracks at those facilities. ADEQ developed annual and daily 2018 PM-2.5 emissions from unpaved test tracks as presented in the 2023 Five Percent Plan. Annual and daily PM-2.5 emissions are based on activity and control data received from the two testing facilities.

No additional or updated information on unpaved test tracks within the PM-2.5 NAA has been compiled. As such, the 2018 PM-2.5 emissions from unpaved test tracks included in the 2023 Five Percent Plan are assumed to be representative of 2023 PM-2.5 emissions. Table II-60 summarizes the 2023 annual and daily fugitive dust PM-2.5 emissions from unpaved test tracks in the PM-2.5 NAA.

Table II-59 2023 Annual and daily fugitive dust PM-2.5 emissions from unpaved test tracks in the PM-2.5 NAA

Source Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Unpaved Test Tracks	26.42	144.4

E. Biogenic Sources

Biogenic emissions of PM-2.5 precursors, including volatile organic compounds (VOCs) from vegetation and nitrogen monoxide (NO) from soil, were estimated by the Model of Emissions of Gases and Aerosols from Nature (MEGAN) v3.2 within the MAG 4 km modeling domain. MEGAN v3.2 is a state-of-the-art biogenic emissions model originally developed at the National Center for Atmospheric Research (NCAR) and currently maintained at the University of California, Irvine. It has been continuously developed and validated through a series of peer-reviewed studies and technical reports (Guenther et al., 2006, 2012, 2017, 2018, 2020).

Biogenic VOC

Biogenic VOC (BVOC) emission calculations in MEGAN v3.2 are driven by a detailed emission factor database mapped to gridded vegetation types and growth-form-specific speciation tables. This database is informed by thousands of field observations across diverse plant species (Guenther et al., 2012, 2018). Base emission factors are applied to spatially resolved vegetation maps and adjusted using a suite of environmental activity corrections that account for the influence of light, temperature, leaf area index (LAI), soil moisture, soil temperature, 2-meter air temperature, 10-meter winds, and 24-hour accumulated precipitation. The major compound classes represented in the chemical mechanism CB6r3_ae7 include isoprene, monoterpenes, sesquiterpenes, and other VOCs, each with distinct emission responses to environmental drivers.

Relative to earlier versions, MEGAN v3.2 incorporates improved vegetation data, updated emission factors, enhanced canopy process representations, and an expanded set of chemical components (Guenther et al., 2017, 2018, 2020). These improvements allow for more accurate simulation of the temporal and spatial variability of biogenic emissions across diverse ecosystem types.

Soil NO_X

MEGAN v3.2 integrates two soil nitrogen monoxide (NO) emission algorithms: the Berkeley Dalhousie Soil NO_X Parameterization (BDSNP; Hudman et al., 2012) and the Yienger-Levy (YL; Yienger and Levy, 1995) algorithm. BDSNP was selected for this analysis because it more closely aligns with observed NO_X columns and yields improved performance in ozone and nitrogen deposition modeling. The BDSNP algorithm accounts for the effects of soil temperature, soil moisture, and fertilization for different land use and soil types. Its mechanistic structure makes it more dynamic and responsive to varying environmental conditions compared to the empirical YL approach. These processes are governed by meteorological drivers including air temperature, humidity, wind speed, and precipitation, all of which are explicitly represented in the model inputs. Those meteorological inputs are outputs of postprocessed numerical weather model runs. Unlike the YL soil NO_X scheme, BDSNP represents the soil NO_X response to precipitation as a non-monotonic function, in which emissions may increase with light rain but are suppressed under saturated conditions.

Meteorological Inputs and WRF Data Assimilation

The accuracy of biogenic emission estimates is strongly dependent on the quality of the meteorological inputs used to drive the model. In this analysis, meteorological fields were generated by the Weather Research and Forecasting (WRF) model, version 4.7.0. The fifth-generation ECMWF reanalysis data (ERA5) were processed by the WRF Preprocessor System (WPS) whose outputs serve as inputs to WRF. The WRF Data Assimilation (WRFDA) system was applied throughout the 2023 simulation year. The WRFDA system incorporated observational data through a combination of surface nudging and gridded analysis nudging, integrating surface and upper-air observations from the National Centers for Environmental Prediction (NCEP) with the model state through continuous updates. This four-dimensional data assimilation approach constrains the model simulation toward observed atmospheric conditions, reducing errors in temperature, moisture, and wind fields that would otherwise propagate into the biogenic emission estimates.

WRF output was subsequently processed using the Meteorology-Chemistry Interface Processor (MCIP), which reformats and interpolates the WRF output fields onto the chemistry model grid and applies necessary unit conversions and diagnostic calculations. MCIP output was then passed to MET2MGN, a preprocessing component of the MEGAN system that converts MCIP meteorological fields into the specific format required by MEGAN. The meteorological variables supplied to MEGAN include volumetric soil moisture and temperature at the top model level, surface air pressure, 2-meter air temperature, total cloud fraction, water vapor mixing ratio, 10-meter wind speed and direction, 24-hour accumulated precipitation, and photosynthetically active radiation (PAR). The complete data processing workflow — from downloading and preparing ERA5 reanalysis inputs through executing WPS, WRF, MCIP, and MET2MGN — is summarized in Figure II-3.

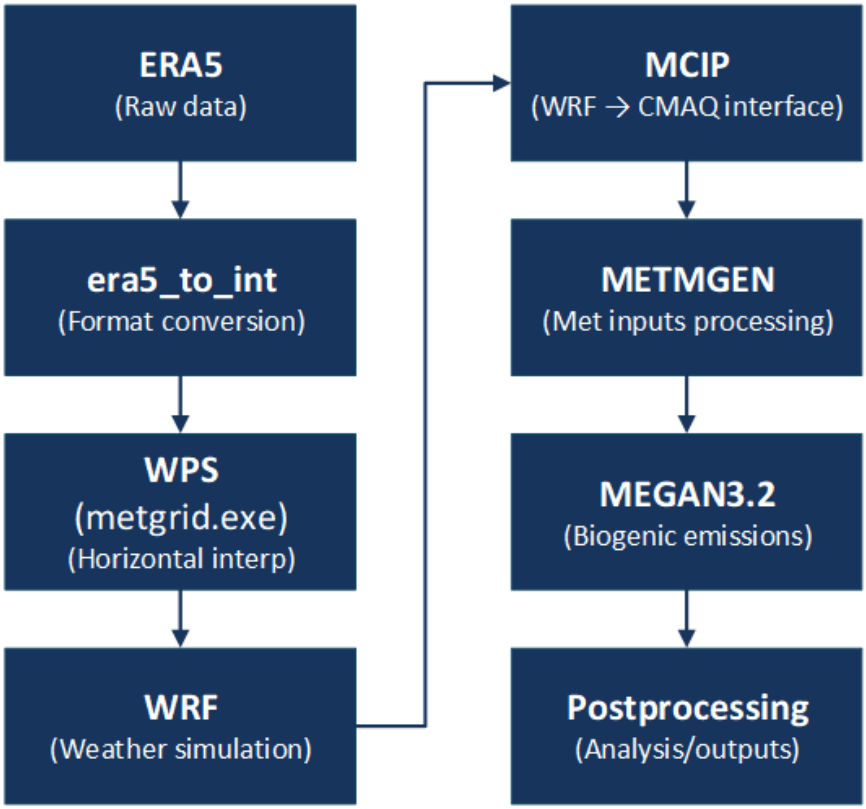


Figure II-3 Workflow for preparing meteorological inputs for MEGAN3.2

Land Cover Inputs

In addition to meteorological fields, MEGAN v3.2 requires land cover inputs that characterize the distribution and density of vegetation across the modeling domain. The two primary land cover variables are the leaf area index (LAI) and fractional vegetation cover, both of which influence the magnitude and composition of biogenic emissions by determining the amount of plant surface area available for gas exchange. In this analysis, LAI was sourced from the 2023 Copernicus Global Land Service (CGLS) Collection 300 m LAI Version 1 product, which provides LAI estimates at ten-day temporal resolution derived from satellite observations. These data were initially resampled to a 0.01° spatial resolution as an intermediate processing step and subsequently processed through the MEGAN LAI preprocessor to generate LAI inputs aligned with the 4 km modeling grid. The use of high-resolution, satellite-derived LAI data improves the spatial accuracy of emission estimates compared to coarser or climatological alternatives.

Biogenic Emissions

The PM-2.5 NAA was delineated within the 4 km modeling domain using a spatial mask developed in ArcGIS. Grid cells fully contained within the PM-2.5 NAA boundary were assigned a mask value of 1.0, cells partially intersecting the boundary were assigned fractional values proportional to their areal coverage, and cells entirely outside the PM-2.5 NAA were assigned a value of 0.0. Biogenic emissions for the PM-2.5 NAA were then extracted from MEGAN output

by multiplying emissions in each 4 km grid cell by the corresponding fractional mask value and summing the weighted emissions across all grid cells intersecting the NAA, as illustrated in Figure II-4.

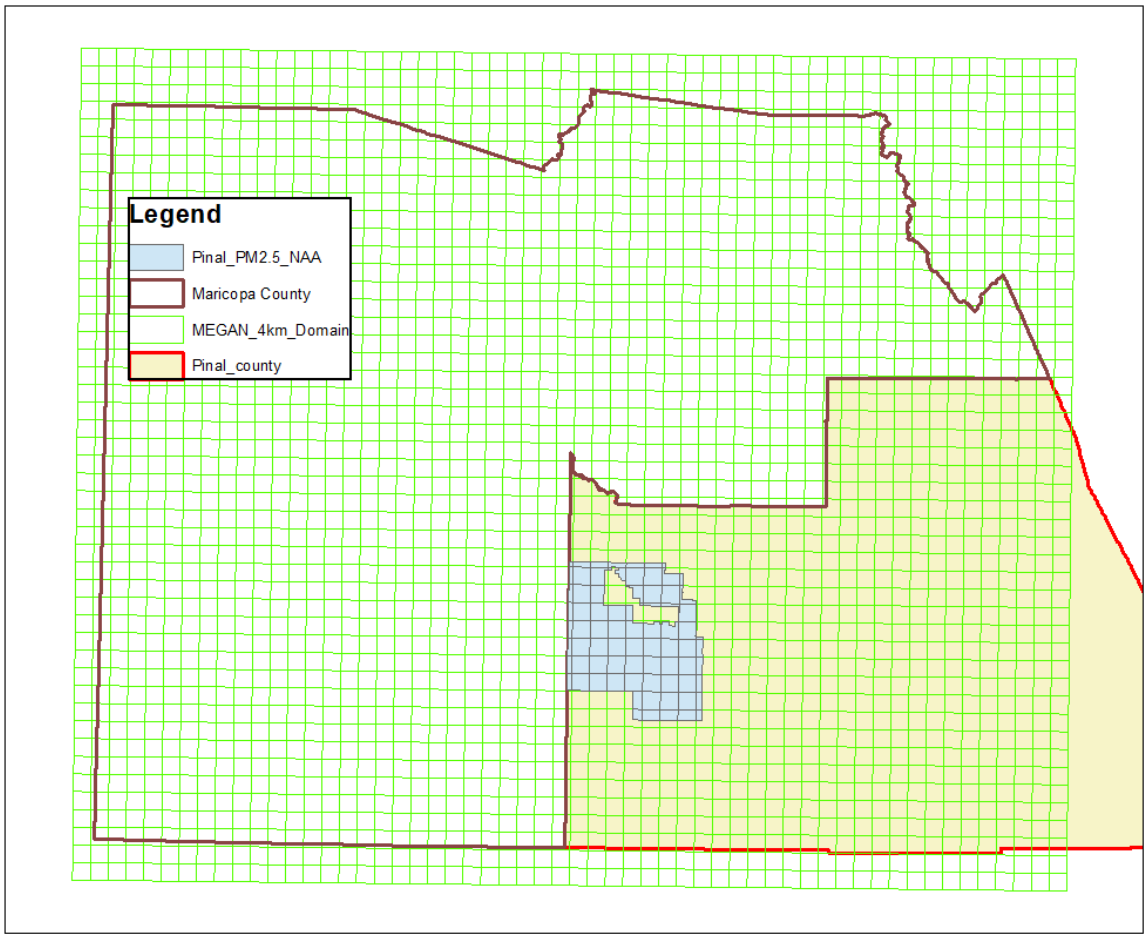


Figure II-4 Spatial mask used to extract biogenic emissions for the PM-2.5 NAA from the 4 km MEGAN modeling domain

Biogenic VOC emissions exhibit a pronounced diurnal pattern, as shown in Figure II-5, with broad peaks from late morning through mid-afternoon driven by the combined effects of increasing solar radiation and rising surface temperatures — weather conditions that strongly stimulate isoprene and monoterpene production. Soil NO_X emissions also display diurnal variability as illustrated by Figure II-6.

Daily totals for biogenic VOC and soil NO_X emissions across the full 2023 simulation year are presented in Figure II-7 and Figure II-8, respectively. VOC emissions remain low in winter and increase sharply in June and reach a peak in early July.

Soil NO_X emissions situate lowest levels in January and gradually increase through spring then peak in July and early August with frequent spikes reflecting strong variability associated with precipitation events. After August, emissions steadily decline with intermittent fluctuations. Overall, soil NO_X emissions respond strongly to seasonal changes in soil temperature and moisture.

Monthly total and monthly mean daily emissions for the PM-2.5 NAA are shown in Figure II-9 and Figure II-10. Annual and daily biogenic emissions for PM-2.5 and precursors in the PM-2.5 NAA are summarized in Table II-61 and Table II-62.

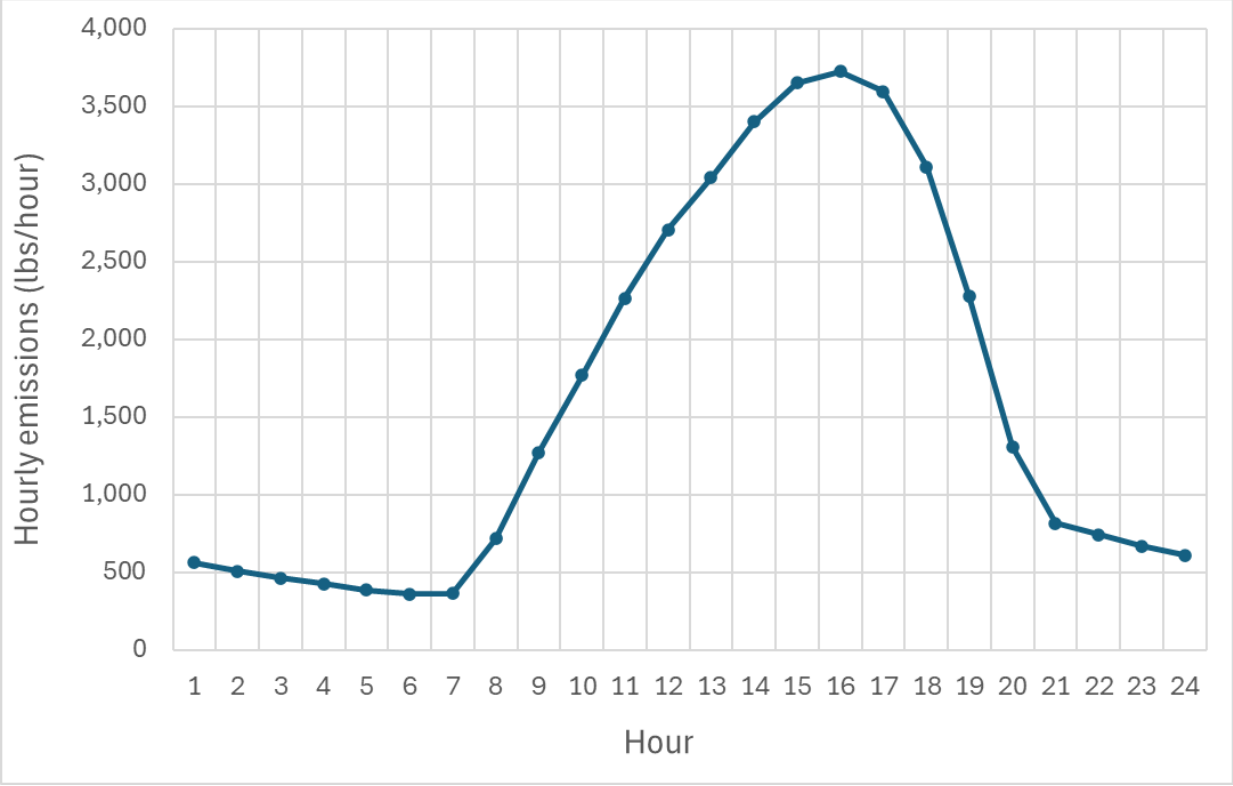


Figure II-5 2023 Diurnal cycle of VOC emissions in the PM-2.5 NAA

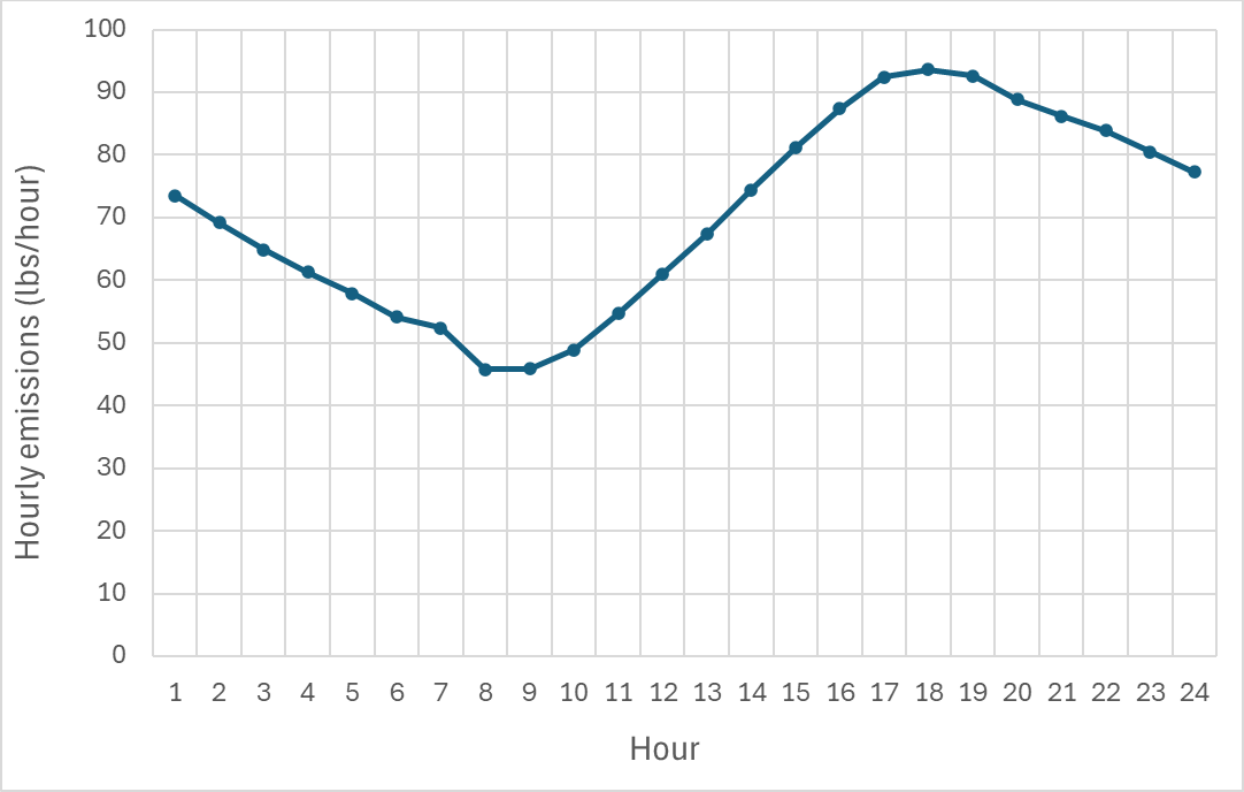


Figure II-6 2023 Diurnal cycle of NO_X emissions in the PM-2.5 NAA

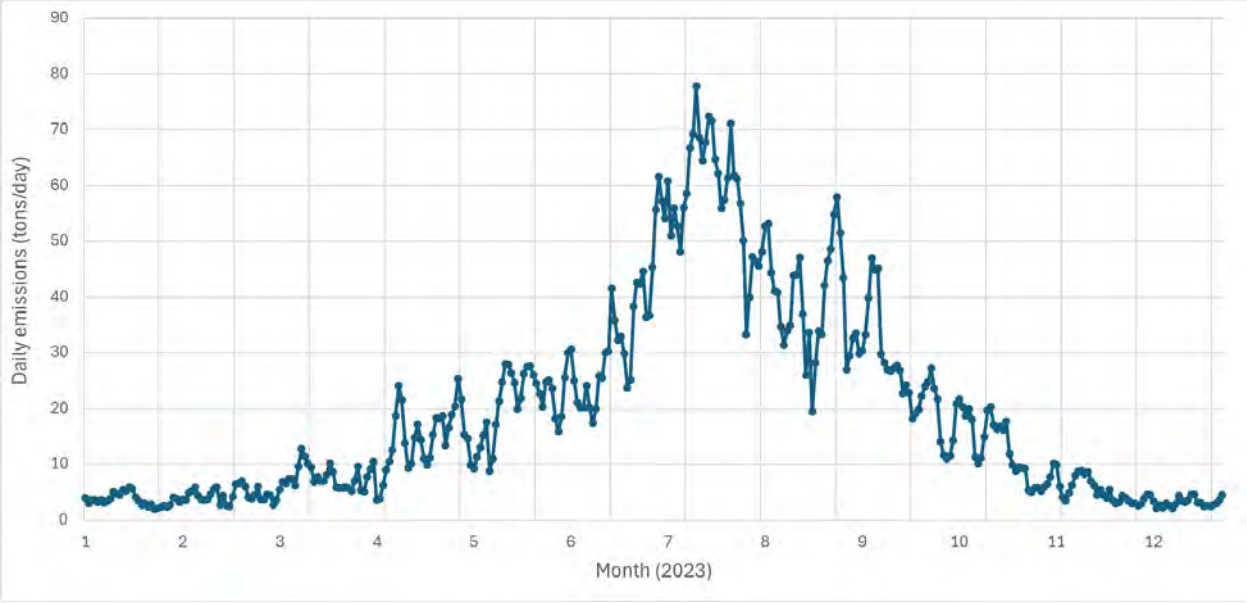


Figure II-7 2023 Daily biogenic VOC emissions in the PM-2.5 NAA

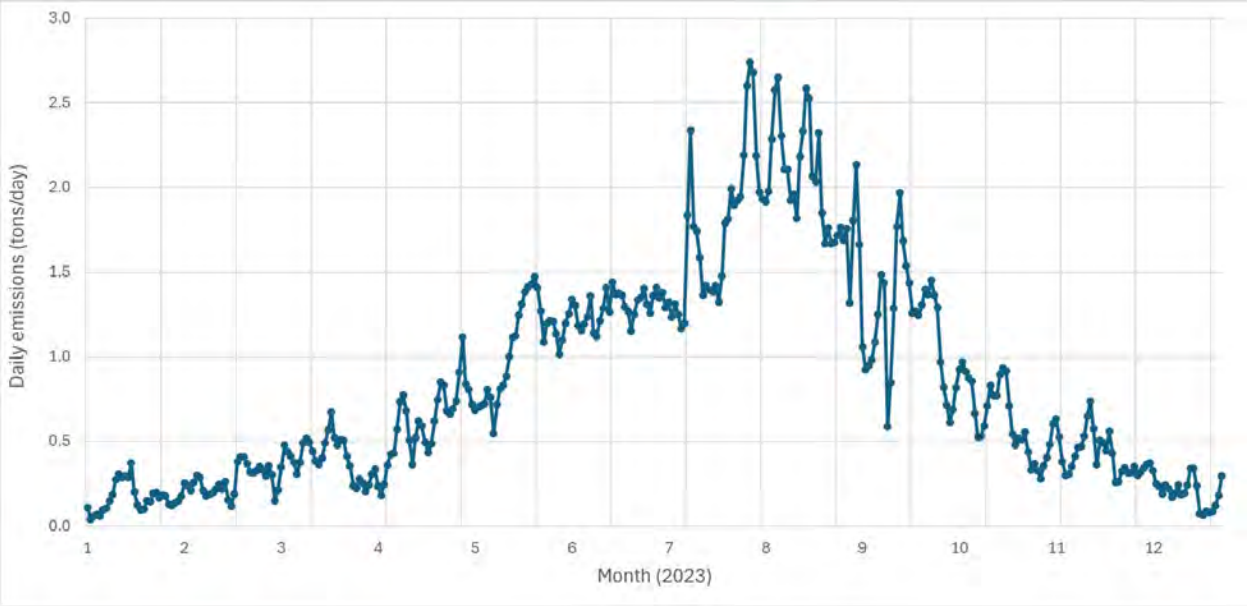


Figure II-8 2023 Daily soil NO_X emissions in the PM-2.5 NAA

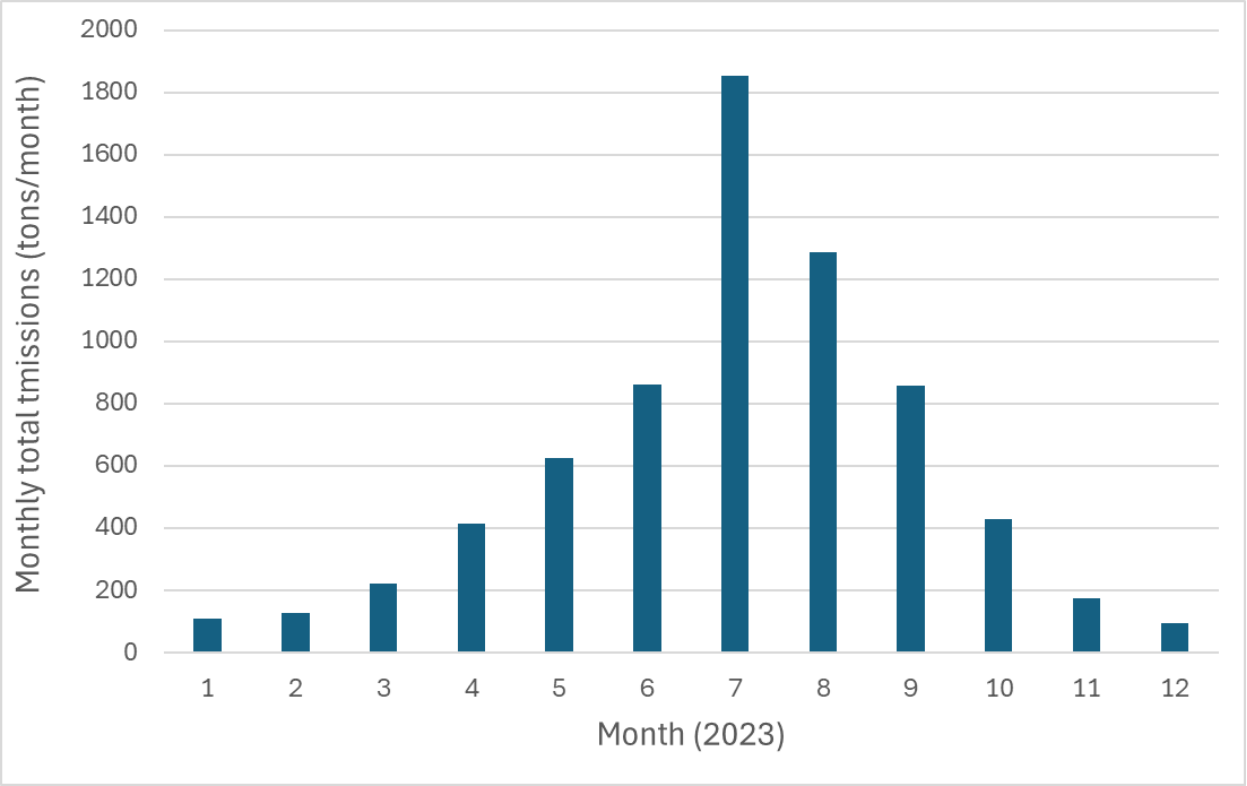


Figure II-9 2023 Monthly total biogenic VOC emissions in the PM-2.5 NAA

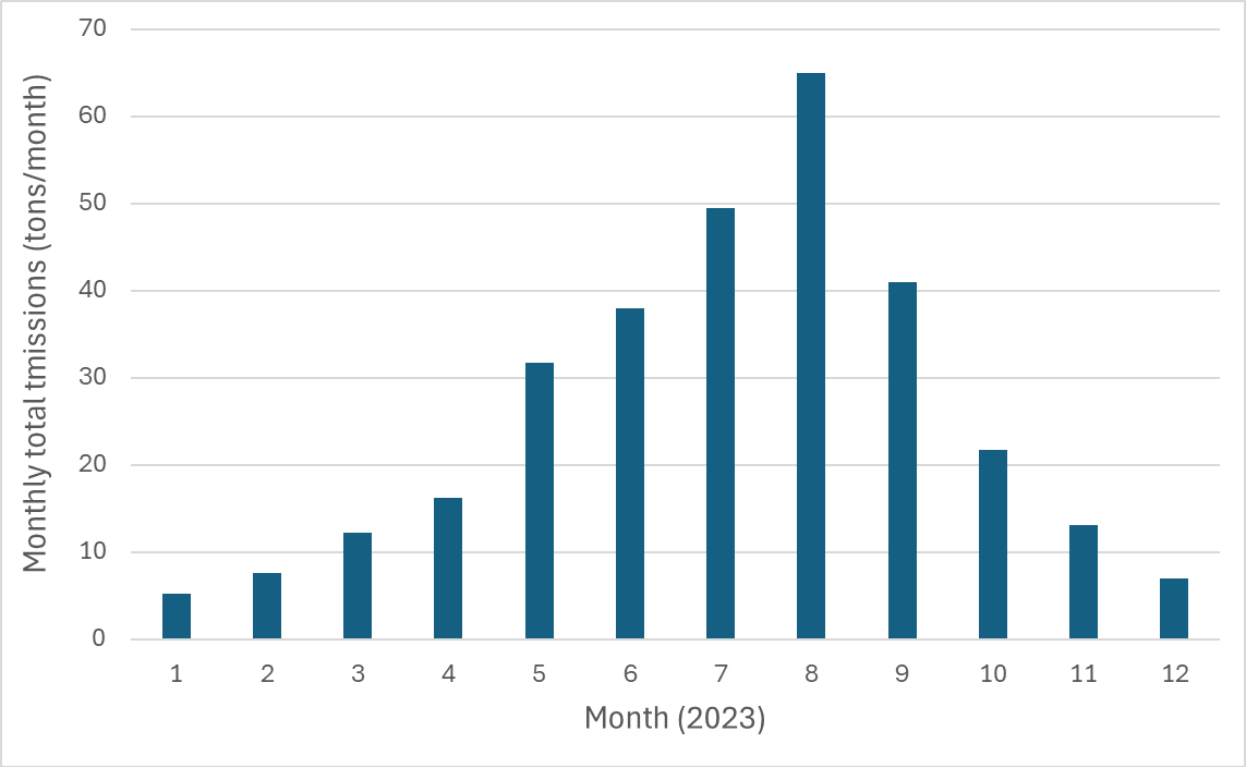


Figure II-10 2023 Monthly total soil NO_X emissions in the PM-2.5 NAA

Table II-60 2023 Annual biogenic emissions in the PM-2.5 NAA (tons/year)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Biogenic	-	-	308.58	7,055.40	-

Table II-61 2023 Daily biogenic emissions in the PM-2.5 NAA (lbs/day)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Biogenic	-	-	1,684.1	38,436.8	-

III. Interim Year and Maintenance Year PM-2.5 and Precursor Emissions

This chapter describes the development of the 2030 interim year and 2038 maintenance year PM-2.5 and precursor emissions inventories for the PM-2.5 NAA. These future-year inventories project the 2023 attainment year inventory described in Chapter II and provide the technical basis for evaluating whether emissions in the PM-2.5 NAA are expected to remain at levels consistent with continued maintenance of the PM-2.5 National Ambient Air Quality Standards. The same pollutants evaluated in the attainment year are carried forward in this chapter: direct PM-2.5, NH_3, NO_X, VOC, and SO_2.

The purpose of the interim and maintenance year emission inventories is to provide a consistent comparison between attainment year conditions and expected future conditions. Therefore, the chapter follows the same major source category structure used in Chapter II: permitted stationary sources, nonpoint sources, nonroad mobile sources, onroad mobile sources, and biogenic sources. Updated activity projections are applied where available, while attainment-year assumptions are carried forward for categories without reliable future-year projections or where future activity is not expected to change in a measurable way. Future-year inventory development accounts for projected changes in population, land use, transportation activity, agricultural activity, equipment activity, and vehicle fleet characteristics, while maintaining consistency with the methodology used for the attainment year inventory.

A. Permitted Stationary Sources

Total 2030 and 2038 annual and daily PM-2.5 and precursor emissions from permitted major and minor sources in the PM-2.5 NAA are summarized in the two tables below. Permitted major and minor source emissions for 2030 and 2038 are assumed to remain constant at 2023 attainment year levels. Table III-1 and Table III-2 include annual and daily PM-2.5 and precursor emissions from all permitted sources in the PM-2.5 NAA for 2030 interim year and 2038 maintenance year.

Table III-1 2030 and 2038 Annual PM-2.5 and precursor emissions from all permitted sources in the PM-2.5 NAA (tons/year)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Major Sources	2.23	-	17.60	6.48	3.05
Minor Sources	4.81	-	39.21	4.23	1.57
Total	**7.04**	**-**	**56.81**	**10.71**	**4.62**

Table III-2 2030 and 2038 Daily PM-2.5 and precursor emissions from all permitted sources in the PM-2.5 NAA (lbs/day)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Major Sources	12.2	-	96.4	35.5	16.7
Minor Sources	26.4	-	214.8	23.2	8.6
Total	**38.6**	**-**	**311.2**	**58.7**	**25.3**

B. Nonpoint Sources

1. Agricultural Sources

Nonpoint agricultural sources include PM-2.5 emissions from (1) the harvesting and tilling of cropland and (2) concentrated animal feeding operations (CAFOs) and dairies. PM-2.5 emissions from unpaved agricultural roads are included under the unpaved road section for onroad mobile sources. PM-2.5 and precursor emissions from livestock waste emissions, silage, and fertilizer are included in the NEI Source Category section of this inventory.

Harvesting and Tilling

PM-2.5 emissions from agricultural harvesting and tilling operations for the 2030 interim and 2038 maintenance years are estimated using the same methodology applied for the 2023 attainment year, as described in Chapter II.B.1. Changes in emissions relative to the 2023 attainment year are primarily driven by variations in harvested and tilled acreage and the application of control effectiveness. Total annual and daily PM-2.5 emissions from harvesting and tilling operations for the projected years are summarized in Table III-3.

Table III-3 2030 and 2038 Annual and daily controlled PM-2.5 emissions from harvesting and tilling in the PM-2.5 NAA

Source Category	2030 Annual Emissions (tons/year)	2038 Annual Emissions (tons/year)	2030 Daily Emissions (lbs/day)	2038 Daily Emissions (lbs/day)
Harvesting	4.43	4.34	116.5	114.0
Tilling	55.04	53.86	833.0	815.3
Total	**59.47**	**58.20**	**949.5**	**929.3**

Emission factors and activity data (including harvesting operation days and tillage passes) are assumed to remain constant for the projected years due to the lack of updated region-specific information. A PM-2.5/PM-10 conversion ratio of 0.15 is consistently applied for all analysis

years, as described for the 2023 attainment year, to convert the calculated PM-10 emission for PM-2.5.

Changes in emissions for the projected years relative to the 2023 attainment year are driven by variations in active agricultural acreage and control effectiveness. Based on MAG land use projections, total agricultural acreage within the PM-2.5 NAA is estimated to be 74,837 acres in 2030 and 73,243 acres in 2038. A fallow land percentage of 25% is assumed for both years, consistent with assumptions applied in the 2023 Five Percent Plan for future years (MAG, 2023). This results in active agricultural acreage of 56,128 acres in 2030 and 54,932 acres in 2038. The 2023 USDA NASS CDL-derived crop distribution is applied to the projected active agricultural acreage to estimate crop-specific acreage for each projected year. This approach assumes that the relative crop mix within the PM-2.5 NAA remains constant over time. Estimated crop-specific acreage for 2030 and 2038 is summarized in Table III-4.

Table III-4 2030 and 2038 Estimated crop-specific acreage in the PM-2.5 NAA

Crop Category	2030 Acreage (acres)	2038 Acreage (acres)
Alfalfa	24,401	23,882
Corn	14,300	13,996
Cotton	4,428	4,333
Grain	8,074	7,902
Hay	1,353	1,325
Vegetables	3,571	3,495
Total	**56,128**	**54,932**

Changes in projected emissions are also influenced by control implementation. Control effectiveness is defined as the product of control efficiency, rule effectiveness (RE), and rule penetration (RP). Control efficiency is assumed to remain unchanged from the 2023 attainment year. An RP of 99.78% is applied based on the distribution of cropland by farm size derived from the 2022 USDA Agricultural Census for cropland farms in Pinal County, consistent with the approach used for the 2023 attainment year. An RE value of 75% is assumed for both 2030 and 2038, consistent with assumptions in the 2023 Five Percent Plan, reflecting improved compliance and implementation of control measures.

Concentrated Animal Feeding Operations (CAFOs)

Emission factors and activity levels for CAFOs are assumed to be constant between 2023, 2030, and 2038. This is a conservative estimate of activity, as headcounts at CAFOs have experienced declines in recent years. Changes in emissions from the 2023 attainment year to 2030 and 2038 are primarily driven by an increased control effectiveness. As projected in the MAG 2023 Five Percent Plan for PM-10 (MAG, 2023), the control effectiveness of Best Management Practices

(BMPs) at CAFOs increase from 23.97% in 2023 to 29.96% in 2027 and beyond. This is due to an increase in rule effectiveness as a result of better compliance with AgBMP rules and statutes. The emission reduction effectiveness of dust controls is assumed to be the same for PM-2.5 as it is for PM-10. Table III-5 includes annual and daily PM-2.5 emissions from CAFOs for 2030 and 2038 in the PM-2.5 NAA.

Table III-5 2030 and 2038 Annual and daily PM-2.5 emissions from CAFOs in the PM-2.5 NAA

Source Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
CAFOs	92.72	508.1

Dairies

PM emission factors and activity levels for dairies are assumed to be constant between 2023, 2030, and 2038. Changes in emissions from the 2023 attainment year to 2030 and 2038 are primarily driven by an increased control effectiveness. As projected in the 2023 Five Percent Plan (MAG, 2023), the control effectiveness of BMPs increases from 14.71% in 2023 to 18.39% in 2027 and beyond. This is due to an increase in rule effectiveness as a result of better compliance with AgBMP rules and statutes. The emission reduction effectiveness of dust controls is assumed to be the same for PM-2.5 as it is for PM-10.

Table III-6 includes annual and daily PM-2.5 and precursor emissions from dairies for 2030 and 2038 in the PM-2.5 NAA.

Table III-6 2030 and 2038 Annual and daily PM-2.5 emissions from dairies in the PM-2.5 NAA

Source Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Dairies	35.82	196.3

2. Construction

PM-2.5 emissions from construction sources for the 2030 interim and 2038 maintenance years were estimated using the same methodology applied for the 2023 attainment year, as described in Chapter II.B.2. The spatial, temporal, and growth surrogates from sources in the nonpoint category in the PM-2.5 NAA were based on population projections.

Activity levels for all types of construction are assumed to be consistent with the projected population growth in the PM-2.5 NAA between 2023, 2030, and 2038, resulting in increases to uncontrolled PM-2.5 emissions. Increases in uncontrolled emissions are offset by increased control effectiveness as a result of increased rule effectiveness rates. In accordance with the 2023 Five Percent Plan (MAG, 2023), the control effectiveness of PCAQCD rules increases to 81% in 2027 and beyond.

Additionally, since 2023 road construction emissions were zero due to no permitted activity, road construction emissions were estimated for interim and maintenance years using the MAG Activity Based Model (ABM) transportation network assignment data based on a California Air Resources Board (CARB) area source methodology for road construction dust (CARB, 1997). The CARB methodology multiplies an average project duration by an emission rate and by acres disturbed from the new road construction. Then control efficiency and rule effectiveness are applied to the emission estimates.

The average road project duration is 12 months, with emission rates of 0.265 tons/acre-month, control efficiency of 90%, and rule effectiveness of 90%. Disturbed acres associated with new road construction in 2030 were derived from the difference between the MAG ABM network data for 2026 and 2030. Disturbed acres for 2038 were similarly estimated using the difference between the 2030 and 2038 datasets. Daily PM-10 emissions were derived from annual calculations using a 365-day period. The reference PM-2.5/PM-10 ratio of 0.1, as recommended by the WRAP Fugitive Dust Handbook (Countess Environmental, 2006), was applied to PM-10 emissions to estimate PM-2.5 emissions from road construction activities.

The emission reduction effectiveness of dust controls is assumed to be the same for PM-2.5 as it is for PM-10. Total annual and daily PM-2.5 emissions from construction activities for the projected years are summarized in Table III-7 and Table III-8.

Table III-7 2030 Annual and daily PM-2.5 emissions from construction activities

Construction Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Commercial	3.06	16.8
Residential: Multi-Family	4.26	23.3
Residential: Single Family	1.88	10.3
Site Prep/Land Development	0.86	4.7
Trenching	0.01	0.0
Road Construction	5.38	29.5
Total	**15.45**	**84.6**

Table III-8 2038 Annual and daily PM-2.5 emissions from construction activities

Construction Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Commercial	3.59	19.7
Residential: Multi-Family	5.01	27.4
Residential: Single Family	2.21	12.1
Site Prep/Land Development	1.01	5.5
Trenching	0.01	0.1
Road Construction	3.08	16.9
Total	**14.91**	**81.7**

3. Gas Stations

For 2023, permitting details were provided by PCAQCD for gas stations in the PM-2.5 NAA. To calculate 2030 and 2038 emissions, annual and daily VOC emissions were projected using permit data with MAG developed population growth data. Estimated 2030 and 2038 emissions from permitted gas stations in the PM-2.5 NAA are summarized in Table III-9 and Table III-10.

Table III-9 2030 Annual and daily VOC emissions from gas stations in the PM-2.5 NAA

Source Category	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
Gas Stations	34.45	188.8

Table III-10 2038 Annual and daily VOC emissions from gas stations in the PM-2.5 NAA

Source Category	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
Gas Stations	43.29	237.2

4. National Emissions Inventory Source Categories

PM-2.5 and precursor emissions from NEI sources were projected from 2023 emissions provided in Chapter II for the 2030 interim and 2038 maintenance years using a variety of socioeconomic and land use growth estimates. As described in Chapter II, annual and daily PM-2.5 and precursor emissions within the PM-2.5 NAA were allocated by filtering NEI datasets for Pinal County sources, and then applying spatial surrogates using MAG developed socioeconomic and land use data. Temporal profiles were allocated based on known activity data from NEI methodologies and consultation with PCAQCD. Details on growth assumptions for NEI sources are included below for each NEI category.

Commercial Cooking

Nonattainment area PM-2.5 and precursor emissions from commercial cooking for the 2030 interim and 2038 maintenance years are estimated using the same methodology applied for the 2023 attainment year, as described in Chapter II.B.4, with a growth factor applied. Total 2030 and 2038 annual and daily PM-2.5 and precursor emissions from commercial cooking in the PM-2.5 NAA are summarized in Table III-11 through Table III-14.

Annual emissions for 2030 were produced by multiplying the 2023 NEI Pinal County emission values by the 2030 total population spatial surrogate (16.70%) and growth factor (1.248). This same methodology was used for 2038, by multiplying the 2023 NEI Pinal County emission values by the 2038 total population spatial surrogate (15.62%) and growth factor (1.568). Increase in emissions are attributable to the increase of population in the PM-2.5 NAA, which is projected to drive an increase in commercial cooking. Commercial cooking activity levels are assumed to remain the same and assumed to occur uniformly throughout the year. Therefore, daily emissions were developed by dividing the annual emissions by 365 days per year.

Table III-11 2030 Annual PM-2.5 and precursor emissions from commercial cooking sources in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2302002100	Conveyorized Charbroiling	0.67	-	-	0.15	-
2302002200	Underfired Charbroiling	2.60	-	-	0.36	-
2302003000	Deep Fat Frying	5.67	-	-	0.18	-
2302003100	Flat Griddle Frying	1.19	-	-	0.07	-
2302003200	Clamshell Griddle Frying	0.11	-	-	0.00	-
N/A	**Total**	**10.24**	**-**	**-**	**0.76**	**-**

Table III-12 2030 Daily PM-2.5 and precursor emissions from commercial cooking sources in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2302002100	Conveyorized Charbroiling	3.7	-	-	0.8	-
2302002200	Underfired Charbroiling	14.2	-	-	2.0	-
2302003000	Deep Fat Frying	31.1	-	-	1.0	-
2302003100	Flat Griddle Frying	6.5	-	-	0.4	-
2302003200	Clamshell Griddle Frying	0.6	-	-	0.0	-
N/A	**Total**	**56.1**	**-**	**-**	**4.2**	**-**

Table III-13 2038 Annual PM-2.5 and precursor emissions from commercial cooking sources in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2302002100	Conveyorized Charbroiling	0.79	-	-	0.17	-
2302002200	Underfired Charbroiling	3.06	-	-	0.43	-
2302003000	Deep Fat Frying	6.66	-	-	0.22	-
2302003100	Flat Griddle Frying	1.40	-	-	0.08	-
2302003200	Clamshell Griddle Frying	0.13	-	-	0.00	-
N/A	**Total**	**12.04**	**-**	**-**	**0.90**	**-**

Table III-14 2038 Daily PM-2.5 and precursor emissions from commercial cooking sources in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2302002100	Conveyorized Charbroiling	4.3	-	-	0.9	-
2302002200	Underfired Charbroiling	16.7	-	-	2.3	-
2302003000	Deep Fat Frying	36.5	-	-	1.2	-
2302003100	Flat Griddle Frying	7.7	-	-	0.4	-
2302003200	Clamshell Griddle Frying	0.7	-	-	0.0	-
N/A	**Total**	**65.9**	**-**	**-**	**4.8**	**-**

Fuel Combustion

Nonattainment area PM-2.5 and precursor emissions from fuel combustion for the 2030 interim and 2038 maintenance years were estimated using the same methodology applied for the 2023 attainment year, as described in Chapter II.B.4, with a growth factor applied. Total 2030 and 2038 annual and daily PM-2.5 and precursor emissions from fuel combustion in the PM-2.5 NAA are summarized in Table III-15 through Table III-18.

For the 2030 interim year annual fuel combustion emissions, residential combustion was allocated using total population as a spatial surrogate (16.70%) and a 1.248 growth factor, commercial/institutional combustion was allocated using the commercial/institutional land use spatial surrogate (17.42%) and a 1.130 growth factor, and industrial combustion was allocated using the industrial land use spatial surrogate (7.90%) and a 1.151 growth factor. This same methodology was used for producing the 2038 annual emissions. Residential combustion was allocated using total population (15.62%) and a 1.568 growth factor, commercial/institutional combustion was allocated using the commercial/institutional land use spatial surrogate (17.29%) and a 1.292 growth factor, and industrial combustion was allocated using the industrial land use spatial surrogate (8.92%) and a 1.297 growth factor.

Emissions in this category show an overall increase, which is reflected in rising growth factors and population levels, as well as increased land use in the commercial, institutional, and industrial categories. Daily emissions were developed from annual emissions using the same methodology as described in Chapter II.B.4.

Table III-15 2030 Annual PM-2.5 and precursor emissions from fuel combustion sources in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2104004000	Residential Heating-Distillate	0.00	0.00	0.01	0.00	0.00
2104006000	Residential Heating-Natural Gas	0.11	5.21	24.50	1.43	0.16
2104007000	Residential Heating-LPG	0.01	0.01	3.72	0.15	0.02
2104008011	Woodstove: Non-certified wood stoves <=4FT3	23.92	1.39	0.92	53.56	0.33
2104008021	Woodstove: EPA certified wood stoves non-cat	26.19	0.97	1.87	49.00	0.58
2104008031	Woodstove: EPA certified, catalytic or hybrid	2.47	0.24	0.77	7.20	0.15
2104008100	Fireplace: General	16.85	1.29	1.86	13.49	0.29
2104008400	Woodstove: Pellet-fired, General	0.15	0.03	0.27	0.31	0.03
2104008500	Furnace: Indoor, Cordwood-fired, General	2.38	0.16	0.10	1.01	0.18
2104008530	Furnace: Indoor, Pellet-fired, General	0.01	0.00	0.02	0.03	0.00
2104008700	Outdoor wood burning device, NEC (fire-pits, chimeas, etc)	7.42	0.57	0.82	5.94	0.13
2104009000	Wax Log; Total: All Combustor Types	2.14	0.00	0.58	2.99	0.00
2103004001	ICI, Distillate Boilers, Commercial/Institutional	0.01	0.00	0.10	0.00	0.00
2103004002	ICI, Distillate Engines, Commercial/Institutional	0.14	0.00	2.05	0.14	0.14
2103006000	ICI, Natural Gas, Commercial/Institutional	0.00	0.01	0.41	0.02	0.00
2103007000	ICI, LPG, Commercial/Institutional	0.00	0.00	0.07	0.00	0.00
2103008000	ICI, Wood, Commercial/Institutional	0.15	0.00	0.08	0.01	0.01
2102004001	ICI, Distillate Boilers, Industrial	0.00	0.00	0.00	0.00	0.00
2102004002	ICI, Distillate Engines, Industrial	0.00	0.00	0.01	0.00	0.00
2102006000	ICI, Natural Gas, Industrial	0.01	0.01	1.72	0.09	0.01
2102007000	ICI, LPG, Industrial	0.00	0.00	0.29	0.01	0.00
2102008000	ICI, Wood, Industrial	0.18	0.00	0.09	0.01	0.01
N/A	**Total**	**82.13**	**9.90**	**40.23**	**135.40**	**2.01**

Table III-16 2030 Daily PM-2.5 and precursor emissions from fuel combustion sources in

the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2104004000	Residential Heating-Distillate	0.0	0.0	0.1	0.0	0.0
2104006000	Residential Heating-Natural Gas	1.2	54.0	253.9	14.9	1.6
2104007000	Residential Heating-LPG	0.1	0.1	38.5	1.5	0.2
2104008011	Woodstove: Non-certified wood stoves <=4FT3	247.8	14.4	9.5	555.1	3.4
2104008021	Woodstove: EPA certified wood stoves non-cat	271.4	10.1	19.3	507.8	6.0
2104008031	Woodstove: EPA certified, catalytic or hybrid	25.5	2.5	7.9	74.7	1.5
2104008100	Fireplace: General	174.6	13.3	19.2	139.8	3.0
2104008400	Woodstove: Pellet-fired, General	1.5	0.3	2.8	3.2	0.3
2104008500	Furnace: Indoor, Cordwood-fired, General	24.7	1.6	1.0	10.5	1.8
2104008530	Furnace: Indoor, Pellet-fired, General	0.1	0.0	0.2	0.3	0.0
2104008700	Outdoor wood burning device, NEC (fire-pits, chimeas, etc)	76.9	5.9	8.5	61.6	1.3
2104009000	Wax Log; Total: All Combustor Types	22.2	0.0	6.0	30.9	0.0
2103004001	ICI, Distillate Boilers, Commercial/Institutional	0.1	0.0	0.7	0.0	0.0
2103004002	ICI, Distillate Engines, Commercial/Institutional	0.9	0.0	13.1	0.9	0.9
2103006000	ICI, Natural Gas, Commercial/Institutional	0.0	0.1	2.6	0.1	0.0
2103007000	ICI, LPG, Commercial/Institutional	0.0	0.0	0.4	0.0	0.0
2103008000	ICI, Wood, Commercial/Institutional	1.0	0.0	0.5	0.0	0.1
2102004001	ICI, Distillate Boilers, Industrial	0.0	0.0	0.5	0.0	0.0
2102004002	ICI, Distillate Engines, Industrial	0.0	0.0	0.0	0.0	0.0
2102006000	ICI, Natural Gas, Industrial	0.0	0.1	11.0	0.6	0.1
2102007000	ICI, LPG, Industrial	0.0	0.0	1.8	0.1	0.0
2102008000	ICI, Wood, Industrial	1.1	0.0	0.6	0.0	0.1
N/A	**Total**	**849.1**	**102.4**	**397.6**	**1,402.0**	**20.3**

Table III-17 2038 Annual PM-2.5 and precursor emissions from fuel combustion sources in

the PM-2.5 NAA (tons/year)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2104004000	Residential Heating-Distillate	0.00	0.00	0.01	0.00	0.00
2104006000	Residential Heating-Natural Gas	0.13	6.13	28.80	1.69	0.18
2104007000	Residential Heating-LPG	0.01	0.02	4.37	0.17	0.02
2104008011	Woodstove: Non-certified wood stoves <=4FT3	28.11	1.64	1.08	62.96	0.39
2104008021	Woodstove: EPA certified wood stoves non-cat	30.79	1.14	2.19	57.59	0.69
2104008031	Woodstove: EPA certified, catalytic or hybrid	2.90	0.29	0.90	8.47	0.17
2104008100	Fireplace: General	19.80	1.51	2.18	15.86	0.34
2104008400	Woodstove: Pellet-fired, General	0.17	0.03	0.31	0.36	0.03
2104008500	Furnace: Indoor, Cordwood-fired, General	2.80	0.18	0.11	1.19	0.21
2104008530	Furnace: Indoor, Pellet-fired, General	0.01	0.00	0.03	0.03	0.00
2104008700	Outdoor wood burning device, NEC (fire-pits, chimeas, etc)	8.72	0.67	0.96	6.98	0.15
2104009000	Wax Log; Total: All Combustor Types	2.52	0.00	0.68	3.51	0.00
2103004001	ICI, Distillate Boilers, Commercial/Institutional	0.01	0.01	0.13	0.00	0.00
2103004002	ICI, Distillate Engines, Commercial/Institutional	0.18	0.00	2.61	0.18	0.17
2103006000	ICI, Natural Gas, Commercial/Institutional	0.00	0.02	0.53	0.03	0.00
2103007000	ICI, LPG, Commercial/Institutional	0.00	0.00	0.09	0.00	0.00
2103008000	ICI, Wood, Commercial/Institutional	0.20	0.00	0.10	0.01	0.01
2102004001	ICI, Distillate Boilers, Industrial	0.00	0.00	0.00	0.00	0.00
2102004002	ICI, Distillate Engines, Industrial	0.00	0.00	0.01	0.00	0.00
2102006000	ICI, Natural Gas, Industrial	0.01	0.01	1.95	0.11	0.01
2102007000	ICI, LPG, Industrial	0.00	0.00	0.32	0.01	0.00
2102008000	ICI, Wood, Industrial	0.20	0.00	0.10	0.01	0.01
N/A	**Total**	**96.56**	**11.64**	**47.45**	**159.16**	**2.38**

Table III-18 2038 Daily PM-2.5 and precursor emissions from fuel combustion sources in

the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2104004000	Residential Heating-Distillate	0.0	0.0	0.1	0.0	0.0
2104006000	Residential Heating-Natural Gas	1.4	63.5	298.4	17.5	1.9
2104007000	Residential Heating-LPG	0.1	0.2	45.3	1.8	0.2
2104008011	Woodstove: Non-certified wood stoves <=4FT3	291.3	17.0	11.2	652.4	4.0
2104008021	Woodstove: EPA certified wood stoves non-cat	319.0	11.8	22.7	596.8	7.1
2104008031	Woodstove: EPA certified, catalytic or hybrid	30.0	3.0	9.3	87.7	1.8
2104008100	Fireplace: General	205.2	15.7	22.6	164.3	3.5
2104008400	Woodstove: Pellet-fired, General	1.8	0.3	3.3	3.8	0.3
2104008500	Furnace: Indoor, Cordwood-fired, General	29.0	1.9	1.2	12.3	2.1
2104008530	Furnace: Indoor, Pellet-fired, General	0.1	0.0	0.3	0.3	0.0
2104008700	Outdoor wood burning device, NEC (fire-pits, chimeas, etc)	90.4	6.9	10.0	72.4	1.5
2104009000	Wax Log; Total: All Combustor Types	26.1	0.0	7.1	36.4	0.0
2103004001	ICI, Distillate Boilers, Commercial/Institutional	0.1	0.0	0.8	0.0	0.0
2103004002	ICI, Distillate Engines, Commercial/Institutional	1.1	0.0	16.7	1.2	1.1
2103006000	ICI, Natural Gas, Commercial/Institutional	0.0	0.1	3.4	0.2	0.0
2103007000	ICI, LPG, Commercial/Institutional	0.0	0.0	0.6	0.0	0.0
2103008000	ICI, Wood, Commercial/Institutional	1.3	0.0	0.6	0.0	0.1
2102004001	ICI, Distillate Boilers, Industrial	0.0	0.0	0.0	0.0	0.0
2102004002	ICI, Distillate Engines, Industrial	0.0	0.0	0.0	0.0	0.0
2102006000	ICI, Natural Gas, Industrial	0.1	0.1	12.5	0.7	0.1
2102007000	ICI, LPG, Industrial	0.0	0.0	2.1	0.1	0.0
2102008000	ICI, Wood, Industrial	1.3	0.0	0.6	0.0	0.1
N/A	**Total**	**998.3**	**120.5**	**468.8**	**1,647.9**	**23.8**

Solvent Use

To calculate 2030 and 2038 emissions from use of solvents, annual and daily PM-2.5 and precursor 2023 emissions were projected based on MAG developed population and employment growth data for the PM-2.5 NAA. Table III-19 and Table III-20 summarize annual and daily VOC emissions from solvent use for 2030 and 2038 in the PM-2.5 NAA.

Table III-19 2030 Annual and daily VOC emissions from solvent use in the PM-2.5 NAA

SCC #	SCC Description	SCC Level 3	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
2401001000	Solvent - Non-Industrial Surface Coating	Architectural Coatings	63.09	345.7
2401005000	Solvent - Industrial Surface Coating & Solvent Use	Auto Refinishing: SIC 7532	3.29	18.0
2401008000	Solvent - Industrial Surface Coating & Solvent Use	Traffic Markings	10.11	55.4
2401015000	Solvent - Industrial Surface Coating & Solvent Use	Factory Finished Wood: SIC 2426 thru 242	0.00	0.0
2401020000	Solvent - Industrial Surface Coating & Solvent Use	Wood Furniture: SIC 25	0.00	0.0
2401030000	Solvent - Industrial Surface Coating & Solvent Use	Paper: SIC 26	0.00	0.0
2401055000	Solvent - Industrial Surface Coating & Solvent Use	Machinery and Equipment: SIC 35	0.10	0.5
2401065000	Solvent - Industrial Surface Coating & Solvent Use	Electronic and Other Electrical: SIC 36 - 363	0.81	4.4
2401070000	Solvent - Industrial Surface Coating & Solvent Use	Motor Vehicles: SIC 371	0.01	0.1
2401075000	Solvent - Industrial Surface Coating & Solvent Use	Aircraft: SIC 372	0.13	0.7
2401090000	Solvent - Industrial Surface Coating & Solvent Use	Miscellaneous Manufacturing	0.14	0.8
2401100000	Solvent - Industrial Surface Coating & Solvent Use	Industrial Maintenance Coatings	11.62	63.7
2415000000	Solvent - Degreasing	All Processes/All Industries	4.10	22.5
2425000000	Solvent - Graphic Arts	All Processes	1.64	9.0
2460030999	Solvent - Consumer & Commercial Solvent Use	Lighter Fluid, Fire Starter, Other Fuels	2.02	11.1
2460100000	Solvent - Consumer & Commercial Solvent Use	All Personal Care Products	140.82	771.6
2460200000	Solvent - Consumer & Commercial Solvent Use	All Household Products	93.88	514.4
2460400000	Solvent - Consumer & Commercial Solvent Use	All Automotive Aftermarket Products	12.62	69.1
2460500000	Solvent - Consumer & Commercial Solvent Use	All Coatings and Related Products	134.77	738.4

SCC #	SCC Description	SCC Level 3	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
2460600000	Solvent - Consumer & Commercial Solvent Use	All Adhesives and Sealants	109.00	597.2
2460800000	Solvent - Consumer & Commercial Solvent Use	All FIFRA Related Products	5.05	27.7
2460900000	Solvent - Consumer & Commercial Solvent Use	Miscellaneous Products (Not Otherwise Covered)	2.02	11.1
2461021000	Solvent - Consumer & Commercial Solvent Use	Cutback Asphalt	26.52	145.3
2461022000	Solvent - Consumer & Commercial Solvent Use	Emulsified Asphalt	73.92	405.1
2461023000	Solvent - Consumer & Commercial Solvent Use	Asphalt Roofing	3.72	20.4
2461025100	Solvent - Consumer & Commercial Solvent Use	Asphalt Paving: Hot and Warm Mix	20.05	109.9
2461025200	Solvent - Consumer & Commercial Solvent Use	Asphalt Paving: Hot and Warm Mix	0.32	1.7
2461850000	Solvent - Consumer & Commercial Solvent Use	Pesticide Application: Agricultural	33.82	185.3
N/A	**Total**	**N/A**	**753.56**	**4,129.1**

Table III-20 2038 Annual and daily VOC emissions from solvent use in the PM-2.5 NAA

SCC #	SCC Description	SCC Level 3	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
2401001000	Solvent - Non-Industrial Surface Coating	Architectural Coatings	74.16	406.3
2401005000	Solvent - Industrial Surface Coating & Solvent Use	Auto Refinishing: SIC 7532	3.86	21.2
2401008000	Solvent - Industrial Surface Coating & Solvent Use	Traffic Markings	14.88	81.5
2401015000	Solvent - Industrial Surface Coating & Solvent Use	Factory Finished Wood: SIC 2426 thru 242	0.00	0.0
2401020000	Solvent - Industrial Surface Coating & Solvent Use	Wood Furniture: SIC 25	0.00	0.0
2401030000	Solvent - Industrial Surface Coating & Solvent Use	Paper: SIC 26	0.00	0.0
2401055000	Solvent - Industrial Surface Coating & Solvent Use	Machinery and Equipment: SIC 35	0.14	0.8
2401065000	Solvent - Industrial Surface Coating & Solvent Use	Electronic and Other Electrical: SIC 36 - 363	1.19	6.5
2401070000	Solvent - Industrial Surface Coating & Solvent Use	Motor Vehicles: SIC 371	0.02	0.1

SCC #	SCC Description	SCC Level 3	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
2401075000	Solvent - Industrial Surface Coating & Solvent Use	Aircraft: SIC 372	0.19	1.0
2401090000	Solvent - Industrial Surface Coating & Solvent Use	Miscellaneous Manufacturing	0.20	1.1
2401100000	Solvent - Industrial Surface Coating & Solvent Use	Industrial Maintenance Coatings	17.10	93.7
2415000000	Solvent - Degreasing	All Processes/All Industries	6.03	33.0
2425000000	Solvent - Graphic Arts	All Processes	2.41	13.2
2460030999	Solvent - Consumer & Commercial Solvent Use	Lighter Fluid, Fire Starter, Other Fuels	2.37	13.0
2460100000	Solvent - Consumer & Commercial Solvent Use	All Personal Care Products	165.52	906.9
2460200000	Solvent - Consumer & Commercial Solvent Use	All Household Products	110.35	604.6
2460400000	Solvent - Consumer & Commercial Solvent Use	All Automotive Aftermarket Products	14.83	81.3
2460500000	Solvent - Consumer & Commercial Solvent Use	All Coatings and Related Products	158.40	867.9
2460600000	Solvent - Consumer & Commercial Solvent Use	All Adhesives and Sealants	128.11	702.0
2460800000	Solvent - Consumer & Commercial Solvent Use	All FIFRA Related Products	5.93	32.5
2460900000	Solvent - Consumer & Commercial Solvent Use	Miscellaneous Products (Not Otherwise Covered)	2.37	13.0
2461021000	Solvent - Consumer & Commercial Solvent Use	Cutback Asphalt	31.17	170.8
2461022000	Solvent - Consumer & Commercial Solvent Use	Emulsified Asphalt	86.89	476.1
2461023000	Solvent - Consumer & Commercial Solvent Use	Asphalt Roofing	4.38	24.0
2461025100	Solvent - Consumer & Commercial Solvent Use	Asphalt Paving: Hot and Warm Mix	23.57	129.1
2461025200	Solvent - Consumer & Commercial Solvent Use	Asphalt Paving: Hot and Warm Mix	0.37	2.0
2461850000	Solvent - Consumer & Commercial Solvent Use	Pesticide Application: Agricultural	39.75	217.8
N/A	**Total**	**N/A**	**894.17**	**4,899.6**

Miscellaneous Non-Industrial Processes Not Elsewhere Classified

To calculate 2030 and 2038 emissions, annual and daily PM-2.5 and precursor emissions were projected from 2023 emissions based on MAG developed population and land use data for the

PM-2.5 NAA. Table III-21 through Table III-24 summarize annual and daily PM-2.5 and precursor emissions from miscellaneous non-industrial processes and not elsewhere classified sources for 2030 and 2038 in the PM-2.5 NAA.

Table III-21 2030 Annual PM-2.5 and precursor emissions from miscellaneous non-industrial processes and not elsewhere classified sources in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2806010000	Pet Cats	0.00	2.43	0.00	0.00	0.00
2806015000	Pet Dogs	0.00	16.99	0.00	0.00	0.00
2810003000	Cigarette Smoking	0.00	0.17	0.00	0.00	0.00
2810030000	Miscellaneous Non-Industrial NEC - Structure Fires	2.01	0.04	0.02	2.98	0.00
2810050000	Miscellaneous Non-Industrial NEC - Motor Vehicle Fires	0.30	0.00	0.02	0.06	0.01
2810060100	Miscellaneous Non-Industrial NEC - Human Cremation	0.25	0.00	0.44	0.04	0.27
2810090001	Miscellaneous Non-Industrial NEC - Campfires	1.15	0.09	0.13	0.92	0.02
2812001000	Miscellaneous Non-Industrial NEC - Residential Cooking	3.98	0.00	0.00	0.42	0.00
2813010000	Human Perspiration and Respiration	0.00	1.89	0.00	0.00	0.00
2813020000	Diapers	0.00	0.08	0.00	0.00	0.00
N/A	**Total**	**7.69**	**21.69**	**0.61**	**4.41**	**0.30**

Table III-22 2030 Daily PM-2.5 and precursor emissions from miscellaneous non-industrial processes and not elsewhere classified sources in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2806010000	Pet Cats	0.0	13.3	0.0	0.0	0.0
2806015000	Pet Dogs	0.0	93.1	0.0	0.0	0.0
2810003000	Cigarette Smoking	0.0	0.9	0.0	0.0	0.0
2810030000	Miscellaneous Non-Industrial NEC - Structure Fires	11.0	0.2	0.1	16.3	0.0
2810050000	Miscellaneous Non-Industrial NEC - Motor Vehicle Fires	1.6	0.0	0.1	0.3	0.1
2810060100	Miscellaneous Non-Industrial NEC - Human Cremation	1.4	0.0	2.4	0.2	1.5
2810090001	Miscellaneous Non-Industrial NEC - Campfires	6.3	0.5	0.7	5.0	0.1
2812001000	Miscellaneous Non-Industrial NEC - Residential Cooking	21.8	0.0	0.0	2.3	0.0
2813010000	Human Perspiration and Respiration	0.0	10.4	0.0	0.0	0.0
2813020000	Diapers	0.0	0.4	0.0	0.0	0.0
N/A	**Total**	**42.1**	**118.9**	**3.3**	**24.2**	**1.7**

Table III-23 2038 Annual PM-2.5 and precursor emissions from miscellaneous non-industrial processes and not elsewhere classified sources in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2806010000	Pet Cats	0.00	2.86	0.00	0.00	0.00
2806015000	Pet Dogs	0.00	19.97	0.00	0.00	0.00
2810003000	Cigarette Smoking	0.00	0.20	0.00	0.00	0.00
2810030000	Miscellaneous Non-Industrial NEC - Structure Fires	2.22	0.05	0.02	3.29	0.00
2810050000	Miscellaneous Non-Industrial NEC - Motor Vehicle Fires	0.29	0.00	0.02	0.06	0.01
2810060100	Miscellaneous Non-Industrial NEC - Human Cremation	0.25	0.00	0.44	0.04	0.27
2810090001	Miscellaneous Non-Industrial NEC - Campfires	1.35	0.10	0.15	1.08	0.02
2812001000	Miscellaneous Non-Industrial NEC - Residential Cooking	4.68	0.00	0.00	0.49	0.00
2813010000	Human Perspiration and Respiration	0.00	2.22	0.00	0.00	0.00
2813020000	Diapers	0.00	0.09	0.00	0.00	0.00
N/A	**Total**	**8.79**	**25.50**	**0.63**	**4.95**	**0.31**

Table III-24 2038 Daily PM-2.5 and precursor emissions from miscellaneous non-industrial processes and not elsewhere classified sources in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	PM-2.5	NH_3	NO_X	VOC	SO_2
2806010000	Pet Cats	0.0	15.7	0.0	0.0	0.0
2806015000	Pet Dogs	0.0	109.4	0.0	0.0	0.0
2810003000	Cigarette Smoking	0.0	1.1	0.0	0.0	0.0
2810030000	Miscellaneous Non-Industrial NEC - Structure Fires	12.2	0.3	0.1	18.0	0.0
2810050000	Miscellaneous Non-Industrial NEC - Motor Vehicle Fires	1.6	0.0	0.1	0.3	0.1
2810060100	Miscellaneous Non-Industrial NEC - Human Cremation	1.4	0.0	2.4	0.2	1.5
2810090001	Miscellaneous Non-Industrial NEC - Campfires	7.4	0.6	0.8	5.9	0.1
2812001000	Miscellaneous Non-Industrial NEC - Residential Cooking	25.6	0.0	0.0	2.7	0.0
2813010000	Human Perspiration and Respiration	0.0	12.2	0.0	0.0	0.0
2813020000	Diapers	0.0	0.5	0.0	0.0	0.0
N/A	**Total**	**48.2**	**139.7**	**3.5**	**27.1**	**1.7**

Other Agricultural Livestock Sources

Annual and daily PM-2.5 and precursor emissions for other agricultural livestock sources remain mostly constant for 2030 and 2038. Emissions were projected from 2023 emissions by applying spatial surrogates based on MAG developed land use data for the PM-2.5 NAA to reflect expected changes in land uses in 2030 and 2038. Table III-25 through Table III-28 summarize annual and daily PM-2.5 and precursor emissions from other agricultural livestock sources for 2030 and 2038 in the PM-2.5 NAA.

Table III-25 2030 Annual PM-2.5 and precursor emissions from other agricultural livestock sources in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	SCC Level	PM-2.5	NH_3	NO_X	VOC	SO_2
2805007100	Agricultural Livestock	Waste - Layers	0.00	16.45	0.00	1.32	0.00
2805009100	Agricultural Livestock	Waste - Broilers	0.00	0.02	0.00	0.00	0.00
2805010100	Agricultural Livestock	Waste - Turkeys	0.00	0.01	0.00	0.00	0.00
2805025000	Agricultural Livestock	Waste - Swine	0.00	51.77	0.00	4.14	0.00
2805035000	Agricultural Livestock	Waste - Horses	0.00	7.48	0.00	0.60	0.00
2805040000	Agricultural Livestock	Waste - Sheep	0.00	1.39	0.00	0.11	0.00
2805045000	Agricultural Livestock	Waste - Goats	0.00	0.41	0.00	0.03	0.00
2805002000	Agricultural Livestock	Waste - CAFOs	0.00	1,174.18	0.00	93.93	0.00
2805018000	Agricultural Livestock	Waste - Dairies	0.00	2,803.22	0.00	224.26	0.00
2805100040	Agriculture - Crops & Livestock	Dust - Hooves Layers	0.20	0.00	0.00	0.00	0.00
2805100050	Agriculture - Crops & Livestock	Dust - Hooves Swine	0.02	0.00	0.00	0.00	0.00
N/A	**Total**	**N/A**	**0.22**	**4,054.93**	**0.00**	**324.39**	**0.00**

Table III-26 2030 Daily PM-2.5 and precursor emissions from other agricultural livestock sources in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	SCC Level	PM-2.5	NH_3	NO_X	VOC	SO_2
2805007100	Agricultural Livestock	Waste - Layers	0.0	90.2	0.0	7.2	0.0
2805009100	Agricultural Livestock	Waste - Broilers	0.0	0.1	0.0	0.0	0.0
2805010100	Agricultural Livestock	Waste - Turkeys	0.0	0.1	0.0	0.0	0.0
2805025000	Agricultural Livestock	Waste - Swine	0.0	283.7	0.0	22.7	0.0
2805035000	Agricultural Livestock	Waste - Horses	0.0	41.0	0.0	3.3	0.0
2805040000	Agricultural Livestock	Waste - Sheep	0.0	7.6	0.0	0.6	0.0
2805045000	Agricultural Livestock	Waste - Goats	0.0	2.2	0.0	0.2	0.0
2805002000	Agricultural Livestock	Waste - CAFOs	0.0	6,433.9	0.0	514.7	0.0
2805018000	Agricultural Livestock	Waste - Dairies	0.0	15,360.1	0.0	1,228.8	0.0
2805100040	Agriculture - Crops & Livestock	Dust - Hooves Layers	1.1	0.0	0.0	0.0	0.0
2805100050	Agriculture - Crops & Livestock	Dust - Hooves Swine	0.1	0.0	0.0	0.0	0.0
N/A	**Total**	**N/A**	**1.2**	**22,218.9**	**0.0**	**1,777.5**	**0.0**

Table III-27 2038 Annual PM-2.5 and precursor emissions from other agricultural livestock sources in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	SCC Level	PM-2.5	NH_3	NO_X	VOC	SO_2
2805007100	Agricultural Livestock	Waste - Layers	0.00	16.65	0.00	1.33	0.00
2805009100	Agricultural Livestock	Waste - Broilers	0.00	0.02	0.00	0.00	0.00
2805010100	Agricultural Livestock	Waste - Turkeys	0.00	0.01	0.00	0.00	0.00
2805025000	Agricultural Livestock	Waste - Swine	0.00	52.40	0.00	4.19	0.00
2805035000	Agricultural Livestock	Waste - Horses	0.00	7.57	0.00	0.61	0.00
2805040000	Agricultural Livestock	Waste - Sheep	0.00	1.41	0.00	0.11	0.00
2805045000	Agricultural Livestock	Waste - Goats	0.00	0.41	0.00	0.03	0.00
2805002000	Agricultural Livestock	Waste - CAFOs	0.00	1,180.83	0.00	94.47	0.00
2805018000	Agricultural Livestock	Waste - Dairies	0.00	2,819.10	0.00	225.53	0.00
2805100040	Agriculture - Crops & Livestock	Dust - Hooves Layers	0.21	0.00	0.00	0.00	0.00
2805100050	Agriculture - Crops & Livestock	Dust - Hooves Swine	0.02	0.00	0.00	0.00	0.00
N/A	**Total**	**N/A**	**0.22**	**4,078.40**	**0.00**	**326.27**	**0.00**

Table III-28 2038 Daily PM-2.5 and precursor emissions from other agricultural livestock sources in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	SCC Level	PM-2.5	NH_3	NO_X	VOC	SO_2
2805007100	Agricultural Livestock	Waste - Layers	0.0	91.2	0.0	7.3	0.0
2805009100	Agricultural Livestock	Waste - Broilers	0.0	0.1	0.0	0.0	0.0
2805010100	Agricultural Livestock	Waste - Turkeys	0.0	0.1	0.0	0.0	0.0
2805025000	Agricultural Livestock	Waste - Swine	0.0	287.1	0.0	23.0	0.0
2805035000	Agricultural Livestock	Waste - Horses	0.0	41.5	0.0	3.3	0.0
2805040000	Agricultural Livestock	Waste - Sheep	0.0	7.7	0.0	0.6	0.0
2805045000	Agricultural Livestock	Waste - Goats	0.0	2.2	0.0	0.2	0.0
2805002000	Agricultural Livestock	Waste - CAFOs	0.0	6,470.3	0.0	517.6	0.0
2805018000	Agricultural Livestock	Waste - Dairies	0.0	15,447.1	0.0	1235.8	0.0
2805100040	Agriculture - Crops & Livestock	Dust - Hooves Layers	1.1	0.0	0.0	0.0	0.0
2805100050	Agriculture - Crops & Livestock	Dust - Hooves Swine	0.1	0.0	0.0	0.0	0.0
N/A	**Total**	**N/A**	**1.2**	**22,347.3**	**0.0**	**1,787.8**	**0.0**

Agricultural Fertilizer

NH_3 emissions from agricultural fertilizers for the interim and maintenance years are projected using the growth factor for total agricultural acreage within the PM-2.5 NAA. Because the best available MAG agricultural acreage data are for 2024, the projected-year growth factors were calculated relative to the 2024 acreage and applied to the 2023 baseline NH_3 emissions. Table III-29 presents the MAG land use projections of total agricultural acreage for 2030 and 2038, and Table III-30 presents the resulting projected NH_3 emissions.

Table III-29 MAG-projected total agricultural acreage for 2024, 2030, and 2038

Year	Total Acreage	Growth Factor
2024	76,079	N/A
2030	74,837	0.9837
2038	73,243	0.9627

Table III-30 2030 and 2038 Annual and daily agricultural fertilizer emissions for the PM-2.5 NAA

Year	Annual NH_3 Emissions (tons/year)	Daily NH_3 Emissions (lbs/day)
2030	510.73	2,798.5
2038	491.68	2,694.2

Agricultural Silage

2030 and 2038 annual and daily VOC emissions for agricultural silage were expected to remain mostly constant as silage activity mirrors CAFO and dairy activity. Emissions are projected from 2023 emissions by applying spatial surrogates based on MAG developed land use data for the PM-2.5 NAA. Table III-31 and

Table III-32 summarize annual and VOC emissions from other agricultural silage for 2030 and 2038 in the PM-2.5 NAA.

Table III-31 2030 Annual and daily VOC emissions from agricultural silage sources in the PM-2.5 NAA

SCC #	SCC Description	SCC Level	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
2802004001	Agricultural Silage	Storage	374.22	2,050.5
2802004002	Agricultural Silage	Mixing	28.03	153.6
2802004003	Agricultural Silage	Feeding	272.95	1,495.6
N/A	**Total**	**N/A**	**675.20**	**3,699.7**

Table III-32 2038 Annual and daily VOC emissions from agricultural silage sources in the PM-2.5 NAA

SCC #	SCC Description	SCC Level	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
2802004001	Agricultural Silage	Storage	376.34	2,062.1
2802004002	Agricultural Silage	Mixing	28.190	154.5
2802004003	Agricultural Silage	Feeding	274.50	1,504.1
N/A	**Total**	**N/A**	**679.04**	**3,720.7**

Petroleum Products Storage and Handling

To calculate 2030 and 2038 emissions, annual and daily precursor emissions were projected by applying surrogates based on MAG developed population data for the PM-2.5 NAA. Table III-33 through Table III-36 summarize annual and daily VOC emissions from petroleum products storage and handling for 2030 and 2038 in the PM-2.5 NAA.

Table III-33 2030 Annual VOC emissions from petroleum products storage and handling in the PM-2.5 NAA (tons/year)

SCC	SCC Description	SCC Level	VOC
2501011011	Residential Gas Can	Permeation	0.56
2501011012	Residential Gas Can	Evaporation (Includes Diurnal Losses)	0.63
2501011014	Residential Gas Can	Refilling at the Pump - Vapor Displacement	0.20
2501012011	Commercial Gas Can	Permeation	0.04
2501012012	Commercial Gas Can	Evaporation (Includes Diurnal Losses)	0.03
2501012014	Commercial Gas Can	Refilling at the Pump - Vapor Displacement	0.85
2501080050	Aviation - Gas Stations	Stage 1: Total	11.27
2501080100	Aviation - Gas Stations	Stage 2: Total	0.42
N/A	**Total**	**N/A**	**13.99**

Table III-34 2030 Daily VOC emissions from petroleum products storage and handling in the PM-2.5 NAA (lbs/day)

SCC	SCC Description	SCC Level	VOC
2501011011	Residential Gas Can	Permeation	3.1
2501011012	Residential Gas Can	Evaporation (Includes Diurnal Losses)	3.4
2501011014	Residential Gas Can	Refilling at the Pump - Vapor Displacement	1.1
2501012011	Commercial Gas Can	Permeation	0.2
2501012012	Commercial Gas Can	Evaporation (Includes Diurnal Losses)	0.2
2501012014	Commercial Gas Can	Refilling at the Pump - Vapor Displacement	4.7
2501080050	Aviation - Gas Stations	Stage 1: Total	61.7
2501080100	Aviation - Gas Stations	Stage 2: Total	2.3
N/A	**Total**	**N/A**	**76.7**

Table III-35 2038 Annual VOC emissions from petroleum products storage and handling in the PM-2.5 NAA (tons/year)

SCC	SCC Description	SCC Level	VOC
2501011011	Residential Gas Can	Permeation	0.66
2501011012	Residential Gas Can	Evaporation (Includes Diurnal Losses)	0.74
2501011014	Residential Gas Can	Refilling at the Pump - Vapor Displacement	0.23
2501012011	Commercial Gas Can	Permeation	0.04
2501012012	Commercial Gas Can	Evaporation (Includes Diurnal Losses)	0.04
2501012014	Commercial Gas Can	Refilling at the Pump - Vapor Displacement	1.00
2501080050	Aviation - Gas Stations	Stage 1: Total	11.27
2501080100	Aviation - Gas Stations	Stage 2: Total	0.42
N/A	**Total**	**N/A**	**14.39**

Table III-36 2038 Daily VOC emissions from petroleum products storage and handling in the PM-2.5 NAA (lbs/day)

SCC	SCC Description	SCC Level	VOC
2501011011	Residential Gas Can	Permeation	3.6
2501011012	Residential Gas Can	Evaporation (Includes Diurnal Losses)	4.0
2501011014	Residential Gas Can	Refilling at the Pump - Vapor Displacement	1.3
2501012011	Commercial Gas Can	Permeation	0.2
2501012012	Commercial Gas Can	Evaporation (Includes Diurnal Losses)	0.2
2501012014	Commercial Gas Can	Refilling at the Pump - Vapor Displacement	5.5
2501080050	Aviation - Gas Stations	Stage 1: Total	61.7
2501080100	Aviation - Gas Stations	Stage 2: Total	2.3
N/A	**Total**	**N/A**	**78.9**

Waste Disposal, Treatment, and Recovery

To calculate 2030 and 2038 emissions, annual and daily 2023 precursor emissions were projected by applying surrogates based on MAG developed population data for the PM-2.5 NAA. Table III-37 and Table III-38 summarize annual and daily precursor emissions from waste disposal, treatment, and recovery for 2030 and 2038 in the PM-2.5 NAA.

Table III-37 2030 Annual and daily precursor emissions from waste disposal, treatment, and recovery in the PM-2.5 NAA

SCC #	SCC Description	SCC Level	Annual NH_3 Emissions (tons/year)	Daily NH_3 Emissions (lbs/day)	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
2680003000	Greenwaste Composting	100% Green Waste (e.g., residential or municipal yard wastes) All Processes	1.00	5.5	7.05	38.6

Table III-38 2038 Annual and daily precursor emissions from waste disposal, treatment, and recovery in the PM-2.5 NAA

SCC #	SCC Description	SCC Level	Annual NH_3 Emissions (tons/year)	Daily NH_3 Emissions (lbs/day)	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
2680003000	Greenwaste Composting	100% Green Waste (e.g., residential or municipal yard wastes) All Processes	1.17	6.4	8.28	45.5

Wildfires

For the 2023 attainment year, actual wildfire data were used. To remain conservative, emissions for 2030 and 2038 were held constant at the 2023 level. Table III-39 and Table III-40 summarize annual and daily PM-2.5 and precursor emissions from wildfires for 2030 and 2038 in the PM-2.5 NAA.

Table III-39 2030 and 2038 Annual PM-2.5 and precursor emissions from wildfires in the PM-2.5 NAA (tons/year)

SCC #	SCC Description	SCC Level	PM-2.5	NH_3	NO_X	VOC	SO_2
2810072001	Fires - Wildfires	Grassland Wildfires - Smoldering + Flaming	0.65	0.06	0.05	0.95	0.07
2810073001	Fires - Wildfires	Shrubland Wildfires - Smoldering + Flaming	6.63	0.93	1.18	10.47	0.44
2810073002	Fires - Wildfires	Shrubland Wildfires - CWD Residual Smoldering	1.46	0.02	0.00	1.70	0.00
2810073003	Fires - Wildfires	Shrubland Wildfires - Duff Residual Smoldering	0.09	0.01	0.00	0.46	0.00
N/A	**Total**	**N/A**	**8.83**	**1.02**	**1.23**	**13.58**	**0.51**

Table III-40 2030 and 2038 Daily PM-2.5 and precursor emissions from wildfires in the PM-2.5 NAA (lbs/day)

SCC #	SCC Description	SCC Level	PM-2.5	NH_3	NO_X	VOC	SO_2
2810072001	Fires - Wildfires	Grassland Wildfires - Smoldering + Flaming	3.6	0.3	0.3	5.2	0.4
2810073001	Fires - Wildfires	Shrubland Wildfires - Smoldering + Flaming	36.3	5.1	6.5	57.4	2.4
2810073002	Fires - Wildfires	Shrubland Wildfires - CWD Residual Smoldering	8.0	0.1	0.0	9.3	0.0
2810073003	Fires - Wildfires	Shrubland Wildfires - Duff Residual Smoldering	0.5	0.1	0.0	2.5	0.0
N/A	**Total**	**N/A**	**48.4**	**5.6**	**6.7**	**74.4**	**2.8**

5. Open Burning

PM-2.5 and VOC emissions from open burning in the 2030 interim and 2038 maintenance years are estimated using the same methodology based on permitting that was applied for the 2023 attainment year, as described in Chapter II.

For this analysis, permit data constant have been kept constant, resulting in a conservative estimate projection. PM-2.5 and VOC emissions were allocated using spatial and temporal surrogates from nonpoint-source categories within the PM-2.5 NAA, based on land use types. For example, open burning emissions from agricultural clearing decrease over time as agricultural land is converted to other uses.

Table III-41 and Table III-42 summarize the annual and daily PM-2.5 emissions from open burning for 2030 and 2038 in the PM-2.5 NAA.

Table III-41 2030 Annual and daily PM-2.5 and VOC emissions from open burning in the PM-2.5 NAA

Open Burning Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
Agriculture	37.65	356.9	22.59	214.1
Commercial	0.05	0.5	0.03	0.3
Residential	0.97	9.2	0.58	5.5
Land Clearing	1.17	11.1	0.70	6.7
Total	**39.85**	**377.7**	**23.91**	**226.6**

Table III-42 2038 Annual and daily PM-2.5 and VOC emissions from open burning in the PM-2.5 NAA

Open Burning Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)	Annual VOC Emissions (tons/year)	Daily VOC Emissions (lbs/day)
Agriculture	36.85	349.3	22.11	209.6
Commercial	0.06	0.6	0.04	0.4
Residential	1.06	10.1	0.64	6.0
Land Clearing	1.05	9.9	0.63	6.0
Total	**39.02**	**369.9**	**23.41**	**221.9**

6. Unpaved Parking

Nonattainment area PM-2.5 emissions from unpaved parking lots for the 2030 interim and 2038 maintenance years are estimated using the same methodology applied for the 2023 attainment year, as described in Chapter II.B.6. Total 2030 and 2038 annual and daily PM-2.5 emissions from unpaved parking lots in the PM-2.5 NAA are summarized in Table III-43.

Table III-43 2030 and 2038 Annual and daily PM-2.5 emissions from vehicle travel on unpaved parking lots

Source Category	2030 Annual PM-2.5 Emissions (tons/year)	2038 Annual PM-2.5 Emissions (tons/year)	2030 Daily PM-2.5 Emissions (lbs/day)	2038 Daily PM-2.5 Emissions (lbs/day)
Unpaved Parking Lots	18.09	17.80	99.1	97.5

Emission factors and activity levels on unpaved parking lots are assumed to be constant between 2023, 2030, and 2038. Changes in emissions from the 2023 attainment year to 2030 and 2038 are driven by (1) variations in land use acreages for vacant and developing lands; and (2) increased control effectiveness. Regarding land use changes, both land use categories experience slight decreases in acreage relative to 2023. The largest change in PM-2.5 NAA emissions is due to increases in the control effectiveness of PCAQCD rules that limit fugitive dust emissions from unpaved parking lots. In accordance with the 2023 Five Percent Plan for PM-10 (MAG, 2023), the control effectiveness of PCAQCD rules increase from 42% in 2023 to 63% in 2027 and beyond. This is due to an increase in rule effectiveness and an assumption of an increase in the use of chemical stabilization along with the use of gravel as control measures. The emission reduction effectiveness of gravel and chemical stabilization is assumed to be the same for PM-2.5 as it is for PM-10.

7. Windblown Dust

As shown in Table III-44, the PM-2.5 windblown dust emissions for the 2030 interim year and 2038 maintenance year were assumed to be the same as those in the 2023 attainment year.

Table III-44 2030 and 2038 Annual and daily PM-2.5 windblown dust emissions in the PM-2.5 NAA

Category	Annual Emissions (tons/year)	Daily Emissions (lbs/day)
Windblown Dust	71.94	394.2

C. Nonroad Mobile Sources

PM-2.5 and precursor emissions from vehicles or equipment not licensed or certified as highway vehicles were calculated using EPA's MOVES5 model, except for the emissions from aircraft, GSE, and APU for airport sources, which were calculated using EPA's AEDT model.

1. MOVES5 Model Sources

Interim year (2030) and maintenance year (2038) nonroad emissions for most categories were produced by running MOVES5 for each future year using the same local meteorology and fuel inputs as for the attainment year. MAG land use projections for 2030 and 2038 were used to spatially allocate the nonroad emissions for each nonroad category to the PM-2.5 NAA.

A summary of annual and daily nonroad mobile source emissions for each category is provided in Table III-45 and Table III-46 (interim year) and Table III-47 and Table III-48 (maintenance year). Annual and daily PM-2.5 emissions for the interim and maintenance years were computed using the same methods as for the attainment year.

Table III-45 2030 Annual PM-2.5 and precursor emissions from nonroad mobile sources in the PM-2.5 NAA (tons/year)

Nonroad Mobile Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Agricultural	1.51	0.07	22.72	2.29	0.02
Commercial	0.24	0.02	3.03	5.91	0.00
Construction	3.28	0.25	46.40	14.07	0.08
Industrial	0.09	0.01	3.66	0.38	0.01
Lawn & Garden	2.30	0.03	5.89	39.77	0.02
Railway Maintenance	0.01	0.00	0.15	0.04	0.00
Recreation	0.18	0.00	0.67	7.36	0.00
Total	**7.61**	**0.38**	**82.52**	**69.82**	**0.13**

Table III-46 2030 Daily PM-2.5 and precursor emissions from nonroad mobile sources in the PM-2.5 NAA (lbs/day)

Nonroad Mobile Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Agricultural	9.6	0.5	145.0	14.3	0.2
Commercial	1.5	0.0	19.5	36.6	0.0
Construction	20.9	1.5	296.7	89.2	0.5
Industrial	0.6	0.1	21.2	2.4	0.0
Lawn & Garden	15.7	0.3	41.1	267.7	0.0
Railway Maintenance	0.1	0.0	1.0	0.3	0.0
Recreation	1.6	0.0	5.7	59.6	0.0
Total	**50.0**	**2.4**	**530.2**	**470.1**	**0.7**

Table III-47 2038 Annual PM-2.5 and precursor emissions from nonroad mobile sources in the PM-2.5 NAA (tons/year)

Nonroad Mobile Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Agricultural	0.56	0.07	12.23	1.31	0.02
Commercial	0.27	0.02	3.37	7.37	0.00
Construction	2.12	0.23	37.45	12.37	0.08
Industrial	0.15	0.01	6.15	0.64	0.01
Lawn & Garden	2.18	0.03	5.37	37.56	0.02
Railway Maintenance	0.01	0.00	0.08	0.03	0.00
Recreation	0.18	0.00	0.70	7.40	0.00
Total	**5.47**	**0.36**	**65.35**	**66.68**	**0.13**

Table III-48 2038 Daily PM-2.5 and precursor emissions from nonroad mobile sources in the PM-2.5 NAA (lbs/day)

Nonroad Mobile Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Agricultural	3.4	0.5	77.9	8.2	0.2
Commercial	1.7	0.2	21.6	45.6	0.0
Construction	13.6	1.6	239.3	78.1	0.5
Industrial	0.9	0.1	35.8	3.9	0.1
Lawn & Garden	14.8	0.3	37.4	252.6	0.0
Railway Maintenance	0.0	0.0	0.5	0.2	0.0
Recreation	1.6	0.0	5.6	60.2	0.0
Total	**36.0**	**2.7**	**418.1**	**448.8**	**0.8**

2. Airport

Interim year and maintenance year airport emissions were estimated based on projected airport operations. For Ak-Chin Regional Airport, the FAA Terminal Area Forecast (TAF) projected 39,350 general aviation operations in 2030. This represents a growth factor of 1.1348 relative to the 2023 operations total of 34,675. For 2038, operations at Ak-Chin Regional Airport were assumed to remain the same as the FAA's 2030 TAF projection.

Because no airport-specific operations forecast was available for Arizona Soaring, the FAA TAF-based growth factor developed for Ak-Chin Regional Airport was used as a surrogate growth factor for Arizona Soaring's 2023 activity level to estimate operations for 2030 and 2038. Table III-49 summarizes general aviation operations at the two airports for the 2023 attainment year, the 2030 interim year, and the 2038 maintenance year.

Table III-49 Airport operations at two airports within the PM-2.5 NAA in 2023, 2030, and 2038

Airport	FAA LID	2023	2030	2038
Ak-Chin Regional	A39	34,675	39,350	39,350
Arizona Soaring	E68	25,200	28,598	28,598

Because the 2030 and 2038 operations were assumed to be the same, the estimated annual emissions for GSE, APUs, and aircraft are also the same for both years. Table III-50 presents annual airport emissions for 2030 and 2038, and Table III-51 presents the corresponding daily emissions.

Table III-50 2030 and 2038 Annual airport emissions in the PM-2.5 NAA, assuming the same operations (tons/year)

Airport	FAA LID	Source	PM-2.5	NH_3	NO_x	VOC	SO_2
Ak-Chin Regional	A39	GSE+APUs	0.00	-	0.00	0.00	0.00
Ak-Chin Regional	A39	Aircraft	0.22	-	0.42	3.02	0.30
Arizona Soaring	E68	GSE+APUs	0.00	-	0.00	0.00	0.00
Arizona Soaring	E68	Aircraft	0.18	-	0.15	3.08	0.35
Total	**N/A**	**N/A**	**0.41**	**-**	**0.57**	**6.10**	**0.66**

Table III-51 2030 and 2038 Daily airport emissions in the PM-2.5 NAA, assuming the same operations (lbs/day)

Airport	FAA LID	Source	PM-2.5	NH_3	NO_X	VOC	SO_2
Ak-Chin Regional	A39	GSE+APUs	0.0	-	0.0	0.0	0.0
Ak-Chin Regional	A39	Aircraft	1.2	-	2.3	16.5	1.7
Arizona Soaring	E68	GSE+APUs	0.0	-	0.0	0.0	0.0
Arizona Soaring	E68	Aircraft	1.0	-	0.8	16.9	1.9
Total	**N/A**	**N/A**	**2.2**	**-**	**3.1**	**33.4**	**3.6**

3. Locomotive

Table III-52 and Table III-53 show that locomotive emissions for the 2030 interim year and 2038 maintenance year are assumed to be the same as those in the 2023 attainment year.

Table III-52 2030 and 2038 Annual locomotive emissions in the PM-2.5 NAA (tons/year)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Locomotive	2.29	0.06	90.77	3.75	0.07

Table III-53 2030 and 2038 Daily locomotive emissions in the PM-2.5 NAA (lbs/day)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Locomotive	12.5	0.3	497.4	20.6	0.4

D. Onroad Mobile Sources

Consistent with the attainment year, interim year and maintenance year emissions from exhaust, brake wear and tire wear are calculated using EPA's MOVES5 model. Paved and unpaved road fugitive dust PM-2.5 emissions are calculated using EPA's AP-42 equations.

1. MOVES5 Model Sources – Exhaust, Brake Wear, and Tire Wear

On-road emissions inventories for the 2030 interim year and the 2038 maintenance year were developed using MOVES5, MAG Activity Based Model (ABM) transportation network assignment data, and local inputs specific to the PM-2.5 NAA. The methodology integrates regional transportation activity, vehicle fleet characteristics, and attainment year environmental and programmatic data to produce consistent emissions estimates for interim and maintenance years.

The MAG transportation modeling group provided ABM network assignment outputs for both interim and attainment years. These datasets were processed to generate annual VMT, road type distribution, and average speed distribution for the interim and attainment years. These activity metrics reflect projected travel demand and network performance for the 2030 and 2038 scenarios.

Vehicle fleet characteristics for the interim and attainment years were derived from the 2025 vehicle registration data and transit bus information provided by ADOT, processed using the ERG's vehicle classification scripts. The ERG script decodes the VIN for each vehicle in the ADOT dataset, extracts vehicles registered in Pinal County, assigns each vehicle to the appropriate MOVES source type category, and aggregates the results to produce MOVES-ready source type population totals, source type age distributions, and AVFT for Pinal County in 2025. The countywide vehicle population generated by the ERG script was scaled to the PM-2.5 NAA based on the ratio of Pinal County's human population to that of the PM-2.5 NAA. Age distributions for most MOVES source types were generated by the ERG script. Transit bus age distributions (source type 42) were derived from local transit data, long-haul truck age distributions (source types 53 and 62) were taken from the MOVES5 national defaults for Pinal County. The ERG script produced AVFT values for most source types using VIN-decoded registration data, except for transit buses and long-haul trucks. Transit bus AVFT values were developed from local data provided by ADOT, and long-haul truck AVFT values were taken from the MOVES5 national default AVFT.

The 2025 source type population, source type age distribution, and AVFT were projected to 2030 and 2038 to align with MOVES5's internal growth and technology assumptions. Source type population was projected based on the MOVES5 default source type projection ratios for Pinal County. Source type age distribution was projected using the MOVES5 age distribution projection tool. AVFT values were projected using the MOVES5 AVFT projection tool. For each source type, the electric-vehicle penetration rate for model year 2025 was then applied consistently to all subsequent model years.

All remaining inputs - including meteorological data, I/M programs, VMT fraction, and fuel data - were carried forward from the attainment year dataset. This approach maintains methodological consistency across the attainment, interim, and maintenance years.

Table III-54 and Table III-55 summarize the interim year annual and daily onroad mobile emissions, and Table III-56 and Table III-57 summarize the corresponding emissions for the maintenance year within the PM-2.5 NAA.

Table III-54 2030 Annual emissions from onroad mobile sources within the PM-2.5 NAA (tons/year)

Source Type	PM-2.5	NH_3	NO_X	VOC	SO_2
Motorcycle	0.02	0.04	0.66	13.62	0.00
Passenger Car	0.99	4.69	12.93	57.65	0.21
Passenger Truck	3.01	8.57	60.06	105.82	0.59
Light Commercial Truck	0.19	0.24	4.70	3.94	0.02
Other Buses	0.07	0.09	1.70	0.45	0.00
Transit Bus	0.00	0.03	0.22	0.18	0.00
School Bus	0.02	0.01	0.57	0.08	0.00
Refuse Truck	0.00	0.00	0.09	0.00	0.00
Single Unit Short-haul Truck	0.38	0.74	12.75	3.05	0.04
Single Unit Long-haul Truck	0.03	0.05	0.64	0.19	0.00
Motor Home	0.14	0.16	3.24	2.49	0.00
Combination Short-haul Truck	0.30	0.60	12.71	0.71	0.03
Combination Long-haul Truck	0.72	1.47	31.59	1.69	0.06
Total	**5.87**	**16.69**	**141.86**	**189.87**	**0.95**

Table III-55 2030 Daily emissions from onroad mobile sources within the PM-2.5 NAA (lbs/day)

Source Type	PM-2.5	NH_3	NO_X	VOC	SO_2
Motorcycle	0.1	0.3	3.6	74.7	0.0
Passenger Car	5.5	25.6	70.9	316.0	1.1
Passenger Truck	16.5	47.1	329.1	579.9	3.3
Light Commercial Truck	1.0	1.3	25.7	21.6	0.0
Other Buses	0.3	0.4	9.3	2.5	0.0
Transit Bus	0.0	0.2	1.2	0.9	0.0
School Bus	0.1	0.1	3.2	0.4	0.0
Refuse Truck	0.0	0.0	0.5	0.0	0.0
Single Unit Short-haul Truck	2.1	4.1	69.8	16.7	0.3
Single Unit Long-haul Truck	0.1	0.3	3.5	0.9	0.0
Motor Home	0.7	0.8	17.8	13.6	0.0
Combination Short-haul Truck	1.7	3.2	69.7	3.9	0.2
Combination Long-haul Truck	3.9	8.0	173.1	9.3	0.3
Total	**32.0**	**91.4**	**777.4**	**1,040.4**	**5.2**

Table III-56 2038 Annual emissions from onroad mobile sources within the PM-2.5 NAA (tons/year)

Source Type	PM-2.5	NH_3	NO_X	VOC	SO_2
Motorcycle	0.03	0.05	0.83	12.25	0.00
Passenger Car	0.70	3.63	4.80	28.18	0.14
Passenger Truck	2.57	9.39	29.40	79.47	0.61
Light Commercial Truck	0.11	0.29	2.90	2.50	0.02
Other Buses	0.04	0.14	1.54	0.39	0.00
Transit Bus	0.00	0.05	0.22	0.16	0.00
School Bus	0.01	0.03	0.44	0.05	0.00
Refuse Truck	0.00	0.00	0.08	0.00	0.00
Single Unit Short-haul Truck	0.29	0.95	11.00	2.39	0.05
Single Unit Long-haul Truck	0.03	0.07	0.51	0.15	0.00
Motor Home	0.11	0.22	2.25	1.67	0.01
Combination Short-haul Truck	0.29	0.94	11.64	0.70	0.04
Combination Long-haul Truck	0.58	2.32	24.92	1.83	0.10
Total	**4.76**	**18.08**	**90.53**	**129.74**	**0.97**

Table III-57 2038 Daily emissions from onroad mobile sources within the PM-2.5 NAA (lbs/day)

Source Type	PM-2.5	NH_3	NO_X	VOC	SO_2
Motorcycle	0.1	0.3	4.6	67.2	0.0
Passenger Car	3.9	20.0	26.2	154.4	0.8
Passenger Truck	14.1	51.4	161.2	435.6	3.4
Light Commercial Truck	0.6	1.6	15.9	13.7	0.0
Other Buses	0.2	0.7	8.4	2.1	0.0
Transit Bus	0.0	0.3	1.3	0.9	0.0
School Bus	0.0	0.1	2.3	0.3	0.0
Refuse Truck	0.0	0.0	0.5	0.0	0.0
Single Unit Short-haul Truck	1.6	5.2	60.3	13.1	0.3
Single Unit Long-haul Truck	0.0	0.3	2.8	0.9	0.0
Motor Home	0.6	1.2	12.3	9.1	0.0
Combination Short-haul Truck	1.6	5.1	63.9	3.9	0.2
Combination Long-haul Truck	3.1	12.7	136.6	10.0	0.5
Total	**25.8**	**98.9**	**496.3**	**711.2**	**5.2**

2. Paved Road Fugitive Dust

PM-2.5 emissions from re-entrained paved road dust for the 2030 interim year and the 2038 maintenance year were calculated in the same manner as the attainment year, using the AP-42 equation. The MAG ABM transportation network assignment data for the interim and maintenance years was used.

Average vehicle weights for freeways and arterials were derived from 2025 Pinal County vehicle registrations using ERG's vehicle classification scripts. These 2025 fleet inputs were then projected to 2030 and 2038 using MOVES5 tools and default growth assumptions. All remaining AP-42 inputs were carried forward from the attainment year dataset.

VMT by silt loading category was used to estimate paved road fugitive dust PM-2.5 emissions. Annual average daily VMT (AADT) by silt loading category for the PM-2.5 NAA was obtained from ABM network assignment outputs for both the interim and maintenance years. Table III-58 and Table III-59 present the annual average fugitive dust PM-2.5 emission factors for 2030 and 2038, derived using the AP-42 equation, along with the corresponding AADT values for the PM-2.5 NAA.

Table III-58 2030 Fugitive dust PM-2.5 emission factors for paved roads and AADT for the PM-2.5 NAA

Silt Loading Category	PM-2.5 Emissions Factor (grams/mile)	AADT (miles/day)
Freeway	0.0827	106,539
High ADT Arterial	0.0546	363,943
Low ADT Arterial	0.1677	489,187

Table III-59 2038 Fugitive dust PM-2.5 emission factors for paved roads and AADT for the PM-2.5 NAA

Silt Loading Category	PM-2.5 Emissions Factor (grams/mile)	AADT (miles/day)
Freeway	0.0866	155,152
High ADT Arterial	0.0556	493,009
Low ADT Arterial	0.1707	559,389

The PM-2.5 emissions from paved roads for 2030 and 2038 in the PM-2.5 NAA were calculated by multiplying the PM-2.5 emission factors by the AADT values, as shown in Table III-60 and Table III-61.

Table III-60 2030 Annual and daily PM-2.5 emissions from paved roads

Silt Loading Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Freeway	3.54	19.4
High ADT Arterial	7.99	43.8
Low ADT Arterial	33.01	180.9
Total	**44.54**	**244.1**

Table III-61 2038 Annual and daily PM-2.5 emissions from paved roads

Silt Loading Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Freeway	5.40	29.6
High ADT Arterial	11.02	60.4
Low ADT Arterial	38.42	210.5
Total	**54.84**	**300.5**

ARDP AADT for the interim and maintenance years was estimated by applying the growth rate of low ADT arterials in the ABM network between 2017 and the respective analysis year to the 2017 ARDP AADT values. Table III-62 and Table III-63 present the annual average fugitive dust PM-2.5 emission factors for ARDP roads for the interim and maintenance years, derived using the AP-42 equation, along with the corresponding AADT values for the Pinal PM-2.5 NAA.

Table III-62 2030 Fugitive dust PM-2.5 emission factors for ARDP roads and AADT for the PM-2.5 NAA

Silt Loading Category	PM-2.5 Emissions Factor (grams/mile)	AADT (miles/day)
ARDP Roads	0.1845	5,060

Table III-63 2038 Fugitive dust PM-2.5 emission factors for ARDP roads and AADT for the PM-2.5 NAA

Silt Loading Category	PM-2.5 Emissions Factor (grams/mile)	AADT (miles/day)
ARDP Roads	0.1878	5,786

The PM-2.5 emissions from ARDP roads for the interim and maintenance years in the PM-2.5 NAA were calculated by multiplying the PM-2.5 emission factors by the AADT values, as shown in Table III-64 and Table III-65.

Table III-64 2030 Annual and daily PM-2.5 emissions from ARDP roads

Silt Loading Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
ARDP Roads	0.38	2.1

Table III-65 2038 Annual and daily PM-2.5 emissions from ARDP roads

Silt Loading Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
ARDP Roads	0.44	2.4

Table III-66 and Table III-67 summarize the fugitive dust PM-2.5 emission totals for paved roads and ARDP roads in the PM-2.5 NAA for the interim and maintenance years.

Table III-66 2030 Annual and daily PM-2.5 emissions from paved and ARDP roads

Silt Loading Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Paved Roads	44.54	244.1
ARDP Roads	0.38	2.1
Total	**44.92**	**246.2**

Table III-67 2038 Annual and daily PM-2.5 emissions from paved and ARDP roads

Silt Loading Category	Annual PM-2.5 Emissions (tons/year)	Daily PM-2.5 Emissions (lbs/day)
Paved Roads	54.84	300.5
ARDP Roads	0.44	2.4
Total	**55.28**	**302.9**

3. Unpaved Road Fugitive Dust

Unpaved road fugitive dust emissions have been estimated for (1) unpaved agricultural roads, (2) unpaved public, private and trail roads, and (3) unpaved test tracks. Interim year 2030 and maintenance year 2038 PM-2.5 emissions from these three broad categories are described below.

Unpaved Agricultural Roads

A reduction percentage based on 2024 MAG Land Use Data for agriculture and abandoned agriculture was applied to 1,006.9 miles of unpaved agriculture roads in 2023 to determine the miles of unpaved agriculture roads present in 2030 and 2038. Based on the land use data, there was a reduction of 1.64% from 2023 to 2030, resulting in a remaining 990.4 miles of unpaved agriculture roads for 2030 and a reduction of 3.74% from 2023 to 2038, resulting in a remaining 969.2 miles of unpaved agriculture roads for 2038.

Average daily trips and average speed of vehicles traveling on unpaved agriculture roads vary within each of the three categories and are based upon activity data provided to ADEQ from Pinal County farmers. Table III-68 contains the average daily trips, miles of unpaved roads, average speed, and resulting vehicle miles traveled (VMT) for the three unpaved agricultural road categories for 2030 and 2038.

Table III-68 2030 and 2038 Average speed, average daily trips, miles of unpaved roads, and vehicle miles traveled for three unpaved agricultural road categories

Agricultural Road Category	Average Speed (mph)	Average Daily Trips	2030 Miles of Unpaved Roads	2038 Miles of Unpaved Roads	2030 Daily VMT	2038 Daily VMT
Non-Harvest	28.2	11.33	218.9	214.2	2,480	2,427
Inspection	28.2	11.33	671.5	657.1	7,608	7,445
Harvest	22.8	19.91	100.0	97.9	1,992	1,949
Total	**N/A**	**N/A**	**990.4**	**969.2**	**12,080**	**11,821**

Controlled PM-2.5 emissions from unpaved agricultural roads are the result of applying the emission reduction benefits from controls included in the 2023 Five Percent Plan to the uncontrolled emission values. In keeping with the assumption established in the 2023 Five Percent Plan, a control effectiveness percentage of 46.8% was applied to uncontrolled PM-2.5 emissions in 2030 and 2038. Average annual and daily PM-2.5 emissions were developed using the same methodology as described in II.D.3. Table III-69 contains the resulting controlled annual and daily PM-2.5 emissions from the three unpaved agricultural road categories for the 2030 interim and 2038 maintenance years.

Table III-69 2030 and 2038 Controlled annual and daily fugitive dust PM-2.5 emissions from unpaved agricultural roads in the PM-2.5 NAA

Agricultural Road Category	2030 Controlled Annual Emissions (tons/year)	2030 Controlled Daily Emissions (lbs/day)	2038 Controlled Annual Emissions (tons/year)	2038 Controlled Daily Emissions (lbs/day)
Non-Harvest	43.67	239.3	42.74	234.2
Inspection	133.99	734.2	131.12	718.4
Harvest	31.53	172.7	30.85	169.0
Total	**209.19**	**1,146.2**	**204.71**	**1,121.7**

Unpaved Public, Private and Trail Roads

Nonattainment area PM-2.5 average annual and daily emissions from unpaved public, private, and trail roads for the 2030 interim and 2038 maintenance years were estimated using the same methodology applied for the 2023 attainment year as described in Chapter II.D.3.

Average daily vehicle miles traveled on all unpaved public, private, and trail road segments were calculated by multiplying the assigned ADT values by the length in miles of the unpaved road segment. Unpaved public road ADT values for 2030 were generated by utilizing Paved Low-ADT Arterial VMT as a surrogate for growth. The growth factors from 2023 to 2030 (1.405) and 2023 to 2038 (1.606) were multiplied against the 2023 ADT values to produce 2030 and 2038 ADT values. 2030 and 2038 ADT values for private roads and trails were held constant with 2023 values.

Table III-70 and Table III-71 contain the average daily trips, miles of unpaved roads, average speed, and resulting vehicle miles traveled (VMT) for the unpaved public, private, and trail roads for the 2030 interim and 2038 maintenance years.

Table III-70 2030 Average speed, average daily trips, miles of unpaved roads, and vehicle miles traveled for unpaved public, private, and trail roads

Unpaved Road Category	Average Speed (mph)	Average ADT[a]	Miles of Unpaved Roads	Daily VMT
Public – Class A	29	29	1.75	52.18
Public – Class B	44	93	102.13	9,900.83
Public – Class C	37	182	1.26	229.40
Public – Class D	47	274	2.99	817.84
Public – Class E	40	1,034	1.90	1,968.57
Public – Total	**N/A**	**N/A**	**110.03**	**12,968.83**
Private – Non-Irrigation	25	27	270.21	7,324.63
Private – Principal Canal	25	15	102.11	1,531.68
Private – Secondary Canal	15	3	85.09	255.27
Private – Alleys	10	4	14.90	59.61
Private – Total	**N/A**	**N/A**	**385.11**	**7,699.12**
All Trails	**15**	**2**	**197.48**	**394.95**

a. The average ADT values are provided for information purposes only and have not been used to calculate daily VMT. Daily VMT is the sum of each individually calculated road segment VMT within each category.

Table III-71 2038 Average speed, average daily trips, miles of unpaved roads, and vehicle miles traveled for unpaved public, private, and trail roads

Unpaved Road Category	Average Speed (mph)	Average ADT[a]	Miles of Unpaved Roads	Daily VMT
Public – Class A	29	33	1.75	59.67
Public – Class B	44	106	102.13	11,321.67
Public – Class C	37	209	1.26	262.32
Public – Class D	47	313	2.99	935.21
Public – Class E	40	1,182	1.90	2,251.08
Public – Total	**N/A**	**N/A**	**110.03**	**14,829.96**
Private – Non-Irrigation	25	27	270.21	7,324.63
Private – Principal Canal	25	15	102.11	1,531.68
Private – Secondary Canal	15	3	85.09	255.27
Private – Alleys	10	4	14.90	59.61
Private – Total	**N/A**	**N/A**	**385.11**	**7,699.12**
All Trails	**15**	**2**	**197.48**	**394.95**

a. The average ADT values are provided for information purposes only and have not been used to calculate daily VMT. Daily VMT is the sum of each individually calculated road segment VMT within each category.

Emission factors and activity levels were assumed to remain constant from 2023 for unpaved private and trail roads for the 2030 interim and 2038 maintenance years, resulting in unchanged emission values.

Based on paving data supplied by PCAQCD in April 2026, an average of six miles of unpaved public roads per year were paved from 2016 through 2025 in the PM-2.5 NAA. However, a large portion of the paving activity occurred in 2016 and 2017. Recalculation of the paving average over the 2018-2025 period resulted in a rate of three miles per year. As this average was more representative of the activity occurring in the PM-2.5 NAA, the averaged three miles per year of paving was applied for future years to remain conservative. The cumulative paving factors (proportion of unpaved roads remaining unpaved) for 2030 (0.806) and for 2038 (0.584) were multiplied with their respective uncontrolled emission values to derive the controlled emission values.

Table III-72 contains the resulting controlled annual and daily PM-2.5 emissions from the unpaved public, private, and trails roads for the 2030 interim and 2038 maintenance years.

Table III-72 2030 and 2038 Annual and daily fugitive dust PM-2.5 emissions from unpaved public, private, and trail roads

Unpaved Road Category	2030 Annual PM-2.5 Emissions (tons/year)	2030 Daily PM-2.5 Emissions (lbs/day)	2038 Annual PM-2.5 Emissions (tons/year)	2038 Daily PM-2.5 Emissions (lbs/day)
Public – Class A	1.01	5.6	1.16	6.4
Public – Class B	191.05	1,046.8	158.39	867.9
Public – Class C	4.06	22.2	3.36	18.4
Public – Class D	16.31	89.4	13.52	74.1
Public – Class E	36.21	198.4	30.02	164.5
Public – Total	**248.64**	**1,362.4**	**206.47**	**1,131.3**
Private – Non-Irrigation	268.29	1,470.1	268.29	1,470.1
Private – Principal Canal	56.10	307.4	56.10	307.4
Private – Secondary Canal	7.24	39.7	7.24	39.7
Private – Alleys	1.38	7.6	1.38	7.6
Private – Total	**333.02**	**1,824.8**	**333.02**	**1,824.8**
All Trails	**11.20**	**61.4**	**11.20**	**61.4**

Unpaved Test Tracks

No additional or updated information on unpaved test tracks within the PM-2.5 NAA has been compiled. As such, the 2018 PM-2.5 emissions from unpaved test tracks developed for the ADEQ 2015 West Pinal Moderate SIP were assumed to be representative of 2030 and 2038 PM-2.5 emissions. Table III-73 summarizes the 2030 and 2038 annual and daily fugitive dust PM-2.5 emissions from unpaved test tracks in the PM-2.5 NAA, which remains unchanged from the 2023 emissions listed in Chapter II.D.3.

Table III-73 2030 and 2038 Annual and daily fugitive dust PM-2.5 emissions from unpaved test tracks in the PM-2.5 NAA

Source Category	2030 Annual PM-2.5 Emissions (tons/year)	2030 Daily PM-2.5 Emissions (lbs/day)	2038 Annual PM-2.5 Emissions (tons/year)	2038 Daily PM-2.5 Emissions (lbs/day)
Unpaved Test Tracks	26.42	144.4	26.42	144.4

E. Biogenic Sources

Biogenic emissions are held constant for the interim and maintenance years. Annual and daily emissions totals are identical to those for the attainment year as shown in Table III-74 and Table III-75.

Table III-74 2030 and 2038 Annual biogenic emissions in the PM-2.5 NAA (tons/year)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Biogenic	-	-	308.58	7,055.40	-

Table III-75 2030 and 2038 Daily biogenic emissions in the PM-2.5 NAA (lbs/day)

Source Category	PM-2.5	NH_3	NO_X	VOC	SO_2
Biogenic	-	-	1,684.1	38,436.8	-

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MAG 2026 REDESIGNATION REQUEST AND MAINTENANCE PLAN FOR THE WEST CENTRAL PINAL PM-2.5 NONATTAINMENT AREA

APPENDIX B
HIDDEN VALLEY PM-2.5 SPECIATION DATA (OCTOBER 2024-SEPTEMBER 2025)

OCTOBER 2026

MARICOPA ASSOCIATION of GOVERNMENTS

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Avg ambient temp		30.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Avg filter temp		30.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		End date			2024-10-05 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Max ambient temp		40.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Max filter temp		40.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Min ambient temp		19.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Min filter temp		19.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Sample volume		9.67		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Start date			2024-10-04 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	FIELD	9.67	I151251	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	LAB	9.67	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.16354	0.01691		TRUE	TRUE			FALSE	FALSE	FALSE	0.03417	0.005	0.00353	0.00052
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	LAB	9.67	I151251	Nylon Filter	Nitrate - PM2.5	Nitrate	10.0433	1.03861		TRUE	TRUE			FALSE	FALSE	FALSE	0.72806	0.008	0.07529	0.00083
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	LAB	9.67	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.3317	0.13771		TRUE	TRUE			FALSE	FALSE	FALSE	0.11323	0.005	0.01171	0.00052
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	LAB	9.67	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	13.5626	1.40254		TRUE	TRUE			FALSE	FALSE	FALSE	0.97686	0.005	0.10102	0.00052
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 6Y	Routine	LAB	9.67	I151251	Nylon Filter	Sulfate - PM2.5	Sulfate	17.5167	1.81145		TRUE	TRUE			FALSE	FALSE	FALSE	1.25642	0.011	0.12993	0.00114
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Avg ambient temp		30.3		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Avg filter temp		30.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		End date			2024-10-05 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Max ambient temp		40.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Max filter temp		40.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Min ambient temp		19.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Min filter temp		19.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Sample volume		9.678		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Start date			2024-10-04 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	FIELD	9.678	I153144	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	8.70202	0.89915		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.59706	0.26835		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.26686	0.02757		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.86392	0.29592		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.31405	0.34243		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.95212	0.09838		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	9.45828	0.9773		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	14.8085	1.53012		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.3135	0.4457		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	38.2344	3.95065		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	37.7843	3.90414		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	8.70202	0.89915		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	8.25189	0.85264		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 7Z	Routine	LAB	9.678	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	41.0983	4.24657		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Avg ambient temp		30.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Avg filter temp		30.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		End date			2024-10-05 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Max ambient temp		40.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Max filter temp		40.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Min ambient temp		19.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Min filter temp		19.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Sample volume		9.695		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Start date			2024-10-04 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	FIELD	9.695	I151240	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Aluminum	6.31783	0.65166		TRUE	TRUE			FALSE	FALSE	FALSE	0.53615	0.11605	0.0553	0.01197
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01462	0.04522
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Arsenic	0.01311	0.00135		TRUE	TRUE			FALSE	FALSE	FALSE	0.00662	0.01686	0.00068	0.00174
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Barium	0.46364	0.04782		TRUE	TRUE			FALSE	FALSE	FALSE	0.03457	0.02752	0.00357	0.00284
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Bromine	0.08362	0.00863		TRUE	TRUE			FALSE	FALSE	FALSE	0.01061	0.01548	0.00109	0.0016
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02535
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Calcium	8.70439	0.89782		TRUE	TRUE			FALSE	FALSE	FALSE	0.61589	0.02533	0.06353	0.00261
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Chlorine	9.65924	0.99631		TRUE	TRUE			FALSE	FALSE	FALSE	0.68398	0.02191	0.07055	0.00226

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cobalt	0.02656	0.00274		TRUE	TRUE			FALSE	FALSE	FALSE	0.00628	0.00991	0.00065	0.00102
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Copper	0.01559	0.00161		TRUE	TRUE			FALSE	FALSE	FALSE	0.0052	0.0114	0.00054	0.00118
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02412
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Iron	4.08269	0.42111		TRUE	TRUE			FALSE	FALSE	FALSE	0.28919	0.0134	0.02983	0.00138
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Magnesium	1.85433	0.19127		TRUE	TRUE			FALSE	FALSE	FALSE	0.16071	0.05596	0.01658	0.00577
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Manganese	0.13108	0.01352		TRUE	TRUE			FALSE	FALSE	FALSE	0.01142	0.01487	0.00118	0.00153
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Nickel	0.00328	0.00034		TRUE	TRUE			FALSE	FALSE	FALSE	0.00374	0.00936	0.00039	0.00096
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	227	23.4141		TRUE	TRUE			FALSE	FALSE	FALSE	11.4918	5.5	1.18534	0.5673
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Phosphorus	0.85315	0.088		TRUE	TRUE			FALSE	FALSE	FALSE	0.06619	0.04401	0.00683	0.00454
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Potassium	4.70419	0.48522		TRUE	TRUE			FALSE	FALSE	FALSE	0.33316	0.02245	0.03436	0.00232
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Rubidium	0.00203	0.00021		TRUE	TRUE			FALSE	FALSE	FALSE	0.00791	0.01816	0.00082	0.00187
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Silicon	18.0585	1.86266		TRUE	TRUE			FALSE	FALSE	FALSE	1.49455	0.06	0.15416	0.00619
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Sodium	16.2042	1.6714		TRUE	TRUE			FALSE	FALSE	FALSE	1.56265	0.22815	0.16118	0.02353
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Strontium	0.10724	0.01106		TRUE	TRUE			FALSE	FALSE	FALSE	0.01314	0.02155	0.00136	0.00222
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Sulfur	5.95171	0.61389		TRUE	TRUE			FALSE	FALSE	FALSE	0.42229	0.02672	0.04356	0.00276
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01143	0.05173
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Titanium	0.33561	0.03462		TRUE	TRUE			FALSE	FALSE	FALSE	0.02679	0.02926	0.00276	0.00302
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Vanadium	0.01333	0.00138		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Zinc	0.03786	0.0039		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-10-04 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-04 00:00:00	A108013 5X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Avg ambient temp		29.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Avg filter temp		29.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		End date			2024-10-10 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Max ambient temp		38		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Max filter temp		38.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Min ambient temp		22.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Min filter temp		22.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Sample volume		9.685		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Start date			2024-10-09 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	FIELD	9.685	I5149M	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	LAB	9.685	I5149M	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.43104	0.14776		TRUE	TRUE			FALSE	FALSE	FALSE	0.12017	0.005	0.01241	0.00052
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	LAB	9.685	I5149M	Nylon Filter	Nitrate - PM2.5	Nitrate	7.05147	0.72808		TRUE	TRUE			FALSE	FALSE	FALSE	0.51659	0.008	0.05334	0.00083
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	LAB	9.685	I5149M	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.16701	0.1205		TRUE	TRUE			FALSE	FALSE	FALSE	0.10175	0.005	0.01051	0.00052
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	LAB	9.685	I5149M	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	4.51823	0.46652		TRUE	TRUE			FALSE	FALSE	FALSE	0.33763	0.005	0.03486	0.00052
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 0Y	Routine	LAB	9.685	I5149M	Nylon Filter	Sulfate - PM2.5	Sulfate	15.2054	1.57		TRUE	TRUE			FALSE	FALSE	FALSE	1.09301	0.011	0.11286	0.00114
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Avg ambient temp		29.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Avg filter temp		29.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		End date			2024-10-10 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Max ambient temp		38		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Max filter temp		38.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Min ambient temp		22.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Min filter temp		22.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Sample volume		9.681		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Start date			2024-10-09 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	FIELD	9.681	I153155	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	9.04211	0.93401		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.661	0.27487		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.61485	0.06351		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	3.64606	0.37662		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A1080161Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.79314	0.39181		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A1080161Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.66087	0.06826		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A1080161Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	9.98664	1.03157		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A1080161Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	17.2247	1.77923		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A1080161Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.01127	0.41434		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A1080161Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	40.5554	4.18918		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A1080161Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	40.4083	4.17398		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A1080161Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	8.6719	0.89576		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A1080161Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	8.52481	0.88057		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108016 1Z	Routine	LAB	9.681	I153155	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	44.2015	4.5658		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Avg ambient temp		29.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Avg filter temp		29.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		End date			2024-10-10 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Max ambient temp		38		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Max filter temp		38.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Min ambient temp		22.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Min filter temp		23		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Sample volume		9.69		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Start date			2024-10-09 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	FIELD	9.69	I3918V	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Aluminum	5.25337	0.54214		TRUE	TRUE			FALSE	FALSE	FALSE	0.44721	0.11605	0.04615	0.01198
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01575	0.04525
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Arsenic	0.0148	0.00153		TRUE	TRUE			FALSE	FALSE	FALSE	0.01079	0.01686	0.00111	0.00174
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Barium	0.39708	0.04098		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Bromine	0.04441	0.00458		TRUE	TRUE			FALSE	FALSE	FALSE	0.00904	0.01548	0.00093	0.0016
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Cadmium	0.0678	0.007		TRUE	TRUE			FALSE	FALSE	FALSE	0.18086	0.24575	0.01866	0.02536

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Calcium	5.99352	0.61853		TRUE	TRUE			FALSE	FALSE	FALSE	0.42419	0.02533	0.04378	0.00261
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Chlorine	2.67697	0.27626		TRUE	TRUE			FALSE	FALSE	FALSE	0.19028	0.02191	0.01964	0.00226
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Cobalt	0.01074	0.00111		TRUE	TRUE			FALSE	FALSE	FALSE	0.00592	0.00991	0.00061	0.00102
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Copper	0.04497	0.00464		TRUE	TRUE			FALSE	FALSE	FALSE	0.00609	0.0114	0.00063	0.00118
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.02413
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Iron	3.58097	0.36955		TRUE	TRUE			FALSE	FALSE	FALSE	0.25378	0.0134	0.02619	0.00138
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Lead	0.03955	0.00408		TRUE	TRUE			FALSE	FALSE	FALSE	0.02053	0.03278	0.00212	0.00338
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Magnesium	1.4577	0.15043		TRUE	TRUE			FALSE	FALSE	FALSE	0.12689	0.05596	0.0131	0.00577
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Manganese	0.10385	0.01072		TRUE	TRUE			FALSE	FALSE	FALSE	0.00984	0.01487	0.00102	0.00153
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Nickel	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	395	40.7637		TRUE	TRUE			FALSE	FALSE	FALSE	19.8319	5.5	2.04663	0.5676
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Phosphorus	0.62828	0.06484		TRUE	TRUE			FALSE	FALSE	FALSE	0.05094	0.04401	0.00526	0.00454
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Potassium	3.86121	0.39847		TRUE	TRUE			FALSE	FALSE	FALSE	0.27358	0.02245	0.02823	0.00232
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Rubidium	0.01028	0.00106		TRUE	TRUE			FALSE	FALSE	FALSE	0.00828	0.01816	0.00085	0.00187
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Selenium	0.00542	0.00056		TRUE	TRUE			FALSE	FALSE	FALSE	0.00792	0.01653	0.00082	0.00171
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Silicon	14.7544	1.52264		TRUE	TRUE			FALSE	FALSE	FALSE	1.22147	0.06	0.12605	0.00619
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02294
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Sodium	4.92793	0.50856		TRUE	TRUE			FALSE	FALSE	FALSE	0.48035	0.22815	0.04957	0.02354
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A10801595	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Strontium	0.04317	0.00445		TRUE	TRUE			FALSE	FALSE	FALSE	0.01051	0.02155	0.00108	0.00222

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Sulfur	3.96856	0.40955		TRUE	TRUE			FALSE	FALSE	FALSE	0.28193	0.02672	0.0291	0.00276
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01144	0.05175
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Titanium	0.28589	0.0295		TRUE	TRUE			FALSE	FALSE	FALSE	0.02373	0.02926	0.00245	0.00302
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Vanadium	0.00791	0.00082		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Zinc	0.08859	0.00914		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-10-09 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-09 00:00:00	A108015 95	Routine	LAB	9.69	I3918V	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Avg Flow CV		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Avg ambient temp		25.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Avg filter temp		25.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		End date			2024-10-16 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Max ambient temp		34.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Max filter temp		34.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Min ambient temp		14.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Min filter temp		15.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Sample volume		9.681		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Start date			2024-10-15 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	FIELD	9.681	I15836P	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	LAB	9.681	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.54953	0.05676		TRUE	TRUE			FALSE	FALSE	FALSE	0.05923	0.005	0.00612	0.00052
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	LAB	9.681	I15836P	Nylon Filter	Nitrate - PM2.5	Nitrate	3.33836	0.34484		TRUE	TRUE			FALSE	FALSE	FALSE	0.25435	0.008	0.02627	0.00083

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	LAB	9.681	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.72535	0.07493		TRUE	TRUE			FALSE	FALSE	FALSE	0.0712	0.005	0.00735	0.00052
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	LAB	9.681	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.35572	0.14004		TRUE	TRUE			FALSE	FALSE	FALSE	0.11491	0.005	0.01187	0.00052
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 3S	Routine	LAB	9.681	I15836P	Nylon Filter	Sulfate - PM2.5	Sulfate	5.60262	0.57872		TRUE	TRUE			FALSE	FALSE	FALSE	0.41422	0.011	0.04279	0.00114
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Avg ambient temp		25.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Avg filter temp		25.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		End date			2024-10-16 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Max ambient temp		34.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Max filter temp		34.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Min ambient temp		14.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Min filter temp		15.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Sample volume		9.699		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Start date			2024-10-15 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.96309	0.51171		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.70184	0.17547		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.16609	0.01712		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	1.91525	0.19747		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.65651	0.2739		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.40612	0.04187		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.65555	0.48		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	15.3447	1.58209		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.52246	0.36318		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	28.8446	2.97397		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	28.1033	2.89755		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	4.91578	0.50683		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	4.17452	0.43041		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 4T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	30.7598	3.17144		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Avg ambient temp		25.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Avg filter temp		25.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		End date			2024-10-16 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Max ambient temp		34.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Max filter temp		34.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Min ambient temp		14.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Min filter temp		15.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Sample volume		9.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Start date			2024-10-15 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	FIELD	9.7	I158350	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Aluminum	2.93235	0.3023		TRUE	TRUE			FALSE	FALSE	FALSE	0.25406	0.11605	0.02619	0.01196
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01461	0.0452

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Arsenic	0.00667	0.00069		TRUE	TRUE			FALSE	FALSE	FALSE	0.01007	0.01686	0.00104	0.00174
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Barium	0.20973	0.02162		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Bromine	0.03085	0.00318		TRUE	TRUE			FALSE	FALSE	FALSE	0.00788	0.01548	0.00081	0.0016
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02533
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Calcium	3.12106	0.32176		TRUE	TRUE			FALSE	FALSE	FALSE	0.22113	0.02533	0.0228	0.00261
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01137	0.01427
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Chlorine	1.00457	0.10356		TRUE	TRUE			FALSE	FALSE	FALSE	0.07232	0.02191	0.00746	0.00226
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Cobalt	0.01164	0.0012		TRUE	TRUE			FALSE	FALSE	FALSE	0.00504	0.00991	0.00052	0.00102
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Copper	0.00396	0.00041		TRUE	TRUE			FALSE	FALSE	FALSE	0.00498	0.0114	0.00051	0.00118
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.0241
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Iron	1.88484	0.19431		TRUE	TRUE			FALSE	FALSE	FALSE	0.13386	0.0134	0.0138	0.00138
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Lead	0.00565	0.00058		TRUE	TRUE			FALSE	FALSE	FALSE	0.01921	0.03278	0.00198	0.00338
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Magnesium	0.87349	0.09005		TRUE	TRUE			FALSE	FALSE	FALSE	0.07772	0.05596	0.00801	0.00577
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Manganese	0.06577	0.00678		TRUE	TRUE			FALSE	FALSE	FALSE	0.00749	0.01487	0.00077	0.00153
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Nickel	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00096
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	86	8.86598		TRUE	TRUE			FALSE	FALSE	FALSE	4.66154	5.5	0.48057	0.56701
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Phosphorus	0.30623	0.03157		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Potassium	2.23627	0.23054		TRUE	TRUE			FALSE	FALSE	FALSE	0.15872	0.02245	0.01636	0.00231
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Rubidium	0.01141	0.00118		TRUE	TRUE			FALSE	FALSE	FALSE	0.00761	0.01816	0.00078	0.00187
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.0017

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Silicon	8.28855	0.85449		TRUE	TRUE			FALSE	FALSE	FALSE	0.68715	0.06	0.07084	0.00619
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Silver	0.0791	0.00815		TRUE	TRUE			FALSE	FALSE	FALSE	0.13572	0.22231	0.01399	0.02292
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Sodium	1.81817	0.18744		TRUE	TRUE			FALSE	FALSE	FALSE	0.18485	0.22815	0.01906	0.02352
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Strontium	0.01876	0.00193		TRUE	TRUE			FALSE	FALSE	FALSE	0.00903	0.02155	0.00093	0.00222
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Sulfur	1.89501	0.19536		TRUE	TRUE			FALSE	FALSE	FALSE	0.13526	0.02672	0.01394	0.00275
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Tin	0.1921	0.0198		TRUE	TRUE			FALSE	FALSE	FALSE	0.37315	0.50148	0.03847	0.0517
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Titanium	0.17605	0.01815		TRUE	TRUE			FALSE	FALSE	FALSE	0.01666	0.02926	0.00172	0.00302
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Zinc	0.03311	0.00341		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-10-15 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-15 00:00:00	A108447 2R	Routine	LAB	9.7	I158350	Teflon Filter	Trace elements (33)	Zirconium	0.00226	0.00023		TRUE	TRUE			FALSE	FALSE	FALSE	0.01582	0.02668	0.00163	0.00275
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Avg BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Avg ambient temp		18		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Avg filter temp		18		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		End date			2024-10-22 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Max BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Max ambient temp		28.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Max filter temp		28.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Min BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Min ambient temp		7.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Min filter temp		7.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Sample volume		9.7		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Start date			2024-10-21 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	FIELD	9.7	I15839S	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	LAB	9.7	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.2749	0.13143		TRUE	TRUE			FALSE	FALSE	FALSE	0.10927	0.005	0.01126	0.00052
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	LAB	9.7	I15839S	Nylon Filter	Nitrate - PM2.5	Nitrate	10.8231	1.11578		TRUE	TRUE			FALSE	FALSE	FALSE	0.78318	0.008	0.08074	0.00082
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	LAB	9.7	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.63052	0.065		TRUE	TRUE			FALSE	FALSE	FALSE	0.06472	0.005	0.00667	0.00052
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	LAB	9.7	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.70326	0.0725		TRUE	TRUE			FALSE	FALSE	FALSE	0.06969	0.005	0.00718	0.00052
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 4P	Routine	LAB	9.7	I15839S	Nylon Filter	Sulfate - PM2.5	Sulfate	4.18513	0.43146		TRUE	TRUE			FALSE	FALSE	FALSE	0.31411	0.011	0.03238	0.00113
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Avg BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Avg ambient temp		18		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Avg filter temp		18.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		End date			2024-10-22 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Max BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Max ambient temp		28.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Max filter temp		28.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Min BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Min ambient temp		7.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Min filter temp		7.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Sample volume		9.696		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Start date			2024-10-21 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	FIELD	9.696	I15840L	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	7.05081	0.72719		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A1084285Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.82777	0.18851		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A1084285Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.33561	0.03461		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A1084285Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.65366	0.27369		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A1084285Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.96646	0.30595		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A1084285Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.44616	0.04601		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A1084285Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.70638	0.58853		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A1084285Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	15.6305	1.61205		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A1084285Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.04617	0.4173		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A1084285Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	32.3897	3.34052		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	32.0769	3.30826		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	6.56053	0.67662		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	6.24772	0.64436		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 5Q	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	35.0434	3.61421		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Avg BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Avg ambient temp		18		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Avg filter temp		17.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		End date			2024-10-22 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Max BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Max ambient temp		28.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Max filter temp		28.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Min BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Min ambient temp		7.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Min filter temp		7.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Sample volume		9.696		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Start date			2024-10-21 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	FIELD	9.696	I15838R	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Aluminum	1.91196	0.19719		TRUE	TRUE			FALSE	FALSE	FALSE	0.17011	0.11605	0.01754	0.01197
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.13433	0.43844	0.01385	0.04522
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Arsenic	0.00554	0.00057		TRUE	TRUE			FALSE	FALSE	FALSE	0.00995	0.01686	0.00103	0.00174
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Barium	0.11752	0.01212		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Bromine	0.01718	0.00177		TRUE	TRUE			FALSE	FALSE	FALSE	0.00733	0.01548	0.00076	0.0016
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02535
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Calcium	2.3165	0.23891		TRUE	TRUE			FALSE	FALSE	FALSE	0.16429	0.02533	0.01694	0.00261
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Chlorine	0.07752	0.00799		TRUE	TRUE			FALSE	FALSE	FALSE	0.016	0.02191	0.00165	0.00226
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Chromium	0.00147	0.00015		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Cobalt	0.00757	0.00078		TRUE	TRUE			FALSE	FALSE	FALSE	0.00478	0.00991	0.00049	0.00102
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Copper	0.0304	0.00314		TRUE	TRUE			FALSE	FALSE	FALSE	0.00552	0.0114	0.00057	0.00118
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02411
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Iron	1.36775	0.14106		TRUE	TRUE			FALSE	FALSE	FALSE	0.09735	0.0134	0.01004	0.00138
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Lead	0.0226	0.00233		TRUE	TRUE			FALSE	FALSE	FALSE	0.01928	0.03278	0.00199	0.00338
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Magnesium	0.55935	0.05769		TRUE	TRUE			FALSE	FALSE	FALSE	0.05181	0.05596	0.00534	0.00577
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Manganese	0.0365	0.00376		TRUE	TRUE			FALSE	FALSE	FALSE	0.00631	0.01487	0.00065	0.00153
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Nickel	0.00678	0.0007		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00096
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	67	6.91007		TRUE	TRUE			FALSE	FALSE	FALSE	4	5.5	0.41254	0.56724
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Phosphorus	0.09831	0.01014		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Potassium	1.51646	0.1564		TRUE	TRUE			FALSE	FALSE	FALSE	0.10783	0.02245	0.01112	0.00232
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Rubidium	0.0139	0.00143		TRUE	TRUE			FALSE	FALSE	FALSE	0.00763	0.01816	0.00079	0.00187
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.0017
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Silicon	5.64209	0.5819		TRUE	TRUE			FALSE	FALSE	FALSE	0.46842	0.06	0.04831	0.00619
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Sodium	0.61585	0.06352		TRUE	TRUE			FALSE	FALSE	FALSE	0.12867	0.22815	0.01327	0.02353
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Strontium	0.01458	0.0015		TRUE	TRUE			FALSE	FALSE	FALSE	0.00887	0.02155	0.00092	0.00222
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Sulfur	1.14469	0.11806		TRUE	TRUE			FALSE	FALSE	FALSE	0.0823	0.02672	0.00849	0.00276
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.10233	0.50148	0.01055	0.05172
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Titanium	0.14396	0.01485		TRUE	TRUE			FALSE	FALSE	FALSE	0.01479	0.02926	0.00153	0.00302
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Zinc	0.02045	0.00211		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-10-21 00:00:00	2024-12-06 00:00:00	Maricopa 2024-2025	PCAQD	2024-10-21 00:00:00	A108428 3O	Routine	LAB	9.696	I15838R	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Avg ambient temp		15.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Avg filter temp		15.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		End date			2024-11-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Max ambient temp		25.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Max filter temp		25.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Min ambient temp		4.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Min filter temp		4.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Sample volume		9.695		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Start date			2024-11-02 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	FIELD	9.695	I15851O	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	LAB	9.695	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.39758	0.04101		TRUE	TRUE			FALSE	FALSE	FALSE	0.04908	0.005	0.00506	0.00052
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	LAB	9.695	I15851O	Nylon Filter	Nitrate - PM2.5	Nitrate	6.60932	0.68172		TRUE	TRUE			FALSE	FALSE	FALSE	0.48535	0.008	0.05006	0.00083
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	LAB	9.695	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.99268	0.10239		TRUE	TRUE			FALSE	FALSE	FALSE	0.08963	0.005	0.00925	0.00052
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	LAB	9.695	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.03126	0.10637		TRUE	TRUE			FALSE	FALSE	FALSE	0.09231	0.005	0.00952	0.00052
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 6O	Routine	LAB	9.695	I15851O	Nylon Filter	Sulfate - PM2.5	Sulfate	4.65105	0.47974		TRUE	TRUE			FALSE	FALSE	FALSE	0.34701	0.011	0.03579	0.00113
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Avg Flow CV		1		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Avg ambient temp		15.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Avg filter temp		15.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		End date			2024-11-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Max ambient temp		25.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Max filter temp		25.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Min ambient temp		4.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Min filter temp		4.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Sample volume		9.688		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Start date			2024-11-02 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	FIELD	9.688	I15852P	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	6.38985	0.65956		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.17839	0.22485		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.15931	0.01644		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.77318	0.28625		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.28157	0.33873		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.57082	0.05892		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	9.24194	0.95396		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	19.7194	2.03545		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	5.52689	0.57049		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	41.0134	4.23343		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	40.505	4.18095		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	5.95438	0.61461		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	5.44598	0.56214		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 7P	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	43.7866	4.51967		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Avg ambient temp		15.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Avg filter temp		15.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		End date			2024-11-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Max ambient temp		25.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Max filter temp		25.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Min ambient temp		4.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Min filter temp		4.4		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Sample volume		9.684		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Start date			2024-11-02 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	FIELD	9.684	I15850N	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Aluminum	2.93687	0.30327		TRUE	TRUE			FALSE	FALSE	FALSE	0.25414	0.11605	0.02624	0.01198
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01463	0.04527
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Barium	0.21459	0.02216		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Bromine	0.01153	0.00119		TRUE	TRUE			FALSE	FALSE	FALSE	0.0075	0.01548	0.00077	0.0016
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.0062	0.02538
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Calcium	3.38322	0.34936		TRUE	TRUE			FALSE	FALSE	FALSE	0.23964	0.02533	0.02475	0.00262
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01429
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Chlorine	0.47957	0.04952		TRUE	TRUE			FALSE	FALSE	FALSE	0.03547	0.02191	0.00366	0.00226
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Cobalt	0.00441	0.00046		TRUE	TRUE			FALSE	FALSE	FALSE	0.00487	0.00991	0.0005	0.00102
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Copper	0.00983	0.00102		TRUE	TRUE			FALSE	FALSE	FALSE	0.00491	0.0114	0.00051	0.00118
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02414
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Iron	1.82382	0.18833		TRUE	TRUE			FALSE	FALSE	FALSE	0.12956	0.0134	0.01338	0.00138
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Lead	0.00678	0.0007		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Magnesium	0.81812	0.08448		TRUE	TRUE			FALSE	FALSE	FALSE	0.07294	0.05596	0.00753	0.00578
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Manganese	0.07786	0.00804		TRUE	TRUE			FALSE	FALSE	FALSE	0.00789	0.01487	0.00081	0.00154
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Nickel	0.00147	0.00015		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	95	9.81		FALSE	FALSE			FALSE	FALSE	FALSE	5.07962	5.5	0.52454	0.56795
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Phosphorus	0.27233	0.02812		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Potassium	2.31763	0.23933		TRUE	TRUE			FALSE	FALSE	FALSE	0.16446	0.02245	0.01698	0.00232
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Rubidium	0.00429	0.00044		TRUE	TRUE			FALSE	FALSE	FALSE	0.00769	0.01816	0.00079	0.00188
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Selenium	0.00079	8.2E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.00712	0.01653	0.00074	0.00171
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Silicon	7.80152	0.80561		TRUE	TRUE			FALSE	FALSE	FALSE	0.64693	0.06	0.0668	0.0062
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02296
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Sodium	1.57296	0.16243		TRUE	TRUE			FALSE	FALSE	FALSE	0.1615	0.22815	0.01668	0.02356
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Strontium	0.02023	0.00209		TRUE	TRUE			FALSE	FALSE	FALSE	0.00915	0.02155	0.00095	0.00223
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Sulfur	1.59104	0.1643		TRUE	TRUE			FALSE	FALSE	FALSE	0.11382	0.02672	0.01175	0.00276
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.10233	0.50148	0.01057	0.05178
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Titanium	0.16532	0.01707		TRUE	TRUE			FALSE	FALSE	FALSE	0.0161	0.02926	0.00166	0.00302
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Vanadium	0.00542	0.00056		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Zinc	0.02305	0.00238		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-11-02 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-02 00:00:00	A108614 5N	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Average flow		6.72		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Avg BP		733		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Avg Flow CV		0.9		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Avg ambient temp		8.7		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Avg filter temp		8.6		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		End date			2024-11-09 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		End time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Max BP		735		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Max ambient temp		18.7		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Max filter temp		18.5		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Min BP		731		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Min ambient temp		-1.1		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Min filter temp		-1.1		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Run Time		24		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Sample volume		9.688		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Start date			2024-11-08 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	FIELD	9.688	I151251	Nylon Filter		Start time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	LAB	9.688	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.3066	0.03165		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.04315	0.005	0.00445	0.00052
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	LAB	9.688	I151251	Nylon Filter	Nitrate - PM2.5	Nitrate	5.33908	0.5511		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.3956	0.008	0.04083	0.00083
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	LAB	9.688	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.7714	0.07962		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.07436	0.005	0.00768	0.00052
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	LAB	9.688	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.55606	0.0574		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.05968	0.005	0.00616	0.00052
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 9L	Routine	LAB	9.688	I151251	Nylon Filter	Sulfate - PM2.5	Sulfate	2.62433	0.27088		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.20401	0.011	0.02106	0.00114
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		Average flow		6.72		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		Avg BP		733		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		Avg ambient temp		8.7		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		Avg filter temp		8.6		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		End date			2024-11-09 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		End time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		Max BP		735		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		Max ambient temp		18.7		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		Max filter temp		18.5		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		Min BP		731		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		Min ambient temp		-1.1		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	FIELD	9.685	I153144	Quartz Filter		Min filter temp		-1.2		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	FIELD	9.685	I153144	Quartz Filter		Run Time		24		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	FIELD	9.685	I153144	Quartz Filter		Sample volume		9.685		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	FIELD	9.685	I153144	Quartz Filter		Start date			2024-11-08 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	FIELD	9.685	I153144	Quartz Filter		Start time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	6.92965	0.7155		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.37587	0.24531		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.60521	0.06249		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	4.0106	0.4141		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	4.10414	0.42376		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.56593	0.05843		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	8.17779	0.84438		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A10860007	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	19.5444	2.01801		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.55534	0.47035		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	38.7436	4.00037		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	38.6501	3.99071		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	5.90013	0.6092		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	5.80658	0.59954		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108600 07	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	42.7542	4.41448		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Average flow		6.72		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Avg BP		733		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Avg ambient temp		8.7		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Avg filter temp		8.7		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		End date			2024-11-09 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		End time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Max BP		735		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Max ambient temp		18.7		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Max filter temp		18.8		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Min BP		731		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Min ambient temp		-1.1		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Min filter temp		-1.1		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Run Time		24		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Sample volume		9.686		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Start date			2024-11-08 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	FIELD	9.686	I151240	Teflon Filter		Start time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Aluminum	2.33571	0.24114		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.20448	0.11605	0.02111	0.01198
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.13433	0.43844	0.01387	0.04527
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Barium	0.16283	0.01681		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Bromine	0.00554	0.00057		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00702	0.01548	0.00072	0.0016
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02537
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Calcium	2.9041	0.29982		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.20582	0.02533	0.02125	0.00262
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01429
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Chlorine	0.26623	0.02749		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.02088	0.02191	0.00216	0.00226
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Cobalt	0.01017	0.00105		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00491	0.00991	0.00051	0.00102
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Copper	0.01898	0.00196		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00515	0.0114	0.00053	0.00118
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02414
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Iron	1.58539	0.16368		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11267	0.0134	0.01163	0.00138
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Lead	0.02486	0.00257		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Magnesium	0.66105	0.06825		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.06014	0.05596	0.00621	0.00578

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Manganese	0.05164	0.00533		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00682	0.01487	0.0007	0.00153
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Nickel	0.00994	0.00103		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00368	0.00936	0.00038	0.00097
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	86	8.87879		FALSE	FALSE	FC5		FALSE	FALSE	FALSE	4.66154	5.5	0.48127	0.56783
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Phosphorus	0.38646	0.0399		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.03342	0.04401	0.00345	0.00454
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Potassium	2.14587	0.22154		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.15236	0.02245	0.01573	0.00232
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Rubidium	0.00961	0.00099		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.0076	0.01816	0.00078	0.00187
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Silicon	6.63423	0.68493		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.5505	0.06	0.05683	0.00619
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02295
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Sodium	0.77292	0.0798		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.12867	0.22815	0.01328	0.02355
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Strontium	0.00983	0.00101		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00907	0.02155	0.00094	0.00223
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Sulfur	0.9379	0.09683		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.06795	0.02672	0.00702	0.00276
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11085	0.50148	0.01144	0.05177
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Titanium	0.13052	0.01347		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01442	0.02926	0.00149	0.00302
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Vanadium	0.00475	0.00049		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Zinc	0.0348	0.00359		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-11-08 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-08 00:00:00	A108599 8K	Routine	LAB	9.686	I151240	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Average flow		6.72		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Avg BP		728		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Avg Flow CV		0.9		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Avg ambient temp		13.7		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Avg filter temp		13.8		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		End date			2024-11-15 00:00:00	TRUE	TRUE	FMC		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		End time			00:00:00	TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Max BP		731		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Max ambient temp		25.9		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Max filter temp		26.2		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Min BP		725		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Min ambient temp		3.4		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Min filter temp		3.7		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Run Time		24		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Sample volume		9.677		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Start date			2024-11-14 00:00:00	TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	FIELD	9.677	I151488	Nylon Filter		Start time			00:00:00	TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	LAB	9.677	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.70865	0.07323		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.07005	0.005	0.00724	0.00052
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	LAB	9.677	I151488	Nylon Filter	Nitrate - PM2.5	Nitrate	20.2406	2.09161		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	1.44901	0.008	0.14974	0.00083
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	LAB	9.677	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.21641	0.1257		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.10519	0.005	0.01087	0.00052
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	LAB	9.677	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.95994	0.0992		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.08736	0.005	0.00903	0.00052
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 0P	Routine	LAB	9.677	I151488	Nylon Filter	Sulfate - PM2.5	Sulfate	5.44554	0.56273		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.40312	0.011	0.04166	0.00114
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Avg ambient temp		13.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Avg filter temp		13.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		End date			2024-11-15 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Max ambient temp		25.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Max filter temp		25.9		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Min ambient temp		3.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Min filter temp		3.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Sample volume		9.698		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Start date			2024-11-14 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	FIELD	9.698	I150309	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	9.08917	0.93722		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	3.05289	0.3148		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.15067	0.01554		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	3.61903	0.37317		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	4.19988	0.43307		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.64984	0.06701		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	11.5921	1.19531		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	18.119	1.86832		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	6.44059	0.66412		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	45.4752	4.68914		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	44.8944	4.62924		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	8.67369	0.89438		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	8.09284	0.83449		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108528 1Q	Routine	LAB	9.698	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	49.0943	5.06231		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Average flow		6.73		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Avg BP		728		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Avg Flow CV		1		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Avg ambient temp		13.7		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Avg filter temp		13.7		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		End date			2024-11-15 00:00:00	TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		End time			00:00:00	TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Max BP		731		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Max ambient temp		25.9		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Max filter temp		26.1		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Min BP		725		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Min ambient temp		3.4		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Min filter temp		3.8		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Run Time		24		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Sample volume		9.693		TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Start date			2024-11-14 00:00:00	TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	FIELD	9.693	I151499	Teflon Filter		Start time			00:00:00	TRUE	TRUE	FMC		FALSE	FALSE	FALSE				
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Aluminum	6.77209	0.69866		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.57386	0.11605	0.0592	0.01197
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.14171	0.43844	0.01462	0.04523
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Arsenic	0.01153	0.00119		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.01032	0.01686	0.00106	0.00174
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Barium	0.59325	0.0612		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.04344	0.02752	0.00448	0.00284
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Bromine	0.02147	0.00222		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.00772	0.01548	0.0008	0.0016
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02535
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Calcium	8.16425	0.84228		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.57768	0.02533	0.0596	0.00261
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01428
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Chlorine	0.37166	0.03834		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.02814	0.02191	0.0029	0.00226
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Cobalt	0.01311	0.00135		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.00628	0.00991	0.00065	0.00102
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Copper	0.05198	0.00536		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.00637	0.0114	0.00066	0.00118
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02412
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Iron	4.97313	0.51306		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.35218	0.0134	0.03633	0.00138

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Magnesium	1.48482	0.15318		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.12884	0.05596	0.01329	0.00577
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Manganese	0.13334	0.01376		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.01155	0.01487	0.00119	0.00153
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Nickel	0.00904	0.00093		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.00378	0.00936	0.00039	0.00097
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	281	28.99		FALSE	FALSE	FMC		FALSE	FALSE	FALSE	14.1648	5.5	1.46135	0.56742
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Phosphorus	0.86106	0.08883		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.06582	0.04401	0.00679	0.00454
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Potassium	5.13472	0.52973		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.36362	0.02245	0.03751	0.00232
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Rubidium	0.02124	0.00219		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.00805	0.01816	0.00083	0.00187
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Silicon	18.6891	1.9281		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	1.54665	0.06	0.15956	0.00619
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02294
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Sodium	1.64528	0.16974		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.17043	0.22815	0.01758	0.02354
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Strontium	0.04972	0.00513		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.01023	0.02155	0.00106	0.00222
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Sulfur	1.58087	0.16309		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.11328	0.02672	0.01169	0.00276
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.11085	0.50148	0.01144	0.05174
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Titanium	0.42714	0.04407		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.03266	0.02926	0.00337	0.00302
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Zinc	0.10453	0.01078		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-11-14 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-14 00:00:00	A108527 9W	Routine	LAB	9.693	I151499	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE	FMC		FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Average flow		6.73		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Avg BP		735		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Avg Flow CV		0.9		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Avg ambient temp		11.1		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Avg filter temp		11		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		End date			2024-11-21 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		End time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Max BP		737		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Max ambient temp		21.8		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Max filter temp		21		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Min BP		734		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Min ambient temp		0.5		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Min filter temp		1.1		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Run Time		24		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Sample volume		9.69		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Start date			2024-11-20 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	FIELD	9.69	I15836P	Nylon Filter		Start time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	LAB	9.69	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	2.01567	0.20802		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.16118	0.005	0.01663	0.00052
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	LAB	9.69	I15836P	Nylon Filter	Nitrate - PM2.5	Nitrate	11.3567	1.172		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.82091	0.008	0.08472	0.00083
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	LAB	9.69	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.78152	0.08065		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.07505	0.005	0.00775	0.00052
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	LAB	9.69	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.65591	0.06769		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.06645	0.005	0.00686	0.00052
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 3Q	Routine	LAB	9.69	I15836P	Nylon Filter	Sulfate - PM2.5	Sulfate	3.98467	0.41121		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.29996	0.011	0.03096	0.00114
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Average flow		6.73		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Avg BP		735		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Avg ambient temp		11.1		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Avg filter temp		10.9		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		End date			2024-11-21 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		End time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Max BP		737		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Max ambient temp		21.8		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Max filter temp		21.2		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Min BP		734		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Min ambient temp		0.5		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Min filter temp		1		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Run Time		24		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Sample volume		9.691		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Start date			2024-11-20 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	FIELD	9.691	I15837Q	Quartz Filter		Start time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	7.20513	0.74349		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.54806	0.26293		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.1027	0.0106		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	3.55712	0.36705		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.84828	0.3971		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.79492	0.08203		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	11.0591	1.14117		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	16.1696	1.66851		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	5.71542	0.58977		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	40.0377	4.13143		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	39.7466	4.10139		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	6.29877	0.64996		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	6.00761	0.61992		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 4R	Routine	LAB	9.691	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	43.5948	4.49849		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Average flow		6.73		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Avg BP		735		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Avg ambient temp		11.1		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Avg filter temp		11.1		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		End date			2024-11-21 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		End time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Max BP		737		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Max ambient temp		21.8		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Max filter temp		21.3		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Min BP		734		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Min ambient temp		0.5		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Min filter temp		1		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Run Time		24		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Sample volume		9.69		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Start date			2024-11-20 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	FIELD	9.69	I15835O	Teflon Filter		Start time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Aluminum	3.48831	0.35999		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.30003	0.11605	0.03096	0.01198
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.13433	0.43844	0.01386	0.04525
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Arsenic	0.01028	0.00106		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00963	0.01686	0.00099	0.00174
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Barium	0.27188	0.02806		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Bromine	0.03334	0.00344		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00782	0.01548	0.00081	0.0016
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02536
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Calcium	3.76629	0.38868		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.26675	0.02533	0.02753	0.00261
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Chlorine	0.19041	0.01965		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.016	0.02191	0.00165	0.00226
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Cobalt	0.00271	0.00028		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00498	0.00991	0.00051	0.00102

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Copper	0.01006	0.00104		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.0048	0.0114	0.0005	0.00118
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02413
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Iron	2.4747	0.25539		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.17551	0.0134	0.01811	0.00138
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Lead	0.00226	0.00023		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01808	0.03278	0.00187	0.00338
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Magnesium	0.80908	0.0835		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.0726	0.05596	0.00749	0.00577
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Manganese	0.07322	0.00756		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00766	0.01487	0.00079	0.00153
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Nickel	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	115	11.8679		FALSE	FALSE	FC5		FALSE	FALSE	FALSE	6.02516	5.5	0.62179	0.5676
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Phosphorus	0.29606	0.03055		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Potassium	2.55267	0.26343		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.18103	0.02245	0.01868	0.00232
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Rubidium	0.00893	0.00092		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00737	0.01816	0.00076	0.00187
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Silicon	9.75077	1.00627		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.80793	0.06	0.08338	0.00619
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02294
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Sodium	1.07576	0.11102		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.12867	0.22815	0.01328	0.02354
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Strontium	0.02915	0.00301		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00905	0.02155	0.00093	0.00222
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Sulfur	1.56053	0.16105		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11168	0.02672	0.01153	0.00276
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.10233	0.50148	0.01056	0.05175
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Titanium	0.1747	0.01803		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01644	0.02926	0.0017	0.00302
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Vanadium	0.00441	0.00045		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Zinc	0.06441	0.00665		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-11-20 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-20 00:00:00	A108642 2P	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Zirconium	0.00678	0.0007		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01583	0.02668	0.00163	0.00275

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Avg ambient temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Avg filter temp		13		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		End date			2024-11-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Max ambient temp		24.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Max filter temp		24.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Min ambient temp		1.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Min filter temp		2.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Sample volume		9.681		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Start date			2024-11-23 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	FIELD	9.681	I15839S	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	LAB	9.681	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	3.62067	0.374		TRUE	TRUE			FALSE	FALSE	FALSE	0.27427	0.005	0.02833	0.00052
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	LAB	9.681	I15839S	Nylon Filter	Nitrate - PM2.5	Nitrate	13.8392	1.42952		TRUE	TRUE			FALSE	FALSE	FALSE	0.99641	0.008	0.10292	0.00083
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	LAB	9.681	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	2.076	0.21444		TRUE	TRUE			FALSE	FALSE	FALSE	0.16542	0.005	0.01709	0.00052
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	LAB	9.681	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	2.07034	0.21386		TRUE	TRUE			FALSE	FALSE	FALSE	0.16502	0.005	0.01705	0.00052
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 6T	Routine	LAB	9.681	I15839S	Nylon Filter	Sulfate - PM2.5	Sulfate	4.79889	0.4957		TRUE	TRUE			FALSE	FALSE	FALSE	0.35745	0.011	0.03692	0.00114
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Avg ambient temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Avg filter temp		13.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		End date			2024-11-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Max ambient temp		24.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Max filter temp		24.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Min ambient temp		1.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Min filter temp		2.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Sample volume		9.692		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Start date			2024-11-23 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	FIELD	9.692	I15840L	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	9.25995	0.95542		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	3.1632	0.32637		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.14738	0.01521		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	4.73193	0.48823		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	4.83036	0.49839		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.75509	0.07791		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	11.2234	1.158		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	18.3084	1.88902		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	6.38697	0.65899		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	44.5125	4.5927		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	44.414	4.58255		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	7.8386	0.80877		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	7.74018	0.79862		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 7U	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	49.2444	5.08093		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Avg ambient temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Avg filter temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		End date			2024-11-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Max ambient temp		24.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Max filter temp		24.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Min ambient temp		1.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Min filter temp		2.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Sample volume		9.689		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Start date			2024-11-23 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	FIELD	9.689	I15838R	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Aluminum	4.57763	0.47246		TRUE	TRUE			FALSE	FALSE	FALSE	0.39059	0.11605	0.04031	0.01198
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.13433	0.43844	0.01386	0.04525
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Barium	0.32295	0.03333		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Bromine	0.03028	0.00313		TRUE	TRUE			FALSE	FALSE	FALSE	0.00722	0.01548	0.00074	0.0016
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02536
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Calcium	5.08613	0.52494		TRUE	TRUE			FALSE	FALSE	FALSE	0.36003	0.02533	0.03716	0.00261
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Chlorine	0.28069	0.02897		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.02191	0.00227	0.00226

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Cobalt	0.00034	3.5E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.0052	0.00991	0.00054	0.00102
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Copper	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00433	0.0114	0.00045	0.00118
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02413
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Iron	3.04196	0.31396		TRUE	TRUE			FALSE	FALSE	FALSE	0.2156	0.0134	0.02225	0.00138
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Lead	0.03774	0.0039		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Magnesium	1.16955	0.12071		TRUE	TRUE			FALSE	FALSE	FALSE	0.10226	0.05596	0.01055	0.00578
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Manganese	0.09944	0.01026		TRUE	TRUE			FALSE	FALSE	FALSE	0.00909	0.01487	0.00094	0.00153
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Nickel	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	145	14.9654		FALSE	FALSE			FALSE	FALSE	FALSE	7.47011	5.5	0.77099	0.56765
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Phosphorus	0.5085	0.05248		TRUE	TRUE			FALSE	FALSE	FALSE	0.04191	0.04401	0.00433	0.00454
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Potassium	3.75725	0.38779		TRUE	TRUE			FALSE	FALSE	FALSE	0.26624	0.02245	0.02748	0.00232
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Rubidium	0.01006	0.00104		TRUE	TRUE			FALSE	FALSE	FALSE	0.00704	0.01816	0.00073	0.00187
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Silicon	12.5001	1.29013		TRUE	TRUE			FALSE	FALSE	FALSE	1.03513	0.06	0.10684	0.00619
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02294
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Sodium	1.21023	0.12491		TRUE	TRUE			FALSE	FALSE	FALSE	0.12989	0.22815	0.01341	0.02355
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Strontium	0.03051	0.00315		TRUE	TRUE			FALSE	FALSE	FALSE	0.00885	0.02155	0.00091	0.00222
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Sulfur	1.70404	0.17587		TRUE	TRUE			FALSE	FALSE	FALSE	0.12189	0.02672	0.01258	0.00276
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.10233	0.50148	0.01056	0.05176
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Titanium	0.23583	0.02434		TRUE	TRUE			FALSE	FALSE	FALSE	0.01971	0.02926	0.00203	0.00302
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Zinc	0.07876	0.00813		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-11-23 00:00:00	2025-01-21 00:00:00	Maricopa 2024-2025	PCAQD	2024-11-23 00:00:00	A108642 5S	Routine	LAB	9.689	I15838R	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Avg BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Avg ambient temp		13.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Avg filter temp		14.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		End date			2024-12-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Max BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Max ambient temp		23.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Max filter temp		24.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Min BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Min ambient temp		4.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Min filter temp		4.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Sample volume		9.696		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Start date			2024-12-02 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	FIELD	9.696	I15851O	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	LAB	9.696	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	2.46084	0.2538		TRUE	TRUE			FALSE	FALSE	FALSE	0.1925	0.005	0.01985	0.00052
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	LAB	9.696	I15851O	Nylon Filter	Nitrate - PM2.5	Nitrate	16.5698	1.70893		TRUE	TRUE			FALSE	FALSE	FALSE	1.18947	0.008	0.12268	0.00083
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	LAB	9.696	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.25157	0.12908		TRUE	TRUE			FALSE	FALSE	FALSE	0.10764	0.005	0.0111	0.00052
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	LAB	9.696	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.72749	0.07503		TRUE	TRUE			FALSE	FALSE	FALSE	0.07134	0.005	0.00736	0.00052
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 0Y	Routine	LAB	9.696	I15851O	Nylon Filter	Sulfate - PM2.5	Sulfate	6.10725	0.62987		TRUE	TRUE			FALSE	FALSE	FALSE	0.44987	0.011	0.0464	0.00113
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108591 95	Routine	FIELD	9.694	I15852P	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108591 95	Routine	FIELD	9.694	I15852P	Quartz Filter		Avg BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Avg ambient temp		13.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Avg filter temp		14.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		End date			2024-12-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Max BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Max ambient temp		23.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Max filter temp		24.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Min BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Min ambient temp		4.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Min filter temp		4.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Sample volume		9.694		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Start date			2024-12-02 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	FIELD	9.694	I15852P	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	7.91122	0.81609		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.7773	0.2865		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.0653	0.00674		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	4.37961	0.45179		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	4.27645	0.44114		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.6431	0.06634		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	10.1689	1.04899		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	19.3152	1.9925		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	8.28837	0.855		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	44.7899	4.62037		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	44.893	4.63101		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	6.37422	0.65754		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A10859195	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	6.47738	0.66818		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108591 95	Routine	LAB	9.694	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	4.81047	0.49623		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Avg BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Avg ambient temp		13.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Avg filter temp		14		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		End date			2024-12-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Max BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Max ambient temp		23.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Max filter temp		23.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Min BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Min ambient temp		4.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Min filter temp		4.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Sample volume		9.691		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Start date			2024-12-02 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	FIELD	9.691	I15850N	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Aluminum	4.65221	0.48005		TRUE	TRUE			FALSE	FALSE	FALSE	0.39716	0.11605	0.04098	0.01197
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.17228	0.43844	0.01778	0.04524
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Arsenic	0.01469	0.00152		TRUE	TRUE			FALSE	FALSE	FALSE	0.01247	0.01686	0.00129	0.00174
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Barium	0.34454	0.03555		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Bromine	0.24973	0.02577		TRUE	TRUE			FALSE	FALSE	FALSE	0.02159	0.01548	0.00223	0.0016
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06575	0.24575	0.00678	0.02536

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Calcium	5.4805	0.56552		TRUE	TRUE			FALSE	FALSE	FALSE	0.38794	0.02533	0.04003	0.00261
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01428
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Chlorine	0.24329	0.0251		TRUE	TRUE			FALSE	FALSE	FALSE	0.01954	0.02191	0.00202	0.00226
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Chromium	0.0104	0.00107		TRUE	TRUE			FALSE	FALSE	FALSE	0.00772	0.0161	0.0008	0.00166
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Cobalt	0.00192	0.0002		TRUE	TRUE			FALSE	FALSE	FALSE	0.00622	0.00991	0.00064	0.00102
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Copper	0.10204	0.01053		TRUE	TRUE			FALSE	FALSE	FALSE	0.00931	0.0114	0.00096	0.00118
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.09656	0.23381	0.00996	0.02413
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Iron	3.17869	0.328		TRUE	TRUE			FALSE	FALSE	FALSE	0.22532	0.0134	0.02325	0.00138
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Lead	0.01921	0.00198		TRUE	TRUE			FALSE	FALSE	FALSE	0.02377	0.03278	0.00245	0.00338
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Magnesium	1.05542	0.10891		TRUE	TRUE			FALSE	FALSE	FALSE	0.09302	0.05596	0.0096	0.00577
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Manganese	0.08859	0.00914		TRUE	TRUE			FALSE	FALSE	FALSE	0.00974	0.01487	0.00101	0.00153
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Nickel	0.01978	0.00204		TRUE	TRUE			FALSE	FALSE	FALSE	0.00452	0.00936	0.00047	0.00097
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	155	15.9942		TRUE	TRUE			FALSE	FALSE	FALSE	7.95629	5.5	0.821	0.56754
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Phosphorus	0.39324	0.04058		TRUE	TRUE			FALSE	FALSE	FALSE	0.03515	0.04401	0.00363	0.00454
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Potassium	3.26457	0.33687		TRUE	TRUE			FALSE	FALSE	FALSE	0.2314	0.02245	0.02388	0.00232
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Rubidium	0.00554	0.00057		TRUE	TRUE			FALSE	FALSE	FALSE	0.00961	0.01816	0.00099	0.00187
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Silicon	13.0865	1.35038		TRUE	TRUE			FALSE	FALSE	FALSE	1.08365	0.06	0.11182	0.00619
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Silver	0.0113	0.00117		TRUE	TRUE			FALSE	FALSE	FALSE	0.1469	0.22231	0.01516	0.02294
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Sodium	1.39442	0.14389		TRUE	TRUE			FALSE	FALSE	FALSE	0.14688	0.22815	0.01516	0.02354
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Strontium	0.02543	0.00262		TRUE	TRUE			FALSE	FALSE	FALSE	0.01088	0.02155	0.00112	0.00222

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Sulfur	2.02835	0.2093		TRUE	TRUE			FALSE	FALSE	FALSE	0.14476	0.02672	0.01494	0.00276
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.12331	0.50148	0.01272	0.05175
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Titanium	0.23956	0.02472		TRUE	TRUE			FALSE	FALSE	FALSE	0.0217	0.02926	0.00224	0.00302
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01044	0.02396	0.00108	0.00247
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Zinc	0.06079	0.00627		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-12-02 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-02 00:00:00	A108592 1Z	Routine	LAB	9.691	I15850N	Teflon Filter	Trace elements (33)	Zirconium	0.02486	0.00257		TRUE	TRUE			FALSE	FALSE	FALSE	0.01817	0.02668	0.00187	0.00275
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Avg BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Avg ambient temp		9.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Avg filter temp		9.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		End date			2024-12-15 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Max ambient temp		18.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Max filter temp		18.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Min BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Min ambient temp		0.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Min filter temp		0.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Sample volume		9.686		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Start date			2024-12-14 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	FIELD	9.686	I151488	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	LAB	9.686	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.8858	0.19469		TRUE	TRUE			FALSE	FALSE	FALSE	0.15206	0.005	0.0157	0.00052
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	LAB	9.686	I151488	Nylon Filter	Nitrate - PM2.5	Nitrate	18.5272	1.91278		TRUE	TRUE			FALSE	FALSE	FALSE	1.32787	0.008	0.13709	0.00083

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	LAB	9.686	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.90263	0.19643		TRUE	TRUE			FALSE	FALSE	FALSE	0.15324	0.005	0.01582	0.00052
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	LAB	9.686	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	3.47226	0.35848		TRUE	TRUE			FALSE	FALSE	FALSE	0.2638	0.005	0.02723	0.00052
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 5F	Routine	LAB	9.686	I151488	Nylon Filter	Sulfate - PM2.5	Sulfate	11.3422	1.17099		TRUE	TRUE			FALSE	FALSE	FALSE	0.81989	0.011	0.08465	0.00114
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Avg BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Avg ambient temp		9.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Avg filter temp		9.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		End date			2024-12-15 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Max ambient temp		18.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Max filter temp		18.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Min BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Min ambient temp		0.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Min filter temp		0.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Sample volume		9.691		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Start date			2024-12-14 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	FIELD	9.691	I150309	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	10.3538	1.0684		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.64866	0.27331		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A1071826G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.10819	0.01116		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A1071826G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	4.58707	0.47333		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A1071826G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	4.22441	0.43591		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A1071826G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.5461	0.05635		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A1071826G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	9.17508	0.94676		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A1071826G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	13.9865	1.44325		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A1071826G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.58235	0.36966		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A1071826G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	35.8137	3.69556		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A1071826G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	36.1763	3.73298		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	8.52361	0.87954		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	8.88627	0.91696		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 6G	Routine	LAB	9.691	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	4.37204	0.45114		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Avg BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Avg ambient temp		9.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Avg filter temp		9.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		End date			2024-12-15 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Max ambient temp		18.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Max filter temp		18.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Min BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Min ambient temp		0.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Min filter temp		0.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Sample volume		9.696		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Start date			2024-12-14 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	FIELD	9.696	I151499	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Aluminum	2.95608	0.30488		TRUE	TRUE			FALSE	FALSE	FALSE	0.25598	0.11605	0.0264	0.01197
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.16275	0.43844	0.01679	0.04522

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Barium	0.20555	0.0212		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Bromine	0.03435	0.00354		TRUE	TRUE			FALSE	FALSE	FALSE	0.00925	0.01548	0.00095	0.0016
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06575	0.24575	0.00678	0.02535
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Calcium	3.12671	0.32247		TRUE	TRUE			FALSE	FALSE	FALSE	0.22153	0.02533	0.02285	0.00261
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Chlorine	0.44488	0.04588		TRUE	TRUE			FALSE	FALSE	FALSE	0.0331	0.02191	0.00341	0.00226
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Cobalt	0.01266	0.00131		TRUE	TRUE			FALSE	FALSE	FALSE	0.00539	0.00991	0.00056	0.00102
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Copper	0.04916	0.00507		TRUE	TRUE			FALSE	FALSE	FALSE	0.00644	0.0114	0.00066	0.00118
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.02411
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Iron	1.98315	0.20453		TRUE	TRUE			FALSE	FALSE	FALSE	0.14078	0.0134	0.01452	0.00138
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Lead	0.04746	0.00489		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Magnesium	0.76388	0.07878		TRUE	TRUE			FALSE	FALSE	FALSE	0.06903	0.05596	0.00712	0.00577
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Manganese	0.06305	0.0065		TRUE	TRUE			FALSE	FALSE	FALSE	0.00774	0.01487	0.0008	0.00153
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Nickel	0.00509	0.00052		TRUE	TRUE			FALSE	FALSE	FALSE	0.00397	0.00936	0.00041	0.00096
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	161	16.6048		TRUE	TRUE			FALSE	FALSE	FALSE	8.24879	5.5	0.85074	0.56724
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Phosphorus	0.17741	0.0183		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Potassium	2.51877	0.25977		TRUE	TRUE			FALSE	FALSE	FALSE	0.17873	0.02245	0.01843	0.00232
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Rubidium	0.00339	0.00035		TRUE	TRUE			FALSE	FALSE	FALSE	0.00882	0.01816	0.00091	0.00187
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Selenium	0.00644	0.00066		TRUE	TRUE			FALSE	FALSE	FALSE	0.0086	0.01653	0.00089	0.0017

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Silicon	7.97215	0.82221		TRUE	TRUE			FALSE	FALSE	FALSE	0.66098	0.06	0.06817	0.00619
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Sodium	1.65432	0.17062		TRUE	TRUE			FALSE	FALSE	FALSE	0.16923	0.22815	0.01745	0.02353
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Strontium	0.01785	0.00184		TRUE	TRUE			FALSE	FALSE	FALSE	0.01036	0.02155	0.00107	0.00222
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Sulfur	1.15825	0.11946		TRUE	TRUE			FALSE	FALSE	FALSE	0.08345	0.02672	0.00861	0.00276
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.12331	0.50148	0.01272	0.05172
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Titanium	0.14916	0.01538		TRUE	TRUE			FALSE	FALSE	FALSE	0.01546	0.02926	0.00159	0.00302
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Zinc	0.07232	0.00746		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-12-14 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-14 00:00:00	A107182 4E	Routine	LAB	9.696	I151499	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Avg BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Avg ambient temp		12.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Avg filter temp		12.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		End date			2024-12-21 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Max ambient temp		24.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Max filter temp		25.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Min BP		733		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Min ambient temp		1.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Min filter temp		1.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Sample volume		9.69		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Start date			2024-12-20 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	FIELD	9.69	I15836P	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	LAB	9.69	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	2.29044	0.23637		TRUE	TRUE			FALSE	FALSE	FALSE	0.1805	0.005	0.01863	0.00052
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	LAB	9.69	I15836P	Nylon Filter	Nitrate - PM2.5	Nitrate	14.8566	1.53319		TRUE	TRUE			FALSE	FALSE	FALSE	1.06835	0.008	0.11025	0.00083
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	LAB	9.69	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.6217	0.16736		TRUE	TRUE			FALSE	FALSE	FALSE	0.13352	0.005	0.01378	0.00052
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	LAB	9.69	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.74853	0.07725		TRUE	TRUE			FALSE	FALSE	FALSE	0.07279	0.005	0.00751	0.00052
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 6H	Routine	LAB	9.69	I15836P	Nylon Filter	Sulfate - PM2.5	Sulfate	5.37003	0.55418		TRUE	TRUE			FALSE	FALSE	FALSE	0.39779	0.011	0.04105	0.00114
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Avg BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Avg ambient temp		12.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Avg filter temp		12.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		End date			2024-12-21 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Max ambient temp		24.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Max filter temp		25.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Min BP		733		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Min ambient temp		1.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Min filter temp		1.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Sample volume		9.689		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Start date			2024-12-20 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	FIELD	9.689	I15837Q	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 7I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	10.6792	1.1022		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	3.11551	0.32155		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.14956	0.01544		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	5.34509	0.55167		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	5.14361	0.53087		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.72446	0.07477		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	10.703	1.10466		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	20.2682	2.09188		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	6.0767	0.62717		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	46.3716	4.786		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	46.5731	4.8068		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	8.59921	0.88752		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	8.80068	0.90832		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071917I	Routine	LAB	9.689	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	4.93783	0.50963		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Avg BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Avg ambient temp		12.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Avg filter temp		12.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		End date			2024-12-21 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Max ambient temp		24.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Max filter temp		24.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Min BP		733		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Min ambient temp		1.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Min filter temp		1.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Sample volume		9.688		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A1071915G	Routine	FIELD	9.688	I15835O	Teflon Filter		Start date			2024-12-20 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	FIELD	9.688	I15835O	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Aluminum	5.87487	0.60641		TRUE	TRUE			FALSE	FALSE	FALSE	0.49902	0.11605	0.05151	0.01198
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01575	0.04526
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Barium	0.43708	0.04512		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Bromine	0.02554	0.00264		TRUE	TRUE			FALSE	FALSE	FALSE	0.00822	0.01548	0.00085	0.0016
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02537
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Calcium	6.6557	0.687		TRUE	TRUE			FALSE	FALSE	FALSE	0.47102	0.02533	0.04862	0.00261
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Chlorine	0.76614	0.07908		TRUE	TRUE			FALSE	FALSE	FALSE	0.05559	0.02191	0.00574	0.00226
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Cobalt	0.00983	0.00101		TRUE	TRUE			FALSE	FALSE	FALSE	0.00614	0.00991	0.00063	0.00102
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Copper	0.05413	0.00559		TRUE	TRUE			FALSE	FALSE	FALSE	0.00655	0.0114	0.00068	0.00118
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.0087	0.02413
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Iron	4.01715	0.41465		TRUE	TRUE			FALSE	FALSE	FALSE	0.28456	0.0134	0.02937	0.00138
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Lead	0.04181	0.00432		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Magnesium	1.16277	0.12002		TRUE	TRUE			FALSE	FALSE	FALSE	0.10233	0.05596	0.01056	0.00578
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Manganese	0.11583	0.01196		TRUE	TRUE			FALSE	FALSE	FALSE	0.01056	0.01487	0.00109	0.00153
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Nickel	0.00147	0.00015		TRUE	TRUE			FALSE	FALSE	FALSE	0.00373	0.00936	0.00039	0.00097
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	166	17.1346		TRUE	TRUE			FALSE	FALSE	FALSE	8.49294	5.5	0.87665	0.56771
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Phosphorus	0.42488	0.04386		TRUE	TRUE			FALSE	FALSE	FALSE	0.03762	0.04401	0.00388	0.00454

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Potassium	4.24315	0.43798		TRUE	TRUE			FALSE	FALSE	FALSE	0.30054	0.02245	0.03102	0.00232
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Rubidium	0.01627	0.00168		TRUE	TRUE			FALSE	FALSE	FALSE	0.00833	0.01816	0.00086	0.00187
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Silicon	16.5263	1.70585		TRUE	TRUE			FALSE	FALSE	FALSE	1.36789	0.06	0.14119	0.00619
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Silver	0.0113	0.00117		TRUE	TRUE			FALSE	FALSE	FALSE	0.1356	0.22231	0.014	0.02295
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Sodium	1.36052	0.14043		TRUE	TRUE			FALSE	FALSE	FALSE	0.14439	0.22815	0.0149	0.02355
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Strontium	0.03424	0.00353		TRUE	TRUE			FALSE	FALSE	FALSE	0.01012	0.02155	0.00105	0.00222
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Sulfur	1.77184	0.18289		TRUE	TRUE			FALSE	FALSE	FALSE	0.12664	0.02672	0.01307	0.00276
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Tin	0.3842	0.03966		TRUE	TRUE			FALSE	FALSE	FALSE	0.39643	0.50148	0.04092	0.05176
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Titanium	0.34013	0.03511		TRUE	TRUE			FALSE	FALSE	FALSE	0.02707	0.02926	0.00279	0.00302
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Zinc	0.10554	0.01089		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-12-20 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-20 00:00:00	A107191 5G	Routine	LAB	9.688	I15835O	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg ambient temp		13.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg filter temp		13.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		End date			2024-12-26 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Max ambient temp		17.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Max filter temp		18.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Min ambient temp		8.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Min filter temp		9.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Sample volume		9.692		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Start date			2024-12-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	FIELD	9.692	I15839S	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	LAB	9.692	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.68244	0.07041		TRUE	TRUE			FALSE	FALSE	FALSE	0.06826	0.005	0.00704	0.00052
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	LAB	9.692	I15839S	Nylon Filter	Nitrate - PM2.5	Nitrate	5.06006	0.52209		TRUE	TRUE			FALSE	FALSE	FALSE	0.37589	0.008	0.03878	0.00083
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	LAB	9.692	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.83834	0.0865		TRUE	TRUE			FALSE	FALSE	FALSE	0.07896	0.005	0.00815	0.00052
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	LAB	9.692	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.89596	0.09244		TRUE	TRUE			FALSE	FALSE	FALSE	0.08294	0.005	0.00856	0.00052
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 9K	Routine	LAB	9.692	I15839S	Nylon Filter	Sulfate - PM2.5	Sulfate	2.05375	0.2119		TRUE	TRUE			FALSE	FALSE	FALSE	0.16386	0.011	0.01691	0.00113
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Avg ambient temp		13.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Avg filter temp		13.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		End date			2024-12-26 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Max ambient temp		17.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Max filter temp		18.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Min ambient temp		8.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Min filter temp		9.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	FIELD	9.693	I15840L	Quartz Filter		Sample volume		9.693		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A1071920D	Routine	FIELD	9.693	I15840L	Quartz Filter		Start date			2024-12-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A1071920D	Routine	FIELD	9.693	I15840L	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A1071920D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	5.70761	0.58884		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A1071920D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.0873	0.11217		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A1071920D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.04878	0.00503		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A1071920D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.74217	0.2829		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A1071920D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.43071	0.25077		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A1071920D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.52629	0.0543		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A1071920D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.45948	0.56324		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A1071920D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	13.8769	1.43164		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A1071920D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.04847	0.3145		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	27.0127	2.78682		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	27.3241	2.81895		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	4.10153	0.42314		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	4.41299	0.45528		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107192 0D	Routine	LAB	9.693	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	3.83974	0.39614		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Avg Flow CV		1		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Avg ambient temp		13.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Avg filter temp		13.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		End date			2024-12-26 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Max ambient temp		17.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Max filter temp		18		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Min ambient temp		8.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Min filter temp		9.6		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Sample volume		9.688		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Start date			2024-12-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	FIELD	9.688	I15838R	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Aluminum	0.8701	0.08981		TRUE	TRUE			FALSE	FALSE	FALSE	0.08693	0.11605	0.00897	0.01198
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01575	0.04526
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Arsenic	0.00689	0.00071		TRUE	TRUE			FALSE	FALSE	FALSE	0.01052	0.01686	0.00109	0.00174
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Barium	0.08904	0.00919		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Bromine	0.01706	0.00176		TRUE	TRUE			FALSE	FALSE	FALSE	0.00767	0.01548	0.00079	0.0016
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Cadmium	0.0339	0.0035		TRUE	TRUE			FALSE	FALSE	FALSE	0.19211	0.24575	0.01983	0.02537
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Calcium	1.22876	0.12683		TRUE	TRUE			FALSE	FALSE	FALSE	0.0875	0.02533	0.00903	0.00261
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Chlorine	1.66449	0.17181		TRUE	TRUE			FALSE	FALSE	FALSE	0.11877	0.02191	0.01226	0.00226
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Cobalt	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00387	0.00991	0.0004	0.00102
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Copper	0.01944	0.00201		TRUE	TRUE			FALSE	FALSE	FALSE	0.00505	0.0114	0.00052	0.00118
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.0087	0.02413
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Iron	0.86897	0.0897		TRUE	TRUE			FALSE	FALSE	FALSE	0.06214	0.0134	0.00641	0.00138
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Lead	0.00339	0.00035		TRUE	TRUE			FALSE	FALSE	FALSE	0.02034	0.03278	0.0021	0.00338
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Magnesium	0.26103	0.02694		TRUE	TRUE			FALSE	FALSE	FALSE	0.03667	0.05596	0.00379	0.00578
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Manganese	0.02	0.00206		TRUE	TRUE			FALSE	FALSE	FALSE	0.00567	0.01487	0.00059	0.00153
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Nickel	0.0113	0.00117		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	68	7.01899		TRUE	TRUE			FALSE	FALSE	FALSE	4	5.5	0.41288	0.56771
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Phosphorus	0.02373	0.00245		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Potassium	1.695	0.17496		TRUE	TRUE			FALSE	FALSE	FALSE	0.1204	0.02245	0.01243	0.00232
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Rubidium	0.0052	0.00054		TRUE	TRUE			FALSE	FALSE	FALSE	0.00781	0.01816	0.00081	0.00187
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Silicon	2.78093	0.28705		TRUE	TRUE			FALSE	FALSE	FALSE	0.23234	0.06	0.02398	0.00619
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Silver	0.0113	0.00117		TRUE	TRUE			FALSE	FALSE	FALSE	0.1356	0.22231	0.014	0.02295
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Sodium	0.38759	0.04001		TRUE	TRUE			FALSE	FALSE	FALSE	0.12867	0.22815	0.01328	0.02355
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Strontium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00733	0.02155	0.00076	0.00222
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Sulfur	0.79665	0.08223		TRUE	TRUE			FALSE	FALSE	FALSE	0.05824	0.02672	0.00601	0.00276
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01144	0.05176
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Titanium	0.05164	0.00533		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00145	0.00302
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Vanadium	0.00576	0.00059		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Zinc	0.03017	0.00311		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-12-25 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-25 00:00:00	A107191 8J	Routine	LAB	9.688	I15838R	Teflon Filter	Trace elements (33)	Zirconium	0.00339	0.00035		TRUE	TRUE			FALSE	FALSE	FALSE	0.01582	0.02668	0.00163	0.00275
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Average flow		2.39		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Avg BP		731		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Avg Flow CV		116.5		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Avg ambient temp		8.1		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Avg filter temp		8.1		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		End date			2024-12-27 00:00:00	TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		End time			00:00:00	TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Max BP		733		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Max ambient temp		15.6		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Max filter temp		15		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Min BP		730		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Min ambient temp		1.9		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Min filter temp		2		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Run Time		24		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Sample volume		3.452		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Start date			2024-12-26 00:00:00	TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	FIELD	3.452	I15845Q	Nylon Filter		Start time			00:00:00	TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	LAB	3.452	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.58931	0.4604		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE	0.13125	0.005	0.03802	0.00145
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	LAB	3.452	I15845Q	Nylon Filter	Nitrate - PM2.5	Nitrate	12.2133	3.53803		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE	0.88146	0.008	0.25535	0.00232
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	LAB	3.452	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.77598	0.51448		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE	0.14434	0.005	0.04181	0.00145
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	LAB	3.452	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.68664	0.19891		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE	0.06855	0.005	0.01986	0.00145
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 01	Routine	LAB	3.452	I15845Q	Nylon Filter	Sulfate - PM2.5	Sulfate	2.22938	0.64582		TRUE	TRUE	AH, FC6		FALSE	FALSE	FALSE	0.17621	0.011	0.05105	0.00319
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Average flow		2.48		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Avg BP		731		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Avg Flow CV		104.4		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Avg ambient temp		8.1		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Avg filter temp		8.2		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		End date			2024-12-27 00:00:00	TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		End time			00:00:00	TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Max BP		733		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Max ambient temp		15.6		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Max filter temp		15.2		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Min BP		730		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Min ambient temp		1.9		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Min filter temp		2		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Run Time		24		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Sample volume		3.57		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Start date			2024-12-26 00:00:00	TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	FIELD	3.57	I15846R	Quartz Filter		Start time			00:00:00	TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	10.9	3.05323		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	3.02155	0.84637		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.10029	0.02809		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	5.12804	1.43643		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	5.08774	1.42514		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.75575	0.21169		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	11.9821	3.35632		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	21.9877	6.15902		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	6.62706	1.85632		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	50.2464	14.0746		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	50.2867	14.0859		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	8.89382	2.49127		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	8.93413	2.50256		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107314 12	Routine	LAB	3.57	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	5.12072	1.43438		TRUE	TRUE	AH, FC7		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Average flow		2.42		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Avg BP		731		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Avg Flow CV		111.2		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Avg ambient temp		8.1		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Avg filter temp		8.2		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		End date			2024-12-27 00:00:00	TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		End time			00:00:00	TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Max BP		733		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Max ambient temp		15.6		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Max filter temp		15.2		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Min BP		730		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Min ambient temp		1.9		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Min filter temp		2		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Run Time		24		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Sample volume		3.488		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Start date			2024-12-26 00:00:00	TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	FIELD	3.488	I15844P	Teflon Filter		Start time			00:00:00	TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Aluminum	1.28933	0.36965		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.12029	0.11605	0.03449	0.03327
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.18129	0.43844	0.05198	0.1257
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.0054	0.01686	0.00155	0.00483
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Barium	0.47449	0.13603		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.03509	0.02752	0.01006	0.00789
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Bromine	0.13786	0.03952		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.01467	0.01548	0.00421	0.00444
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.06575	0.24575	0.01885	0.07045
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Calcium	1.50697	0.43204		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.10714	0.02533	0.03072	0.00726
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.022	0.03103	0.00631	0.0089
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.11033	0.13838	0.03163	0.03967
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Chlorine	1.3899	0.39848		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.09938	0.02191	0.02849	0.00628
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Chromium	0.03447	0.00988		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00828	0.0161	0.00237	0.00462
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Cobalt	0.01774	0.00509		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00667	0.00991	0.00191	0.00284
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Copper	0.17481	0.05012		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.01384	0.0114	0.00397	0.00327
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.09656	0.23381	0.02768	0.06703
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Iron	3.84991	1.10376		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.27276	0.0134	0.0782	0.00384
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Lead	0.05989	0.01717		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.01638	0.03278	0.0047	0.0094
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Magnesium	0.51528	0.14773		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.04897	0.05596	0.01404	0.01604

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Manganese	0.07865	0.02255		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00921	0.01487	0.00264	0.00426
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Nickel	0.01763	0.00505		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00458	0.00936	0.00131	0.00268
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	168	48.1651		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	8.59069	5.5	2.46293	1.57683
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.03267	0.04401	0.00937	0.01262
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Potassium	3.72109	1.06683		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.26362	0.02245	0.07558	0.00644
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Rubidium	0.0087	0.00249		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00974	0.01816	0.00279	0.00521
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00633	0.01653	0.00181	0.00474
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Silicon	4.18326	1.19933		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.34802	0.06	0.09978	0.0172
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.05535	0.22231	0.01587	0.06374
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Sodium	1.56957	0.44999		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.16119	0.22815	0.04621	0.06541
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Strontium	0.01582	0.00454		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.01102	0.02155	0.00316	0.00618
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Sulfur	1.02491	0.29384		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.07397	0.02672	0.02121	0.00766
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Tin	0.1017	0.02916		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.47465	0.50148	0.13608	0.14377
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Titanium	0.27911	0.08002		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.02395	0.02926	0.00687	0.00839
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.01044	0.02396	0.00299	0.00687
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Zinc	0.33098	0.09489		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.0243	0.01249	0.00697	0.00358
2024-12-26 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-26 00:00:00	A107192 1E	Routine	LAB	3.488	I15844P	Teflon Filter	Trace elements (33)	Zirconium	0.0226	0.00648		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.01928	0.02668	0.00553	0.00765
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Avg BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Avg Flow CV		1		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Avg ambient temp		9.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Avg filter temp		9.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		End date			2025-01-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Max BP		733		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Max ambient temp		19.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Max filter temp		20.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Min BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Min ambient temp		-0.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Min filter temp		-0.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Sample volume		9.689		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Start date			2024-12-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	FIELD	9.689	I15851O	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	LAB	9.689	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	7.48081	0.77209		TRUE	TRUE			FALSE	FALSE	FALSE	0.54694	0.005	0.05645	0.00052
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	LAB	9.689	I15851O	Nylon Filter	Nitrate - PM2.5	Nitrate	27.5611	2.84458		TRUE	TRUE			FALSE	FALSE	FALSE	1.96662	0.008	0.20297	0.00083
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	LAB	9.689	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	5.14732	0.53125		TRUE	TRUE			FALSE	FALSE	FALSE	0.38206	0.005	0.03943	0.00052
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	LAB	9.689	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.84535	0.08725		TRUE	TRUE			FALSE	FALSE	FALSE	0.07944	0.005	0.0082	0.00052
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 50	Routine	LAB	9.689	I15851O	Nylon Filter	Sulfate - PM2.5	Sulfate	5.191	0.53576		TRUE	TRUE			FALSE	FALSE	FALSE	0.38514	0.011	0.03975	0.00114
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Avg BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Avg ambient temp		9.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Avg filter temp		9.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		End date			2025-01-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Max BP		733		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Max ambient temp		19.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Max filter temp		20.2		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Min BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Min ambient temp		-0.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Min filter temp		-0.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Sample volume		9.691		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Start date			2024-12-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	FIELD	9.691	I15852P	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	17.1044	1.76498		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.88047	0.19404		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.14306	0.01476		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	6.53457	0.67429		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	5.30445	0.54736		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.58353	0.06021		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	10.1609	1.04849		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	20.4122	2.1063		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	6.09457	0.62889		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	49.8445	5.14339		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	51.0747	5.27032		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	12.5934	1.29949		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	13.8235	1.42643		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 61	Routine	LAB	9.691	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	5.17096	0.53358		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Avg BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Avg Flow CV		1		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Avg ambient temp		9.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Avg filter temp		9.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		End date			2025-01-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Max BP		733		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Max ambient temp		19.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Max filter temp		19.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Min BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Min ambient temp		-0.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Min filter temp		-0.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Sample volume		9.688		TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Start date			2024-12-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	FIELD	9.688	I15850N	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Aluminum	5.19122	0.53584		TRUE	TRUE			FALSE	FALSE	FALSE	0.4421	0.11605	0.04563	0.01198
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01575	0.04526
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Arsenic	0.00452	0.00047		TRUE	TRUE			FALSE	FALSE	FALSE	0.00724	0.01686	0.00075	0.00174
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Barium	0.53788	0.05552		TRUE	TRUE			FALSE	FALSE	FALSE	0.03968	0.02752	0.0041	0.00284
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Bromine	0.06249	0.00645		TRUE	TRUE			FALSE	FALSE	FALSE	0.00986	0.01548	0.00102	0.0016
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02537
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Calcium	5.03189	0.51939		TRUE	TRUE			FALSE	FALSE	FALSE	0.35625	0.02533	0.03677	0.00261
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Chlorine	0.95598	0.09868		TRUE	TRUE			FALSE	FALSE	FALSE	0.06895	0.02191	0.00712	0.00226
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Cobalt	0.00825	0.00085		TRUE	TRUE			FALSE	FALSE	FALSE	0.00602	0.00991	0.00062	0.00102
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Copper	0.266	0.02746		TRUE	TRUE			FALSE	FALSE	FALSE	0.01996	0.0114	0.00206	0.00118
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.0087	0.02413
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Iron	3.32107	0.3428		TRUE	TRUE			FALSE	FALSE	FALSE	0.23537	0.0134	0.02429	0.00138

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Magnesium	1.33566	0.13787		TRUE	TRUE			FALSE	FALSE	FALSE	0.11609	0.05596	0.01198	0.00578
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Manganese	0.10373	0.01071		TRUE	TRUE			FALSE	FALSE	FALSE	0.01007	0.01487	0.00104	0.00153
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Nickel	0.00994	0.00103		TRUE	TRUE			FALSE	FALSE	FALSE	0.00413	0.00936	0.00043	0.00097
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	182	18.7861		TRUE	TRUE			FALSE	FALSE	FALSE	9.27631	5.5	0.95751	0.56771
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Phosphorus	0.42488	0.04386		TRUE	TRUE			FALSE	FALSE	FALSE	0.03762	0.04401	0.00388	0.00454
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Potassium	7.58004	0.78242		TRUE	TRUE			FALSE	FALSE	FALSE	0.53652	0.02245	0.05538	0.00232
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Rubidium	0.00701	0.00072		TRUE	TRUE			FALSE	FALSE	FALSE	0.0086	0.01816	0.00089	0.00187
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Selenium	0.00463	0.00048		TRUE	TRUE			FALSE	FALSE	FALSE	0.00814	0.01653	0.00084	0.00171
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Silicon	13.1781	1.36025		TRUE	TRUE			FALSE	FALSE	FALSE	1.09127	0.06	0.11264	0.00619
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02295
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Sodium	1.2995	0.13414		TRUE	TRUE			FALSE	FALSE	FALSE	0.13959	0.22815	0.01441	0.02355
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Strontium	0.06938	0.00716		TRUE	TRUE			FALSE	FALSE	FALSE	0.01191	0.02155	0.00123	0.00222
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Sulfur	1.89501	0.1956		TRUE	TRUE			FALSE	FALSE	FALSE	0.13542	0.02672	0.01398	0.00276
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01144	0.05176
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Titanium	0.36047	0.03721		TRUE	TRUE			FALSE	FALSE	FALSE	0.02887	0.02926	0.00298	0.00302
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00992	0.02396	0.00102	0.00247
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Zinc	0.10373	0.01071		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2024-12-31 00:00:00	2025-01-31 00:00:00	Maricopa 2024-2025	PCAQD	2024-12-31 00:00:00	A107213 4Z	Routine	LAB	9.688	I15850N	Teflon Filter	Trace elements (33)	Zirconium	0.02034	0.0021		TRUE	TRUE			FALSE	FALSE	FALSE	0.01814	0.02668	0.00187	0.00275
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 83	Routine	FIELD	9.688	I151251	Nylon Filter		Average flow		6.73		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 83	Routine	FIELD	9.688	I151251	Nylon Filter		Avg BP		733		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 83	Routine	FIELD	9.688	I151251	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 83	Routine	FIELD	9.688	I151251	Nylon Filter		Avg ambient temp		9		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		Avg filter temp		8.9		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		End date			2025-01-02 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		End time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		Max BP		735		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		Max ambient temp		19.6		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		Max filter temp		18.8		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		Min BP		732		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		Min ambient temp		-0.3		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		Min filter temp		0		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		Run Time		24		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		Sample volume		9.688		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		Start date			2025-01-01 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	FIELD	9.688	I151251	Nylon Filter		Start time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	LAB	9.688	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	9.63573	0.9946		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.69925	0.005	0.07218	0.00052
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	LAB	9.688	I151251	Nylon Filter	Nitrate - PM2.5	Nitrate	48.0696	4.96177		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	3.41676	0.008	0.35268	0.00083
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	LAB	9.688	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	11.1386	1.14973		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.80549	0.005	0.08314	0.00052
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	LAB	9.688	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.79164	0.08171		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.07575	0.005	0.00782	0.00052
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721383	Routine	LAB	9.688	I151251	Nylon Filter	Sulfate - PM2.5	Sulfate	10.464	1.0801		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.7578	0.011	0.07822	0.00114
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Average flow		6.72		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Avg BP		733		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Avg ambient temp		9		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Avg filter temp		9		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		End date			2025-01-02 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		End time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Max BP		735		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Max ambient temp		19.6		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Max filter temp		19		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Min BP		732		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Min ambient temp		-0.3		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Min filter temp		0		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Run Time		24		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Sample volume		9.683		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Start date			2025-01-01 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	FIELD	9.683	I153144	Quartz Filter		Start time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	16.2712	1.68039		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.89522	0.19573		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.153	0.0158		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	15.3867	1.58904		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	11.5967	1.19764		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.82273	0.08497		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	12.9078	1.33304		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	20.1939	2.0855		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	12.3085	1.27115		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	49.1657	5.07753		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	52.9556	5.46893		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	2.93275	0.30288		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	6.72267	0.69428		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721394	Routine	LAB	9.683	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	64.5524	6.66657		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	FIELD	9.613	I151240	Teflon Filter		Average flow		6.67		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	FIELD	9.613	I151240	Teflon Filter		Avg BP		733		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	FIELD	9.613	I151240	Teflon Filter		Avg Flow CV		7.8		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	FIELD	9.613	I151240	Teflon Filter		Avg ambient temp		9		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		Avg filter temp		9.1		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		End date			2025-01-02 00:00:00	TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		End time			00:00:00	TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		Max BP		735		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		Max ambient temp		19.6		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		Max filter temp		19.1		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		Min BP		732		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		Min ambient temp		-0.3		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		Min filter temp		0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		Run Time		24		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		Sample volume		9.613		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		Start date			2025-01-01 00:00:00	TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	FIELD	9.613	I151240	Teflon Filter		Start time			00:00:00	TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE				
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Aluminum	2.38995	0.24862		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.21087	0.11605	0.02194	0.01207
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.13433	0.43844	0.01397	0.04561
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Arsenic	0.00226	0.00024		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.0113	0.01686	0.00118	0.00175
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Barium	0.63732	0.0663		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.04646	0.02752	0.00483	0.00286
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Bromine	0.10622	0.01105		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.01175	0.01548	0.00122	0.00161
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.06	0.24575	0.00624	0.02556
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Calcium	2.01479	0.20959		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.14313	0.02533	0.01489	0.00264
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.022	0.03103	0.00229	0.00323
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.11033	0.13838	0.01148	0.01439
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Chlorine	2.46679	0.25661		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.1755	0.02191	0.01826	0.00228
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Chromium	0.01322	0.00138		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.007	0.0161	0.00073	0.00167
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A107213 72	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Cobalt	0.00667	0.00069		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00466	0.00991	0.00048	0.00103

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Copper	0.53935	0.05611		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.03884	0.0114	0.00404	0.00119
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.071	0.23381	0.00739	0.02432
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Iron	1.41081	0.14676		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.10036	0.0134	0.01044	0.00139
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Lead	0.04407	0.00458		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.02169	0.03278	0.00226	0.00341
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Magnesium	1.74585	0.18161		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.14966	0.05596	0.01557	0.00582
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Manganese	0.06678	0.00695		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00754	0.01487	0.00078	0.00155
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Nickel	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	206	21.4293		FALSE	FALSE	AH, FC5		FALSE	FALSE	FALSE	10.4561	5.5	1.0877	0.57214
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Phosphorus	0.04068	0.00423		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.03267	0.04401	0.0034	0.00458
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Potassium	13.3148	1.38508		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.94202	0.02245	0.09799	0.00234
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Rubidium	0.00407	0.00042		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00825	0.01816	0.00086	0.00189
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Selenium	0.01074	0.00112		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00772	0.01653	0.0008	0.00172
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Silicon	5.33586	0.55507		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.44346	0.06	0.04613	0.00624
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.04733	0.22231	0.00492	0.02313
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Sodium	1.94473	0.2023		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.1982	0.22815	0.02062	0.02373
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Strontium	0.17289	0.01799		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.01665	0.02155	0.00173	0.00224
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Sulfur	3.56515	0.37087		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.25342	0.02672	0.02636	0.00278
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Tin	0.0226	0.00235		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.3503	0.50148	0.03644	0.05217
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Titanium	0.26555	0.02762		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.02192	0.02926	0.00228	0.00304
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.00967	0.02396	0.00101	0.00249
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Zinc	0.20227	0.02104		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.01546	0.01249	0.00161	0.0013
2025-01-01 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-01 00:00:00	A10721372	Routine	LAB	9.613	I151240	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE	AH, FC5		FALSE	FALSE	FALSE	0.01467	0.02668	0.00153	0.00278

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Avg ambient temp		9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Avg filter temp		8.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		End date			2025-01-08 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Max ambient temp		17.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Max filter temp		18.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Min ambient temp		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Min filter temp		1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Sample volume		9.701		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Start date			2025-01-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	FIELD	9.701	I151488	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	LAB	9.701	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.86012	0.08866		TRUE	TRUE			FALSE	FALSE	FALSE	0.08046	0.005	0.00829	0.00052
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	LAB	9.701	I151488	Nylon Filter	Nitrate - PM2.5	Nitrate	9.43556	0.97264		TRUE	TRUE			FALSE	FALSE	FALSE	0.6851	0.008	0.07062	0.00082
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	LAB	9.701	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.95014	0.09794		TRUE	TRUE			FALSE	FALSE	FALSE	0.08668	0.005	0.00894	0.00052
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	LAB	9.701	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.74584	0.07688		TRUE	TRUE			FALSE	FALSE	FALSE	0.0726	0.005	0.00748	0.00052
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 1E	Routine	LAB	9.701	I151488	Nylon Filter	Sulfate - PM2.5	Sulfate	2.7729	0.28584		TRUE	TRUE			FALSE	FALSE	FALSE	0.21448	0.011	0.02211	0.00113
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Avg ambient temp		9		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Avg filter temp		9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		End date			2025-01-08 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Max ambient temp		17.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Max filter temp		18.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Min ambient temp		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Min filter temp		1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Sample volume		9.697		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Start date			2025-01-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	FIELD	9.697	I150309	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	8.25165	0.85095		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.96072	0.30532		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	1.28727	0.13275		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	5.91942	0.61044		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	5.91942	0.61044		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.51289	0.05289		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	6.05017	0.62392		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	15.4659	1.59492		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	5.8013	0.59826		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	34.4105	3.54857		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	34.4105	3.54857		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	6.58022	0.67858		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	6.58022	0.67858		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 2F	Routine	LAB	9.697	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	40.3299	4.15901		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Avg ambient temp		9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Avg filter temp		8.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		End date			2025-01-08 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Max ambient temp		17.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Max filter temp		18		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Min ambient temp		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Min filter temp		1.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Sample volume		9.687		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Start date			2025-01-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	FIELD	9.687	I151499	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Aluminum	3.22728	0.33316		TRUE	TRUE			FALSE	FALSE	FALSE	0.27825	0.11605	0.02872	0.01198
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01463	0.04526
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Arsenic	0.00509	0.00052		TRUE	TRUE			FALSE	FALSE	FALSE	0.01052	0.01686	0.00109	0.00174
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Barium	0.26386	0.02724		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Bromine	0.0348	0.00359		TRUE	TRUE			FALSE	FALSE	FALSE	0.00828	0.01548	0.00086	0.0016
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02537
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Calcium	3.07812	0.31776		TRUE	TRUE			FALSE	FALSE	FALSE	0.2181	0.02533	0.02251	0.00261
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Chlorine	0.57946	0.05982		TRUE	TRUE			FALSE	FALSE	FALSE	0.04239	0.02191	0.00438	0.00226

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Cobalt	0.00915	0.00094		TRUE	TRUE			FALSE	FALSE	FALSE	0.00501	0.00991	0.00052	0.00102
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Copper	0.0313	0.00323		TRUE	TRUE			FALSE	FALSE	FALSE	0.00544	0.0114	0.00056	0.00118
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02414
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Iron	2.27469	0.23482		TRUE	TRUE			FALSE	FALSE	FALSE	0.16142	0.0134	0.01666	0.00138
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Lead	0.03616	0.00373		TRUE	TRUE			FALSE	FALSE	FALSE	0.0205	0.03278	0.00212	0.00338
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Magnesium	0.69608	0.07186		TRUE	TRUE			FALSE	FALSE	FALSE	0.0633	0.05596	0.00653	0.00578
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Manganese	0.0713	0.00736		TRUE	TRUE			FALSE	FALSE	FALSE	0.00766	0.01487	0.00079	0.00153
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Nickel	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	118	12.1813		FALSE	FALSE			FALSE	FALSE	FALSE	6.16847	5.5	0.63678	0.56777
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Phosphorus	0.12995	0.01341		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Potassium	2.26791	0.23412		TRUE	TRUE			FALSE	FALSE	FALSE	0.16095	0.02245	0.01662	0.00232
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Rubidium	0.01006	0.00104		TRUE	TRUE			FALSE	FALSE	FALSE	0.00794	0.01816	0.00082	0.00187
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Selenium	0.00023	2.3E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.00723	0.01653	0.00075	0.00171
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Silicon	8.68631	0.8967		TRUE	TRUE			FALSE	FALSE	FALSE	0.72001	0.06	0.07433	0.00619
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02295
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Sodium	1.0848	0.11199		TRUE	TRUE			FALSE	FALSE	FALSE	0.12867	0.22815	0.01328	0.02355
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Strontium	0.02486	0.00257		TRUE	TRUE			FALSE	FALSE	FALSE	0.00932	0.02155	0.00096	0.00223
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Sulfur	0.83055	0.08574		TRUE	TRUE			FALSE	FALSE	FALSE	0.0603	0.02672	0.00622	0.00276
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01144	0.05177
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Titanium	0.19696	0.02033		TRUE	TRUE			FALSE	FALSE	FALSE	0.01765	0.02926	0.00182	0.00302
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Vanadium	0.00723	0.00075		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Zinc	0.09955	0.01028		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-01-07 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-07 00:00:00	A109234 0D	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Avg BP		733		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Avg ambient temp		7.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Avg filter temp		7.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		End date			2025-01-20 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Max ambient temp		17.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Max filter temp		18.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Min BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Min ambient temp		-3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Min filter temp		-2.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Sample volume		9.685		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Start date			2025-01-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	FIELD	9.685	I15839S	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	LAB	9.685	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	5.19613	0.53651		TRUE	TRUE			FALSE	FALSE	FALSE	0.38551	0.005	0.0398	0.00052
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	LAB	9.685	I15839S	Nylon Filter	Nitrate - PM2.5	Nitrate	28.2405	2.9159		TRUE	TRUE			FALSE	FALSE	FALSE	2.01466	0.008	0.20802	0.00083
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	LAB	9.685	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.53241	0.15822		TRUE	TRUE			FALSE	FALSE	FALSE	0.12727	0.005	0.01314	0.00052
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	LAB	9.685	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.68215	0.07043		TRUE	TRUE			FALSE	FALSE	FALSE	0.06824	0.005	0.00705	0.00052
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 7T	Routine	LAB	9.685	I15839S	Nylon Filter	Sulfate - PM2.5	Sulfate	4.42095	0.45647		TRUE	TRUE			FALSE	FALSE	FALSE	0.33076	0.011	0.03415	0.00114
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Avg BP		733		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Avg ambient temp		7.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Avg filter temp		7.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		End date			2025-01-20 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Max ambient temp		17.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Max filter temp		18.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Min BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Min ambient temp		-3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Min filter temp		-2.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Sample volume		9.678		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Start date			2025-01-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	FIELD	9.678	I15840L	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	10.4812	1.08299		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.11905	0.21896		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.07302	0.00754		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	6.50269	0.6719		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071888U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	5.6574	0.58456		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071888U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.73677	0.07613		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071888U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	9.00255	0.93021		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071888U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	16.5366	1.70868		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071888U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	7.0701	0.73053		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071888U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	39.5166	4.08314		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071888U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	40.3619	4.17048		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071888U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	6.17055	0.63759		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071888U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	7.01584	0.72493		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 8U	Routine	LAB	9.678	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	46.0193	4.75504		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Average flow		6.32		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Avg BP		733		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Avg ambient temp		7.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Avg filter temp		7.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		End date			2025-01-20 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Max ambient temp		17.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Max filter temp		17.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Min BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Min ambient temp		-3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Min filter temp		-2.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Sample volume		9.681		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Start date			2025-01-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	FIELD	9.681	I15838R	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Aluminum	3.12897	0.32321		TRUE	TRUE			FALSE	FALSE	FALSE	0.27055	0.11605	0.02795	0.01199
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01464	0.04529
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Barium	0.25143	0.02597		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Bromine	0.03808	0.00393		TRUE	TRUE			FALSE	FALSE	FALSE	0.00878	0.01548	0.00091	0.0016
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.0062	0.02538

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Calcium	3.44763	0.35612		TRUE	TRUE			FALSE	FALSE	FALSE	0.24419	0.02533	0.02522	0.00262
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.00321
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.0114	0.01429
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Chlorine	0.69269	0.07155		TRUE	TRUE			FALSE	FALSE	FALSE	0.05027	0.02191	0.00519	0.00226
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Cobalt	0.00915	0.00095		TRUE	TRUE			FALSE	FALSE	FALSE	0.00535	0.00991	0.00055	0.00102
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Copper	0.02463	0.00254		TRUE	TRUE			FALSE	FALSE	FALSE	0.00538	0.0114	0.00056	0.00118
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.0087	0.02415
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Iron	2.34475	0.2422		TRUE	TRUE			FALSE	FALSE	FALSE	0.16635	0.0134	0.01718	0.00138
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Lead	0.03051	0.00315		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00339
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Magnesium	0.75032	0.0775		TRUE	TRUE			FALSE	FALSE	FALSE	0.06796	0.05596	0.00702	0.00578
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Manganese	0.07413	0.00766		TRUE	TRUE			FALSE	FALSE	FALSE	0.00804	0.01487	0.00083	0.00154
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Nickel	0.00915	0.00095		TRUE	TRUE			FALSE	FALSE	FALSE	0.00378	0.00936	0.00039	0.00097
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	142	14.6679		FALSE	FALSE			FALSE	FALSE	FALSE	7.32462	5.5	0.7566	0.56812
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Phosphorus	0.23956	0.02475		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00455
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Potassium	2.65663	0.27442		TRUE	TRUE			FALSE	FALSE	FALSE	0.18844	0.02245	0.01947	0.00232
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Rubidium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00567	0.01816	0.00059	0.00188
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Silicon	8.73038	0.90181		TRUE	TRUE			FALSE	FALSE	FALSE	0.72364	0.06	0.07475	0.0062
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02296
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Sodium	1.26334	0.1305		TRUE	TRUE			FALSE	FALSE	FALSE	0.13497	0.22815	0.01394	0.02357
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A1071886S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Strontium	0.02475	0.00256		TRUE	TRUE			FALSE	FALSE	FALSE	0.00954	0.02155	0.00099	0.00223

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Sulfur	1.37973	0.14252		TRUE	TRUE			FALSE	FALSE	FALSE	0.09906	0.02672	0.01023	0.00276
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01145	0.0518
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Titanium	0.20566	0.02124		TRUE	TRUE			FALSE	FALSE	FALSE	0.01842	0.02926	0.0019	0.00302
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00248
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Zinc	0.06611	0.00683		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-01-19 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-19 00:00:00	A107188 6S	Routine	LAB	9.681	I15838R	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00152	0.00276
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Average flow		6.72		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Avg BP		728		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Avg ambient temp		11		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Avg filter temp		10.9		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		End date			2025-01-26 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		End time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Max BP		729		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Max ambient temp		22		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Max filter temp		22		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Min BP		727		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Min ambient temp		2.1		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Min filter temp		2.8		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Run Time		24		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Sample volume		9.685		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Start date			2025-01-25 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	FIELD	9.685	I15845Q	Nylon Filter		Start time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	LAB	9.685	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	2.48139	0.25621		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.19395	0.005	0.02003	0.00052
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	LAB	9.685	I15845Q	Nylon Filter	Nitrate - PM2.5	Nitrate	10.5967	1.09414		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.76718	0.008	0.07921	0.00083

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	LAB	9.685	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.44633	0.14934		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.12124	0.005	0.01252	0.00052
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	LAB	9.685	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.70831	0.07313		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.07003	0.005	0.00723	0.00052
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109747 4A	Routine	LAB	9.685	I15845Q	Nylon Filter	Sulfate - PM2.5	Sulfate	3.96503	0.4094		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.29857	0.011	0.03083	0.00114
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Average flow		6.73		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Avg BP		728		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Avg ambient temp		11		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Avg filter temp		11		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		End date			2025-01-26 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		End time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Max BP		729		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Max ambient temp		22		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Max filter temp		22.1		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Min BP		727		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Min ambient temp		2.1		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Min filter temp		2.7		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Run Time		24		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Sample volume		9.692		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Start date			2025-01-25 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	FIELD	9.692	I15846R	Quartz Filter		Start time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	8.56762	0.88399		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.18236	0.22517		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A1097458A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.08772	0.00905		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A1097458A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	3.9826	0.41092		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A1097458A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.42251	0.35313		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A1097458A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.57117	0.05893		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A1097458A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	8.42798	0.86958		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A1097458A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	17.4029	1.7956		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A1097458A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	7.47619	0.77138		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A1097458A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	40.7334	4.20279		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A1097458A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	41.2935	4.26057		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	6.85511	0.7073		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	7.41519	0.76508		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109745 8A	Routine	LAB	9.692	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	44.716	4.6137		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Average flow		6.72		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Avg BP		728		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Avg ambient temp		11		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Avg filter temp		11		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		End date			2025-01-26 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		End time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Max BP		729		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Max ambient temp		22		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Max filter temp		22.1		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Min BP		727		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Min ambient temp		2.1		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Min filter temp		2.8		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Run Time		24		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Sample volume		9.683		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Start date			2025-01-25 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	FIELD	9.683	I15844P	Teflon Filter		Start time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Aluminum	4.35276	0.44953		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.37214	0.11605	0.03843	0.01198
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.16275	0.43844	0.01681	0.04528

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Barium	0.32431	0.03349		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Bromine	0.0452	0.00467		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00959	0.01548	0.00099	0.0016
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Cadmium	0.1582	0.01634		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.20371	0.24575	0.02104	0.02538
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Calcium	4.08608	0.42198		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.28933	0.02533	0.02988	0.00262
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01429
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Chlorine	4.10755	0.4242		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.29135	0.02191	0.03009	0.00226
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Cobalt	0.01096	0.00113		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00604	0.00991	0.00062	0.00102
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Copper	0.07243	0.00748		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00771	0.0114	0.0008	0.00118
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.08425	0.23381	0.0087	0.02415
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Iron	2.87811	0.29723		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.20404	0.0134	0.02107	0.00138
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Lead	0.03277	0.00338		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Magnesium	0.98875	0.10211		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.08765	0.05596	0.00905	0.00578
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Manganese	0.09153	0.00945		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00962	0.01487	0.00099	0.00154
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Nickel	0.01808	0.00187		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00437	0.00936	0.00045	0.00097
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	143	14.7682		FALSE	FALSE	FC5		FALSE	FALSE	FALSE	7.37309	5.5	0.76145	0.56801
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Phosphorus	0.2373	0.02451		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Potassium	3.31203	0.34205		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.23475	0.02245	0.02424	0.00232
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Rubidium	0.01322	0.00137		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.0092	0.01816	0.00095	0.00188
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Selenium	0.00893	0.00092		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00895	0.01653	0.00092	0.00171

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Silicon	11.7305	1.21146		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.97158	0.06	0.10034	0.0062
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02296
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Sodium	1.50516	0.15544		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.158	0.22815	0.01632	0.02356
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Strontium	0.02204	0.00228		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01062	0.02155	0.0011	0.00223
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Sulfur	1.49612	0.15451		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.10737	0.02672	0.01109	0.00276
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.12331	0.50148	0.01273	0.05179
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Titanium	0.20453	0.02112		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01983	0.02926	0.00205	0.00302
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Vanadium	0.00113	0.00012		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01062	0.02396	0.0011	0.00247
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Zinc	0.10769	0.01112		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-01-25 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-25 00:00:00	A109748 9H	Routine	LAB	9.683	I15844P	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01467	0.02668	0.00152	0.00276
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Avg BP		735		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Avg ambient temp		7.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Avg filter temp		7.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		End date			2025-02-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Max BP		738		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Max ambient temp		17.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Max filter temp		17.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Min BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Min ambient temp		-2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Min filter temp		-2.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Sample volume		9.682		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Start date			2025-01-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	FIELD	9.682	I15851O	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	LAB	9.682	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	11.8479	1.2237		TRUE	TRUE			FALSE	FALSE	FALSE	0.85563	0.005	0.08837	0.00052
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	LAB	9.682	I15851O	Nylon Filter	Nitrate - PM2.5	Nitrate	38.9804	4.02607		TRUE	TRUE			FALSE	FALSE	FALSE	2.77407	0.008	0.28652	0.00083
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	LAB	9.682	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.85822	0.19192		TRUE	TRUE			FALSE	FALSE	FALSE	0.15012	0.005	0.0155	0.00052
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	LAB	9.682	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.74117	0.07655		TRUE	TRUE			FALSE	FALSE	FALSE	0.07228	0.005	0.00747	0.00052
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109749 9J	Routine	LAB	9.682	I15851O	Nylon Filter	Sulfate - PM2.5	Sulfate	10.2639	1.06011		TRUE	TRUE			FALSE	FALSE	FALSE	0.74366	0.011	0.07681	0.00114
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Average flow		6.752		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Avg BP		735		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Avg ambient temp		7.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Avg filter temp		8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		End date			2025-02-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Max BP		738		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Max ambient temp		17.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Max filter temp		17.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Min BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Min ambient temp		-2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Min filter temp		-2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Sample volume		9.686		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Start date			2025-01-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	FIELD	9.686	I15852P	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	12.0466	1.24371		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A10975403	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.83677	0.18963		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A10975403	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.03897	0.00402		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A10975403	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	6.85258	0.70747		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A10975403	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	4.60281	0.4752		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A10975403	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.69746	0.07201		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A10975403	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	12.0668	1.2458		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A10975403	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	15.0743	1.5563		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A10975403	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	5.67683	0.58609		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A10975403	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	40.5851	4.19008		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	42.8349	4.42235		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	7.06972	0.72989		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	9.3195	0.96216		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109754 03	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	47.4377	4.89755		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Avg BP		735		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Avg ambient temp		7.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Avg filter temp		7.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		End date			2025-02-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Max BP		738		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Max ambient temp		17.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Max filter temp		17.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Min BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Min ambient temp		-2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Min filter temp		-2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Sample volume		9.682		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Start date			2025-01-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	FIELD	9.682	I15850N	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Aluminum	0.40567	0.0419		TRUE	TRUE			FALSE	FALSE	FALSE	0.05564	0.11605	0.00575	0.01199
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01464	0.04528
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Arsenic	0.01187	0.00123		TRUE	TRUE			FALSE	FALSE	FALSE	0.01099	0.01686	0.00114	0.00174
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Barium	0.00362	0.00037		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Bromine	0.09526	0.00984		TRUE	TRUE			FALSE	FALSE	FALSE	0.01136	0.01548	0.00117	0.0016
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.0062	0.02538
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Calcium	0.44477	0.04594		TRUE	TRUE			FALSE	FALSE	FALSE	0.03273	0.02533	0.00338	0.00262
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.0114	0.01429
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Chlorine	0.65879	0.06804		TRUE	TRUE			FALSE	FALSE	FALSE	0.04822	0.02191	0.00498	0.00226
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Chromium	0.00735	0.00076		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Cobalt	0.00938	0.00097		TRUE	TRUE			FALSE	FALSE	FALSE	0.00412	0.00991	0.00043	0.00102
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Copper	0.01921	0.00198		TRUE	TRUE			FALSE	FALSE	FALSE	0.00515	0.0114	0.00053	0.00118
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02415
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Iron	0.48669	0.05027		TRUE	TRUE			FALSE	FALSE	FALSE	0.03529	0.0134	0.00364	0.00138
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Lead	0.02825	0.00292		TRUE	TRUE			FALSE	FALSE	FALSE	0.02044	0.03278	0.00211	0.00339
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Magnesium	0.12204	0.0126		TRUE	TRUE			FALSE	FALSE	FALSE	0.03667	0.05596	0.00379	0.00578
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Manganese	0.00667	0.00069		TRUE	TRUE			FALSE	FALSE	FALSE	0.00567	0.01487	0.00059	0.00154
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Nickel	0.00746	0.00077		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	127	13.1171		FALSE	FALSE			FALSE	FALSE	FALSE	6.60019	5.5	0.6817	0.56806
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00455

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Potassium	1.18085	0.12196		TRUE	TRUE			FALSE	FALSE	FALSE	0.08419	0.02245	0.0087	0.00232
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Rubidium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00567	0.01816	0.00059	0.00188
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Selenium	0.00045	4.7E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.00768	0.01653	0.00079	0.00171
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Silicon	1.33227	0.1376		TRUE	TRUE			FALSE	FALSE	FALSE	0.11341	0.06	0.01171	0.0062
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02296
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Sodium	0.90626	0.0936		TRUE	TRUE			FALSE	FALSE	FALSE	0.12867	0.22815	0.01329	0.02356
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Strontium	0.00136	0.00014		TRUE	TRUE			FALSE	FALSE	FALSE	0.00904	0.02155	0.00093	0.00223
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Sulfur	3.70414	0.38258		TRUE	TRUE			FALSE	FALSE	FALSE	0.2631	0.02672	0.02717	0.00276
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Tin	0.0113	0.00117		TRUE	TRUE			FALSE	FALSE	FALSE	0.3729	0.50148	0.03851	0.0518
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Titanium	0.04351	0.00449		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00145	0.00302
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Zinc	0.05966	0.00616		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-01-31 00:00:00	2025-03-11 00:00:00	Maricopa 2024-2025	PCAQD	2025-01-31 00:00:00	A109751 1Y	Routine	LAB	9.682	I15850N	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00152	0.00276
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Avg BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Avg ambient temp		13.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Avg filter temp		14		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		End date			2025-02-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Max ambient temp		24.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Max filter temp		24.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Min BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Min ambient temp		1.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Min filter temp		2.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Sample volume		9.694		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Start date			2025-02-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	FIELD	9.694	I151251	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	LAB	9.694	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	3.06056	0.31572		TRUE	TRUE			FALSE	FALSE	FALSE	0.23476	0.005	0.02422	0.00052
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	LAB	9.694	I151251	Nylon Filter	Nitrate - PM2.5	Nitrate	10.4629	1.07931		TRUE	TRUE			FALSE	FALSE	FALSE	0.75772	0.008	0.07816	0.00083
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	LAB	9.694	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.75446	0.07783		TRUE	TRUE			FALSE	FALSE	FALSE	0.07319	0.005	0.00755	0.00052
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	LAB	9.694	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.74921	0.07729		TRUE	TRUE			FALSE	FALSE	FALSE	0.07283	0.005	0.00751	0.00052
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 8R	Routine	LAB	9.694	I151251	Nylon Filter	Sulfate - PM2.5	Sulfate	9.78077	1.00895		TRUE	TRUE			FALSE	FALSE	FALSE	0.7095	0.011	0.07319	0.00113
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Avg BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Avg ambient temp		13.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Avg filter temp		14.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		End date			2025-02-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Max ambient temp		24.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Max filter temp		24.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Min BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Min ambient temp		1.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Min filter temp		2.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Sample volume		9.693		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Start date			2025-02-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	FIELD	9.693	I1533144	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	6.79037	0.70054		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.18968	0.2259		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.04008	0.00413		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	3.07188	0.31692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.89998	0.29918		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.46181	0.04764		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.29629	0.5464		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	9.83909	1.01507		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 9S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.37514	0.3482		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094169S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	24.9206	2.57099		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094169S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	25.0925	2.58872		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094169S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	5.94825	0.61366		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094169S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	6.12015	0.6314		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094169S	Routine	LAB	9.693	I1533144	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	27.9925	2.8879		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		Avg BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		Avg ambient temp		13.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		Avg filter temp		13.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		End date			2025-02-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		Max ambient temp		24.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		Max filter temp		24.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		Min BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		Min ambient temp		1.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A1094167Q	Routine	FIELD	9.694	I151240	Teflon Filter		Min filter temp		2.2		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	FIELD	9.694	I151240	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	FIELD	9.694	I151240	Teflon Filter		Sample volume		9.694		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	FIELD	9.694	I151240	Teflon Filter		Start date			2025-02-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	FIELD	9.694	I151240	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Aluminum	1.76393	0.18196		TRUE	TRUE			FALSE	FALSE	FALSE	0.1577	0.11605	0.01627	0.01197
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01462	0.04523
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Arsenic	0.00305	0.00031		TRUE	TRUE			FALSE	FALSE	FALSE	0.0104	0.01686	0.00107	0.00174
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Barium	0.10633	0.01097		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Bromine	0.04045	0.00417		TRUE	TRUE			FALSE	FALSE	FALSE	0.00852	0.01548	0.00088	0.0016
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02535
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Calcium	1.69952	0.17532		TRUE	TRUE			FALSE	FALSE	FALSE	0.12072	0.02533	0.01245	0.00261
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Chlorine	0.1043	0.01076		TRUE	TRUE			FALSE	FALSE	FALSE	0.016	0.02191	0.00165	0.00226
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Chromium	0.01175	0.00121		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Cobalt	0.01006	0.00104		TRUE	TRUE			FALSE	FALSE	FALSE	0.0048	0.00991	0.0005	0.00102
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Copper	0.02938	0.00303		TRUE	TRUE			FALSE	FALSE	FALSE	0.0056	0.0114	0.00058	0.00118
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02412
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Iron	1.20933	0.12475		TRUE	TRUE			FALSE	FALSE	FALSE	0.08616	0.0134	0.00889	0.00138
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Lead	0.03503	0.00361		TRUE	TRUE			FALSE	FALSE	FALSE	0.02049	0.03278	0.00211	0.00338
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Magnesium	0.38533	0.03975		TRUE	TRUE			FALSE	FALSE	FALSE	0.03894	0.05596	0.00402	0.00577
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Manganese	0.03017	0.00311		TRUE	TRUE			FALSE	FALSE	FALSE	0.00615	0.01487	0.00063	0.00153
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Nickel	0.01356	0.0014		TRUE	TRUE			FALSE	FALSE	FALSE	0.00385	0.00936	0.0004	0.00097

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	80	8.25253		FALSE	FALSE			FALSE	FALSE	FALSE	4.38634	5.5	0.45248	0.56736
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Phosphorus	0.03503	0.00361		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Potassium	1.45431	0.15002		TRUE	TRUE			FALSE	FALSE	FALSE	0.10346	0.02245	0.01067	0.00232
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Rubidium	0.0026	0.00027		TRUE	TRUE			FALSE	FALSE	FALSE	0.00791	0.01816	0.00082	0.00187
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Silicon	4.49062	0.46324		TRUE	TRUE			FALSE	FALSE	FALSE	0.37339	0.06	0.03852	0.00619
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Sodium	1.2882	0.13289		TRUE	TRUE			FALSE	FALSE	FALSE	0.13618	0.22815	0.01405	0.02354
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Strontium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00733	0.02155	0.00076	0.00222
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Sulfur	3.37079	0.34772		TRUE	TRUE			FALSE	FALSE	FALSE	0.23951	0.02672	0.02471	0.00276
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.10233	0.50148	0.01056	0.05173
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Titanium	0.08848	0.00913		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Zinc	0.0313	0.00323		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-02-06 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-06 00:00:00	A109416 7Q	Routine	LAB	9.694	I151240	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Average flow		6.73		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Avg BP		727		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Avg ambient temp		12.2		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Avg filter temp		12.4		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		End date			2025-02-13 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		End time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Max BP		731		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Max ambient temp		17.2		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Max filter temp		17.1		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Min BP		725		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Min ambient temp		7.7		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Min filter temp		7.8		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Run Time		24		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Sample volume		9.699		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Start date			2025-02-12 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	FIELD	9.699	I151488	Nylon Filter		Start time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	LAB	9.699	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.64359	0.06636		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.06561	0.005	0.00676	0.00052
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	LAB	9.699	I151488	Nylon Filter	Nitrate - PM2.5	Nitrate	8.62201	0.88896		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.62759	0.008	0.06471	0.00082
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	LAB	9.699	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.55682	0.05741		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.05973	0.005	0.00616	0.00052
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	LAB	9.699	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	3.85182	0.39714		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.29058	0.005	0.02996	0.00052
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 1M	Routine	LAB	9.699	I151488	Nylon Filter	Sulfate - PM2.5	Sulfate	5.89386	0.60768		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.4348	0.011	0.04483	0.00113
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Average flow		6.72		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Avg BP		727		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Avg ambient temp		12.2		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Avg filter temp		12.3		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		End date			2025-02-13 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		End time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Max BP		731		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Max ambient temp		17.2		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Max filter temp		17.1		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Min BP		725		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Min ambient temp		7.7		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Min filter temp		7.8		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Run Time		24		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Sample volume		9.681		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Start date			2025-02-12 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	FIELD	9.681	I150309	Quartz Filter		Start time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.846	0.39727		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	0.73288	0.0757		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.02193	0.00227		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.12322	0.21932		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	1.50437	0.15539		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.38903	0.04018		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	3.79819	0.39233		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 2N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	11.7349	1.21216		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094172N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	2.80829	0.29008		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094172N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	21.208	2.19069		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094172N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	21.8269	2.25461		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094172N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	2.4776	0.25592		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094172N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.09645	0.31985		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094172N	Routine	LAB	9.681	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	23.3313	2.41		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Average flow		6.73		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Avg BP		727		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Avg ambient temp		12.2		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Avg filter temp		12.5		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		End date			2025-02-13 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		End time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Max BP		731		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Max ambient temp		17.2		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Max filter temp		17.5		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Min BP		725		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Min ambient temp		7.7		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Min filter temp		7.8		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Run Time		24		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Sample volume		9.695		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Start date			2025-02-12 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	FIELD	9.695	I151499	Teflon Filter		Start time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Aluminum	1.58426	0.16341		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.14371	0.11605	0.01482	0.01197
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.14171	0.43844	0.01462	0.04522
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Arsenic	0.00079	8.2E-05		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00633	0.01686	0.00065	0.00174
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Barium	0.13119	0.01353		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Bromine	0.02452	0.00253		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.0081	0.01548	0.00084	0.0016
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02535
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Calcium	1.75828	0.18136		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.12485	0.02533	0.01288	0.00261
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Chlorine	2.15152	0.22192		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.15309	0.02191	0.01579	0.00226
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Cobalt	0.00678	0.0007		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00466	0.00991	0.00048	0.00102
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Copper	0.0287	0.00296		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00548	0.0114	0.00056	0.00118
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02412
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Iron	1.23204	0.12708		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.08775	0.0134	0.00905	0.00138
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A1094170L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Magnesium	0.71416	0.07366		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.06471	0.05596	0.00667	0.00577

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Manganese	0.03085	0.00318		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00616	0.01487	0.00064	0.00153
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Nickel	0.00068	7E-05		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00096
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	94	9.69572		FALSE	FALSE	FC5		FALSE	FALSE	FALSE	5.03289	5.5	0.51912	0.5673
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Phosphorus	0.04972	0.00513		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Potassium	1.24707	0.12863		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.08885	0.02245	0.00916	0.00232
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Rubidium	0.01028	0.00106		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00772	0.01816	0.0008	0.00187
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Silicon	4.8364	0.49886		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.40193	0.06	0.04146	0.00619
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Sodium	4.48384	0.46249		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.4371	0.22815	0.04509	0.02353
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Strontium	0.01593	0.00164		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00922	0.02155	0.00095	0.00222
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Sulfur	1.78992	0.18462		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.1279	0.02672	0.01319	0.00276
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Tin	0.1808	0.01865		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.37312	0.50148	0.03849	0.05173
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Titanium	0.1191	0.01228		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Zinc	0.01435	0.00148		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-02-12 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-12 00:00:00	A109417 0L	Routine	LAB	9.695	I151499	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Avg Flow CV		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Avg ambient temp		14.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Avg filter temp		14.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		End date			2025-02-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Max ambient temp		23.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Max filter temp		24.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Min ambient temp		5.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Min filter temp		5.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Sample volume		9.698		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Start date			2025-02-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	FIELD	9.698	I15836P	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	LAB	9.698	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.76383	0.07876		TRUE	TRUE			FALSE	FALSE	FALSE	0.07384	0.005	0.00761	0.00052
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	LAB	9.698	I15836P	Nylon Filter	Nitrate - PM2.5	Nitrate	7.37419	0.76038		TRUE	TRUE			FALSE	FALSE	FALSE	0.5394	0.008	0.05562	0.00082
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	LAB	9.698	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.46686	0.04814		TRUE	TRUE			FALSE	FALSE	FALSE	0.05368	0.005	0.00554	0.00052
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	LAB	9.698	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.50642	0.05222		TRUE	TRUE			FALSE	FALSE	FALSE	0.05633	0.005	0.00581	0.00052
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 8S	Routine	LAB	9.698	I15836P	Nylon Filter	Sulfate - PM2.5	Sulfate	3.19148	0.32909		TRUE	TRUE			FALSE	FALSE	FALSE	0.24399	0.011	0.02516	0.00113
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Avg ambient temp		14.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Avg filter temp		14.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		End date			2025-02-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Max ambient temp		23.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Max filter temp		24.1		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Min ambient temp		5.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Min filter temp		5.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Sample volume		9.699		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Start date			2025-02-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	FIELD	9.699	I15837Q	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.10251	0.42298		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.76936	0.18243		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.03267	0.00337		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.66967	0.27525		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.41624	0.24912		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.46813	0.04827		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.44649	0.45845		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	11.4819	1.18382		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.12053	0.32174		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	22.7519	2.3458		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	23.0054	2.37193		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	3.23487	0.33353		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.48831	0.35966		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 9T	Routine	LAB	9.699	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	25.4216	2.62105		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Avg ambient temp		14.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Avg filter temp		14.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		End date			2025-02-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Max ambient temp		23.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Max filter temp		23.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Min ambient temp		5.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Min filter temp		5.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Sample volume		9.69		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Start date			2025-02-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	FIELD	9.69	I15835O	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Aluminum	1.73003	0.17854		TRUE	TRUE			FALSE	FALSE	FALSE	0.15504	0.11605	0.016	0.01198
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.16275	0.43844	0.0168	0.04525
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Arsenic	0.00226	0.00023		TRUE	TRUE			FALSE	FALSE	FALSE	0.0113	0.01686	0.00117	0.00174
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Barium	0.11063	0.01142		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Bromine	0.04113	0.00424		TRUE	TRUE			FALSE	FALSE	FALSE	0.0095	0.01548	0.00098	0.0016
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02536
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Calcium	1.92326	0.19848		TRUE	TRUE			FALSE	FALSE	FALSE	0.13648	0.02533	0.01408	0.00261
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Chlorine	0.09097	0.00939		TRUE	TRUE			FALSE	FALSE	FALSE	0.016	0.02191	0.00165	0.00226
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Cobalt	0.01119	0.00115		TRUE	TRUE			FALSE	FALSE	FALSE	0.00526	0.00991	0.00054	0.00102
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Copper	0.07266	0.0075		TRUE	TRUE			FALSE	FALSE	FALSE	0.00764	0.0114	0.00079	0.00118
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.02413
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Iron	1.14582	0.11825		TRUE	TRUE			FALSE	FALSE	FALSE	0.08174	0.0134	0.00844	0.00138

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Lead	0.00452	0.00047		TRUE	TRUE			FALSE	FALSE	FALSE	0.0226	0.03278	0.00233	0.00338
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Magnesium	0.41245	0.04256		TRUE	TRUE			FALSE	FALSE	FALSE	0.04086	0.05596	0.00422	0.00577
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Manganese	0.03243	0.00335		TRUE	TRUE			FALSE	FALSE	FALSE	0.00705	0.01487	0.00073	0.00153
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Nickel	0.01966	0.00203		TRUE	TRUE			FALSE	FALSE	FALSE	0.00441	0.00936	0.00045	0.00097
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	62	6.39835		FALSE	FALSE			FALSE	FALSE	FALSE	4	5.5	0.4128	0.5676
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Phosphorus	0.07345	0.00758		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Potassium	1.19814	0.12365		TRUE	TRUE			FALSE	FALSE	FALSE	0.08542	0.02245	0.00882	0.00232
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Rubidium	0.00396	0.00041		TRUE	TRUE			FALSE	FALSE	FALSE	0.00871	0.01816	0.0009	0.00187
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Silicon	4.54938	0.46949		TRUE	TRUE			FALSE	FALSE	FALSE	0.37822	0.06	0.03903	0.00619
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02294
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Sodium	1.01813	0.10507		TRUE	TRUE			FALSE	FALSE	FALSE	0.12867	0.22815	0.01328	0.02354
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Strontium	0.00192	0.0002		TRUE	TRUE			FALSE	FALSE	FALSE	0.00994	0.02155	0.00103	0.00222
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Sulfur	1.09384	0.11288		TRUE	TRUE			FALSE	FALSE	FALSE	0.07876	0.02672	0.00813	0.00276
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Tin	0.2712	0.02799		TRUE	TRUE			FALSE	FALSE	FALSE	0.41854	0.50148	0.04319	0.05175
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Titanium	0.09266	0.00956		TRUE	TRUE			FALSE	FALSE	FALSE	0.01405	0.02926	0.00145	0.00302
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00992	0.02396	0.00102	0.00247
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Zinc	0.01266	0.00131		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-02-18 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-18 00:00:00	A109408 7R	Routine	LAB	9.69	I15835O	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg ambient temp		16.5		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg filter temp		16.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		End date			2025-02-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Max BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Max ambient temp		27.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Max filter temp		28.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Min BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Min ambient temp		3.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Min filter temp		3.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Sample volume		9.692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Start date			2025-02-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	FIELD	9.692	I15839S	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	LAB	9.692	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.52939	0.1578		TRUE	TRUE			FALSE	FALSE	FALSE	0.12706	0.005	0.01311	0.00052
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	LAB	9.692	I15839S	Nylon Filter	Nitrate - PM2.5	Nitrate	9.35118	0.96483		TRUE	TRUE			FALSE	FALSE	FALSE	0.67914	0.008	0.07007	0.00083
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	LAB	9.692	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.12025	0.11558		TRUE	TRUE			FALSE	FALSE	FALSE	0.09849	0.005	0.01016	0.00052
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	LAB	9.692	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.60576	0.0625		TRUE	TRUE			FALSE	FALSE	FALSE	0.06304	0.005	0.0065	0.00052
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 65	Routine	LAB	9.692	I15839S	Nylon Filter	Sulfate - PM2.5	Sulfate	3.15629	0.32566		TRUE	TRUE			FALSE	FALSE	FALSE	0.24151	0.011	0.02492	0.00113
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 76	Routine	FIELD	9.691	I15840L	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 76	Routine	FIELD	9.691	I15840L	Quartz Filter		Avg BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 76	Routine	FIELD	9.691	I15840L	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 76	Routine	FIELD	9.691	I15840L	Quartz Filter		Avg ambient temp		16.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 76	Routine	FIELD	9.691	I15840L	Quartz Filter		Avg filter temp		16.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 76	Routine	FIELD	9.691	I15840L	Quartz Filter		End date			2025-02-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 76	Routine	FIELD	9.691	I15840L	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 76	Routine	FIELD	9.691	I15840L	Quartz Filter		Max BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	FIELD	9.691	I15840L	Quartz Filter		Max ambient temp		27.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	FIELD	9.691	I15840L	Quartz Filter		Max filter temp		28.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	FIELD	9.691	I15840L	Quartz Filter		Min BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	FIELD	9.691	I15840L	Quartz Filter		Min ambient temp		3.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	FIELD	9.691	I15840L	Quartz Filter		Min filter temp		3.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	FIELD	9.691	I15840L	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	FIELD	9.691	I15840L	Quartz Filter		Sample volume		9.691		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	FIELD	9.691	I15840L	Quartz Filter		Start date			2025-02-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	FIELD	9.691	I15840L	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	9.89282	1.02083		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.57925	0.16296		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.0622	0.00642		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	5.99391	0.6185		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	5.2015	0.53673		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.57655	0.05949		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.65178	0.5832		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	13.9858	1.44317		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	5.30827	0.54775		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	31.0628	3.20532		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	31.8552	3.28709		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	5.54037	0.5717		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	6.33278	0.65347		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004176	Routine	LAB	9.691	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	37.0567	3.82382		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Avg BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Avg ambient temp		16.5		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Avg filter temp		16.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		End date			2025-02-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Max BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Max ambient temp		27.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Max filter temp		28.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Min BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Min ambient temp		3.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Min filter temp		3.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Sample volume		9.693		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Start date			2025-02-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	FIELD	9.693	I15838R	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Aluminum	3.15835	0.32584		TRUE	TRUE			FALSE	FALSE	FALSE	0.27293	0.11605	0.02816	0.01197
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01462	0.04523
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Arsenic	0.00509	0.00052		TRUE	TRUE			FALSE	FALSE	FALSE	0.00634	0.01686	0.00065	0.00174
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Barium	0.20193	0.02083		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Bromine	0.01921	0.00198		TRUE	TRUE			FALSE	FALSE	FALSE	0.00791	0.01548	0.00082	0.0016
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Cadmium	0.0113	0.00117		TRUE	TRUE			FALSE	FALSE	FALSE	0.1808	0.24575	0.01865	0.02535
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Calcium	3.88268	0.40057		TRUE	TRUE			FALSE	FALSE	FALSE	0.27497	0.02533	0.02837	0.00261
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01428
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Chlorine	0.50262	0.05185		TRUE	TRUE			FALSE	FALSE	FALSE	0.03707	0.02191	0.00382	0.00226
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A11004154	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Cobalt	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00471	0.00991	0.00049	0.00102

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Copper	0.01706	0.00176		TRUE	TRUE			FALSE	FALSE	FALSE	0.00523	0.0114	0.00054	0.00118
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.02412
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Iron	2.0453	0.21101		TRUE	TRUE			FALSE	FALSE	FALSE	0.14516	0.0134	0.01498	0.00138
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Magnesium	0.83959	0.08662		TRUE	TRUE			FALSE	FALSE	FALSE	0.07502	0.05596	0.00774	0.00577
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Manganese	0.0826	0.00852		TRUE	TRUE			FALSE	FALSE	FALSE	0.00837	0.01487	0.00086	0.00153
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Nickel	0.0026	0.00027		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	115	11.8642		FALSE	FALSE			FALSE	FALSE	FALSE	6.02516	5.5	0.6216	0.56742
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Phosphorus	0.40793	0.04209		TRUE	TRUE			FALSE	FALSE	FALSE	0.03532	0.04401	0.00364	0.00454
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Potassium	2.58883	0.26708		TRUE	TRUE			FALSE	FALSE	FALSE	0.18366	0.02245	0.01895	0.00232
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Rubidium	0.01661	0.00171		TRUE	TRUE			FALSE	FALSE	FALSE	0.00788	0.01816	0.00081	0.00187
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Silicon	8.57783	0.88495		TRUE	TRUE			FALSE	FALSE	FALSE	0.71107	0.06	0.07336	0.00619
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02294
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Sodium	1.10627	0.11413		TRUE	TRUE			FALSE	FALSE	FALSE	0.12867	0.22815	0.01327	0.02354
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Strontium	0.01526	0.00157		TRUE	TRUE			FALSE	FALSE	FALSE	0.00933	0.02155	0.00096	0.00222
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Sulfur	1.05655	0.109		TRUE	TRUE			FALSE	FALSE	FALSE	0.0764	0.02672	0.00788	0.00276
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Tin	0.1017	0.01049		TRUE	TRUE			FALSE	FALSE	FALSE	0.37297	0.50148	0.03848	0.05174
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Titanium	0.15504	0.01599		TRUE	TRUE			FALSE	FALSE	FALSE	0.01542	0.02926	0.00159	0.00302
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Zinc	0.03175	0.00328		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-02-24 00:00:00	2025-04-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-02-24 00:00:00	A110041 54	Routine	LAB	9.693	I15838R	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Avg ambient temp		14.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Avg filter temp		14.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		End date			2025-03-02 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Max ambient temp		25.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Max filter temp		25		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Min ambient temp		3.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Min filter temp		3.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Sample volume		9.691		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Start date			2025-03-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	FIELD	9.691	I15845Q	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	LAB	9.691	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.22054	0.02276		TRUE	TRUE			FALSE	FALSE	FALSE	0.03768	0.005	0.00389	0.00052
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	LAB	9.691	I15845Q	Nylon Filter	Nitrate - PM2.5	Nitrate	3.83048	0.39526		TRUE	TRUE			FALSE	FALSE	FALSE	0.28907	0.008	0.02983	0.00083
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	LAB	9.691	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.11217	0.11476		TRUE	TRUE			FALSE	FALSE	FALSE	0.09793	0.005	0.01011	0.00052
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	LAB	9.691	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.18474	0.12225		TRUE	TRUE			FALSE	FALSE	FALSE	0.10298	0.005	0.01063	0.00052
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966388	Routine	LAB	9.691	I15845Q	Nylon Filter	Sulfate - PM2.5	Sulfate	2.98943	0.30848		TRUE	TRUE			FALSE	FALSE	FALSE	0.22974	0.011	0.02371	0.00114
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10965829	Routine	FIELD	9.691	I15846R	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10965829	Routine	FIELD	9.691	I15846R	Quartz Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10965829	Routine	FIELD	9.691	I15846R	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10965829	Routine	FIELD	9.691	I15846R	Quartz Filter		Avg ambient temp		14.8		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		Avg filter temp		14.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		End date			2025-03-02 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		Max ambient temp		25.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		Max filter temp		25.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		Min ambient temp		3.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		Min filter temp		3.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		Sample volume		9.691		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		Start date			2025-03-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	FIELD	9.691	I15846R	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	6.49554	0.67027		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.1695	0.12068		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.10275	0.0106		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0	0		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	1.82928	0.18876		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.36369	0.03753		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	3.6856	0.38031		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	19.4533	2.00735		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.23948	0.43747		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	35.5098	3.66421		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	33.6806	3.47545		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	7.76779	0.80155		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	5.93851	0.61279		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109658 29	Routine	LAB	9.691	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	35.5098	3.66421		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Avg ambient temp		14.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Avg filter temp		14.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		End date			2025-03-02 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Max ambient temp		25.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Max filter temp		24.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Min ambient temp		3.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Min filter temp		3.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Sample volume		9.696		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Start date			2025-03-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	FIELD	9.696	I15844P	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Aluminum	4.22733	0.43599		TRUE	TRUE			FALSE	FALSE	FALSE	0.36187	0.11605	0.03732	0.01197
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01461	0.04522
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Barium	0.32047	0.03305		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Bromine	0.01006	0.00104		TRUE	TRUE			FALSE	FALSE	FALSE	0.00749	0.01548	0.00077	0.0016
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02535
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Calcium	4.56633	0.47095		TRUE	TRUE			FALSE	FALSE	FALSE	0.32331	0.02533	0.03334	0.00261
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Chlorine	1.41137	0.14556		TRUE	TRUE			FALSE	FALSE	FALSE	0.10088	0.02191	0.0104	0.00226

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Chromium	0.00079	8.2E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Cobalt	0.00463	0.00048		TRUE	TRUE			FALSE	FALSE	FALSE	0.00555	0.00991	0.00057	0.00102
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Copper	0.00893	0.00092		TRUE	TRUE			FALSE	FALSE	FALSE	0.00524	0.0114	0.00054	0.00118
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02411
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Iron	2.73234	0.2818		TRUE	TRUE			FALSE	FALSE	FALSE	0.19376	0.0134	0.01998	0.00138
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Lead	0.00226	0.00023		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Magnesium	1.04977	0.10827		TRUE	TRUE			FALSE	FALSE	FALSE	0.09256	0.05596	0.00955	0.00577
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Manganese	0.0869	0.00896		TRUE	TRUE			FALSE	FALSE	FALSE	0.00882	0.01487	0.00091	0.00153
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Nickel	0.00588	0.00061		TRUE	TRUE			FALSE	FALSE	FALSE	0.00386	0.00936	0.0004	0.00096
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	120	12.3762		FALSE	FALSE			FALSE	FALSE	FALSE	6.26418	5.5	0.64606	0.56724
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Phosphorus	0.37064	0.03823		TRUE	TRUE			FALSE	FALSE	FALSE	0.0339	0.04401	0.0035	0.00454
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Potassium	2.97642	0.30697		TRUE	TRUE			FALSE	FALSE	FALSE	0.21108	0.02245	0.02177	0.00232
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Rubidium	0.01232	0.00127		TRUE	TRUE			FALSE	FALSE	FALSE	0.00818	0.01816	0.00084	0.00187
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.0017
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Silicon	11.361	1.17172		TRUE	TRUE			FALSE	FALSE	FALSE	0.94102	0.06	0.09705	0.00619
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Sodium	1.78314	0.1839		TRUE	TRUE			FALSE	FALSE	FALSE	0.1832	0.22815	0.01889	0.02353
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Strontium	0.0356	0.00367		TRUE	TRUE			FALSE	FALSE	FALSE	0.01004	0.02155	0.00104	0.00222
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Sulfur	1.01361	0.10454		TRUE	TRUE			FALSE	FALSE	FALSE	0.07343	0.02672	0.00757	0.00276
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01143	0.05172
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Titanium	0.24408	0.02517		TRUE	TRUE			FALSE	FALSE	FALSE	0.02063	0.02926	0.00213	0.00302
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A10966457	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Zinc	0.02757	0.00284		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-03-01 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-01 00:00:00	A109664 57	Routine	LAB	9.696	I15844P	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Average flow		6.72		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Avg BP		727		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Avg ambient temp		9.3		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Avg filter temp		9.3		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		End date			2025-03-08 00:00:00	TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		End time			00:00:00	TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Max BP		731		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Max ambient temp		13.5		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Max filter temp		13.5		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Min BP		724		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Min ambient temp		5.5		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Min filter temp		5.5		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Run Time		24		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Sample volume		9.68		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Start date			2025-03-07 00:00:00	TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	FIELD	9.68	I15851O	Nylon Filter		Start time			00:00:00	TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	LAB	9.68	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.12484	0.0129		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE	0.03186	0.005	0.00329	0.00052
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	LAB	9.68	I15851O	Nylon Filter	Nitrate - PM2.5	Nitrate	3.17764	0.32827		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE	0.24301	0.008	0.0251	0.00083
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	LAB	9.68	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.21834	0.02256		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE	0.03754	0.005	0.00388	0.00052
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	LAB	9.68	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.80454	0.08311		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE	0.07663	0.005	0.00792	0.00052
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 45	Routine	LAB	9.68	I15851O	Nylon Filter	Sulfate - PM2.5	Sulfate	2.88164	0.29769		TRUE	TRUE	FC6, FSB		FALSE	FALSE	FALSE	0.22215	0.011	0.02295	0.00114
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Average flow		6.72		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Avg BP		727		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Avg ambient temp		9.3		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Avg filter temp		9.3		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		End date			2025-03-08 00:00:00	TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		End time			00:00:00	TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Max BP		731		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Max ambient temp		13.5		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Max filter temp		13.5		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Min BP		724		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Min ambient temp		5.5		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Min filter temp		5.5		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Run Time		24		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Sample volume		9.686		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Start date			2025-03-07 00:00:00	TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	FIELD	9.686	I15852P	Quartz Filter		Start time			00:00:00	TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	1.27894	0.13204		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	0.3571	0.03687		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.05725	0.00591		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	-0.00091	-9.4E-05		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A10929756	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	-0.00091	-9.4E-05		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A10929756	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.30349	0.03133		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A10929756	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	2.54562	0.26281		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A10929756	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	10.4737	1.08132		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A10929756	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	2.26984	0.23434		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A10929756	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	17.2869	1.78473		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A10929756	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	17.2869	1.78473		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A10929756	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	1.6942	0.17491		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A10929756	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	1.6942	0.17491		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 56	Routine	LAB	9.686	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	17.2859	1.78463		TRUE	TRUE	FC7, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Average flow		6.72		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Avg BP		727		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Avg ambient temp		9.3		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Avg filter temp		9.4		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		End date			2025-03-08 00:00:00	TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		End time			00:00:00	TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Max BP		731		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Max ambient temp		13.5		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Max filter temp		13.5		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Min BP		724		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Min ambient temp		5.5		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Min filter temp		5.6		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Run Time		24		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Sample volume		9.681		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Start date			2025-03-07 00:00:00	TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	FIELD	9.681	I15850N	Teflon Filter		Start time			00:00:00	TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE				
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Aluminum	0.06102	0.0063		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.04067	0.11605	0.0042	0.01199
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.14171	0.43844	0.01464	0.04529
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Barium	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Bromine	0.01119	0.00116		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.00683	0.01548	0.00071	0.0016
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.06	0.24575	0.0062	0.02538

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Calcium	0.2234	0.02308		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.01772	0.02533	0.00183	0.00262
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.00321
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.11033	0.13838	0.0114	0.01429
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Chlorine	0.25696	0.02654		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.02005	0.02191	0.00207	0.00226
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Cobalt	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.00367	0.00991	0.00038	0.00102
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Copper	0.00237	0.00025		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.00486	0.0114	0.0005	0.00118
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02415
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Iron	0.15458	0.01597		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.01246	0.0134	0.00129	0.00138
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Lead	0.00678	0.0007		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00339
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Magnesium	0.18871	0.01949		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.03667	0.05596	0.00379	0.00578
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Manganese	0.00373	0.00039		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.00567	0.01487	0.00059	0.00154
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Nickel	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	25	2.58238		FALSE	FALSE	FC5, FSB		FALSE	FALSE	FALSE	4	5.5	0.41318	0.56812
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00455
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Potassium	0.18702	0.01932		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.01513	0.02245	0.00156	0.00232
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Rubidium	0.00429	0.00044		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.00735	0.01816	0.00076	0.00188
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Silicon	0.60116	0.0621		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.05413	0.06	0.00559	0.0062
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02296
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Sodium	1.00005	0.1033		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.12867	0.22815	0.01329	0.02357
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Strontium	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.00733	0.02155	0.00076	0.00223

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Sulfur	0.54014	0.05579		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.03984	0.02672	0.00412	0.00276
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.11085	0.50148	0.01145	0.0518
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Titanium	0.01028	0.00106		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.014	0.02926	0.00145	0.00302
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Vanadium	0.00362	0.00037		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00248
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Zinc	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-03-07 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-07 00:00:00	A109297 34	Routine	LAB	9.681	I15850N	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE	FC5, FSB		FALSE	FALSE	FALSE	0.01467	0.02668	0.00152	0.00276
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Avg ambient temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Avg filter temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		End date			2025-03-14 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Max ambient temp		19.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Max filter temp		19.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Min BP		721		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Min ambient temp		8.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Min filter temp		8.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Sample volume		9.687		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Start date			2025-03-13 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	FIELD	9.687	I151251	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	LAB	9.687	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.13645	0.01409		TRUE	TRUE			FALSE	FALSE	FALSE	0.03255	0.005	0.00336	0.00052
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	LAB	9.687	I151251	Nylon Filter	Nitrate - PM2.5	Nitrate	2.94294	0.3038		TRUE	TRUE			FALSE	FALSE	FALSE	0.22647	0.008	0.02338	0.00083

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	LAB	9.687	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.27745	0.02864		TRUE	TRUE			FALSE	FALSE	FALSE	0.04127	0.005	0.00426	0.00052
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	LAB	9.687	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.21312	0.12523		TRUE	TRUE			FALSE	FALSE	FALSE	0.10496	0.005	0.01083	0.00052
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 93	Routine	LAB	9.687	I151251	Nylon Filter	Sulfate - PM2.5	Sulfate	1.78601	0.18437		TRUE	TRUE			FALSE	FALSE	FALSE	0.14505	0.011	0.01497	0.00114
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Avg ambient temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Avg filter temp		13		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		End date			2025-03-14 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Max ambient temp		19.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Max filter temp		19.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Min BP		721		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Min ambient temp		8.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Min filter temp		8.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Sample volume		9.685		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Start date			2025-03-13 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	FIELD	9.685	I153144	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	2.49744	0.25787		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	0.86514	0.08933		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A10990382	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.08988	0.00928		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A10990382	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.00045	4.6E-05		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A10990382	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	1.39411	0.14395		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A10990382	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.32313	0.03336		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A10990382	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	3.10012	0.32009		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A10990382	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	15.8794	1.63959		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A10990382	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	2.94596	0.30418		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A10990382	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	25.7007	2.65366		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A10990382	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	24.307	2.50976		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	3.45202	0.35643		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.05836	0.21253		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109903 82	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	25.7011	2.6537		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Avg Flow CV		1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Avg ambient temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Avg filter temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		End date			2025-03-14 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Max ambient temp		19.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Max filter temp		19.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Min BP		721		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Min ambient temp		8.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Min filter temp		8.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Sample volume		9.683		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Start date			2025-03-13 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	FIELD	9.683	I151240	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Aluminum	1.6724	0.17272		TRUE	TRUE			FALSE	FALSE	FALSE	0.15055	0.11605	0.01555	0.01198
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01576	0.04528

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Arsenic	0.00904	0.00093		TRUE	TRUE			FALSE	FALSE	FALSE	0.00625	0.01686	0.00065	0.00174
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Barium	0.10046	0.01037		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Bromine	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00567	0.01548	0.00059	0.0016
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Cadmium	0.0678	0.007		TRUE	TRUE			FALSE	FALSE	FALSE	0.18086	0.24575	0.01868	0.02538
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Calcium	1.22097	0.12609		TRUE	TRUE			FALSE	FALSE	FALSE	0.08699	0.02533	0.00898	0.00262
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01429
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Chlorine	0.61303	0.06331		TRUE	TRUE			FALSE	FALSE	FALSE	0.04469	0.02191	0.00462	0.00226
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Cobalt	0.00045	4.7E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.00475	0.00991	0.00049	0.00102
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Copper	0.01819	0.00188		TRUE	TRUE			FALSE	FALSE	FALSE	0.00535	0.0114	0.00055	0.00118
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.0087	0.02415
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Iron	1.17328	0.12117		TRUE	TRUE			FALSE	FALSE	FALSE	0.08363	0.0134	0.00864	0.00138
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Magnesium	0.51415	0.0531		TRUE	TRUE			FALSE	FALSE	FALSE	0.04837	0.05596	0.005	0.00578
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Manganese	0.04023	0.00415		TRUE	TRUE			FALSE	FALSE	FALSE	0.00663	0.01487	0.00068	0.00154
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Nickel	0.02723	0.00281		TRUE	TRUE			FALSE	FALSE	FALSE	0.0044	0.00936	0.00045	0.00097
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	66	6.81607		FALSE	FALSE			FALSE	FALSE	FALSE	4	5.5	0.4131	0.56801
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Potassium	0.82987	0.0857		TRUE	TRUE			FALSE	FALSE	FALSE	0.0595	0.02245	0.00615	0.00232
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Rubidium	0.00373	0.00039		TRUE	TRUE			FALSE	FALSE	FALSE	0.00814	0.01816	0.00084	0.00188
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A1099040W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Silicon	3.95726	0.40868		TRUE	TRUE			FALSE	FALSE	FALSE	0.32934	0.06	0.03401	0.0062
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02296
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Sodium	1.55036	0.16011		TRUE	TRUE			FALSE	FALSE	FALSE	0.15907	0.22815	0.01643	0.02356
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Strontium	0.00757	0.00078		TRUE	TRUE			FALSE	FALSE	FALSE	0.00928	0.02155	0.00096	0.00223
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Sulfur	0.49268	0.05088		TRUE	TRUE			FALSE	FALSE	FALSE	0.037	0.02672	0.00382	0.00276
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01145	0.05179
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Titanium	0.09775	0.01009		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00145	0.00302
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Vanadium	0.01955	0.00202		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Zinc	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-03-13 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-13 00:00:00	A109904 0W	Routine	LAB	9.683	I151240	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00152	0.00276
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Avg BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Avg ambient temp		13.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Avg filter temp		13.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		End date			2025-03-20 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Max BP		739		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Max ambient temp		19.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Max filter temp		19.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Min BP		735		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Min ambient temp		6.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Min filter temp		6.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Sample volume		9.686		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Start date			2025-03-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	FIELD	9.686	I151488	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	LAB	9.686	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.20097	0.02075		TRUE	TRUE			FALSE	FALSE	FALSE	0.03646	0.005	0.00376	0.00052
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	LAB	9.686	I151488	Nylon Filter	Nitrate - PM2.5	Nitrate	1.90629	0.19681		TRUE	TRUE			FALSE	FALSE	FALSE	0.15349	0.008	0.01585	0.00083
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	LAB	9.686	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.28328	0.02925		TRUE	TRUE			FALSE	FALSE	FALSE	0.04165	0.005	0.0043	0.00052
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	LAB	9.686	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.35637	0.03679		TRUE	TRUE			FALSE	FALSE	FALSE	0.04638	0.005	0.00479	0.00052
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 1Z	Routine	LAB	9.686	I151488	Nylon Filter	Sulfate - PM2.5	Sulfate	1.84919	0.19091		TRUE	TRUE			FALSE	FALSE	FALSE	0.14948	0.011	0.01543	0.00114
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Avg BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Avg ambient temp		13.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Avg filter temp		13.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		End date			2025-03-20 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Max BP		739		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Max ambient temp		19.34		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Max filter temp		19.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Min BP		735		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Min ambient temp		6.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Min filter temp		6.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Sample volume		9.699		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Start date			2025-03-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	FIELD	9.699	I150309	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 0Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	1.96037	0.20212		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	0.83688	0.08629		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.0376	0.00388		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.71536	0.07376		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	1.3569	0.1399		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.47874	0.04936		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	2.85182	0.29403		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	8.17899	0.84328		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	2.35611	0.24292		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	15.9852	1.64812		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	15.3436	1.58198		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	2.11949	0.21853		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	1.47796	0.15238		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050Y	Routine	LAB	9.699	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	16.7005	1.72188		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Avg BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Avg ambient temp		13.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Avg filter temp		13.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		End date			2025-03-20 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Max BP		739		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Max ambient temp		19.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Max filter temp		19.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Min BP		735		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Min ambient temp		6.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Min filter temp		6.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Sample volume		9.688		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A1099050	Routine	FIELD	9.688	I151499	Teflon Filter		Start date			2025-03-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	FIELD	9.688	I151499	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Aluminum	0.56274	0.05809		TRUE	TRUE			FALSE	FALSE	FALSE	0.06451	0.11605	0.00666	0.01198
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Antimony	0.1469	0.01516		TRUE	TRUE			FALSE	FALSE	FALSE	0.57639	0.43844	0.0595	0.04526
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Arsenic	0.01119	0.00115		TRUE	TRUE			FALSE	FALSE	FALSE	0.00683	0.01686	0.0007	0.00174
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Barium	0.00655	0.00068		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Bromine	0.01458	0.0015		TRUE	TRUE			FALSE	FALSE	FALSE	0.00809	0.01548	0.00083	0.0016
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02537
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Calcium	0.5285	0.05455		TRUE	TRUE			FALSE	FALSE	FALSE	0.03845	0.02533	0.00397	0.00261
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Chlorine	0.09085	0.00938		TRUE	TRUE			FALSE	FALSE	FALSE	0.016	0.02191	0.00165	0.00226
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Cobalt	0.01074	0.00111		TRUE	TRUE			FALSE	FALSE	FALSE	0.00425	0.00991	0.00044	0.00102
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Copper	0.01808	0.00187		TRUE	TRUE			FALSE	FALSE	FALSE	0.00524	0.0114	0.00054	0.00118
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.0087	0.02413
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Iron	0.44579	0.04601		TRUE	TRUE			FALSE	FALSE	FALSE	0.03244	0.0134	0.00335	0.00138
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Magnesium	0.20679	0.02134		TRUE	TRUE			FALSE	FALSE	FALSE	0.03667	0.05596	0.00379	0.00578
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Manganese	0.01559	0.00161		TRUE	TRUE			FALSE	FALSE	FALSE	0.00576	0.01487	0.00059	0.00153
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Nickel	0.00418	0.00043		TRUE	TRUE			FALSE	FALSE	FALSE	0.00374	0.00936	0.00039	0.00097
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	31	3.19983		FALSE	FALSE			FALSE	FALSE	FALSE	4	5.5	0.41288	0.56771
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Potassium	0.33166	0.03423		TRUE	TRUE			FALSE	FALSE	FALSE	0.02486	0.02245	0.00257	0.00232
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Rubidium	0.00418	0.00043		TRUE	TRUE			FALSE	FALSE	FALSE	0.00825	0.01816	0.00085	0.00187
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Selenium	0.00057	5.8E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.00814	0.01653	0.00084	0.00171
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Silicon	1.60573	0.16574		TRUE	TRUE			FALSE	FALSE	FALSE	0.13569	0.06	0.01401	0.00619
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02295
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Sodium	0.43844	0.04526		TRUE	TRUE			FALSE	FALSE	FALSE	0.12867	0.22815	0.01328	0.02355
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Strontium	0.01955	0.00202		TRUE	TRUE			FALSE	FALSE	FALSE	0.0097	0.02155	0.001	0.00222
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Sulfur	0.48703	0.05027		TRUE	TRUE			FALSE	FALSE	FALSE	0.03626	0.02672	0.00374	0.00276
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.12331	0.50148	0.01273	0.05176
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Titanium	0.03447	0.00356		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00145	0.00302
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Zinc	0.01593	0.00164		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-03-19 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-19 00:00:00	A109905 20	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Average flow		0.05		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Avg ambient temp		24.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Avg filter temp		24.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		End date			2025-03-26 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Max ambient temp		35.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Max filter temp		34.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Min ambient temp		11.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Min filter temp		11.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Sample volume		9.694		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Start date			2025-03-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	FIELD	9.694	I15836P	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	LAB	9.694	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.06416	0.10978		TRUE	TRUE			FALSE	FALSE	FALSE	0.09459	0.005	0.00976	0.00052
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	LAB	9.694	I15836P	Nylon Filter	Nitrate - PM2.5	Nitrate	11.0347	1.1383		TRUE	TRUE			FALSE	FALSE	FALSE	0.79814	0.008	0.08233	0.00083
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	LAB	9.694	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.686	0.07077		TRUE	TRUE			FALSE	FALSE	FALSE	0.06851	0.005	0.00707	0.00052
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	LAB	9.694	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.63111	0.0651		TRUE	TRUE			FALSE	FALSE	FALSE	0.06476	0.005	0.00668	0.00052
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 9B	Routine	LAB	9.694	I15836P	Nylon Filter	Sulfate - PM2.5	Sulfate	3.56868	0.36813		TRUE	TRUE			FALSE	FALSE	FALSE	0.2706	0.011	0.02791	0.00113
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Average flow		0.05		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Avg ambient temp		24.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Avg filter temp		24.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		End date			2025-03-26 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Max ambient temp		35.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Max filter temp		34.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Min ambient temp		11.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Min filter temp		11.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Sample volume		9.688		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Start date			2025-03-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	FIELD	9.688	I15837Q	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	5.59444	0.57746		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.83376	0.18928		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.0445	0.00459		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.77891	0.28684		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.46278	0.25421		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.49599	0.0512		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.8157	0.49708		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	11.2593	1.16219		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.46727	0.35789		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	24.7321	2.55286		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	25.0482	2.58549		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	4.69379	0.4845		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	5.00992	0.51713		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109907 8A	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	27.511	2.8397		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Average flow		0.06		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Avg ambient temp		24.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Avg filter temp		24.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		End date			2025-03-26 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Max ambient temp		35.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Max filter temp		34.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Min ambient temp		11.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Min filter temp		11.7		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Sample volume		9.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Start date			2025-03-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	FIELD	9.7	I15835o	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Aluminum	2.27695	0.23474		TRUE	TRUE			FALSE	FALSE	FALSE	0.20013	0.11605	0.02063	0.01196
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.16275	0.43844	0.01678	0.0452
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Arsenic	0.00113	0.00012		TRUE	TRUE			FALSE	FALSE	FALSE	0.0113	0.01686	0.00116	0.00174
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Barium	0.16905	0.01743		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Bromine	0.03503	0.00361		TRUE	TRUE			FALSE	FALSE	FALSE	0.00905	0.01548	0.00093	0.0016
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02533
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Calcium	2.70635	0.27901		TRUE	TRUE			FALSE	FALSE	FALSE	0.19187	0.02533	0.01978	0.00261
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01137	0.01427
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Chlorine	0.28295	0.02917		TRUE	TRUE			FALSE	FALSE	FALSE	0.0221	0.02191	0.00228	0.00226
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Cobalt	0.01932	0.00199		TRUE	TRUE			FALSE	FALSE	FALSE	0.00559	0.00991	0.00058	0.00102
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Copper	0.05006	0.00516		TRUE	TRUE			FALSE	FALSE	FALSE	0.00667	0.0114	0.00069	0.00118
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.0241
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Iron	1.56844	0.16169		TRUE	TRUE			FALSE	FALSE	FALSE	0.1116	0.0134	0.01151	0.00138
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Lead	0.01243	0.00128		TRUE	TRUE			FALSE	FALSE	FALSE	0.02262	0.03278	0.00233	0.00338
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Magnesium	0.63054	0.065		TRUE	TRUE			FALSE	FALSE	FALSE	0.05821	0.05596	0.006	0.00577
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Manganese	0.05752	0.00593		TRUE	TRUE			FALSE	FALSE	FALSE	0.00781	0.01487	0.00081	0.00153
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Nickel	0.01718	0.00177		TRUE	TRUE			FALSE	FALSE	FALSE	0.00425	0.00936	0.00044	0.00096

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	110	11.3402		FALSE	FALSE			FALSE	FALSE	FALSE	5.78705	5.5	0.5966	0.56701
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Phosphorus	0.14351	0.01479		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Potassium	1.69048	0.17428		TRUE	TRUE			FALSE	FALSE	FALSE	0.12019	0.02245	0.01239	0.00231
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Rubidium	0.00192	0.0002		TRUE	TRUE			FALSE	FALSE	FALSE	0.0087	0.01816	0.0009	0.00187
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Selenium	0.00113	0.00012		TRUE	TRUE			FALSE	FALSE	FALSE	0.0087	0.01653	0.0009	0.0017
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Silicon	6.60824	0.68126		TRUE	TRUE			FALSE	FALSE	FALSE	0.54826	0.06	0.05652	0.00619
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02292
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Sodium	1.29385	0.13339		TRUE	TRUE			FALSE	FALSE	FALSE	0.13714	0.22815	0.01414	0.02352
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Strontium	0.02814	0.0029		TRUE	TRUE			FALSE	FALSE	FALSE	0.01047	0.02155	0.00108	0.00222
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Sulfur	1.15712	0.11929		TRUE	TRUE			FALSE	FALSE	FALSE	0.08337	0.02672	0.00859	0.00275
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.12331	0.50148	0.01271	0.0517
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Titanium	0.12769	0.01316		TRUE	TRUE			FALSE	FALSE	FALSE	0.01536	0.02926	0.00158	0.00302
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00992	0.02396	0.00102	0.00247
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Zinc	0.03356	0.00346		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-03-25 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-25 00:00:00	A109908 04	Routine	LAB	9.7	I15835o	Teflon Filter	Trace elements (33)	Zirconium	0.01695	0.00175		TRUE	TRUE			FALSE	FALSE	FALSE	0.01812	0.02668	0.00187	0.00275
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Average flow		6.74		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Avg Flow CV		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Avg ambient temp		19.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Avg filter temp		19.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		End date			2025-04-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Max BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Max ambient temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Max filter temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Min ambient temp		10.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Min filter temp		10.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Sample volume		9.705		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Start date			2025-03-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	FIELD	9.705	I15839S	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	LAB	9.705	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.237	0.12746		TRUE	TRUE			FALSE	FALSE	FALSE	0.10662	0.005	0.01099	0.00052
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	LAB	9.705	I15839S	Nylon Filter	Nitrate - PM2.5	Nitrate	5.68201	0.58547		TRUE	TRUE			FALSE	FALSE	FALSE	0.41983	0.008	0.04326	0.00082
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	LAB	9.705	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.69863	0.07199		TRUE	TRUE			FALSE	FALSE	FALSE	0.06937	0.005	0.00715	0.00052
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	LAB	9.705	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.33262	0.13731		TRUE	TRUE			FALSE	FALSE	FALSE	0.1133	0.005	0.01167	0.00052
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 6C	Routine	LAB	9.705	I15839S	Nylon Filter	Sulfate - PM2.5	Sulfate	4.7483	0.48926		TRUE	TRUE			FALSE	FALSE	FALSE	0.35388	0.011	0.03646	0.00113
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Avg ambient temp		19.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Avg filter temp		19.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		End date			2025-04-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Max BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Max ambient temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Max filter temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Min ambient temp		10.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Min filter temp		10.7		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Sample volume		9.701		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Start date			2025-03-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	FIELD	9.701	I15840L	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.96924	0.40916		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.47369	0.15191		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.05659	0.00583		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.99904	0.10298		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	1.79681	0.18522		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.40984	0.04225		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.33663	0.44703		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	13.1235	1.3528		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.44986	0.35562		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	25.8204	2.66162		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	25.0226	2.57938		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	4.50048	0.46392		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.7027	0.38168		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 5B	Routine	LAB	9.701	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	26.8194	2.7646		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Avg ambient temp		19.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Avg filter temp		19.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		End date			2025-04-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Max BP		732		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Max ambient temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Max filter temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Min ambient temp		10.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Min filter temp		10.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Sample volume		9.697		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Start date			2025-03-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	FIELD	9.697	I15838R	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Aluminum	2.20689	0.22758		TRUE	TRUE			FALSE	FALSE	FALSE	0.1942	0.11605	0.02003	0.01197
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Antimony	0.2034	0.02098		TRUE	TRUE			FALSE	FALSE	FALSE	0.54259	0.43844	0.05595	0.04521
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Barium	0.18329	0.0189		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Bromine	0.00531	0.00055		TRUE	TRUE			FALSE	FALSE	FALSE	0.00747	0.01548	0.00077	0.0016
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02534
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Calcium	2.34701	0.24203		TRUE	TRUE			FALSE	FALSE	FALSE	0.16644	0.02533	0.01716	0.00261
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Chlorine	0.2721	0.02806		TRUE	TRUE			FALSE	FALSE	FALSE	0.02141	0.02191	0.00221	0.00226
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Cobalt	0.01921	0.00198		TRUE	TRUE			FALSE	FALSE	FALSE	0.00505	0.00991	0.00052	0.00102
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Copper	0.00136	0.00014		TRUE	TRUE			FALSE	FALSE	FALSE	0.00509	0.0114	0.00052	0.00118
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02411
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Iron	1.43623	0.14811		TRUE	TRUE			FALSE	FALSE	FALSE	0.10218	0.0134	0.01054	0.00138
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Lead	0.00678	0.0007		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Magnesium	0.63167	0.06514		TRUE	TRUE			FALSE	FALSE	FALSE	0.05785	0.05596	0.00597	0.00577

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Manganese	0.04859	0.00501		TRUE	TRUE			FALSE	FALSE	FALSE	0.0069	0.01487	0.00071	0.00153
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Nickel	0.00102	0.0001		TRUE	TRUE			FALSE	FALSE	FALSE	0.00373	0.00936	0.00038	0.00096
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	84	8.66247		FALSE	FALSE			FALSE	FALSE	FALSE	4.56946	5.5	0.47122	0.56719
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Phosphorus	0.15368	0.01585		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Potassium	1.58652	0.16361		TRUE	TRUE			FALSE	FALSE	FALSE	0.11288	0.02245	0.01164	0.00231
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Rubidium	0.01141	0.00118		TRUE	TRUE			FALSE	FALSE	FALSE	0.00806	0.01816	0.00083	0.00187
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.0017
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Silicon	6.1924	0.63859		TRUE	TRUE			FALSE	FALSE	FALSE	0.51393	0.06	0.053	0.00619
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Sodium	1.4351	0.14799		TRUE	TRUE			FALSE	FALSE	FALSE	0.15002	0.22815	0.01547	0.02353
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Strontium	0.00723	0.00075		TRUE	TRUE			FALSE	FALSE	FALSE	0.00951	0.02155	0.00098	0.00222
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Sulfur	1.54471	0.1593		TRUE	TRUE			FALSE	FALSE	FALSE	0.11058	0.02672	0.0114	0.00276
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01143	0.05172
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Titanium	0.14001	0.01444		TRUE	TRUE			FALSE	FALSE	FALSE	0.01494	0.02926	0.00154	0.00302
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Zinc	0.01254	0.00129		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-03-31 00:00:00	2025-05-08 00:00:00	Maricopa 2024-2025	PCAQD	2025-03-31 00:00:00	A110117 8E	Routine	LAB	9.697	I15838R	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Avg BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Avg ambient temp		16.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Avg filter temp		16.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		End date			2025-04-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Max ambient temp		24.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Max filter temp		24.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Min BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Min ambient temp		8.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Min filter temp		8.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Sample volume		9.692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Start date			2025-04-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	FIELD	9.692	I15845Q	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	LAB	9.692	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.42141	0.04348		TRUE	TRUE			FALSE	FALSE	FALSE	0.05066	0.005	0.00523	0.00052
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	LAB	9.692	I15845Q	Nylon Filter	Nitrate - PM2.5	Nitrate	4.18696	0.432		TRUE	TRUE			FALSE	FALSE	FALSE	0.31424	0.008	0.03242	0.00083
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	LAB	9.692	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.4392	0.14849		TRUE	TRUE			FALSE	FALSE	FALSE	0.12075	0.005	0.01246	0.00052
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	LAB	9.692	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.76326	0.07875		TRUE	TRUE			FALSE	FALSE	FALSE	0.0738	0.005	0.00761	0.00052
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 5N	Routine	LAB	9.692	I15845Q	Nylon Filter	Sulfate - PM2.5	Sulfate	4.03632	0.41646		TRUE	TRUE			FALSE	FALSE	FALSE	0.3036	0.011	0.03133	0.00113
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Avg BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Avg ambient temp		16.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Avg filter temp		16.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		End date			2025-04-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Max ambient temp		24.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Max filter temp		24.2		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Min BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Min ambient temp		8.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Min filter temp		8.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Sample volume		9.685		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Start date			2025-04-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	FIELD	9.685	I15846R	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.13585	0.42704		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	0.94736	0.09782		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.08328	0.0086		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.06483	0.00669		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	1.71207	0.17678		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.44056	0.04549		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 4M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.11408	0.42479		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106304M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	18.8474	1.94605		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106304M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.13112	0.42655		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106304M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	32.6349	3.36963		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106304M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	30.9876	3.19955		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106304M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	5.10167	0.52676		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106304M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.45443	0.35668		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106304M	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	32.6997	3.37632		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106306O	Routine	FIELD	9.705	I15844P	Teflon Filter		Average flow		6.74		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106306O	Routine	FIELD	9.705	I15844P	Teflon Filter		Avg BP		734		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106306O	Routine	FIELD	9.705	I15844P	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106306O	Routine	FIELD	9.705	I15844P	Teflon Filter		Avg ambient temp		16.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106306O	Routine	FIELD	9.705	I15844P	Teflon Filter		Avg filter temp		16.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106306O	Routine	FIELD	9.705	I15844P	Teflon Filter		End date			2025-04-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106306O	Routine	FIELD	9.705	I15844P	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A1106306O	Routine	FIELD	9.705	I15844P	Teflon Filter		Max BP		736		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	FIELD	9.705	I15844P	Teflon Filter		Max ambient temp		24.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	FIELD	9.705	I15844P	Teflon Filter		Max filter temp		24.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	FIELD	9.705	I15844P	Teflon Filter		Min BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	FIELD	9.705	I15844P	Teflon Filter		Min ambient temp		8.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	FIELD	9.705	I15844P	Teflon Filter		Min filter temp		8.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	FIELD	9.705	I15844P	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	FIELD	9.705	I15844P	Teflon Filter		Sample volume		9.705		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	FIELD	9.705	I15844P	Teflon Filter		Start date			2025-04-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	FIELD	9.705	I15844P	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Aluminum	1.19893	0.12354		TRUE	TRUE			FALSE	FALSE	FALSE	0.11251	0.11605	0.01159	0.01196
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.13433	0.43844	0.01384	0.04518
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Arsenic	0.0061	0.00063		TRUE	TRUE			FALSE	FALSE	FALSE	0.01007	0.01686	0.00104	0.00174
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Barium	0.08226	0.00848		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Bromine	0.00203	0.00021		TRUE	TRUE			FALSE	FALSE	FALSE	0.00735	0.01548	0.00076	0.00159
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00618	0.02532
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Calcium	1.64189	0.16918		TRUE	TRUE			FALSE	FALSE	FALSE	0.11665	0.02533	0.01202	0.00261
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01137	0.01426
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Chlorine	0.25086	0.02585		TRUE	TRUE			FALSE	FALSE	FALSE	0.01996	0.02191	0.00206	0.00226
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Cobalt	0.00237	0.00024		TRUE	TRUE			FALSE	FALSE	FALSE	0.00441	0.00991	0.00045	0.00102
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Copper	0.0113	0.00116		TRUE	TRUE			FALSE	FALSE	FALSE	0.00504	0.0114	0.00052	0.00117
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02409
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Iron	0.82366	0.08487		TRUE	TRUE			FALSE	FALSE	FALSE	0.05896	0.0134	0.00607	0.00138

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Lead	0.01469	0.00151		TRUE	TRUE			FALSE	FALSE	FALSE	0.01924	0.03278	0.00198	0.00338
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Magnesium	0.40002	0.04122		TRUE	TRUE			FALSE	FALSE	FALSE	0.03938	0.05596	0.00406	0.00577
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Manganese	0.0313	0.00323		TRUE	TRUE			FALSE	FALSE	FALSE	0.00607	0.01487	0.00063	0.00153
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Nickel	0.00678	0.0007		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00096
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	60	6.18238		FALSE	FALSE			FALSE	FALSE	FALSE	4	5.5	0.41216	0.56672
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Phosphorus	0.17628	0.01816		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00453
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Potassium	1.15836	0.11936		TRUE	TRUE			FALSE	FALSE	FALSE	0.08262	0.02245	0.00851	0.00231
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Rubidium	0.00124	0.00013		TRUE	TRUE			FALSE	FALSE	FALSE	0.00735	0.01816	0.00076	0.00187
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Selenium	0.00079	8.2E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.00746	0.01653	0.00077	0.0017
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Silicon	3.33463	0.3436		TRUE	TRUE			FALSE	FALSE	FALSE	0.27813	0.06	0.02866	0.00618
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02291
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Sodium	0.84863	0.08744		TRUE	TRUE			FALSE	FALSE	FALSE	0.12867	0.22815	0.01326	0.02351
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Strontium	0.00418	0.00043		TRUE	TRUE			FALSE	FALSE	FALSE	0.00893	0.02155	0.00092	0.00222
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Sulfur	1.11079	0.11446		TRUE	TRUE			FALSE	FALSE	FALSE	0.07994	0.02672	0.00824	0.00275
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01142	0.05167
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Titanium	0.08509	0.00877		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Zinc	0.01153	0.00119		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-04-06 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-06 00:00:00	A110630 6O	Routine	LAB	9.705	I15844P	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 07	Routine	FIELD	9.698	I15851O	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 07	Routine	FIELD	9.698	I15851O	Nylon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 07	Routine	FIELD	9.698	I15851O	Nylon Filter		Avg Flow CV		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 07	Routine	FIELD	9.698	I15851O	Nylon Filter		Avg ambient temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		Avg filter temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		End date			2025-04-13 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		Max BP		7529		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		Max ambient temp		36.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		Max filter temp		36.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		Min ambient temp		13.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		Min filter temp		13.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		Sample volume		9.698		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		Start date			2025-04-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	FIELD	9.698	I15851O	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	LAB	9.698	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.50597	0.05217		TRUE	TRUE			FALSE	FALSE	FALSE	0.0563	0.005	0.00581	0.00052
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	LAB	9.698	I15851O	Nylon Filter	Nitrate - PM2.5	Nitrate	3.26126	0.33628		TRUE	TRUE			FALSE	FALSE	FALSE	0.24891	0.008	0.02567	0.00082
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	LAB	9.698	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.42564	0.147		TRUE	TRUE			FALSE	FALSE	FALSE	0.1198	0.005	0.01235	0.00052
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	LAB	9.698	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.61128	0.16615		TRUE	TRUE			FALSE	FALSE	FALSE	0.13279	0.005	0.01369	0.00052
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074907	Routine	LAB	9.698	I15851O	Nylon Filter	Sulfate - PM2.5	Sulfate	5.4796	0.56502		TRUE	TRUE			FALSE	FALSE	FALSE	0.40553	0.011	0.04182	0.00113
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074809E	Routine	FIELD	9.684	I15852P	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074809E	Routine	FIELD	9.684	I15852P	Quartz Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074809E	Routine	FIELD	9.684	I15852P	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074809E	Routine	FIELD	9.684	I15852P	Quartz Filter		Avg ambient temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074809E	Routine	FIELD	9.684	I15852P	Quartz Filter		Avg filter temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074809E	Routine	FIELD	9.684	I15852P	Quartz Filter		End date			2025-04-13 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074809E	Routine	FIELD	9.684	I15852P	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A11074809E	Routine	FIELD	9.684	I15852P	Quartz Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	FIELD	9.684	I15852P	Quartz Filter		Max ambient temp		36.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	FIELD	9.684	I15852P	Quartz Filter		Max filter temp		36.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	FIELD	9.684	I15852P	Quartz Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	FIELD	9.684	I15852P	Quartz Filter		Min ambient temp		13.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	FIELD	9.684	I15852P	Quartz Filter		Min filter temp		13.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	FIELD	9.684	I15852P	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	FIELD	9.684	I15852P	Quartz Filter		Sample volume		9.684		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	FIELD	9.684	I15852P	Quartz Filter		Start date			2025-04-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	FIELD	9.684	I15852P	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	7.19609	0.74309		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.56666	0.16178		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.13506	0.01395		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.00141	0.00015		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.44434	0.25241		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.41602	0.04296		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.72825	0.59152		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	19.4098	2.00432		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	5.4313	0.56085		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	39.8818	4.11832		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	37.4388	3.86605		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	8.8964	0.91867		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	6.45346	0.6664		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110748 9E	Routine	LAB	9.684	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	39.8832	4.11846		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	FIELD	9.6825	I15850N	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	FIELD	9.6825	I15850N	Teflon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	FIELD	9.6825	I15850N	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	FIELD	9.6825	I15850N	Teflon Filter		Avg ambient temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		Avg filter temp		26.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		End date			2025-04-13 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		Max ambient temp		36.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		Max filter temp		36.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		Min ambient temp		13.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		Min filter temp		13.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		Sample volume		9.6825		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		Start date			2025-04-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	FIELD	9.6825	I15850N	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Aluminum	2.6894	0.27776		TRUE	TRUE			FALSE	FALSE	FALSE	0.23416	0.11605	0.02418	0.01199
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01576	0.04528
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Barium	0.21278	0.02198		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Bromine	0.03028	0.00313		TRUE	TRUE			FALSE	FALSE	FALSE	0.00863	0.01548	0.00089	0.0016
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.0062	0.02538
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Calcium	3.58888	0.37066		TRUE	TRUE			FALSE	FALSE	FALSE	0.25422	0.02533	0.02626	0.00262
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01429
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Chlorine	1.48256	0.15312		TRUE	TRUE			FALSE	FALSE	FALSE	0.10603	0.02191	0.01095	0.00226
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Chromium	0.00215	0.00022		TRUE	TRUE			FALSE	FALSE	FALSE	0.00723	0.0161	0.00075	0.00166
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A1107491 8	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Cobalt	0.00825	0.00085		TRUE	TRUE			FALSE	FALSE	FALSE	0.00546	0.00991	0.00056	0.00102

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Copper	0.04633	0.00478		TRUE	TRUE			FALSE	FALSE	FALSE	0.00634	0.0114	0.00065	0.00118
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.0087	0.02415
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Iron	1.86676	0.1928		TRUE	TRUE			FALSE	FALSE	FALSE	0.13258	0.0134	0.01369	0.00138
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Lead	0.00791	0.00082		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00339
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Magnesium	0.98649	0.10188		TRUE	TRUE			FALSE	FALSE	FALSE	0.08713	0.05596	0.009	0.00578
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Manganese	0.05978	0.00617		TRUE	TRUE			FALSE	FALSE	FALSE	0.00789	0.01487	0.00082	0.00154
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Nickel	0.02011	0.00208		TRUE	TRUE			FALSE	FALSE	FALSE	0.00431	0.00936	0.00045	0.00097
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	118	12.1869		FALSE	FALSE			FALSE	FALSE	FALSE	6.16847	5.5	0.63707	0.56804
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Phosphorus	0.48364	0.04995		TRUE	TRUE			FALSE	FALSE	FALSE	0.04041	0.04401	0.00417	0.00455
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Potassium	2.65324	0.27402		TRUE	TRUE			FALSE	FALSE	FALSE	0.18821	0.02245	0.01944	0.00232
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Rubidium	0.01333	0.00138		TRUE	TRUE			FALSE	FALSE	FALSE	0.00864	0.01816	0.00089	0.00188
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Silicon	7.61846	0.78683		TRUE	TRUE			FALSE	FALSE	FALSE	0.63185	0.06	0.06526	0.0062
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02296
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Sodium	2.43628	0.25162		TRUE	TRUE			FALSE	FALSE	FALSE	0.24426	0.22815	0.02523	0.02356
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Strontium	0.00859	0.00089		TRUE	TRUE			FALSE	FALSE	FALSE	0.00996	0.02155	0.00103	0.00223
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Sulfur	1.69274	0.17482		TRUE	TRUE			FALSE	FALSE	FALSE	0.1211	0.02672	0.01251	0.00276
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.12331	0.50148	0.01274	0.05179
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Titanium	0.16837	0.01739		TRUE	TRUE			FALSE	FALSE	FALSE	0.01721	0.02926	0.00178	0.00302
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Zinc	0.02249	0.00232		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-04-12 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-12 00:00:00	A110749 18	Routine	LAB	9.6825	I15850N	Teflon Filter	Trace elements (33)	Zirconium	0.00113	0.00012		TRUE	TRUE			FALSE	FALSE	FALSE	0.01808	0.02668	0.00187	0.00276

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Avg ambient temp		16.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Avg filter temp		17		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		End date			2025-04-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Max ambient temp		23.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Max filter temp		23.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Min ambient temp		8.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Min filter temp		9.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Sample volume		9.698		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Start date			2025-04-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	FIELD	9.698	I151251	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	LAB	9.698	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.18797	0.01938		TRUE	TRUE			FALSE	FALSE	FALSE	0.03566	0.005	0.00368	0.00052
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	LAB	9.698	I151251	Nylon Filter	Nitrate - PM2.5	Nitrate	3.44467	0.35519		TRUE	TRUE			FALSE	FALSE	FALSE	0.26185	0.008	0.027	0.00082
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	LAB	9.698	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.40204	0.04146		TRUE	TRUE			FALSE	FALSE	FALSE	0.04938	0.005	0.00509	0.00052
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	LAB	9.698	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.98713	0.2049		TRUE	TRUE			FALSE	FALSE	FALSE	0.15917	0.005	0.01641	0.00052
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107520W	Routine	LAB	9.698	I151251	Nylon Filter	Sulfate - PM2.5	Sulfate	4.85625	0.50075		TRUE	TRUE			FALSE	FALSE	FALSE	0.3615	0.011	0.03728	0.00113
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107422V	Routine	FIELD	9.692	I153144	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107422V	Routine	FIELD	9.692	I153144	Quartz Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107422V	Routine	FIELD	9.692	I153144	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A1107422V	Routine	FIELD	9.692	I153144	Quartz Filter		Avg ambient temp		16.8		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		Avg filter temp		17		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		End date			2025-04-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		Max ambient temp		23.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		Max filter temp		23.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		Min ambient temp		8.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		Min filter temp		9.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		Sample volume		9.692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		Start date			2025-04-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	FIELD	9.692	I153144	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	1.75011	0.18057		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	0.92576	0.09552		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.11543	0.01191		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.00187	0.00019		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	0.00187	0.00019		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.20095	0.02073		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	3.45348	0.35632		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	12.0648	1.24482		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.0815	0.31794		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	21.5901	2.22762		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	21.5901	2.22762		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	2.78942	0.28781		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.78942	0.28781		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110742 2V	Routine	LAB	9.692	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	21.592	2.22781		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Avg ambient temp		16.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Avg filter temp		17.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		End date			2025-04-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Max ambient temp		23.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Max filter temp		23.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Min ambient temp		8.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Min filter temp		9.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Sample volume		9.695		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Start date			2025-04-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	FIELD	9.695	I151240	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Aluminum	3.61374	0.37274		TRUE	TRUE			FALSE	FALSE	FALSE	0.31051	0.11605	0.03203	0.01197
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.13433	0.43844	0.01386	0.04522
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Barium	0.24046	0.0248		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Bromine	0.02283	0.00235		TRUE	TRUE			FALSE	FALSE	FALSE	0.00752	0.01548	0.00078	0.0016
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cadmium	0.0452	0.00466		TRUE	TRUE			FALSE	FALSE	FALSE	0.16953	0.24575	0.01749	0.02535
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Calcium	2.09841	0.21644		TRUE	TRUE			FALSE	FALSE	FALSE	0.14891	0.02533	0.01536	0.00261
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Chlorine	1.07576	0.11096		TRUE	TRUE			FALSE	FALSE	FALSE	0.07727	0.02191	0.00797	0.00226

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Chromium	0.01672	0.00173		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cobalt	0.01774	0.00183		TRUE	TRUE			FALSE	FALSE	FALSE	0.00535	0.00991	0.00055	0.00102
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Copper	0.01198	0.00124		TRUE	TRUE			FALSE	FALSE	FALSE	0.00504	0.0114	0.00052	0.00118
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02412
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Iron	2.42046	0.24966		TRUE	TRUE			FALSE	FALSE	FALSE	0.17169	0.0134	0.01771	0.00138
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Lead	0.0113	0.00117		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Magnesium	0.95259	0.09826		TRUE	TRUE			FALSE	FALSE	FALSE	0.08441	0.05596	0.00871	0.00577
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Manganese	0.06283	0.00648		TRUE	TRUE			FALSE	FALSE	FALSE	0.00746	0.01487	0.00077	0.00153
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Nickel	0.00972	0.001		TRUE	TRUE			FALSE	FALSE	FALSE	0.00368	0.00936	0.00038	0.00096
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	94	9.69572		FALSE	FALSE			FALSE	FALSE	FALSE	5.03289	5.5	0.51912	0.5673
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Potassium	1.77071	0.18264		TRUE	TRUE			FALSE	FALSE	FALSE	0.12584	0.02245	0.01298	0.00232
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Rubidium	0.00362	0.00037		TRUE	TRUE			FALSE	FALSE	FALSE	0.00735	0.01816	0.00076	0.00187
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Silicon	9.55867	0.98594		TRUE	TRUE			FALSE	FALSE	FALSE	0.79209	0.06	0.0817	0.00619
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Sodium	2.68375	0.27682		TRUE	TRUE			FALSE	FALSE	FALSE	0.26747	0.22815	0.02759	0.02353
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Strontium	0.0026	0.00027		TRUE	TRUE			FALSE	FALSE	FALSE	0.00893	0.02155	0.00092	0.00222
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Sulfur	1.50855	0.1556		TRUE	TRUE			FALSE	FALSE	FALSE	0.10805	0.02672	0.01115	0.00276
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.10233	0.50148	0.01055	0.05173
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Titanium	0.186	0.01918		TRUE	TRUE			FALSE	FALSE	FALSE	0.01727	0.02926	0.00178	0.00302
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Zinc	0.01684	0.00174		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-04-18 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-18 00:00:00	A110752 1X	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Avg ambient temp		23.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Avg filter temp		23.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		End date			2025-04-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Max ambient temp		31.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Max filter temp		32.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Min ambient temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Min filter temp		12.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Sample volume		9.686		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Start date			2025-04-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	FIELD	9.686	I151488	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	LAB	9.686	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.68933	0.07117		TRUE	TRUE			FALSE	FALSE	FALSE	0.06873	0.005	0.0071	0.00052
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	LAB	9.686	I151488	Nylon Filter	Nitrate - PM2.5	Nitrate	3.99192	0.41213		TRUE	TRUE			FALSE	FALSE	FALSE	0.30047	0.008	0.03102	0.00083
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	LAB	9.686	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.97428	0.10059		TRUE	TRUE			FALSE	FALSE	FALSE	0.08836	0.005	0.00912	0.00052
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	LAB	9.686	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	2.0971	0.21651		TRUE	TRUE			FALSE	FALSE	FALSE	0.1669	0.005	0.01723	0.00052
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 4V	Routine	LAB	9.686	I151488	Nylon Filter	Sulfate - PM2.5	Sulfate	5.89624	0.60874		TRUE	TRUE			FALSE	FALSE	FALSE	0.43496	0.011	0.04491	0.00114
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Avg ambient temp		23.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Avg filter temp		23.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		End date			2025-04-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Max ambient temp		31.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Max filter temp		32.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Min ambient temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Min filter temp		12.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Sample volume		9.686		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Start date			2025-04-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	FIELD	9.686	I150309	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	5.08252	0.52473		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.50559	0.15544		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.10541	0.01088		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	-0.00047	-4.8E-05		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	1.95894	0.20224		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.34841	0.03597		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.30221	0.44417		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	16.1193	1.66418		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.23038	0.43675		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	31.6942	3.27217		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	29.7348	3.06988		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	6.69398	0.6911		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	4.73457	0.48881		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 3U	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	31.6938	3.27212		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Avg ambient temp		23.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Avg filter temp		23.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		End date			2025-04-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Max ambient temp		31.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Max filter temp		32.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Min ambient temp		12.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Min filter temp		12.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Sample volume		9.688		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Start date			2025-04-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	FIELD	9.688	I151499	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Aluminum	2.91088	0.30046		TRUE	TRUE			FALSE	FALSE	FALSE	0.25232	0.11605	0.02605	0.01198
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01463	0.04526
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Arsenic	0.00893	0.00092		TRUE	TRUE			FALSE	FALSE	FALSE	0.00996	0.01686	0.00103	0.00174
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Barium	0.18724	0.01933		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Bromine	0.02339	0.00241		TRUE	TRUE			FALSE	FALSE	FALSE	0.00764	0.01548	0.00079	0.0016
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02537

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Calcium	3.51091	0.3624		TRUE	TRUE			FALSE	FALSE	FALSE	0.24865	0.02533	0.02567	0.00261
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Chlorine	1.78992	0.18476		TRUE	TRUE			FALSE	FALSE	FALSE	0.12771	0.02191	0.01318	0.00226
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Chromium	0.23888	0.02466		TRUE	TRUE			FALSE	FALSE	FALSE	0.01875	0.0161	0.00194	0.00166
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Cobalt	0.00294	0.0003		TRUE	TRUE			FALSE	FALSE	FALSE	0.00543	0.00991	0.00056	0.00102
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Copper	0.02463	0.00254		TRUE	TRUE			FALSE	FALSE	FALSE	0.00538	0.0114	0.00055	0.00118
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02413
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Iron	2.60804	0.2692		TRUE	TRUE			FALSE	FALSE	FALSE	0.185	0.0134	0.0191	0.00138
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Lead	0.01582	0.00163		TRUE	TRUE			FALSE	FALSE	FALSE	0.01924	0.03278	0.00199	0.00338
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Magnesium	1.05203	0.10859		TRUE	TRUE			FALSE	FALSE	FALSE	0.09242	0.05596	0.00954	0.00578
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Manganese	0.07582	0.00783		TRUE	TRUE			FALSE	FALSE	FALSE	0.00829	0.01487	0.00086	0.00153
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Nickel	0.08565	0.00884		TRUE	TRUE			FALSE	FALSE	FALSE	0.00736	0.00936	0.00076	0.00097
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	107	11.0446		FALSE	FALSE			FALSE	FALSE	FALSE	5.64469	5.5	0.58265	0.56771
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Phosphorus	0.44861	0.04631		TRUE	TRUE			FALSE	FALSE	FALSE	0.03833	0.04401	0.00396	0.00454
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Potassium	2.44419	0.25229		TRUE	TRUE			FALSE	FALSE	FALSE	0.17338	0.02245	0.0179	0.00232
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Rubidium	0.01379	0.00142		TRUE	TRUE			FALSE	FALSE	FALSE	0.00763	0.01816	0.00079	0.00187
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Silicon	8.00831	0.82662		TRUE	TRUE			FALSE	FALSE	FALSE	0.66405	0.06	0.06854	0.00619
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02295
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Sodium	3.43181	0.35423		TRUE	TRUE			FALSE	FALSE	FALSE	0.33815	0.22815	0.0349	0.02355
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Strontium	0.03062	0.00316		TRUE	TRUE			FALSE	FALSE	FALSE	0.00941	0.02155	0.00097	0.00222

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Sulfur	2.09728	0.21648		TRUE	TRUE			FALSE	FALSE	FALSE	0.14975	0.02672	0.01546	0.00276
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Tin	0.0226	0.00233		TRUE	TRUE			FALSE	FALSE	FALSE	0.3729	0.50148	0.03849	0.05176
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Titanium	0.15651	0.01615		TRUE	TRUE			FALSE	FALSE	FALSE	0.01566	0.02926	0.00162	0.00302
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Vanadium	0.00723	0.00075		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Zinc	0.04328	0.00447		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-04-24 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-24 00:00:00	A110187 5W	Routine	LAB	9.688	I151499	Teflon Filter	Trace elements (33)	Zirconium	0.01469	0.00152		TRUE	TRUE			FALSE	FALSE	FALSE	0.01585	0.02668	0.00164	0.00275
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Avg ambient temp		22.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Avg filter temp		22.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		End date			2025-05-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Max ambient temp		30.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Max filter temp		31		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Min ambient temp		12.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Min filter temp		12.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Sample volume		9.684		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Start date			2025-04-30 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	FIELD	9.684	I15836P	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	LAB	9.684	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.92291	0.0953		TRUE	TRUE			FALSE	FALSE	FALSE	0.0848	0.005	0.00876	0.00052
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	LAB	9.684	I15836P	Nylon Filter	Nitrate - PM2.5	Nitrate	3.51035	0.36249		TRUE	TRUE			FALSE	FALSE	FALSE	0.26648	0.008	0.02752	0.00083

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	LAB	9.684	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.73047	0.07543		TRUE	TRUE			FALSE	FALSE	FALSE	0.07155	0.005	0.00739	0.00052
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	LAB	9.684	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	0.65359	0.06749		TRUE	TRUE			FALSE	FALSE	FALSE	0.06629	0.005	0.00685	0.00052
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 6K	Routine	LAB	9.684	I15836P	Nylon Filter	Sulfate - PM2.5	Sulfate	3.92763	0.40558		TRUE	TRUE			FALSE	FALSE	FALSE	0.29593	0.011	0.03056	0.00114
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Avg ambient temp		22.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Avg filter temp		22.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		End date			2025-05-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Max ambient temp		30.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Max filter temp		31.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Min ambient temp		12.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Min filter temp		12.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Sample volume		9.686		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Start date			2025-04-30 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	FIELD	9.686	I15837Q	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.25335	0.43912		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.06197	0.21288		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.09446	0.00975		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.01427	0.20796		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.41477	0.2493		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.39719	0.04101		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.84512	0.50022		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	14.2142	1.4675		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.69559	0.38154		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	27.5476	2.84406		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	27.1471	2.80272		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	4.39551	0.4538		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.99501	0.41245		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 7L	Routine	LAB	9.686	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	29.5619	3.05202		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Avg Flow CV		1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Avg ambient temp		22.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Avg filter temp		22.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		End date			2025-05-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Max ambient temp		30.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Max filter temp		30.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Min ambient temp		12.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Min filter temp		12.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Sample volume		9.691		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Start date			2025-04-30 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	FIELD	9.691	I15835O	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Aluminum	2.24757	0.23192		TRUE	TRUE			FALSE	FALSE	FALSE	0.19744	0.11605	0.02037	0.01197
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01575	0.04524

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Barium	0.14566	0.01503		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Bromine	0.03492	0.0036		TRUE	TRUE			FALSE	FALSE	FALSE	0.0085	0.01548	0.00088	0.0016
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02536
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Calcium	2.19898	0.22691		TRUE	TRUE			FALSE	FALSE	FALSE	0.156	0.02533	0.0161	0.00261
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01428
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Chlorine	0.19289	0.0199		TRUE	TRUE			FALSE	FALSE	FALSE	0.0163	0.02191	0.00168	0.00226
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Chromium	0.00057	5.8E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Cobalt	0.00904	0.00093		TRUE	TRUE			FALSE	FALSE	FALSE	0.0049	0.00991	0.00051	0.00102
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Copper	0.01955	0.00202		TRUE	TRUE			FALSE	FALSE	FALSE	0.00538	0.0114	0.00056	0.00118
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.02413
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Iron	1.3586	0.14019		TRUE	TRUE			FALSE	FALSE	FALSE	0.0967	0.0134	0.00998	0.00138
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Lead	0.02825	0.00292		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Magnesium	0.69043	0.07124		TRUE	TRUE			FALSE	FALSE	FALSE	0.06244	0.05596	0.00644	0.00577
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Manganese	0.03876	0.004		TRUE	TRUE			FALSE	FALSE	FALSE	0.00659	0.01487	0.00068	0.00153
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Nickel	0.00203	0.00021		TRUE	TRUE			FALSE	FALSE	FALSE	0.00373	0.00936	0.00039	0.00097
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	74	7.63595		FALSE	FALSE			FALSE	FALSE	FALSE	4.11461	5.5	0.42458	0.56754
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Phosphorus	0.29606	0.03055		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Potassium	1.60686	0.16581		TRUE	TRUE			FALSE	FALSE	FALSE	0.11431	0.02245	0.0118	0.00232
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Rubidium	0.00147	0.00015		TRUE	TRUE			FALSE	FALSE	FALSE	0.00825	0.01816	0.00085	0.00187
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Silicon	5.55169	0.57287		TRUE	TRUE			FALSE	FALSE	FALSE	0.4611	0.06	0.04758	0.00619
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02294
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Sodium	1.32097	0.13631		TRUE	TRUE			FALSE	FALSE	FALSE	0.14095	0.22815	0.01454	0.02354
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Strontium	0.02136	0.0022		TRUE	TRUE			FALSE	FALSE	FALSE	0.00983	0.02155	0.00101	0.00222
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Sulfur	1.41363	0.14587		TRUE	TRUE			FALSE	FALSE	FALSE	0.10124	0.02672	0.01045	0.00276
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01144	0.05175
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Titanium	0.1017	0.01049		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Zinc	0.02407	0.00248		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-04-30 00:00:00	2025-06-12 00:00:00	Maricopa 2024-2025	PCAQD	2025-04-30 00:00:00	A110317 5J	Routine	LAB	9.691	I15835O	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Average flow		6.74		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Avg Flow CV		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Avg ambient temp		17		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Avg filter temp		17.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		End date			2025-05-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Max ambient temp		23		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Max filter temp		23.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Min ambient temp		12.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Min filter temp		12.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Sample volume		9.708		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Start date			2025-05-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	FIELD	9.708	I15839S	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	LAB	9.708	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.21944	0.12561		TRUE	TRUE			FALSE	FALSE	FALSE	0.1054	0.005	0.01086	0.00052
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	LAB	9.708	I15839S	Nylon Filter	Nitrate - PM2.5	Nitrate	7.23603	0.74537		TRUE	TRUE			FALSE	FALSE	FALSE	0.52964	0.008	0.05456	0.00082
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	LAB	9.708	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.42204	0.04347		TRUE	TRUE			FALSE	FALSE	FALSE	0.0507	0.005	0.00522	0.00052
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	LAB	9.708	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.51762	0.15633		TRUE	TRUE			FALSE	FALSE	FALSE	0.12623	0.005	0.013	0.00052
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 1H	Routine	LAB	9.708	I15839S	Nylon Filter	Sulfate - PM2.5	Sulfate	6.1383	0.63229		TRUE	TRUE			FALSE	FALSE	FALSE	0.45207	0.011	0.04657	0.00113
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Avg ambient temp		17		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Avg filter temp		17.25		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		End date			2025-05-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Max ambient temp		23		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Max filter temp		23.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Min ambient temp		12.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Min filter temp		12.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Sample volume		9.698		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Start date			2025-05-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	FIELD	9.698	PCAQD	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 0G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	2.552	0.26315		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	0.71148	0.07336		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.05551	0.00572		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	1.17402	0.12106		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	0.00098	0.0001		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.43277	0.04462		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.47094	0.46102		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	17.927	1.84853		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.47094	0.46102		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	30.6189	3.15724		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	29.4458	3.03628		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	3.3176	0.34209		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.14453	0.22113		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101900G	Routine	LAB	9.698	PCAQD	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	30.6198	3.15733		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Avg ambient temp		17		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Avg filter temp		17.52		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		End date			2025-05-07 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Max ambient temp		23		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Max filter temp		23.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Min ambient temp		12.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Min filter temp		12.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Sample volume		9.699		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A1101902I	Routine	FIELD	9.699	I15838R	Teflon Filter		Start date			2025-05-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	FIELD	9.699	I15838R	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Aluminum	0.78648	0.08109		TRUE	TRUE			FALSE	FALSE	FALSE	0.08116	0.11605	0.00837	0.01196
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01461	0.0452
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Barium	0.04034	0.00416		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Bromine	0.05096	0.00525		TRUE	TRUE			FALSE	FALSE	FALSE	0.00859	0.01548	0.00089	0.0016
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02534
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Calcium	0.67551	0.06965		TRUE	TRUE			FALSE	FALSE	FALSE	0.04868	0.02533	0.00502	0.00261
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Chlorine	0.0469	0.00484		TRUE	TRUE			FALSE	FALSE	FALSE	0.016	0.02191	0.00165	0.00226
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Chromium	0.03853	0.00397		TRUE	TRUE			FALSE	FALSE	FALSE	0.0071	0.0161	0.00073	0.00166
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Cobalt	0.00429	0.00044		TRUE	TRUE			FALSE	FALSE	FALSE	0.0043	0.00991	0.00044	0.00102
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Copper	0.02475	0.00255		TRUE	TRUE			FALSE	FALSE	FALSE	0.00538	0.0114	0.00055	0.00118
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02411
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Iron	0.718	0.07403		TRUE	TRUE			FALSE	FALSE	FALSE	0.05153	0.0134	0.00531	0.00138
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Lead	0.01695	0.00175		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Magnesium	0.47686	0.04917		TRUE	TRUE			FALSE	FALSE	FALSE	0.04505	0.05596	0.00465	0.00577
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Manganese	0.01311	0.00135		TRUE	TRUE			FALSE	FALSE	FALSE	0.00567	0.01487	0.00058	0.00153
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Nickel	0.01684	0.00174		TRUE	TRUE			FALSE	FALSE	FALSE	0.00381	0.00936	0.00039	0.00096
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	56	5.77379		FALSE	FALSE			FALSE	FALSE	FALSE	4	5.5	0.41241	0.56707
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Phosphorus	0.01356	0.0014		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Potassium	0.63031	0.06499		TRUE	TRUE			FALSE	FALSE	FALSE	0.0455	0.02245	0.00469	0.00231
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Rubidium	0.00328	0.00034		TRUE	TRUE			FALSE	FALSE	FALSE	0.00746	0.01816	0.00077	0.00187
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.0017
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Silicon	2.05434	0.21181		TRUE	TRUE			FALSE	FALSE	FALSE	0.17272	0.06	0.01781	0.00619
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02292
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Sodium	2.02835	0.20913		TRUE	TRUE			FALSE	FALSE	FALSE	0.20441	0.22815	0.02108	0.02352
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Strontium	0.0122	0.00126		TRUE	TRUE			FALSE	FALSE	FALSE	0.00874	0.02155	0.0009	0.00222
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Sulfur	2.01253	0.2075		TRUE	TRUE			FALSE	FALSE	FALSE	0.14351	0.02672	0.0148	0.00275
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.10233	0.50148	0.01055	0.0517
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Titanium	0.07729	0.00797		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Zinc	0.00475	0.00049		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-05-06 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-06 00:00:00	A110190 2I	Routine	LAB	9.699	I15838R	Teflon Filter	Trace elements (33)	Zirconium	0.00452	0.00047		TRUE	TRUE			FALSE	FALSE	FALSE	0.01582	0.02668	0.00163	0.00275
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Avg BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Avg Flow CV		0.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Avg ambient temp		30.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Avg filter temp		30.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		End date			2025-05-13 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Max BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Max ambient temp		36.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Max filter temp		36.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Min ambient temp		22.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Min filter temp		22.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Sample volume		9.691		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Start date			2025-05-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	FIELD	9.691	I15845Q	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	LAB	9.691	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.15283	0.11896		TRUE	TRUE			FALSE	FALSE	FALSE	0.10076	0.005	0.0104	0.00052
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	LAB	9.691	I15845Q	Nylon Filter	Nitrate - PM2.5	Nitrate	2.50967	0.25897		TRUE	TRUE			FALSE	FALSE	FALSE	0.19594	0.008	0.02022	0.00083
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	LAB	9.691	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.6413	0.06618		TRUE	TRUE			FALSE	FALSE	FALSE	0.06546	0.005	0.00675	0.00052
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	LAB	9.691	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.26026	0.13004		TRUE	TRUE			FALSE	FALSE	FALSE	0.10824	0.005	0.01117	0.00052
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 0K	Routine	LAB	9.691	I15845Q	Nylon Filter	Sulfate - PM2.5	Sulfate	7.02059	0.72444		TRUE	TRUE			FALSE	FALSE	FALSE	0.51441	0.011	0.05308	0.00114
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Avg BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Avg ambient temp		30.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Avg filter temp		30.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		End date			2025-05-13 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Max BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Max ambient temp		36.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Max filter temp		36.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Min ambient temp		22.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Min filter temp		22.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Sample volume		9.677		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Start date			2025-05-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	FIELD	9.677	I15846R	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.30661	0.3417		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	0.99607	0.10293		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.00849	0.00088		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	1.67759	0.17336		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	11.1556	1.1528		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.2599	0.02686		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	3.48772	0.36041		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	16.6217	1.71765		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.76867	0.49278		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	27.3051	2.82165		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	27.7716	2.86985		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	2.16762	0.224		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.63406	0.2722		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110191 9R	Routine	LAB	9.677	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	29.4492	3.04321		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		Average flow		6.74		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		Avg ambient temp		30.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		Avg filter temp		30.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		End date			2025-05-13 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		Max BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		Max ambient temp		36.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		Max filter temp		36.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		Min ambient temp		22.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	FIELD	9.704	I15844P	Teflon Filter		Min filter temp		22.5		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	FIELD	9.704	I15844P	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	FIELD	9.704	I15844P	Teflon Filter		Sample volume		9.704		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	FIELD	9.704	I15844P	Teflon Filter		Start date			2025-05-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	FIELD	9.704	I15844P	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Aluminum	1.27351	0.13124		TRUE	TRUE			FALSE	FALSE	FALSE	0.1191	0.11605	0.01227	0.01196
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.13433	0.43844	0.01384	0.04518
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Arsenic	0.00983	0.00101		TRUE	TRUE			FALSE	FALSE	FALSE	0.00603	0.01686	0.00062	0.00174
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Barium	0.07503	0.00773		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Bromine	0.0365	0.00376		TRUE	TRUE			FALSE	FALSE	FALSE	0.00789	0.01548	0.00081	0.00159
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00618	0.02532
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Calcium	1.54008	0.15871		TRUE	TRUE			FALSE	FALSE	FALSE	0.10947	0.02533	0.01128	0.00261
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01137	0.01426
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Chlorine	0.44646	0.04601		TRUE	TRUE			FALSE	FALSE	FALSE	0.03335	0.02191	0.00344	0.00226
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Chromium	0.00102	0.0001		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Cobalt	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00991	0.00038	0.00102
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Copper	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00433	0.0114	0.00045	0.00117
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02409
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Iron	0.86897	0.08955		TRUE	TRUE			FALSE	FALSE	FALSE	0.06212	0.0134	0.0064	0.00138
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00161	0.00338
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Magnesium	0.48025	0.04949		TRUE	TRUE			FALSE	FALSE	FALSE	0.04583	0.05596	0.00472	0.00577
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Manganese	0.02972	0.00306		TRUE	TRUE			FALSE	FALSE	FALSE	0.00571	0.01487	0.00059	0.00153
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A1101921L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Nickel	0.00407	0.00042		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00096

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	81	8.34707		FALSE	FALSE			FALSE	FALSE	FALSE	4.43199	5.5	0.45672	0.56678
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Phosphorus	0.11865	0.01223		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Potassium	1.16492	0.12005		TRUE	TRUE			FALSE	FALSE	FALSE	0.08308	0.02245	0.00856	0.00231
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Rubidium	0.00396	0.00041		TRUE	TRUE			FALSE	FALSE	FALSE	0.00735	0.01816	0.00076	0.00187
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.0017
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Silicon	3.70414	0.38171		TRUE	TRUE			FALSE	FALSE	FALSE	0.30857	0.06	0.0318	0.00618
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Silver	0.0226	0.00233		TRUE	TRUE			FALSE	FALSE	FALSE	0.12431	0.22231	0.01281	0.02291
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Sodium	1.96168	0.20215		TRUE	TRUE			FALSE	FALSE	FALSE	0.1983	0.22815	0.02043	0.02351
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Strontium	0.01232	0.00127		TRUE	TRUE			FALSE	FALSE	FALSE	0.00874	0.02155	0.0009	0.00222
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Sulfur	2.13683	0.2202		TRUE	TRUE			FALSE	FALSE	FALSE	0.15237	0.02672	0.0157	0.00275
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.10233	0.50148	0.01055	0.05168
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Titanium	0.07153	0.00737		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Zinc	0.0191	0.00197		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-05-12 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-12 00:00:00	A110192 1L	Routine	LAB	9.704	I15844P	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Avg BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Avg ambient temp		22.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Avg filter temp		22.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		End date			2025-05-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Max BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Max ambient temp		28.9		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Max filter temp		28.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Min ambient temp		16		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Min filter temp		16.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Sample volume		9.693		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Start date			2025-05-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	FIELD	9.693	I15851O	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	LAB	9.693	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.95037	0.09805		TRUE	TRUE			FALSE	FALSE	FALSE	0.0867	0.005	0.00894	0.00052
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	LAB	9.693	I15851O	Nylon Filter	Nitrate - PM2.5	Nitrate	3.40187	0.35096		TRUE	TRUE			FALSE	FALSE	FALSE	0.25883	0.008	0.0267	0.00083
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	LAB	9.693	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.33877	0.03495		TRUE	TRUE			FALSE	FALSE	FALSE	0.04523	0.005	0.00467	0.00052
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	LAB	9.693	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.79471	0.18515		TRUE	TRUE			FALSE	FALSE	FALSE	0.14566	0.005	0.01503	0.00052
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 3S	Routine	LAB	9.693	I15851O	Nylon Filter	Sulfate - PM2.5	Sulfate	6.48886	0.66944		TRUE	TRUE			FALSE	FALSE	FALSE	0.47684	0.011	0.04919	0.00113
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Avg BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Avg ambient temp		22.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Avg filter temp		22.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		End date			2025-05-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Max BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Max ambient temp		28.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Max filter temp		28.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Min ambient temp		16		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Min filter temp		16.1		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Sample volume		9.688		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Start date			2025-05-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	FIELD	9.688	I15852P	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.17301	0.32752		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.21334	0.12524		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.08973	0.00926		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.10293	0.21707		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.31405	0.34208		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.35986	0.03714		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	3.82481	0.3948		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	12.4275	1.28277		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.90694	0.40328		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	24.5556	2.53465		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	22.8925	2.36297		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	4.03634	0.41663		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.3732	0.24496		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 2R	Routine	LAB	9.688	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	24.9954	2.58004		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Avg BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Avg ambient temp		22.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Avg filter temp		22.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		End date			2025-05-19 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Max BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Max ambient temp		28.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Max filter temp		28.7		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Min ambient temp		16		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Min filter temp		16.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Sample volume		9.695		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Start date			2025-05-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	FIELD	9.695	I15850N	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Aluminum	1.74472	0.17996		TRUE	TRUE			FALSE	FALSE	FALSE	0.1566	0.11605	0.01615	0.01197
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01574	0.04522
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Barium	0.16927	0.01746		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Bromine	0.03017	0.00311		TRUE	TRUE			FALSE	FALSE	FALSE	0.00874	0.01548	0.0009	0.0016
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Cadmium	0.0791	0.00816		TRUE	TRUE			FALSE	FALSE	FALSE	0.19218	0.24575	0.01982	0.02535
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Calcium	1.41329	0.14578		TRUE	TRUE			FALSE	FALSE	FALSE	0.10051	0.02533	0.01037	0.00261
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Chlorine	1.05768	0.1091		TRUE	TRUE			FALSE	FALSE	FALSE	0.07602	0.02191	0.00784	0.00226
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Cobalt	0.01198	0.00124		TRUE	TRUE			FALSE	FALSE	FALSE	0.00504	0.00991	0.00052	0.00102
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Copper	0.03311	0.00342		TRUE	TRUE			FALSE	FALSE	FALSE	0.0057	0.0114	0.00059	0.00118
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.02412
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Iron	1.36956	0.14126		TRUE	TRUE			FALSE	FALSE	FALSE	0.09749	0.0134	0.01006	0.00138
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Magnesium	0.57969	0.05979		TRUE	TRUE			FALSE	FALSE	FALSE	0.05433	0.05596	0.0056	0.00577

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Manganese	0.03141	0.00324		TRUE	TRUE			FALSE	FALSE	FALSE	0.00649	0.01487	0.00067	0.00153
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Nickel	0.01107	0.00114		TRUE	TRUE			FALSE	FALSE	FALSE	0.00392	0.00936	0.0004	0.00096
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	127	13.0995		FALSE	FALSE			FALSE	FALSE	FALSE	6.60019	5.5	0.68078	0.5673
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Potassium	0.99734	0.10287		TRUE	TRUE			FALSE	FALSE	FALSE	0.07126	0.02245	0.00735	0.00232
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Rubidium	0.01254	0.00129		TRUE	TRUE			FALSE	FALSE	FALSE	0.00852	0.01816	0.00088	0.00187
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Silicon	5.51666	0.56902		TRUE	TRUE			FALSE	FALSE	FALSE	0.4581	0.06	0.04725	0.00619
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Sodium	2.70183	0.27868		TRUE	TRUE			FALSE	FALSE	FALSE	0.26828	0.22815	0.02767	0.02353
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Strontium	0.01582	0.00163		TRUE	TRUE			FALSE	FALSE	FALSE	0.01001	0.02155	0.00103	0.00222
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Sulfur	1.93569	0.19966		TRUE	TRUE			FALSE	FALSE	FALSE	0.13812	0.02672	0.01425	0.00276
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Tin	0.0113	0.00117		TRUE	TRUE			FALSE	FALSE	FALSE	0.4181	0.50148	0.04313	0.05173
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Titanium	0.14464	0.01492		TRUE	TRUE			FALSE	FALSE	FALSE	0.01524	0.02926	0.00157	0.00302
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Zinc	0.00362	0.00037		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-05-18 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-18 00:00:00	A110186 4T	Routine	LAB	9.695	I15850N	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Avg ambient temp		29.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Avg filter temp		29.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		End date			2025-05-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Max ambient temp		35.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Max filter temp		36		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Min ambient temp		20.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Min filter temp		20.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Sample volume		9.701		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Start date			2025-05-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	FIELD	9.701	I151251	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	LAB	9.701	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.40345	0.04159		TRUE	TRUE			FALSE	FALSE	FALSE	0.04947	0.005	0.0051	0.00052
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	LAB	9.701	I151251	Nylon Filter	Nitrate - PM2.5	Nitrate	3.57715	0.36874		TRUE	TRUE			FALSE	FALSE	FALSE	0.2712	0.008	0.02796	0.00082
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	LAB	9.701	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.08067	0.1114		TRUE	TRUE			FALSE	FALSE	FALSE	0.09574	0.005	0.00987	0.00052
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	LAB	9.701	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	2.58322	0.26628		TRUE	TRUE			FALSE	FALSE	FALSE	0.20112	0.005	0.02073	0.00052
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 2H	Routine	LAB	9.701	I151251	Nylon Filter	Sulfate - PM2.5	Sulfate	6.0001	0.6185		TRUE	TRUE			FALSE	FALSE	FALSE	0.4423	0.011	0.04559	0.00113
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Avg ambient temp		29.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Avg filter temp		29.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		End date			2025-05-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Max ambient temp		35.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Max filter temp		36		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Min ambient temp		20.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Min filter temp		20.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Sample volume		9.691		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Start date			2025-05-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	FIELD	9.691	I153144	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.44961	0.35596		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.00666	0.10388		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.14935	0.01541		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	1.56019	0.16099		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.96646	0.30611		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.43747	0.04514		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	3.96841	0.40949		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	18.6648	1.92599		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	6.0816	0.62755		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	33.7588	3.48352		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	32.1986	3.32253		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	4.60598	0.47528		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.04579	0.31429		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 1G	Routine	LAB	9.691	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	33.7588	3.48352		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Avg Flow CV		1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Avg ambient temp		29.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Avg filter temp		29.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		End date			2025-05-25 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Max ambient temp		35.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Max filter temp		36.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Min ambient temp		20.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Min filter temp		20.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Sample volume		9.69		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Start date			2025-05-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	FIELD	9.69	I151240	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Aluminum	2.7685	0.28571		TRUE	TRUE			FALSE	FALSE	FALSE	0.24084	0.11605	0.02485	0.01198
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01575	0.04525
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Barium	0.2138	0.02206		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Bromine	0.03548	0.00366		TRUE	TRUE			FALSE	FALSE	FALSE	0.00873	0.01548	0.0009	0.0016
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02536
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Calcium	3.43407	0.35439		TRUE	TRUE			FALSE	FALSE	FALSE	0.24329	0.02533	0.02511	0.00261
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Chlorine	3.16739	0.32687		TRUE	TRUE			FALSE	FALSE	FALSE	0.22502	0.02191	0.02322	0.00226
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Chromium	0.00068	7E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Cobalt	0.00565	0.00058		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.00991	0.00055	0.00102
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Copper	0.03853	0.00398		TRUE	TRUE			FALSE	FALSE	FALSE	0.00607	0.0114	0.00063	0.00118
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.02413
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Iron	1.90405	0.1965		TRUE	TRUE			FALSE	FALSE	FALSE	0.13521	0.0134	0.01395	0.00138

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Lead	0.01017	0.00105		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Magnesium	1.20006	0.12385		TRUE	TRUE			FALSE	FALSE	FALSE	0.10474	0.05596	0.01081	0.00577
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Manganese	0.0678	0.007		TRUE	TRUE			FALSE	FALSE	FALSE	0.00794	0.01487	0.00082	0.00153
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Nickel	0.02712	0.0028		TRUE	TRUE			FALSE	FALSE	FALSE	0.0045	0.00936	0.00046	0.00097
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	135	13.9319		FALSE	FALSE			FALSE	FALSE	FALSE	6.98588	5.5	0.72094	0.5676
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Phosphorus	0.50172	0.05178		TRUE	TRUE			FALSE	FALSE	FALSE	0.0415	0.04401	0.00428	0.00454
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Potassium	2.35153	0.24268		TRUE	TRUE			FALSE	FALSE	FALSE	0.16685	0.02245	0.01722	0.00232
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Rubidium	0.00655	0.00068		TRUE	TRUE			FALSE	FALSE	FALSE	0.0086	0.01816	0.00089	0.00187
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Silicon	6.93594	0.71578		TRUE	TRUE			FALSE	FALSE	FALSE	0.57544	0.06	0.05939	0.00619
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02294
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Sodium	4.2262	0.43614		TRUE	TRUE			FALSE	FALSE	FALSE	0.4139	0.22815	0.04271	0.02354
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Strontium	0.01605	0.00166		TRUE	TRUE			FALSE	FALSE	FALSE	0.01023	0.02155	0.00106	0.00222
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Sulfur	2.03852	0.21037		TRUE	TRUE			FALSE	FALSE	FALSE	0.14563	0.02672	0.01503	0.00276
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Tin	0.4068	0.04198		TRUE	TRUE			FALSE	FALSE	FALSE	0.41909	0.50148	0.04325	0.05175
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Titanium	0.13447	0.01388		TRUE	TRUE			FALSE	FALSE	FALSE	0.01565	0.02926	0.00162	0.00302
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Vanadium	0.00023	2.3E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.00972	0.02396	0.001	0.00247
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Zinc	0.02656	0.00274		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-05-24 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-24 00:00:00	A110868 3I	Routine	LAB	9.69	I151240	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Avg ambient temp		30.8		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Avg filter temp		30.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		End date			2025-06-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Max ambient temp		37.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Max filter temp		37.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Min ambient temp		21		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Min filter temp		22		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Sample volume		9.679		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Start date			2025-05-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	FIELD	9.679	I151488	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	LAB	9.679	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.90676	0.197		TRUE	TRUE			FALSE	FALSE	FALSE	0.15353	0.005	0.01586	0.00052
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	LAB	9.679	I151488	Nylon Filter	Nitrate - PM2.5	Nitrate	3.30756	0.34172		TRUE	TRUE			FALSE	FALSE	FALSE	0.25218	0.008	0.02605	0.00083
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	LAB	9.679	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	2.33544	0.24129		TRUE	TRUE			FALSE	FALSE	FALSE	0.18367	0.005	0.01898	0.00052
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	LAB	9.679	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	3.80404	0.39302		TRUE	TRUE			FALSE	FALSE	FALSE	0.28721	0.005	0.02967	0.00052
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 8P	Routine	LAB	9.679	I151488	Nylon Filter	Sulfate - PM2.5	Sulfate	11.2239	1.15961		TRUE	TRUE			FALSE	FALSE	FALSE	0.81152	0.011	0.08384	0.00114
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Avg Flow CV		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Avg ambient temp		30.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Avg filter temp		30.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		End date			2025-06-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Max ambient temp		37.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Max filter temp		37.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Min ambient temp		21		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Min filter temp		21.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Sample volume		9.693		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Start date			2025-05-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	FIELD	9.693	I150309	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.11601	0.42464		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.66915	0.1722		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.23285	0.02402		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.24144	0.23124		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	10.0956	1.04153		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 7O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.40337	0.04161		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108697O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	7.0528	0.72762		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108697O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	29.5528	3.04888		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108697O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	14.0466	1.44915		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108697O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	57.0743	5.88819		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108697O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	54.8328	5.65695		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108697O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	6.01819	0.62088		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108697O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.77675	0.38964		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108697O	Routine	LAB	9.693	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	57.0743	5.88819		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108699Q	Routine	FIELD	9.703	I151499	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108699Q	Routine	FIELD	9.703	I151499	Teflon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108699Q	Routine	FIELD	9.703	I151499	Teflon Filter		Avg Flow CV		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A1108699Q	Routine	FIELD	9.703	I151499	Teflon Filter		Avg ambient temp		30.8		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		Avg filter temp		30.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		End date			2025-06-01 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		Max ambient temp		37.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		Max filter temp		37.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		Min ambient temp		21		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		Min filter temp		22		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		Sample volume		9.703		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		Start date			2025-05-31 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	FIELD	9.703	I151499	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Aluminum	2.94026	0.30303		TRUE	TRUE			FALSE	FALSE	FALSE	0.25529	0.11605	0.02631	0.01196
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01573	0.04519
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Arsenic	0.01661	0.00171		TRUE	TRUE			FALSE	FALSE	FALSE	0.01046	0.01686	0.00108	0.00174
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Barium	0.21549	0.02221		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Bromine	0.04531	0.00467		TRUE	TRUE			FALSE	FALSE	FALSE	0.00864	0.01548	0.00089	0.00159
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00618	0.02533
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Calcium	4.46915	0.46059		TRUE	TRUE			FALSE	FALSE	FALSE	0.31644	0.02533	0.03261	0.00261
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01137	0.01426
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Chlorine	3.37079	0.3474		TRUE	TRUE			FALSE	FALSE	FALSE	0.23934	0.02191	0.02467	0.00226
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Cobalt	0.00294	0.0003		TRUE	TRUE			FALSE	FALSE	FALSE	0.00509	0.00991	0.00052	0.00102

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Copper	0.01842	0.0019		TRUE	TRUE			FALSE	FALSE	FALSE	0.00525	0.0114	0.00054	0.00117
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.00868	0.0241
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Iron	1.99106	0.2052		TRUE	TRUE			FALSE	FALSE	FALSE	0.14134	0.0134	0.01457	0.00138
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Lead	0.0113	0.00116		TRUE	TRUE			FALSE	FALSE	FALSE	0.01923	0.03278	0.00198	0.00338
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Magnesium	1.63398	0.1684		TRUE	TRUE			FALSE	FALSE	FALSE	0.14061	0.05596	0.01449	0.00577
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Manganese	0.06215	0.00641		TRUE	TRUE			FALSE	FALSE	FALSE	0.00743	0.01487	0.00077	0.00153
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Nickel	0.00079	8.2E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00096
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	140	14.4285		FALSE	FALSE			FALSE	FALSE	FALSE	7.22772	5.5	0.7449	0.56683
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Phosphorus	0.91982	0.0948		TRUE	TRUE			FALSE	FALSE	FALSE	0.06968	0.04401	0.00718	0.00454
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Potassium	3.68945	0.38024		TRUE	TRUE			FALSE	FALSE	FALSE	0.26146	0.02245	0.02695	0.00231
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Rubidium	0.00757	0.00078		TRUE	TRUE			FALSE	FALSE	FALSE	0.00793	0.01816	0.00082	0.00187
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.0017
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Silicon	8.58348	0.88462		TRUE	TRUE			FALSE	FALSE	FALSE	0.71162	0.06	0.07334	0.00618
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02291
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Sodium	5.08048	0.5236		TRUE	TRUE			FALSE	FALSE	FALSE	0.49557	0.22815	0.05107	0.02351
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Strontium	0.03254	0.00335		TRUE	TRUE			FALSE	FALSE	FALSE	0.00988	0.02155	0.00102	0.00222
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Sulfur	3.64312	0.37546		TRUE	TRUE			FALSE	FALSE	FALSE	0.25891	0.02672	0.02668	0.00275
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01142	0.05168
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Titanium	0.1469	0.01514		TRUE	TRUE			FALSE	FALSE	FALSE	0.01535	0.02926	0.00158	0.00302
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Vanadium	0.02769	0.00285		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Zinc	0.03774	0.00389		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-05-31 00:00:00	2025-07-02 00:00:00	Maricopa 2024-2025	PCAQD	2025-05-31 00:00:00	A110869 9Q	Routine	LAB	9.703	I151499	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Avg BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Avg ambient temp		29.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Avg filter temp		29.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		End date			2025-06-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Max ambient temp		37.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Max filter temp		37.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Min ambient temp		20.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Min filter temp		20.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Sample volume		9.691		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Start date			2025-06-05 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	FIELD	9.691	I15836P	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	LAB	9.691	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.92581	0.09553		TRUE	TRUE			FALSE	FALSE	FALSE	0.085	0.005	0.00877	0.00052
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	LAB	9.691	I15836P	Nylon Filter	Nitrate - PM2.5	Nitrate	4.9533	0.51112		TRUE	TRUE			FALSE	FALSE	FALSE	0.36835	0.008	0.03801	0.00083
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	LAB	9.691	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.47032	0.04853		TRUE	TRUE			FALSE	FALSE	FALSE	0.05391	0.005	0.00556	0.00052
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	LAB	9.691	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.73707	0.17925		TRUE	TRUE			FALSE	FALSE	FALSE	0.14161	0.005	0.01461	0.00052
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 69	Routine	LAB	9.691	I15836P	Nylon Filter	Sulfate - PM2.5	Sulfate	7.08914	0.73152		TRUE	TRUE			FALSE	FALSE	FALSE	0.51926	0.011	0.05358	0.00114
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Avg BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Avg ambient temp		29.5		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Avg filter temp		29.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		End date			2025-06-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Max ambient temp		37.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Max filter temp		37.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Min ambient temp		20.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Min filter temp		20.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Sample volume		9.68		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Start date			2025-06-05 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	FIELD	9.68	I15837Q	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.17247	0.43104		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.67259	0.17279		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.08344	0.00862		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.00047	4.9E-05		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	0.00047	4.9E-05		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.5068	0.05236		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.19603	0.53678		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	13.8738	1.43324		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.41392	0.35268		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	28.9185	2.98745		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	28.9185	2.98745		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	5.92802	0.6124		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	5.92802	0.6124		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 58	Routine	LAB	9.68	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	28.919	2.9875		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Avg BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Avg ambient temp		29.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Avg filter temp		29.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		End date			2025-06-06 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Max ambient temp		37.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Max filter temp		37.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Min ambient temp		20.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Min filter temp		20.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Sample volume		9689		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Start date			2025-06-05 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	FIELD	9689	I15835O	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Aluminum	1.45205	0.00015		TRUE	TRUE			FALSE	FALSE	FALSE	0.13264	0.11605	1.4E-05	1.2E-05
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.13433	0.43844	1.4E-05	4.5E-05
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Arsenic	0.00531	5.5E-07		TRUE	TRUE			FALSE	FALSE	FALSE	0.0095	0.01686	9.8E-07	1.7E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Barium	0.0808	8.3E-06		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	3.4E-06	2.8E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Bromine	0.01898	2E-06		TRUE	TRUE			FALSE	FALSE	FALSE	0.00713	0.01548	7.4E-07	1.6E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	6.2E-06	2.5E-05
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Calcium	1.57002	0.00016		TRUE	TRUE			FALSE	FALSE	FALSE	0.11158	0.02533	1.2E-05	2.6E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	2.3E-06	3.2E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	1.1E-05	1.4E-05
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Chlorine	0.60229	6.2E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.04407	0.02191	4.5E-06	2.3E-06

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Chromium	0.00531	5.5E-07		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	7.2E-07	1.7E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Cobalt	0.00802	8.3E-07		TRUE	TRUE			FALSE	FALSE	FALSE	0.00433	0.00991	4.5E-07	1E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Copper	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00433	0.0114	4.5E-07	1.2E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	7.3E-06	2.4E-05
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Iron	0.94739	9.8E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.06766	0.0134	7E-06	1.4E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	1.6E-06	3.4E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Magnesium	0.49155	5.1E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.04667	0.05596	4.8E-06	5.8E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Manganese	0.03367	3.5E-06		TRUE	TRUE			FALSE	FALSE	FALSE	0.00592	0.01487	6.1E-07	1.5E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Nickel	0.00848	8.7E-07		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	3.8E-07	9.7E-07
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	69	0.00712		FALSE	FALSE			FALSE	FALSE	FALSE	4	5.5	0.00041	0.00057
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Phosphorus	0.07345	7.6E-06		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	3.4E-06	4.5E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Potassium	1.04322	0.00011		TRUE	TRUE			FALSE	FALSE	FALSE	0.07452	0.02245	7.7E-06	2.3E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Rubidium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00567	0.01816	5.9E-07	1.9E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	6.5E-07	1.7E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Silicon	3.77872	0.00039		TRUE	TRUE			FALSE	FALSE	FALSE	0.31468	0.06	3.2E-05	6.2E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	4.9E-06	2.3E-05
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Sodium	2.34475	0.00024		TRUE	TRUE			FALSE	FALSE	FALSE	0.23454	0.22815	2.4E-05	2.4E-05
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Strontium	0.01164	1.2E-06		TRUE	TRUE			FALSE	FALSE	FALSE	0.00874	0.02155	9E-07	2.2E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Sulfur	2.20802	0.00023		TRUE	TRUE			FALSE	FALSE	FALSE	0.15737	0.02672	1.6E-05	2.8E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.10233	0.50148	1.1E-05	5.2E-05
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Titanium	0.07435	7.7E-06		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	1.4E-06	3E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Vanadium	0.02531	2.6E-06		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	1E-06	2.5E-06

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Zinc	0.0148	1.5E-06		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	1.2E-06	1.3E-06
2025-06-05 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-05 00:00:00	A110862 7A	Routine	LAB	9689	I15835O	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	1.5E-06	2.8E-06
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Avg ambient temp		33.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Avg filter temp		33.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		End date			2025-06-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Max ambient temp		41.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Max filter temp		41.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Min ambient temp		23		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Min filter temp		23.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Sample volume		9.699		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Start date			2025-06-11 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	FIELD	9.699	I15839S	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	LAB	9.699	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.41733	0.04303		TRUE	TRUE			FALSE	FALSE	FALSE	0.05039	0.005	0.0052	0.00052
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	LAB	9.699	I15839S	Nylon Filter	Nitrate - PM2.5	Nitrate	7.27727	0.75031		TRUE	TRUE			FALSE	FALSE	FALSE	0.53255	0.008	0.05491	0.00082
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	LAB	9.699	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.45097	0.1496		TRUE	TRUE			FALSE	FALSE	FALSE	0.12157	0.005	0.01253	0.00052
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	LAB	9.699	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	8.86827	0.91435		TRUE	TRUE			FALSE	FALSE	FALSE	0.645	0.005	0.0665	0.00052
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 4F	Routine	LAB	9.699	I15839S	Nylon Filter	Sulfate - PM2.5	Sulfate	13.4982	1.39171		TRUE	TRUE			FALSE	FALSE	FALSE	0.97231	0.011	0.10025	0.00113
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Avg ambient temp		33.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Avg filter temp		33.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		End date			2025-06-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Max ambient temp		41.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Max filter temp		41.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Min ambient temp		23		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Min filter temp		23.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Sample volume		9.696		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Start date			2025-06-11 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	FIELD	9.696	I15840L	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	7.09879	0.73214		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.55216	0.16008		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.08466	0.00873		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0	0		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	0	0		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.48454	0.04997		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	6.1938	0.6388		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	17.0149	1.75484		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.92912	0.50837		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	37.358	3.85293		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	37.358	3.85293		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	8.73561	0.90095		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	8.73561	0.90095		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 5G	Routine	LAB	9.696	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	37.358	3.85293		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Avg ambient temp		33.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Avg filter temp		33.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		End date			2025-06-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Max ambient temp		41.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Max filter temp		41.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Min ambient temp		23		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Min filter temp		23.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Sample volume		9.695		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Start date			2025-06-11 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	FIELD	9.695	I15838R	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Aluminum	2.52555	0.2605		TRUE	TRUE			FALSE	FALSE	FALSE	0.22134	0.11605	0.02283	0.01197
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01462	0.04522
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Arsenic	0.00181	0.00019		TRUE	TRUE			FALSE	FALSE	FALSE	0.00994	0.01686	0.00103	0.00174
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Barium	0.17255	0.0178		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Bromine	0.0391	0.00403		TRUE	TRUE			FALSE	FALSE	FALSE	0.00827	0.01548	0.00085	0.0016
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02535

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Calcium	3.94596	0.40701		TRUE	TRUE			FALSE	FALSE	FALSE	0.27944	0.02533	0.02882	0.00261
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Chlorine	5.85905	0.60434		TRUE	TRUE			FALSE	FALSE	FALSE	0.4153	0.02191	0.04284	0.00226
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Chromium	0.00328	0.00034		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Cobalt	0.0087	0.0009		TRUE	TRUE			FALSE	FALSE	FALSE	0.00479	0.00991	0.00049	0.00102
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Copper	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00433	0.0114	0.00045	0.00118
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Indium	0.0565	0.00583		TRUE	TRUE			FALSE	FALSE	FALSE	0.24863	0.23381	0.02565	0.02412
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Iron	1.66336	0.17157		TRUE	TRUE			FALSE	FALSE	FALSE	0.11816	0.0134	0.01219	0.00138
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Lead	0.01695	0.00175		TRUE	TRUE			FALSE	FALSE	FALSE	0.01925	0.03278	0.00199	0.00338
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Magnesium	1.34131	0.13835		TRUE	TRUE			FALSE	FALSE	FALSE	0.11655	0.05596	0.01202	0.00577
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Manganese	0.05017	0.00518		TRUE	TRUE			FALSE	FALSE	FALSE	0.00677	0.01487	0.0007	0.00153
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Nickel	0.00994	0.00103		TRUE	TRUE			FALSE	FALSE	FALSE	0.00368	0.00936	0.00038	0.00096
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	155	15.9876		FALSE	FALSE			FALSE	FALSE	FALSE	7.95629	5.5	0.82066	0.5673
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Phosphorus	0.35369	0.03648		TRUE	TRUE			FALSE	FALSE	FALSE	0.03298	0.04401	0.0034	0.00454
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Potassium	2.28938	0.23614		TRUE	TRUE			FALSE	FALSE	FALSE	0.16247	0.02245	0.01676	0.00232
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Rubidium	0.01096	0.00113		TRUE	TRUE			FALSE	FALSE	FALSE	0.00784	0.01816	0.00081	0.00187
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Selenium	0.00113	0.00012		TRUE	TRUE			FALSE	FALSE	FALSE	0.00746	0.01653	0.00077	0.00171
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Silicon	7.30771	0.75376		TRUE	TRUE			FALSE	FALSE	FALSE	0.60616	0.06	0.06252	0.00619
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Sodium	9.718	1.00237		TRUE	TRUE			FALSE	FALSE	FALSE	0.93997	0.22815	0.09695	0.02353
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Strontium	0.04543	0.00469		TRUE	TRUE			FALSE	FALSE	FALSE	0.01002	0.02155	0.00103	0.00222

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Sulfur	3.7403	0.3858		TRUE	TRUE			FALSE	FALSE	FALSE	0.26586	0.02672	0.02742	0.00276
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Tin	0.1356	0.01399		TRUE	TRUE			FALSE	FALSE	FALSE	0.36173	0.50148	0.03731	0.05173
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Titanium	0.13786	0.01422		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02926	0.00151	0.00302
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Vanadium	0.01503	0.00155		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Zinc	0.02441	0.00252		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-06-11 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-11 00:00:00	A110866 3E	Routine	LAB	9.695	I15838R	Teflon Filter	Trace elements (33)	Zirconium	0.00339	0.00035		TRUE	TRUE			FALSE	FALSE	FALSE	0.01582	0.02668	0.00163	0.00275
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Avg BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Avg ambient temp		34.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Avg filter temp		34.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		End date			2025-06-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Max BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Max ambient temp		42.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Max filter temp		42.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Min BP		723		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Min ambient temp		22.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Min filter temp		22.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Sample volume		9.69		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Start date			2025-06-17 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	FIELD	9.69	I15845Q	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	LAB	9.69	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.32106	0.03313		TRUE	TRUE			FALSE	FALSE	FALSE	0.04408	0.005	0.00455	0.00052
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	LAB	9.69	I15845Q	Nylon Filter	Nitrate - PM2.5	Nitrate	5.7206	0.59036		TRUE	TRUE			FALSE	FALSE	FALSE	0.42256	0.008	0.04361	0.00083

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	LAB	9.69	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.35062	0.13938		TRUE	TRUE			FALSE	FALSE	FALSE	0.11455	0.005	0.01182	0.00052
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	LAB	9.69	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	8.52848	0.88013		TRUE	TRUE			FALSE	FALSE	FALSE	0.62098	0.005	0.06408	0.00052
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 1C	Routine	LAB	9.69	I15845Q	Nylon Filter	Sulfate - PM2.5	Sulfate	12.5282	1.2929		TRUE	TRUE			FALSE	FALSE	FALSE	0.90373	0.011	0.09326	0.00114
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Avg BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Avg ambient temp		34.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Avg filter temp		34.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		End date			2025-06-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Max BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Max ambient temp		42.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Max filter temp		42.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Min BP		723		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Min ambient temp		22.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Min filter temp		23		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Sample volume		9.694		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Start date			2025-06-17 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	FIELD	9.694	I15846R	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	7.02136	0.7243		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.30132	0.13424		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.06464	0.00667		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.46806	0.04828		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	0.46806	0.04828		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.44305	0.0457		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.6521	0.58305		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	21.426	2.21023		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.89952	0.50542		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	40.3399	4.16133		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	40.3399	4.16133		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	7.91926	0.81692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	7.91926	0.81692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 2D	Routine	LAB	9.694	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	40.808	4.20961		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Avg BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Avg ambient temp		34.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Avg filter temp		34.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		End date			2025-06-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Max BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Max ambient temp		42.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Max filter temp		42.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Min BP		723		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Min ambient temp		22.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Min filter temp		22.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Sample volume		9.694		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Start date			2025-06-17 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	FIELD	9.694	I15844P	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Aluminum	2.66906	0.27533		TRUE	TRUE			FALSE	FALSE	FALSE	0.23284	0.11605	0.02402	0.01197
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Antimony	0.3729	0.03847		TRUE	TRUE			FALSE	FALSE	FALSE	0.47533	0.43844	0.04903	0.04523

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Barium	0.20012	0.02064		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Bromine	0.03853	0.00397		TRUE	TRUE			FALSE	FALSE	FALSE	0.00815	0.01548	0.00084	0.0016
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02535
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Calcium	3.89737	0.40204		TRUE	TRUE			FALSE	FALSE	FALSE	0.276	0.02533	0.02847	0.00261
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Chlorine	6.4523	0.6656		TRUE	TRUE			FALSE	FALSE	FALSE	0.45724	0.02191	0.04717	0.00226
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Cobalt	0.00237	0.00024		TRUE	TRUE			FALSE	FALSE	FALSE	0.00486	0.00991	0.0005	0.00102
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Copper	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00433	0.0114	0.00045	0.00118
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02412
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Iron	1.70404	0.17578		TRUE	TRUE			FALSE	FALSE	FALSE	0.12113	0.0134	0.0125	0.00138
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Lead	0.00102	0.0001		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Magnesium	1.22718	0.12659		TRUE	TRUE			FALSE	FALSE	FALSE	0.10754	0.05596	0.01109	0.00577
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Manganese	0.05096	0.00526		TRUE	TRUE			FALSE	FALSE	FALSE	0.0067	0.01487	0.00069	0.00153
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Nickel	0.00203	0.00021		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	136	14.0293		FALSE	FALSE			FALSE	FALSE	FALSE	7.0342	5.5	0.72562	0.56736
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Phosphorus	0.46556	0.04803		TRUE	TRUE			FALSE	FALSE	FALSE	0.03996	0.04401	0.00412	0.00454
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Potassium	2.59109	0.26729		TRUE	TRUE			FALSE	FALSE	FALSE	0.18382	0.02245	0.01896	0.00232
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Rubidium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00567	0.01816	0.00058	0.00187
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Silicon	7.50998	0.7747		TRUE	TRUE			FALSE	FALSE	FALSE	0.62291	0.06	0.06426	0.00619
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Sodium	10.0694	1.03873		TRUE	TRUE			FALSE	FALSE	FALSE	0.97383	0.22815	0.10046	0.02354
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Strontium	0.03277	0.00338		TRUE	TRUE			FALSE	FALSE	FALSE	0.00977	0.02155	0.00101	0.00222
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Sulfur	3.503	0.36136		TRUE	TRUE			FALSE	FALSE	FALSE	0.24904	0.02672	0.02569	0.00276
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Tin	0.0791	0.00816		TRUE	TRUE			FALSE	FALSE	FALSE	0.35034	0.50148	0.03614	0.05173
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Titanium	0.14713	0.01518		TRUE	TRUE			FALSE	FALSE	FALSE	0.01495	0.02926	0.00154	0.00302
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Vanadium	0.00271	0.00028		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Zinc	0.02034	0.0021		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-06-17 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-17 00:00:00	A110866 0B	Routine	LAB	9.694	I15844P	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Avg ambient temp		30		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Avg filter temp		30.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		End date			2025-06-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Max ambient temp		37.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Max filter temp		37.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Min ambient temp		19.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Min filter temp		19.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 87	Routine	FIELD	9.696	I15851O	Nylon Filter		Sample volume		9.696		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163687	Routine	FIELD	9.696	I15851O	Nylon Filter		Start date			2025-06-23 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163687	Routine	FIELD	9.696	I15851O	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163687	Routine	LAB	9.696	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.45266	0.04669		TRUE	TRUE			FALSE	FALSE	FALSE	0.05274	0.005	0.00544	0.00052
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163687	Routine	LAB	9.696	I15851O	Nylon Filter	Nitrate - PM2.5	Nitrate	3.2819	0.33848		TRUE	TRUE			FALSE	FALSE	FALSE	0.25037	0.008	0.02582	0.00083
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163687	Routine	LAB	9.696	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.50482	0.1552		TRUE	TRUE			FALSE	FALSE	FALSE	0.12534	0.005	0.01293	0.00052
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163687	Routine	LAB	9.696	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	4.53116	0.46732		TRUE	TRUE			FALSE	FALSE	FALSE	0.33854	0.005	0.03492	0.00052
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163687	Routine	LAB	9.696	I15851O	Nylon Filter	Sulfate - PM2.5	Sulfate	7.3886	0.76203		TRUE	TRUE			FALSE	FALSE	FALSE	0.54042	0.011	0.05574	0.00113
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Avg Flow CV		1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Avg ambient temp		30		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Avg filter temp		30.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		End date			2025-06-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Max ambient temp		37.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Max filter temp		37.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Min ambient temp		19.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Min filter temp		19.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Sample volume		9.692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Start date			2025-06-23 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	FIELD	9.692	I15852P	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	11.6751	1.20462		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.4966	0.15442		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.0687	0.00709		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	1.1679	0.1205		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	1.1679	0.1205		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.35399	0.03652		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.25124	0.54181		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	24.1599	2.49276		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	5.23788	0.54043		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	47.0755	4.85715		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	47.0755	4.85715		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	12.0725	1.24562		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	12.0725	1.24562		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163698	Routine	LAB	9.692	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	48.2434	4.97765		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Avg ambient temp		30		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Avg filter temp		30.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		End date			2025-06-24 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Max ambient temp		37.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Max filter temp		37.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Min ambient temp		19.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Min filter temp		19.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Sample volume		9.684		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Start date			2025-06-23 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	FIELD	9.684	I15850N	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Aluminum	1.85433	0.19148		TRUE	TRUE			FALSE	FALSE	FALSE	0.16597	0.11605	0.01714	0.01198
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.13433	0.43844	0.01387	0.04527
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Barium	0.1712	0.01768		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Bromine	0.01367	0.00141		TRUE	TRUE			FALSE	FALSE	FALSE	0.00741	0.01548	0.00077	0.0016
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.0062	0.02538
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Calcium	2.63064	0.27165		TRUE	TRUE			FALSE	FALSE	FALSE	0.18645	0.02533	0.01925	0.00262
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01429
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Chlorine	4.54712	0.46955		TRUE	TRUE			FALSE	FALSE	FALSE	0.32252	0.02191	0.0333	0.00226
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Chromium	0.01627	0.00168		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Cobalt	0.01153	0.00119		TRUE	TRUE			FALSE	FALSE	FALSE	0.0047	0.00991	0.00049	0.00102
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Copper	0.00497	0.00051		TRUE	TRUE			FALSE	FALSE	FALSE	0.00487	0.0114	0.0005	0.00118
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02414
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Iron	1.39781	0.14434		TRUE	TRUE			FALSE	FALSE	FALSE	0.09945	0.0134	0.01027	0.00138
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Magnesium	1.05655	0.1091		TRUE	TRUE			FALSE	FALSE	FALSE	0.09278	0.05596	0.00958	0.00578
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Manganese	0.04814	0.00497		TRUE	TRUE			FALSE	FALSE	FALSE	0.0066	0.01487	0.00068	0.00154
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Nickel	0.00633	0.00065		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	99	10.223		FALSE	FALSE			FALSE	FALSE	FALSE	5.26711	5.5	0.5439	0.56795
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A11163676	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Phosphorus	0.48477	0.05006		TRUE	TRUE			FALSE	FALSE	FALSE	0.03989	0.04401	0.00412	0.00454

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Potassium	2.21028	0.22824		TRUE	TRUE			FALSE	FALSE	FALSE	0.15689	0.02245	0.0162	0.00232
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Rubidium	0.00497	0.00051		TRUE	TRUE			FALSE	FALSE	FALSE	0.00735	0.01816	0.00076	0.00188
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Silicon	5.37089	0.55461		TRUE	TRUE			FALSE	FALSE	FALSE	0.44623	0.06	0.04608	0.0062
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02296
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Sodium	4.95505	0.51167		TRUE	TRUE			FALSE	FALSE	FALSE	0.48329	0.22815	0.04991	0.02356
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Strontium	0.02757	0.00285		TRUE	TRUE			FALSE	FALSE	FALSE	0.00914	0.02155	0.00094	0.00223
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Sulfur	2.13344	0.22031		TRUE	TRUE			FALSE	FALSE	FALSE	0.15228	0.02672	0.01573	0.00276
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.10233	0.50148	0.01057	0.05178
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Titanium	0.14012	0.01447		TRUE	TRUE			FALSE	FALSE	FALSE	0.01436	0.02926	0.00148	0.00302
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Zinc	0.02373	0.00245		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-06-23 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-23 00:00:00	A111636 76	Routine	LAB	9.684	I15850N	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Average flow		6.74		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Avg Flow CV		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Avg ambient temp		36.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Avg filter temp		36.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		End date			2025-06-30 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Max ambient temp		43.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Max filter temp		43.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Min BP		723		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Min ambient temp		26.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Min filter temp		27		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Sample volume		9.708		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Start date			2025-06-29 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	FIELD	9.708	I151251	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	LAB	9.708	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.8436	0.0869		TRUE	TRUE			FALSE	FALSE	FALSE	0.07932	0.005	0.00817	0.00052
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	LAB	9.708	I151251	Nylon Filter	Nitrate - PM2.5	Nitrate	5.2599	0.54181		TRUE	TRUE			FALSE	FALSE	FALSE	0.39001	0.008	0.04017	0.00082
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	LAB	9.708	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.87894	0.19355		TRUE	TRUE			FALSE	FALSE	FALSE	0.15157	0.005	0.01561	0.00052
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	LAB	9.708	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	4.97549	0.51251		TRUE	TRUE			FALSE	FALSE	FALSE	0.36992	0.005	0.0381	0.00052
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 3Y	Routine	LAB	9.708	I151251	Nylon Filter	Sulfate - PM2.5	Sulfate	10.5789	1.08971		TRUE	TRUE			FALSE	FALSE	FALSE	0.76592	0.011	0.0789	0.00113
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Avg ambient temp		36.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Avg filter temp		36.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		End date			2025-06-30 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Max ambient temp		43.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Max filter temp		43.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Min BP		723		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Min ambient temp		26.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Min filter temp		27		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Sample volume		9.682		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Start date			2025-06-29 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	FIELD	9.682	I153144	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	11.3371	1.17095		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.39796	0.14439		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.26262	0.02712		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	1.54619	0.1597		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	1.54619	0.1597		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.41705	0.04307		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.8006	0.59911		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	26.5302	2.74016		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	7.79005	0.80459		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	51.9894	5.3697		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	51.9894	5.3697		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	11.4515	1.18276		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	11.4515	1.18276		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 4Z	Routine	LAB	9.682	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	53.5356	5.5294		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Avg ambient temp		36.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Avg filter temp		36.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		End date			2025-06-30 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Max ambient temp		43.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Max filter temp		43.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Min BP		723		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Min ambient temp		26.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Min filter temp		27.2		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Sample volume		9.692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Start date			2025-06-29 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	FIELD	9.692	I151240	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Aluminum	6.0455	0.62376		TRUE	TRUE			FALSE	FALSE	FALSE	0.51329	0.11605	0.05296	0.01197
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01575	0.04524
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Barium	0.45867	0.04732		TRUE	TRUE			FALSE	FALSE	FALSE	0.03409	0.02752	0.00352	0.00284
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Bromine	0.05288	0.00546		TRUE	TRUE			FALSE	FALSE	FALSE	0.00916	0.01548	0.00095	0.0016
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Cadmium	0.1469	0.01516		TRUE	TRUE			FALSE	FALSE	FALSE	0.19238	0.24575	0.01985	0.02536
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Calcium	8.48969	0.87595		TRUE	TRUE			FALSE	FALSE	FALSE	0.60072	0.02533	0.06198	0.00261
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01428
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Chlorine	4.859	0.50134		TRUE	TRUE			FALSE	FALSE	FALSE	0.3446	0.02191	0.03555	0.00226
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Cobalt	0.00554	0.00057		TRUE	TRUE			FALSE	FALSE	FALSE	0.00611	0.00991	0.00063	0.00102
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Copper	0.0374	0.00386		TRUE	TRUE			FALSE	FALSE	FALSE	0.00593	0.0114	0.00061	0.00118
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.02412
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Iron	3.78889	0.39093		TRUE	TRUE			FALSE	FALSE	FALSE	0.26845	0.0134	0.0277	0.00138
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Lead	0.01469	0.00152		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Magnesium	2.02609	0.20905		TRUE	TRUE			FALSE	FALSE	FALSE	0.17392	0.05596	0.01794	0.00577
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Manganese	0.14102	0.01455		TRUE	TRUE			FALSE	FALSE	FALSE	0.01212	0.01487	0.00125	0.00153
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Nickel	0.00802	0.00083		TRUE	TRUE			FALSE	FALSE	FALSE	0.004	0.00936	0.00041	0.00097

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	220	22.6991		FALSE	FALSE			FALSE	FALSE	FALSE	11.1463	5.5	1.15005	0.56748
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Phosphorus	1.54584	0.1595		TRUE	TRUE			FALSE	FALSE	FALSE	0.11328	0.04401	0.01169	0.00454
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Potassium	5.75848	0.59415		TRUE	TRUE			FALSE	FALSE	FALSE	0.40773	0.02245	0.04207	0.00232
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Rubidium	0.01763	0.00182		TRUE	TRUE			FALSE	FALSE	FALSE	0.00845	0.01816	0.00087	0.00187
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Silicon	15.9646	1.6472		TRUE	TRUE			FALSE	FALSE	FALSE	1.32154	0.06	0.13635	0.00619
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02294
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Sodium	6.67265	0.68847		TRUE	TRUE			FALSE	FALSE	FALSE	0.64845	0.22815	0.06691	0.02354
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Strontium	0.05277	0.00544		TRUE	TRUE			FALSE	FALSE	FALSE	0.01094	0.02155	0.00113	0.00222
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Sulfur	3.62843	0.37437		TRUE	TRUE			FALSE	FALSE	FALSE	0.25798	0.02672	0.02662	0.00276
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01144	0.05174
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Titanium	0.31979	0.033		TRUE	TRUE			FALSE	FALSE	FALSE	0.0258	0.02926	0.00266	0.00302
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Zinc	0.04814	0.00497		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-06-29 00:00:00	2025-08-01 00:00:00	Maricopa 2024-2025	PCAQD	2025-06-29 00:00:00	A111634 2X	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Average flow		6.73		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Avg BP		730		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Avg ambient temp		33.6		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Avg filter temp		33.8		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		End date			2025-07-06 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		End time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Max BP		732		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Max ambient temp		39.3		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Max filter temp		39.2		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Min BP		728		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Min ambient temp		25.9		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Min filter temp		26.3		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Run Time		24		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Sample volume		9.696		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Start date			2025-07-05 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	FIELD	9.696	I151488	Nylon Filter		Start time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	LAB	9.696	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.81003	0.08354		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.07701	0.005	0.00794	0.00052
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	LAB	9.696	I151488	Nylon Filter	Nitrate - PM2.5	Nitrate	5.18796	0.53506		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.38493	0.008	0.0397	0.00083
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	LAB	9.696	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.15232	0.11884		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.10072	0.005	0.01039	0.00052
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	LAB	9.696	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	5.36089	0.5529		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.39714	0.005	0.04096	0.00052
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 4U	Routine	LAB	9.696	I151488	Nylon Filter	Sulfate - PM2.5	Sulfate	10.8663	1.1207		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.78624	0.011	0.08109	0.00113
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Average flow		6.73		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Avg BP		730		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Avg ambient temp		33.6		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Avg filter temp		33.7		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		End date			2025-07-06 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		End time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Max BP		732		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Max ambient temp		39.3		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Max filter temp		39.4		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Min BP		728		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Min ambient temp		25.9		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Min filter temp		26.2		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Run Time		24		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Sample volume		9.702		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Start date			2025-07-05 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	FIELD	9.702	I150309	Quartz Filter		Start time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.98203	0.51351		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	2.12526	0.21905		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.06733	0.00694		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	3.32568	0.34278		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.46852	0.35751		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.48863	0.05036		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.73662	0.59128		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	12.5395	1.29246		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.82682	0.39444		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	26.4405	2.72526		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	26.2976	2.71054		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	3.7061	0.38199		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.84894	0.39672		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 3T	Routine	LAB	9.702	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	29.7661	3.06804		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Average flow		6.73		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Avg BP		730		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Avg ambient temp		33.6		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Avg filter temp		33.8		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		End date			2025-07-06 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		End time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Max BP		732		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Max ambient temp		39.3		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Max filter temp		39.3		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Min BP		728		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Min ambient temp		25.9		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Min filter temp		26.2		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Run Time		24		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Sample volume		9.699		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Start date			2025-07-05 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	FIELD	9.699	I151499	Teflon Filter		Start time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Aluminum	1.17859	0.12152		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.13673	0.11605	0.0141	0.01196
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.16275	0.43844	0.01678	0.0452
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Barium	0.08317	0.00857		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Bromine	0.04125	0.00425		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.0093	0.01548	0.00096	0.0016
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02534
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Calcium	1.5594	0.16078		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.13554	0.02533	0.01397	0.00261
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Chlorine	3.80471	0.39228		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.33032	0.02191	0.03406	0.00226
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Cobalt	0.0078	0.0008		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00479	0.00991	0.00049	0.00102
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Copper	0.04068	0.00419		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00656	0.0114	0.00068	0.00118
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.02411
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Iron	0.72264	0.07451		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.06325	0.0134	0.00652	0.00138
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Lead	0.01808	0.00186		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Magnesium	0.59777	0.06163		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.06891	0.05596	0.0071	0.00577

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Manganese	0.013	0.00134		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00632	0.01487	0.00065	0.00153
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Nickel	0.01028	0.00106		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00416	0.00936	0.00043	0.00096
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	84	8.66069		FALSE	FALSE	FC5		FALSE	FALSE	FALSE	4.56946	5.5	0.47113	0.56707
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Phosphorus	0.08814	0.00909		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Potassium	1.94134	0.20016		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.16861	0.02245	0.01738	0.00231
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Rubidium	0.00192	0.0002		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00859	0.01816	0.00089	0.00187
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Selenium	0.00791	0.00082		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00828	0.01653	0.00085	0.0017
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Silicon	3.18547	0.32843		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.33851	0.06	0.0349	0.00619
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02292
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Sodium	6.18336	0.63753		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.78665	0.22815	0.08111	0.02352
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Strontium	0.04317	0.00445		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01115	0.02155	0.00115	0.00222
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Sulfur	3.36514	0.34696		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.29255	0.02672	0.03016	0.00275
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Tin	0.0565	0.00583		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.41813	0.50148	0.04311	0.0517
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Titanium	0.06215	0.00641		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Vanadium	0.00486	0.0005		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00984	0.02396	0.00101	0.00247
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Zinc	0.00689	0.00071		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-07-05 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-05 00:00:00	A111640 5V	Routine	LAB	9.699	I151499	Teflon Filter	Trace elements (33)	Zirconium	0.00678	0.0007		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01809	0.02668	0.00187	0.00275
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 49	Routine	FIELD	9.694	I15836P	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 49	Routine	FIELD	9.694	I15836P	Nylon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 49	Routine	FIELD	9.694	I15836P	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 49	Routine	FIELD	9.694	I15836P	Nylon Filter		Avg ambient temp		36		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 49	Routine	FIELD	9.694	I15836P	Nylon Filter		Avg filter temp		36.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 49	Routine	FIELD	9.694	I15836P	Nylon Filter		End date			2025-07-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.694	I15836P	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.694	I15836P	Nylon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.694	I15836P	Nylon Filter		Max ambient temp		42.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.694	I15836P	Nylon Filter		Max filter temp		42.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.694	I15836P	Nylon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.694	I15836P	Nylon Filter		Min ambient temp		28.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.694	I15836P	Nylon Filter		Min filter temp		28.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.694	I15836P	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.694	I15836P	Nylon Filter		Sample volume		9.694		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.694	I15836P	Nylon Filter		Start date			2025-07-11 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.694	I15836P	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	LAB	9.694	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.24808	0.12875		TRUE	TRUE			FALSE	FALSE	FALSE	0.1074	0.005	0.01108	0.00052
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	LAB	9.694	I15836P	Nylon Filter	Nitrate - PM2.5	Nitrate	7.41063	0.76446		TRUE	TRUE			FALSE	FALSE	FALSE	0.54198	0.008	0.05591	0.00083
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	LAB	9.694	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.62795	0.06478		TRUE	TRUE			FALSE	FALSE	FALSE	0.06455	0.005	0.00666	0.00052
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	LAB	9.694	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	6.84521	0.70613		TRUE	TRUE			FALSE	FALSE	FALSE	0.50202	0.005	0.05179	0.00052
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	LAB	9.694	I15836P	Nylon Filter	Sulfate - PM2.5	Sulfate	14.4907	1.49481		TRUE	TRUE			FALSE	FALSE	FALSE	1.04247	0.011	0.10754	0.00113
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.684	I15837Q	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.684	I15837Q	Quartz Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.684	I15837Q	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.684	I15837Q	Quartz Filter		Avg ambient temp		36		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.684	I15837Q	Quartz Filter		Avg filter temp		36.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.684	I15837Q	Quartz Filter		End date			2025-07-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.684	I15837Q	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.684	I15837Q	Quartz Filter		Max BP		72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.684	I15837Q	Quartz Filter		Max ambient temp		42.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163949	Routine	FIELD	9.684	I15837Q	Quartz Filter		Max filter temp		42.6		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	FIELD	9.684	I15837Q	Quartz Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	FIELD	9.684	I15837Q	Quartz Filter		Min ambient temp		28.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	FIELD	9.684	I15837Q	Quartz Filter		Min filter temp		28.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	FIELD	9.684	I15837Q	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	FIELD	9.684	I15837Q	Quartz Filter		Sample volume		9.684		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	FIELD	9.684	I15837Q	Quartz Filter		Start date			2025-07-11 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	FIELD	9.684	I15837Q	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	10.8561	1.12104		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.47637	0.15245		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.11929	0.01232		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.09019	0.00931		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.62014	0.27056		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.38555	0.03981		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 5A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	6.96287	0.71901		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	25.8965	2.67416		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	7.95968	0.82194		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	53.5662	5.53141		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	51.0363	5.27016		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	9.83162	1.01524		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	12.3616	1.2765		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395A	Routine	LAB	9.684	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	53.6564	5.54073		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395B	Routine	FIELD	9.685	I15835O	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395B	Routine	FIELD	9.685	I15835O	Teflon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395B	Routine	FIELD	9.685	I15835O	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395B	Routine	FIELD	9.685	I15835O	Teflon Filter		Avg ambient temp		36		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395B	Routine	FIELD	9.685	I15835O	Teflon Filter		Avg filter temp		36.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395B	Routine	FIELD	9.685	I15835O	Teflon Filter		End date			2025-07-12 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395B	Routine	FIELD	9.685	I15835O	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A1116395B	Routine	FIELD	9.685	I15835O	Teflon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	FIELD	9.685	I15835O	Teflon Filter		Max ambient temp		42.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	FIELD	9.685	I15835O	Teflon Filter		Max filter temp		42.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	FIELD	9.685	I15835O	Teflon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	FIELD	9.685	I15835O	Teflon Filter		Min ambient temp		28.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	FIELD	9.685	I15835O	Teflon Filter		Min filter temp		28.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	FIELD	9.685	I15835O	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	FIELD	9.685	I15835O	Teflon Filter		Sample volume		9.685		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	FIELD	9.685	I15835O	Teflon Filter		Start date			2025-07-11 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	FIELD	9.685	I15835O	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Aluminum	2.31085	0.2386		TRUE	TRUE			FALSE	FALSE	FALSE	0.25536	0.11605	0.02637	0.01198
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Antimony	0.0113	0.00117		TRUE	TRUE			FALSE	FALSE	FALSE	0.4972	0.43844	0.05134	0.04527
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Barium	0.15933	0.01645		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Bromine	0.0348	0.00359		TRUE	TRUE			FALSE	FALSE	FALSE	0.00815	0.01548	0.00084	0.0016
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.0062	0.02537
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Calcium	2.67019	0.2757		TRUE	TRUE			FALSE	FALSE	FALSE	0.23161	0.02533	0.02391	0.00262
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01429
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Chlorine	4.65221	0.48035		TRUE	TRUE			FALSE	FALSE	FALSE	0.40371	0.02191	0.04168	0.00226
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Cobalt	0.01085	0.00112		TRUE	TRUE			FALSE	FALSE	FALSE	0.00484	0.00991	0.0005	0.00102
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Copper	0.01932	0.002		TRUE	TRUE			FALSE	FALSE	FALSE	0.00525	0.0114	0.00054	0.00118
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02414
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A111639 38	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Iron	1.51533	0.15646		TRUE	TRUE			FALSE	FALSE	FALSE	0.13172	0.0134	0.0136	0.00138

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Magnesium	0.94581	0.09766		TRUE	TRUE			FALSE	FALSE	FALSE	0.1059	0.05596	0.01093	0.00578
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Manganese	0.0513	0.0053		TRUE	TRUE			FALSE	FALSE	FALSE	0.00728	0.01487	0.00075	0.00154
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Nickel	0.00622	0.00064		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	114	11.7708		FALSE	FALSE			FALSE	FALSE	FALSE	5.97746	5.5	0.61719	0.56789
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Phosphorus	0.14577	0.01505		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Potassium	1.82834	0.18878		TRUE	TRUE			FALSE	FALSE	FALSE	0.15885	0.02245	0.0164	0.00232
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Rubidium	0.01865	0.00193		TRUE	TRUE			FALSE	FALSE	FALSE	0.00752	0.01816	0.00078	0.00188
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Silicon	6.36868	0.65758		TRUE	TRUE			FALSE	FALSE	FALSE	0.67458	0.06	0.06965	0.00619
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02295
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Sodium	8.33036	0.86013		TRUE	TRUE			FALSE	FALSE	FALSE	1.05795	0.22815	0.10924	0.02356
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Strontium	0.04102	0.00424		TRUE	TRUE			FALSE	FALSE	FALSE	0.00971	0.02155	0.001	0.00223
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Sulfur	4.54034	0.4688		TRUE	TRUE			FALSE	FALSE	FALSE	0.39435	0.02672	0.04072	0.00276
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Tin	0.1808	0.01867		TRUE	TRUE			FALSE	FALSE	FALSE	0.35065	0.50148	0.03621	0.05178
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Titanium	0.14012	0.01447		TRUE	TRUE			FALSE	FALSE	FALSE	0.01628	0.02926	0.00168	0.00302
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Zinc	0.01887	0.00195		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-07-11 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-11 00:00:00	A11163938	Routine	LAB	9.685	I15835O	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Avg Flow CV		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Avg ambient temp		31		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Avg filter temp		31.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		End date			2025-07-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Max ambient temp		36.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Max filter temp		37.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Min ambient temp		25.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Min filter temp		25.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Sample volume		9.695		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Start date			2025-07-17 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	FIELD	9.695	I15839S	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	LAB	9.695	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.18266	0.12199		TRUE	TRUE			FALSE	FALSE	FALSE	0.10284	0.005	0.01061	0.00052
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	LAB	9.695	I15839S	Nylon Filter	Nitrate - PM2.5	Nitrate	4.35975	0.44969		TRUE	TRUE			FALSE	FALSE	FALSE	0.32644	0.008	0.03367	0.00083
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	LAB	9.695	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.90838	0.0937		TRUE	TRUE			FALSE	FALSE	FALSE	0.0838	0.005	0.00864	0.00052
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	LAB	9.695	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	2.97366	0.30672		TRUE	TRUE			FALSE	FALSE	FALSE	0.22863	0.005	0.02358	0.00052
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 4L	Routine	LAB	9.695	I15839S	Nylon Filter	Sulfate - PM2.5	Sulfate	9.10104	0.93873		TRUE	TRUE			FALSE	FALSE	FALSE	0.66145	0.011	0.06823	0.00113
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	FIELD	9.694	I15840L	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	FIELD	9.694	I15840L	Quartz Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	FIELD	9.694	I15840L	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	FIELD	9.694	I15840L	Quartz Filter		Avg ambient temp		31		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	FIELD	9.694	I15840L	Quartz Filter		Avg filter temp		31.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	FIELD	9.694	I15840L	Quartz Filter		End date			2025-07-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	FIELD	9.694	I15840L	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	FIELD	9.694	I15840L	Quartz Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	FIELD	9.694	I15840L	Quartz Filter		Max ambient temp		36.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	FIELD	9.694	I15840L	Quartz Filter		Max filter temp		37		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	FIELD	9.694	I15840L	Quartz Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	FIELD	9.694	I15840L	Quartz Filter		Min ambient temp		25.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	FIELD	9.694	I15840L	Quartz Filter		Min filter temp		25.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	FIELD	9.694	I15840L	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	FIELD	9.694	I15840L	Quartz Filter		Sample volume		9.694		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	FIELD	9.694	I15840L	Quartz Filter		Start date			2025-07-17 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	FIELD	9.694	I15840L	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.1628	0.42942		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	0.96127	0.09916		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.1268	0.01308		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.00144	0.00015		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	1.61201	0.16629		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A1121265M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.30192	0.03115		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.63793	0.47843		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	19.1805	1.97859		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.99294	0.4119		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	33.3627	3.44158		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	31.7521	3.27544		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	3.63886	0.37537		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	5.24944	0.54151		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 5M	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	33.3641	3.44173		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Avg ambient temp		31		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Avg filter temp		31.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		End date			2025-07-18 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Max ambient temp		36.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Max filter temp		37		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Min ambient temp		25.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Min filter temp		25.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Sample volume		9.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Start date			2025-07-17 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	FIELD	9.7	I15838R	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Aluminum	1.66901	0.17206		TRUE	TRUE			FALSE	FALSE	FALSE	0.18712	0.11605	0.01929	0.01196
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01461	0.0452
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Barium	0.10373	0.01069		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Bromine	0.02396	0.00247		TRUE	TRUE			FALSE	FALSE	FALSE	0.00796	0.01548	0.00082	0.0016
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02533
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Calcium	1.73568	0.17894		TRUE	TRUE			FALSE	FALSE	FALSE	0.15076	0.02533	0.01554	0.00261
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01137	0.01427
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Chlorine	1.37747	0.14201		TRUE	TRUE			FALSE	FALSE	FALSE	0.12021	0.02191	0.01239	0.00226
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Chromium	0.00904	0.00093		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Cobalt	0.00791	0.00082		TRUE	TRUE			FALSE	FALSE	FALSE	0.00468	0.00991	0.00048	0.00102

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Copper	0.04192	0.00432		TRUE	TRUE			FALSE	FALSE	FALSE	0.00625	0.0114	0.00064	0.00118
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.0241
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Iron	1.1135	0.11479		TRUE	TRUE			FALSE	FALSE	FALSE	0.09698	0.0134	0.01	0.00138
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Lead	0.00226	0.00023		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Magnesium	0.44522	0.0459		TRUE	TRUE			FALSE	FALSE	FALSE	0.05322	0.05596	0.00549	0.00577
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Manganese	0.04192	0.00432		TRUE	TRUE			FALSE	FALSE	FALSE	0.00691	0.01487	0.00071	0.00153
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Nickel	0.01774	0.00183		TRUE	TRUE			FALSE	FALSE	FALSE	0.00403	0.00936	0.00042	0.00096
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	77	7.93814		FALSE	FALSE			FALSE	FALSE	FALSE	4.25	5.5	0.43814	0.56701
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Phosphorus	0.13899	0.01433		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Potassium	1.39781	0.1441		TRUE	TRUE			FALSE	FALSE	FALSE	0.1216	0.02245	0.01254	0.00231
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Rubidium	0.01164	0.0012		TRUE	TRUE			FALSE	FALSE	FALSE	0.00775	0.01816	0.0008	0.00187
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.0017
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Silicon	4.04766	0.41728		TRUE	TRUE			FALSE	FALSE	FALSE	0.42949	0.06	0.04428	0.00619
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02292
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Sodium	3.44763	0.35543		TRUE	TRUE			FALSE	FALSE	FALSE	0.44154	0.22815	0.04552	0.02352
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Strontium	0.01876	0.00193		TRUE	TRUE			FALSE	FALSE	FALSE	0.0093	0.02155	0.00096	0.00222
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Sulfur	2.76511	0.28506		TRUE	TRUE			FALSE	FALSE	FALSE	0.24055	0.02672	0.0248	0.00275
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01143	0.0517
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Titanium	0.09775	0.01008		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Vanadium	0.01277	0.00132		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Zinc	0.01548	0.0016		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-07-17 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-17 00:00:00	A112126 3K	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Average flow		6.73		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Avg BP		729		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Avg ambient temp		30.5		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Avg filter temp		30.5		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		End date			2025-07-24 00:00:00	TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		End time			00:00:00	TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Max BP		731		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Max ambient temp		38.6		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Max filter temp		38.5		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Min BP		728		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Min ambient temp		20.2		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Min filter temp		20.6		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Run Time		24		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Sample volume		9.698		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Start date			2025-07-23 00:00:00	TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	FIELD	9.698	I15845Q	Nylon Filter		Start time			00:00:00	TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	LAB	9.698	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.29026	0.13304		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE	0.11034	0.005	0.01138	0.00052
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	LAB	9.698	I15845Q	Nylon Filter	Nitrate - PM2.5	Nitrate	5.50708	0.56786		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE	0.40747	0.008	0.04202	0.00082
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	LAB	9.698	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.25551	0.02635		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE	0.03988	0.005	0.00411	0.00052
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	LAB	9.698	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	2.65908	0.27419		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE	0.20646	0.005	0.02129	0.00052
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 4N	Routine	LAB	9.698	I15845Q	Nylon Filter	Sulfate - PM2.5	Sulfate	7.82549	0.80692		TRUE	TRUE	3, FC6		FALSE	FALSE	FALSE	0.5713	0.011	0.05891	0.00113
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Average flow		6.72		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Avg BP		729		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Avg ambient temp		30.5		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Avg filter temp		30.5		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		End date			2025-07-24 00:00:00	TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		End time			00:00:00	TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Max BP		731		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Max ambient temp		38.6		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Max filter temp		38.5		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Min BP		728		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Min ambient temp		20.2		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Min filter temp		20.6		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Run Time		24		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Sample volume		9.68		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Start date			2025-07-23 00:00:00	TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	FIELD	9.68	I15846R	Quartz Filter		Start time			00:00:00	TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.50018	0.36159		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	0.86748	0.08962		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.0322	0.00333		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.7752	0.08008		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	1.42304	0.14701		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.26337	0.02721		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.63054	0.47836		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	17.1501	1.7717		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.35132	0.44952		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	30.0199	3.10123		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	29.3721	3.03431		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	2.97681	0.30752		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.62465	0.37445		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 5O	Routine	LAB	9.68	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	30.7951	3.18132		TRUE	TRUE	3, FC7		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	FIELD	9.691	I15844P	Teflon Filter		Average flow		6.73		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	FIELD	9.691	I15844P	Teflon Filter		Avg BP		729		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Avg ambient temp		30.5		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Avg filter temp		30.5		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		End date			2025-07-24 00:00:00	TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		End time			00:00:00	TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Max BP		731		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Max ambient temp		38.6		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Max filter temp		38.5		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Min BP		728		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Min ambient temp		20.2		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Min filter temp		20.6		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Run Time		24		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Sample volume		9.691		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Start date			2025-07-23 00:00:00	TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	FIELD	9.691	I15844P	Teflon Filter		Start time			00:00:00	TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE				
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Aluminum	0.71416	0.07369		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.08955	0.11605	0.00924	0.01197
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.14171	0.43844	0.01462	0.04524
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Arsenic	0.01085	0.00112		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.00684	0.01686	0.00071	0.00174
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Barium	0.00859	0.00089		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Bromine	0.02972	0.00307		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.00843	0.01548	0.00087	0.0016
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02536
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Calcium	0.72275	0.07458		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.06332	0.02533	0.00653	0.00261
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01428
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A1121443M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Chlorine	0.43392	0.04478		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.03906	0.02191	0.00403	0.00226

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Cobalt	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.00387	0.00991	0.0004	0.00102
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Copper	0.0061	0.00063		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.00522	0.0114	0.00054	0.00118
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.02413
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Iron	0.51856	0.05351		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.04562	0.0134	0.00471	0.00138
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Magnesium	0.24973	0.02577		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.03667	0.05596	0.00378	0.00577
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Manganese	0.01582	0.00163		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.00592	0.01487	0.00061	0.00153
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Nickel	0.00633	0.00065		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.00377	0.00936	0.00039	0.00097
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	53	5.46899		FALSE	FALSE	3, FC5		FALSE	FALSE	FALSE	4	5.5	0.41275	0.56754
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Potassium	0.58263	0.06012		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.05127	0.02245	0.00529	0.00232
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Rubidium	0.00226	0.00023		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.00803	0.01816	0.00083	0.00187
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Selenium	0.00588	0.00061		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.00781	0.01653	0.00081	0.00171
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Silicon	1.98428	0.20475		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.21186	0.06	0.02186	0.00619
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Silver	0.0226	0.00233		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.13561	0.22231	0.01399	0.02294
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Sodium	3.00806	0.3104		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.38612	0.22815	0.03984	0.02354
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Strontium	0.00531	0.00055		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.00928	0.02155	0.00096	0.00222
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Sulfur	2.27921	0.23519		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.19842	0.02672	0.02047	0.00276
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Tin	0.226	0.02332		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.3847	0.50148	0.0397	0.05175
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Titanium	0.04565	0.00471		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Zinc	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-07-23 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-23 00:00:00	A112144 3M	Routine	LAB	9.691	I15844P	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE	3, FC5		FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Average flow		6.73		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Avg BP		728		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Avg ambient temp		38.5		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Avg filter temp		38.8		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		End date			2025-07-30 00:00:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		End time			00:00:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Max BP		731		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Max ambient temp		42.4		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Max filter temp		42.5		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Min BP		727		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Min ambient temp		32.4		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Min filter temp		32.8		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Run Time		12.37		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Sample volume		4.996		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Start date			2025-07-29 00:00:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	FIELD	4.996	I15851O	Nylon Filter		Start time			11:37:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	LAB	4.996	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.23895	0.04783		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.03883	0.005	0.00777	0.001
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	LAB	4.996	I15851O	Nylon Filter	Nitrate - PM2.5	Nitrate	1.72876	0.34603		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.14103	0.008	0.02823	0.0016
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	LAB	4.996	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.58593	0.11728		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.0617	0.005	0.01235	0.001
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	LAB	4.996	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.63296	0.32685		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.13431	0.005	0.02688	0.001
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 80	Routine	LAB	4.996	I15851O	Nylon Filter	Sulfate - PM2.5	Sulfate	3.41114	0.68277		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.25948	0.011	0.05194	0.0022
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 91	Routine	FIELD	4.994	I15852P	Quartz Filter		Average flow		6.73		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 91	Routine	FIELD	4.994	I15852P	Quartz Filter		Avg BP		728		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Avg ambient temp		38.5		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Avg filter temp		38.8		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		End date			2025-07-30 00:00:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		End time			00:00:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Max BP		731		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Max ambient temp		42.4		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Max filter temp		42.6		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Min BP		727		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Min ambient temp		32.4		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Min filter temp		32.7		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Run Time		12.37		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Sample volume		4.994		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Start date			2025-07-29 00:00:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	FIELD	4.994	I15852P	Quartz Filter		Start time			11:37:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	1.48146	0.29665		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	0.70571	0.14131		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.02063	0.00413		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.00048	9.6E-05		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	0.00048	9.6E-05		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.30416	0.06091		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	3.88884	0.7787		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	13.0631	2.61575		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	2.96245	0.5932		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	22.4258	4.49056		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	22.4258	4.49056		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	2.20732	0.44199		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A11215791	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.20732	0.44199		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121579 1	Routine	LAB	4.994	I15852P	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	22.4263	4.49065		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Average flow		6.72		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Avg BP		728		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Avg ambient temp		38.5		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Avg filter temp		38.8		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		End date			2025-07-30 00:00:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		End time			00:00:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Max BP		731		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Max ambient temp		42.4		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Max filter temp		42.3		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Min BP		727		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Min ambient temp		32.4		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Min filter temp		32.8		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Run Time		12.37		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Sample volume		4.989		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Start date			2025-07-29 00:00:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	FIELD	4.989	I15850N	Teflon Filter		Start time			11:37:00	TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE				
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Aluminum	0.57291	0.11483		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.07564	0.11605	0.01516	0.02326
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.14171	0.43844	0.0284	0.08788
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.00533	0.01686	0.00107	0.00338
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Barium	0.00633	0.00127		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.033	0.02752	0.00661	0.00552
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Bromine	0.00554	0.00111		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.00725	0.01548	0.00145	0.0031
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A1121577Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.06	0.24575	0.01203	0.04926

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Calcium	0.3981	0.0798		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.0357	0.02533	0.00716	0.00508
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.022	0.03103	0.00441	0.00622
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.11033	0.13838	0.02211	0.02774
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Chlorine	0.60907	0.12208		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.05395	0.02191	0.01081	0.00439
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Chromium	0.00102	0.0002		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.007	0.0161	0.0014	0.00323
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Cobalt	0.00622	0.00125		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.00433	0.00991	0.00087	0.00199
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Copper	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.00433	0.0114	0.00087	0.00228
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.08425	0.23381	0.01689	0.04687
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Iron	0.39889	0.07995		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.03536	0.0134	0.00709	0.00269
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.01567	0.03278	0.00314	0.00657
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Magnesium	0.20114	0.04032		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.03667	0.05596	0.00735	0.01122
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Manganese	0.0104	0.00208		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.00583	0.01487	0.00117	0.00298
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Nickel	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.00367	0.00936	0.00074	0.00188
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	26	5.21147		FALSE	FALSE	AG, AV		FALSE	FALSE	FALSE	4	5.5	0.80176	1.10243
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.03267	0.04401	0.00655	0.00882
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Potassium	0.32691	0.06553		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.02956	0.02245	0.00592	0.0045
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Rubidium	0.00622	0.00125		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.00804	0.01816	0.00161	0.00364
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.00633	0.01653	0.00127	0.00331
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Silicon	1.18763	0.23805		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.12838	0.06	0.02573	0.01203
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.04733	0.22231	0.00949	0.04456
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Sodium	1.07576	0.21563		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.14692	0.22815	0.02945	0.04573
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Strontium	0.01175	0.00236		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.00943	0.02155	0.00189	0.00432

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Sulfur	0.72885	0.14609		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.06459	0.02672	0.01295	0.00536
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.11085	0.50148	0.02222	0.10052
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Titanium	0.01661	0.00333		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.014	0.02926	0.00281	0.00587
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.00967	0.02396	0.00194	0.0048
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Zinc	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.01133	0.01249	0.00227	0.0025
2025-07-29 00:00:00	2025-09-22 00:00:00	Maricopa 2024-2025	PCAQD	2025-07-29 00:00:00	A112157 7Z	Routine	LAB	4.989	I15850N	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE	AG, AV		FALSE	FALSE	FALSE	0.01467	0.02668	0.00294	0.00535
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Average flow		6.73		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Avg BP		727		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Avg ambient temp		35.2		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Avg filter temp		35.3		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		End date			2025-08-05 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		End time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Max BP		729		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Max ambient temp		43		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Max filter temp		43.2		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Min BP		726		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Min ambient temp		23.2		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Min filter temp		23.1		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Run Time		24		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Sample volume		9.708		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Start date			2025-08-04 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	FIELD	9.708	I151251	Nylon Filter		Start time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	LAB	9.708	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.1655	0.01705		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.03429	0.005	0.00353	0.00052
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	LAB	9.708	I151251	Nylon Filter	Nitrate - PM2.5	Nitrate	8.12224	0.83665		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.59227	0.008	0.06101	0.00082

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	LAB	9.708	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.88273	0.09093		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.08202	0.005	0.00845	0.00052
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	LAB	9.708	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	13.7447	1.41581		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.98973	0.005	0.10195	0.00052
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 36	Routine	LAB	9.708	I151251	Nylon Filter	Sulfate - PM2.5	Sulfate	16.1067	1.65912		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	1.15673	0.011	0.11915	0.00113
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Average flow		6.73		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Avg BP		727		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Avg Flow CV		0.7		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Avg ambient temp		35.2		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Avg filter temp		35.2		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		End date			2025-08-05 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		End time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Max BP		729		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Max ambient temp		43		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Max filter temp		43.6		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Min BP		726		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Min ambient temp		23.2		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Min filter temp		22.7		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Run Time		24		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Sample volume		9.695		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Start date			2025-08-04 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	FIELD	9.695	I153144	Quartz Filter		Start time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	5.292	0.54585		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.5288	0.15769		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A11220047	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.3528	0.03639		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A11220047	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0	0		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A11220047	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.1752	0.32751		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A11220047	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.4704	0.04852		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A11220047	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.8216	0.49733		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A11220047	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	18.816	1.94079		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A11220047	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	7.2912	0.75206		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A11220047	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	38.4552	3.9665		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A11220047	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	35.28	3.63899		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	7.056	0.7278		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.9984	0.41242		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 47	Routine	LAB	9.695	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	38.4552	3.9665		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Average flow		6.73		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Avg BP		727		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Avg ambient temp		35.2		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Avg filter temp		35.3		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		End date			2025-08-05 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		End time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Max BP		729		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Max ambient temp		43		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Max filter temp		43.1		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Min BP		726		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Min ambient temp		23.2		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Min filter temp		22.3		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Run Time		24		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Sample volume		9.692		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Start date			2025-08-04 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	FIELD	9.692	I151240	Teflon Filter		Start time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Aluminum	2.52216	0.26023		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.22106	0.11605	0.02281	0.01197
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.13433	0.43844	0.01386	0.04524

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Arsenic	0.01006	0.00104		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00963	0.01686	0.00099	0.00174
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Barium	0.17956	0.01853		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Bromine	0.04588	0.00473		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00855	0.01548	0.00088	0.0016
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02536
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Calcium	4.14597	0.42777		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.29356	0.02533	0.03029	0.00261
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01428
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Chlorine	9.7632	1.00735		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.69138	0.02191	0.07133	0.00226
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Cobalt	0.0165	0.0017		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00489	0.00991	0.0005	0.00102
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Copper	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00433	0.0114	0.00045	0.00118
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02412
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Iron	1.52211	0.15705		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.10822	0.0134	0.01117	0.00138
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Lead	0.01469	0.00152		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01811	0.03278	0.00187	0.00338
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Magnesium	1.33679	0.13793		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11675	0.05596	0.01205	0.00577
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Manganese	0.05514	0.00569		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00696	0.01487	0.00072	0.00153
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Nickel	0.00463	0.00048		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	167	17.2307		FALSE	FALSE	FC5		FALSE	FALSE	FALSE	8.54181	5.5	0.88133	0.56748
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Phosphorus	0.41019	0.04232		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.03679	0.04401	0.0038	0.00454
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Potassium	2.26452	0.23365		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.16071	0.02245	0.01658	0.00232
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Rubidium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00567	0.01816	0.00059	0.00187
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Silicon	7.13934	0.73662		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.59219	0.06	0.0611	0.00619
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02294
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Sodium	16.4189	1.69407		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	1.58409	0.22815	0.16344	0.02354
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Strontium	0.07492	0.00773		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01117	0.02155	0.00115	0.00222
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Sulfur	5.02398	0.51836		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.3566	0.02672	0.03679	0.00276
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.10233	0.50148	0.01056	0.05174
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Titanium	0.13549	0.01398		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.0143	0.02926	0.00148	0.00302
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Vanadium	0.00147	0.00015		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Zinc	0.0226	0.00233		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-08-04 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-04 00:00:00	A112200 25	Routine	LAB	9.692	I151240	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Avg ambient temp		35.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Avg filter temp		35.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		End date			2025-08-11 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Max ambient temp		41.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Max filter temp		41.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Min ambient temp		27.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Min filter temp		27.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Sample volume		9.687		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Start date			2025-08-10 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	FIELD	9.687	I151488	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	LAB	9.687	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.36566	0.14098		TRUE	TRUE			FALSE	FALSE	FALSE	0.1156	0.005	0.01193	0.00052
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	LAB	9.687	I151488	Nylon Filter	Nitrate - PM2.5	Nitrate	4.60031	0.4749		TRUE	TRUE			FALSE	FALSE	FALSE	0.34342	0.008	0.03545	0.00083
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	LAB	9.687	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.58981	0.06089		TRUE	TRUE			FALSE	FALSE	FALSE	0.06196	0.005	0.0064	0.00052
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	LAB	9.687	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	3.09189	0.31918		TRUE	TRUE			FALSE	FALSE	FALSE	0.23697	0.005	0.02446	0.00052
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 6G	Routine	LAB	9.687	I151488	Nylon Filter	Sulfate - PM2.5	Sulfate	10.12	1.0447		TRUE	TRUE			FALSE	FALSE	FALSE	0.73348	0.011	0.07572	0.00114
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Avg ambient temp		35.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Avg filter temp		35.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		End date			2025-08-11 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Max ambient temp		41.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Max filter temp		41.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Min ambient temp		27.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Min filter temp		27.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Sample volume		9.686		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Start date			2025-08-10 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	FIELD	9.686	I150309	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 7H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.116	0.42494		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.6464	0.16998		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.4704	0.04856		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0	0		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.4104	0.3521		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.3528	0.03642		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.292	0.54636		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	20.6976	2.13686		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	5.7624	0.59492		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	38.4552	3.97018		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	35.0448	3.61809		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	6.2328	0.64349		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.94	0.30353		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121317H	Routine	LAB	9.686	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	38.4552	3.97018		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Avg BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Avg ambient temp		35.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Avg filter temp		35.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		End date			2025-08-11 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Max ambient temp		41.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Max filter temp		41.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Min ambient temp		27.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Min filter temp		27.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Sample volume		9.687		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A1121315F	Routine	FIELD	9.687	I151499	Teflon Filter		Start date			2025-08-10 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	FIELD	9.687	I151499	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Aluminum	4.746	0.48993		TRUE	TRUE			FALSE	FALSE	FALSE	0.40443	0.11605	0.04175	0.01198
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Antimony	0.0904	0.00933		TRUE	TRUE			FALSE	FALSE	FALSE	0.51984	0.43844	0.05366	0.04526
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Arsenic	0.00904	0.00093		TRUE	TRUE			FALSE	FALSE	FALSE	0.01008	0.01686	0.00104	0.00174
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Barium	0.34352	0.03546		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Bromine	0.03695	0.00381		TRUE	TRUE			FALSE	FALSE	FALSE	0.00822	0.01548	0.00085	0.0016
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02537
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Calcium	2.14813	0.22175		TRUE	TRUE			FALSE	FALSE	FALSE	0.15242	0.02533	0.01573	0.00261
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01428
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Chlorine	1.37295	0.14173		TRUE	TRUE			FALSE	FALSE	FALSE	0.0982	0.02191	0.01014	0.00226
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Cobalt	0.0139	0.00143		TRUE	TRUE			FALSE	FALSE	FALSE	0.00551	0.00991	0.00057	0.00102
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Copper	0.00407	0.00042		TRUE	TRUE			FALSE	FALSE	FALSE	0.00487	0.0114	0.0005	0.00118
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02414
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Iron	3.03405	0.31321		TRUE	TRUE			FALSE	FALSE	FALSE	0.21504	0.0134	0.0222	0.00138
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Lead	0.00678	0.0007		TRUE	TRUE			FALSE	FALSE	FALSE	0.01922	0.03278	0.00198	0.00338
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Magnesium	0.77179	0.07967		TRUE	TRUE			FALSE	FALSE	FALSE	0.07049	0.05596	0.00728	0.00578
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Manganese	0.10385	0.01072		TRUE	TRUE			FALSE	FALSE	FALSE	0.00955	0.01487	0.00099	0.00153
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Nickel	0.00836	0.00086		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	108	11.149		FALSE	FALSE			FALSE	FALSE	FALSE	5.6921	5.5	0.5876	0.56777
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Phosphorus	0.00565	0.00058		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Potassium	2.61934	0.2704		TRUE	TRUE			FALSE	FALSE	FALSE	0.18573	0.02245	0.01917	0.00232
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Rubidium	0.01175	0.00121		TRUE	TRUE			FALSE	FALSE	FALSE	0.00784	0.01816	0.00081	0.00187
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Silicon	11.3463	1.17129		TRUE	TRUE			FALSE	FALSE	FALSE	0.93974	0.06	0.09701	0.00619
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02295
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Sodium	3.77985	0.3902		TRUE	TRUE			FALSE	FALSE	FALSE	0.37113	0.22815	0.03831	0.02355
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Strontium	0.02486	0.00257		TRUE	TRUE			FALSE	FALSE	FALSE	0.00921	0.02155	0.00095	0.00223
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Sulfur	3.14253	0.32441		TRUE	TRUE			FALSE	FALSE	FALSE	0.22345	0.02672	0.02307	0.00276
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01144	0.05177
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Titanium	0.28589	0.02951		TRUE	TRUE			FALSE	FALSE	FALSE	0.02316	0.02926	0.00239	0.00302
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Zinc	0.02893	0.00299		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-08-10 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-10 00:00:00	A112131 5F	Routine	LAB	9.687	I151499	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Avg ambient temp		31.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Avg filter temp		31.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		End date			2025-08-17 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Max ambient temp		39.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Max filter temp		39.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Min ambient temp		23.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Min filter temp		23.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Sample volume		9.681		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Start date			2025-08-16 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	FIELD	9.681	I15836P	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	LAB	9.681	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.53438	0.15849		TRUE	TRUE			FALSE	FALSE	FALSE	0.12741	0.005	0.01316	0.00052
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	LAB	9.681	I15836P	Nylon Filter	Nitrate - PM2.5	Nitrate	5.71789	0.59063		TRUE	TRUE			FALSE	FALSE	FALSE	0.42236	0.008	0.04363	0.00083
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	LAB	9.681	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.41735	0.04311		TRUE	TRUE			FALSE	FALSE	FALSE	0.05039	0.005	0.00521	0.00052
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	LAB	9.681	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	2.92672	0.30232		TRUE	TRUE			FALSE	FALSE	FALSE	0.22532	0.005	0.02327	0.00052
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 3D	Routine	LAB	9.681	I15836P	Nylon Filter	Sulfate - PM2.5	Sulfate	11.0682	1.14329		TRUE	TRUE			FALSE	FALSE	FALSE	0.80051	0.011	0.08269	0.00114
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Avg ambient temp		31.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Avg filter temp		31.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		End date			2025-08-17 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Max ambient temp		39.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Max filter temp		39.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Min ambient temp		23.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Min filter temp		23.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Sample volume		9.693		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Start date			2025-08-16 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	FIELD	9.693	I15837Q	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.8216	0.49743		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.6464	0.16985		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.4704	0.04853		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	3.2928	0.33971		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.4104	0.35184		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.4704	0.04853		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.292	0.54596		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	20.2272	2.08678		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	5.6448	0.58236		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	35.28	3.63974		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	35.1624	3.62761		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	3.6456	0.37611		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.528	0.36397		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 4E	Routine	LAB	9.693	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	38.5728	3.97945		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Average flow		6.71		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Avg ambient temp		31.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Avg filter temp		31.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		End date			2025-08-17 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Max ambient temp		39.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Max filter temp		39.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Min ambient temp		23.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Min filter temp		23.7		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Sample volume		9.669		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Start date			2025-08-16 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	FIELD	9.669	I15835O	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Aluminum	1.24978	0.12926		TRUE	TRUE			FALSE	FALSE	FALSE	0.11733	0.11605	0.01213	0.012
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01578	0.04534
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Barium	0.06961	0.0072		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00285
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Bromine	0.01932	0.002		TRUE	TRUE			FALSE	FALSE	FALSE	0.00825	0.01548	0.00085	0.0016
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Cadmium	0.0226	0.00234		TRUE	TRUE			FALSE	FALSE	FALSE	0.19211	0.24575	0.01987	0.02542
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Calcium	0.74863	0.07743		TRUE	TRUE			FALSE	FALSE	FALSE	0.05389	0.02533	0.00557	0.00262
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00228	0.00321
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01141	0.01431
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Chlorine	0.92321	0.09548		TRUE	TRUE			FALSE	FALSE	FALSE	0.06668	0.02191	0.0069	0.00227
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Chromium	0.25685	0.02656		TRUE	TRUE			FALSE	FALSE	FALSE	0.02009	0.0161	0.00208	0.00167
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Cobalt	0.0078	0.00081		TRUE	TRUE			FALSE	FALSE	FALSE	0.00523	0.00991	0.00054	0.00102
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Copper	0.05695	0.00589		TRUE	TRUE			FALSE	FALSE	FALSE	0.00694	0.0114	0.00072	0.00118
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.00871	0.02418
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Iron	1.51985	0.15719		TRUE	TRUE			FALSE	FALSE	FALSE	0.10806	0.0134	0.01118	0.00139
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Lead	0.0113	0.00117		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00339
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Magnesium	0.42036	0.04348		TRUE	TRUE			FALSE	FALSE	FALSE	0.04143	0.05596	0.00429	0.00579
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Manganese	0.03921	0.00406		TRUE	TRUE			FALSE	FALSE	FALSE	0.00712	0.01487	0.00074	0.00154
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Nickel	0.08419	0.00871		TRUE	TRUE			FALSE	FALSE	FALSE	0.00747	0.00936	0.00077	0.00097

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	61	6.30882		FALSE	FALSE			FALSE	FALSE	FALSE	4	5.5	0.41369	0.56883
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00338	0.00455
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Potassium	0.8944	0.0925		TRUE	TRUE			FALSE	FALSE	FALSE	0.06406	0.02245	0.00663	0.00232
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Rubidium	0.01446	0.0015		TRUE	TRUE			FALSE	FALSE	FALSE	0.00854	0.01816	0.00088	0.00188
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Silicon	2.88828	0.29872		TRUE	TRUE			FALSE	FALSE	FALSE	0.24129	0.06	0.02495	0.0062
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Silver	0.0678	0.00701		TRUE	TRUE			FALSE	FALSE	FALSE	0.14698	0.22231	0.0152	0.02299
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Sodium	3.53125	0.36521		TRUE	TRUE			FALSE	FALSE	FALSE	0.34702	0.22815	0.03589	0.0236
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Strontium	0.00893	0.00092		TRUE	TRUE			FALSE	FALSE	FALSE	0.00963	0.02155	0.001	0.00223
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Sulfur	3.47814	0.35972		TRUE	TRUE			FALSE	FALSE	FALSE	0.24718	0.02672	0.02556	0.00276
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01146	0.05187
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Titanium	0.06554	0.00678		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00145	0.00303
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00248
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Zinc	0.0078	0.00081		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-08-16 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-16 00:00:00	A112131 2C	Routine	LAB	9.669	I15835O	Teflon Filter	Trace elements (33)	Zirconium	0.00113	0.00012		TRUE	TRUE			FALSE	FALSE	FALSE	0.01808	0.02668	0.00187	0.00276
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg ambient temp		35.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Avg filter temp		35.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		End date			2025-08-23 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Max ambient temp		43		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Max filter temp		43.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Min ambient temp		28.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Min filter temp		28.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Sample volume		9.692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Start date			2025-08-22 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	FIELD	9.692	I15839S	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	LAB	9.692	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.75786	0.07819		TRUE	TRUE			FALSE	FALSE	FALSE	0.07343	0.005	0.00758	0.00052
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	LAB	9.692	I15839S	Nylon Filter	Nitrate - PM2.5	Nitrate	9.61113	0.99166		TRUE	TRUE			FALSE	FALSE	FALSE	0.69751	0.008	0.07197	0.00083
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	LAB	9.692	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.56554	0.05835		TRUE	TRUE			FALSE	FALSE	FALSE	0.06032	0.005	0.00622	0.00052
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	LAB	9.692	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	10.762	1.1104		TRUE	TRUE			FALSE	FALSE	FALSE	0.77887	0.005	0.08036	0.00052
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 5X	Routine	LAB	9.692	I15839S	Nylon Filter	Sulfate - PM2.5	Sulfate	17.0827	1.76256		TRUE	TRUE			FALSE	FALSE	FALSE	1.22574	0.011	0.12647	0.00113
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Avg ambient temp		35.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Avg filter temp		35.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		End date			2025-08-23 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Max ambient temp		43		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Max filter temp		43.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Min ambient temp		28.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Min filter temp		28.1		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Sample volume		9.692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Start date			2025-08-22 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	FIELD	9.692	I15840L	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.3512	0.44895		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.4112	0.1456		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.2352	0.02427		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.7048	0.27908		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.0576	0.31548		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.588	0.06067		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	7.5264	0.77656		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	23.0496	2.37821		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	7.7616	0.80083		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	41.9832	4.33174		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	41.748	4.30747		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	3.1752	0.32761		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.94	0.30334		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 4W	Routine	LAB	9.692	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	44.8056	4.62295		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Avg ambient temp		35.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Avg filter temp		35.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		End date			2025-08-23 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Max ambient temp		43		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Max filter temp		43.4		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Min ambient temp		28.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Min filter temp		28.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Sample volume		9.68		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Start date			2025-08-22 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	FIELD	9.68	I15838R	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Aluminum	1.98541	0.2051		TRUE	TRUE			FALSE	FALSE	FALSE	0.17704	0.11605	0.01829	0.01199
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Antimony	0.1243	0.01284		TRUE	TRUE			FALSE	FALSE	FALSE	0.54247	0.43844	0.05604	0.04529
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Barium	0.21741	0.02246		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Bromine	0.03819	0.00395		TRUE	TRUE			FALSE	FALSE	FALSE	0.00857	0.01548	0.00089	0.0016
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Cadmium	0.113	0.01167		TRUE	TRUE			FALSE	FALSE	FALSE	0.18098	0.24575	0.0187	0.02539
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Calcium	2.86229	0.29569		TRUE	TRUE			FALSE	FALSE	FALSE	0.20287	0.02533	0.02096	0.00262
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.00321
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.0114	0.0143
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Chlorine	6.80599	0.7031		TRUE	TRUE			FALSE	FALSE	FALSE	0.48227	0.02191	0.04982	0.00226
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Chromium	0.00497	0.00051		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Cobalt	0.00836	0.00086		TRUE	TRUE			FALSE	FALSE	FALSE	0.00501	0.00991	0.00052	0.00102
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Copper	0.02136	0.00221		TRUE	TRUE			FALSE	FALSE	FALSE	0.00541	0.0114	0.00056	0.00118
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.0087	0.02415
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Iron	1.55262	0.16039		TRUE	TRUE			FALSE	FALSE	FALSE	0.11037	0.0134	0.0114	0.00138
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00339
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Magnesium	0.83733	0.0865		TRUE	TRUE			FALSE	FALSE	FALSE	0.07562	0.05596	0.00781	0.00578

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Manganese	0.05311	0.00549		TRUE	TRUE			FALSE	FALSE	FALSE	0.00717	0.01487	0.00074	0.00154
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Nickel	0.013	0.00134		TRUE	TRUE			FALSE	FALSE	FALSE	0.00395	0.00936	0.00041	0.00097
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	130	13.4298		FALSE	FALSE			FALSE	FALSE	FALSE	6.74463	5.5	0.69676	0.56818
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Phosphorus	0.11752	0.01214		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00338	0.00455
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Potassium	1.61251	0.16658		TRUE	TRUE			FALSE	FALSE	FALSE	0.11471	0.02245	0.01185	0.00232
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Rubidium	0.01153	0.00119		TRUE	TRUE			FALSE	FALSE	FALSE	0.00818	0.01816	0.00084	0.00188
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Selenium	0.00305	0.00032		TRUE	TRUE			FALSE	FALSE	FALSE	0.0078	0.01653	0.00081	0.00171
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Silicon	5.8986	0.60936		TRUE	TRUE			FALSE	FALSE	FALSE	0.48964	0.06	0.05058	0.0062
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02297
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Sodium	12.378	1.27872		TRUE	TRUE			FALSE	FALSE	FALSE	1.19538	0.22815	0.12349	0.02357
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Strontium	0.04554	0.0047		TRUE	TRUE			FALSE	FALSE	FALSE	0.01078	0.02155	0.00111	0.00223
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Sulfur	5.21834	0.53908		TRUE	TRUE			FALSE	FALSE	FALSE	0.37031	0.02672	0.03825	0.00276
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01145	0.05181
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Titanium	0.17854	0.01844		TRUE	TRUE			FALSE	FALSE	FALSE	0.01694	0.02926	0.00175	0.00302
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00248
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Zinc	0.02565	0.00265		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-08-22 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-22 00:00:00	A112255 6Y	Routine	LAB	9.68	I15838R	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00152	0.00276
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Avg ambient temp		33		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Avg filter temp		33.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		End date			2025-08-29 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Max ambient temp		38.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Max filter temp		39.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Min ambient temp		26.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Min filter temp		26.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Sample volume		9.693		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Start date			2025-08-28 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	FIELD	9.693	I15845Q	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	LAB	9.693	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	2.99556	0.30904		TRUE	TRUE			FALSE	FALSE	FALSE	0.23018	0.005	0.02375	0.00052
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	LAB	9.693	I15845Q	Nylon Filter	Nitrate - PM2.5	Nitrate	7.5399	0.77787		TRUE	TRUE			FALSE	FALSE	FALSE	0.55111	0.008	0.05686	0.00083
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	LAB	9.693	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.33522	0.03458		TRUE	TRUE			FALSE	FALSE	FALSE	0.045	0.005	0.00464	0.00052
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	LAB	9.693	I15845Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	3.27017	0.33737		TRUE	TRUE			FALSE	FALSE	FALSE	0.24954	0.005	0.02574	0.00052
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 8U	Routine	LAB	9.693	I15845Q	Nylon Filter	Sulfate - PM2.5	Sulfate	14.4187	1.48754		TRUE	TRUE			FALSE	FALSE	FALSE	1.03739	0.011	0.10702	0.00113
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Avg ambient temp		33		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Avg filter temp		33.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		End date			2025-08-29 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Max ambient temp		38.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Max filter temp		39.3		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Min ambient temp		26.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Min filter temp		26.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Sample volume		9.685		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Start date			2025-08-28 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	FIELD	9.685	I15846R	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.2928	0.33999		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.4112	0.14571		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.4704	0.04857		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0	0		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.7048	0.27928		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.588	0.06071		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 9V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.4688	0.46141		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122529V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	9.408	0.9714		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122529V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	3.7632	0.38856		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122529V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	23.2848	2.40421		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122529V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	20.58	2.12494		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122529V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	5.1744	0.53427		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122529V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.4696	0.25499		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122529V	Routine	LAB	9.685	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	23.2848	2.40421		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122527T	Routine	FIELD	9.698	I1584P	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122527T	Routine	FIELD	9.698	I1584P	Teflon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122527T	Routine	FIELD	9.698	I1584P	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122527T	Routine	FIELD	9.698	I1584P	Teflon Filter		Avg ambient temp		33		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122527T	Routine	FIELD	9.698	I1584P	Teflon Filter		Avg filter temp		33.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122527T	Routine	FIELD	9.698	I1584P	Teflon Filter		End date			2025-08-29 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122527T	Routine	FIELD	9.698	I1584P	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A1122527T	Routine	FIELD	9.698	I1584P	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	FIELD	9.698	I1584P	Teflon Filter		Max ambient temp		38.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	FIELD	9.698	I1584P	Teflon Filter		Max filter temp		39.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	FIELD	9.698	I1584P	Teflon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	FIELD	9.698	I1584P	Teflon Filter		Min ambient temp		26.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	FIELD	9.698	I1584P	Teflon Filter		Min filter temp		26.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	FIELD	9.698	I1584P	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	FIELD	9.698	I1584P	Teflon Filter		Sample volume		9.698		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	FIELD	9.698	I1584P	Teflon Filter		Start date			2025-08-28 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	FIELD	9.698	I1584P	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Aluminum	0.63845	0.06583		TRUE	TRUE			FALSE	FALSE	FALSE	0.07073	0.11605	0.00729	0.01197
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.13433	0.43844	0.01385	0.04521
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Arsenic	0.0148	0.00153		TRUE	TRUE			FALSE	FALSE	FALSE	0.01	0.01686	0.00103	0.00174
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Barium	0.05119	0.00528		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Bromine	0.02622	0.0027		TRUE	TRUE			FALSE	FALSE	FALSE	0.00758	0.01548	0.00078	0.0016
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02534
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Calcium	1.01395	0.10455		TRUE	TRUE			FALSE	FALSE	FALSE	0.07236	0.02533	0.00746	0.00261
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Chlorine	1.1865	0.12234		TRUE	TRUE			FALSE	FALSE	FALSE	0.08518	0.02191	0.00878	0.00226
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Cobalt	0.00271	0.00028		TRUE	TRUE			FALSE	FALSE	FALSE	0.0043	0.00991	0.00044	0.00102
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Copper	0.00599	0.00062		TRUE	TRUE			FALSE	FALSE	FALSE	0.00488	0.0114	0.0005	0.00118
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02411
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Iron	0.72862	0.07513		TRUE	TRUE			FALSE	FALSE	FALSE	0.05225	0.0134	0.00539	0.00138

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Magnesium	0.37177	0.03833		TRUE	TRUE			FALSE	FALSE	FALSE	0.03736	0.05596	0.00385	0.00577
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Manganese	0.0348	0.00359		TRUE	TRUE			FALSE	FALSE	FALSE	0.00616	0.01487	0.00064	0.00153
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Nickel	0.00384	0.0004		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00096
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	87	8.97092		FALSE	FALSE			FALSE	FALSE	FALSE	4.70771	5.5	0.48543	0.56713
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Potassium	0.72015	0.07426		TRUE	TRUE			FALSE	FALSE	FALSE	0.05174	0.02245	0.00534	0.00231
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Rubidium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00567	0.01816	0.00058	0.00187
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.0017
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Silicon	2.34249	0.24154		TRUE	TRUE			FALSE	FALSE	FALSE	0.19619	0.06	0.02023	0.00619
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02292
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Sodium	3.62504	0.37379		TRUE	TRUE			FALSE	FALSE	FALSE	0.35563	0.22815	0.03667	0.02353
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Strontium	0.01989	0.00205		TRUE	TRUE			FALSE	FALSE	FALSE	0.00893	0.02155	0.00092	0.00222
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Sulfur	4.26914	0.44021		TRUE	TRUE			FALSE	FALSE	FALSE	0.30302	0.02672	0.03125	0.00276
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11085	0.50148	0.01143	0.05171
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Titanium	0.04836	0.00499		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Vanadium	0.00893	0.00092		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Zinc	0.01413	0.00146		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-08-28 00:00:00	2025-10-14 00:00:00	Maricopa 2024-2025	PCAQD	2025-08-28 00:00:00	A112252 7T	Routine	LAB	9.698	I1584P	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Avg ambient temp		29.9		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Avg filter temp		30		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		End date			2025-09-04 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Max ambient temp		38.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Max filter temp		38.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Min ambient temp		21.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Min filter temp		21.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Sample volume		9.675		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Start date			2025-09-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	FIELD	9.675	I15851O	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	LAB	9.675	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.85434	0.0883		TRUE	TRUE			FALSE	FALSE	FALSE	0.08006	0.005	0.00828	0.00052
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	LAB	9.675	I15851O	Nylon Filter	Nitrate - PM2.5	Nitrate	4.51475	0.46664		TRUE	TRUE			FALSE	FALSE	FALSE	0.33738	0.008	0.03487	0.00083
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	LAB	9.675	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.65508	0.06771		TRUE	TRUE			FALSE	FALSE	FALSE	0.0664	0.005	0.00686	0.00052
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	LAB	9.675	I15851O	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.38311	0.14296		TRUE	TRUE			FALSE	FALSE	FALSE	0.11682	0.005	0.01207	0.00052
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 1P	Routine	LAB	9.675	I15851O	Nylon Filter	Sulfate - PM2.5	Sulfate	7.26474	0.75088		TRUE	TRUE			FALSE	FALSE	FALSE	0.53167	0.011	0.05495	0.00114
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Avg ambient temp		29.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Avg filter temp		30		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		End date			2025-09-04 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Max ambient temp		38.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Max filter temp		38.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Min ambient temp		21.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Min filter temp		21.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Sample volume		9.671		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Start date			2025-09-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	FIELD	9.671	I26963P	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.49119	0.361		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.19057	0.12311		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.52121	0.05389		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	0.00644	0.00067		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.13047	0.22029		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.34354	0.03552		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	3.66564	0.37903		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	16.6014	1.71662		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.57816	0.47339		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	30.3853	3.1419		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	28.2613	2.92227		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	5.19653	0.53733		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.07251	0.3177		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 2Q	Routine	LAB	9.671	I26963P	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	30.3917	3.14256		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 0O	Routine	FIELD	9.673	I15850N	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 0O	Routine	FIELD	9.673	I15850N	Teflon Filter		Avg BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 0O	Routine	FIELD	9.673	I15850N	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A112253 0O	Routine	FIELD	9.673	I15850N	Teflon Filter		Avg ambient temp		29.9		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		Avg filter temp		30		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		End date			2025-09-04 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		Max BP		731		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		Max ambient temp		38.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		Max filter temp		38.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		Min BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		Min ambient temp		21.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		Min filter temp		21.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		Sample volume		9.673		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		Start date			2025-09-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	FIELD	9.673	I15850N	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Aluminum	2.07694	0.21472		TRUE	TRUE			FALSE	FALSE	FALSE	0.18352	0.11605	0.01897	0.012
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01465	0.04533
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Arsenic	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00533	0.01686	0.00055	0.00174
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Barium	0.16668	0.01723		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00285
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Bromine	0.01944	0.00201		TRUE	TRUE			FALSE	FALSE	FALSE	0.00736	0.01548	0.00076	0.0016
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Cadmium	0.0791	0.00818		TRUE	TRUE			FALSE	FALSE	FALSE	0.18089	0.24575	0.0187	0.02541
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Calcium	2.26339	0.23399		TRUE	TRUE			FALSE	FALSE	FALSE	0.16054	0.02533	0.0166	0.00262
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.00321
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01141	0.01431
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Chlorine	0.70173	0.07255		TRUE	TRUE			FALSE	FALSE	FALSE	0.05116	0.02191	0.00529	0.00227
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Chromium	0.00068	7E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Cobalt	0.00305	0.00032		TRUE	TRUE			FALSE	FALSE	FALSE	0.00475	0.00991	0.00049	0.00102

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Copper	0.00475	0.00049		TRUE	TRUE			FALSE	FALSE	FALSE	0.00498	0.0114	0.00052	0.00118
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00734	0.02417
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Iron	1.59669	0.16507		TRUE	TRUE			FALSE	FALSE	FALSE	0.11347	0.0134	0.01173	0.00138
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Lead	0.01582	0.00164		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00339
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Magnesium	0.46895	0.04848		TRUE	TRUE			FALSE	FALSE	FALSE	0.04499	0.05596	0.00465	0.00579
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Manganese	0.05492	0.00568		TRUE	TRUE			FALSE	FALSE	FALSE	0.00686	0.01487	0.00071	0.00154
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Nickel	0.0104	0.00107		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	101	10.4414		FALSE	FALSE			FALSE	FALSE	FALSE	5.3612	5.5	0.55424	0.56859
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Phosphorus	0.19775	0.02044		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00338	0.00455
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Potassium	1.7063	0.1764		TRUE	TRUE			FALSE	FALSE	FALSE	0.1213	0.02245	0.01254	0.00232
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Rubidium	0.00283	0.00029		TRUE	TRUE			FALSE	FALSE	FALSE	0.00757	0.01816	0.00078	0.00188
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.00171
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Silicon	5.70763	0.59006		TRUE	TRUE			FALSE	FALSE	FALSE	0.47392	0.06	0.04899	0.0062
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Silver	0.1017	0.01051		TRUE	TRUE			FALSE	FALSE	FALSE	0.12451	0.22231	0.01287	0.02298
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Sodium	1.81365	0.1875		TRUE	TRUE			FALSE	FALSE	FALSE	0.18675	0.22815	0.01931	0.02359
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Strontium	0.01187	0.00123		TRUE	TRUE			FALSE	FALSE	FALSE	0.00897	0.02155	0.00093	0.00223
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Sulfur	2.27921	0.23563		TRUE	TRUE			FALSE	FALSE	FALSE	0.16237	0.02672	0.01679	0.00276
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Tin	0.0113	0.00117		TRUE	TRUE			FALSE	FALSE	FALSE	0.3616	0.50148	0.03738	0.05184
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Titanium	0.1495	0.01546		TRUE	TRUE			FALSE	FALSE	FALSE	0.01515	0.02926	0.00157	0.00303
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Vanadium	0.00339	0.00035		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00248
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Zinc	0.02113	0.00218		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-09-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-03 00:00:00	A1122530O	Routine	LAB	9.673	I15850N	Teflon Filter	Trace elements (33)	Zirconium	0.00452	0.00047		TRUE	TRUE			FALSE	FALSE	FALSE	0.01582	0.02668	0.00164	0.00276

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Avg ambient temp		33.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Avg filter temp		33.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		End date			2025-09-10 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Max ambient temp		40.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Max filter temp		40.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Min BP		723		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Min ambient temp		25.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Min filter temp		25.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Sample volume		9.691		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Start date			2025-09-09 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	FIELD	9.691	I151251	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	LAB	9.691	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.45985	0.04745		TRUE	TRUE			FALSE	FALSE	FALSE	0.05322	0.005	0.00549	0.00052
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	LAB	9.691	I151251	Nylon Filter	Nitrate - PM2.5	Nitrate	6.27612	0.64762		TRUE	TRUE			FALSE	FALSE	FALSE	0.4618	0.008	0.04765	0.00083
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	LAB	9.691	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.63851	0.06589		TRUE	TRUE			FALSE	FALSE	FALSE	0.06527	0.005	0.00673	0.00052
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	LAB	9.691	I151251	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	5.24453	0.54117		TRUE	TRUE			FALSE	FALSE	FALSE	0.38892	0.005	0.04013	0.00052
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115389	Routine	LAB	9.691	I151251	Nylon Filter	Sulfate - PM2.5	Sulfate	8.91471	0.9199		TRUE	TRUE			FALSE	FALSE	FALSE	0.64828	0.011	0.0669	0.00114
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115387	Routine	FIELD	9.685	I153144	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115387	Routine	FIELD	9.685	I153144	Quartz Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115387	Routine	FIELD	9.685	I153144	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A1115387	Routine	FIELD	9.685	I153144	Quartz Filter		Avg ambient temp		33.7		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		Avg filter temp		33.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		End date			2025-09-10 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		Max ambient temp		40.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		Max filter temp		40.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		Min BP		723		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		Min ambient temp		25.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		Min filter temp		25.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		Sample volume		9.685		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		Start date			2025-09-09 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	FIELD	9.685	I153144	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.1174	0.32188		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.52198	0.15715		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.40314	0.04163		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	3.3104	0.34181		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111538 87	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.07291	0.31729		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A11153887	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.30826	0.03183		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A11153887	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.87955	0.50383		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A11153887	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	16.3381	1.68695		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A11153887	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.4496	0.45943		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A11153887	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	27.7076	2.86088		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A11153887	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	27.9451	2.8854		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A11153887	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	1.73213	0.17885		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A11153887	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	1.96962	0.20337		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A11153887	Routine	LAB	9.685	I153144	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	31.018	3.20269		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A11153901	Routine	FIELD	9.695	I151240	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A11153901	Routine	FIELD	9.695	I151240	Teflon Filter		Avg BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Avg ambient temp		33.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Avg filter temp		33.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		End date			2025-09-10 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Max BP		728		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Max ambient temp		40.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Max filter temp		40.4		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Min BP		723		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Min ambient temp		25.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Min filter temp		25.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Sample volume		9.695		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Start date			2025-09-09 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	FIELD	9.695	I151240	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Aluminum	1.46787	0.1514		TRUE	TRUE			FALSE	FALSE	FALSE	0.13431	0.11605	0.01385	0.01197
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.01462	0.04522
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Arsenic	0.01446	0.00149		TRUE	TRUE			FALSE	FALSE	FALSE	0.01033	0.01686	0.00107	0.00174
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Barium	0.08362	0.00863		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Bromine	0.02678	0.00276		TRUE	TRUE			FALSE	FALSE	FALSE	0.00791	0.01548	0.00082	0.0016
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00619	0.02535
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Calcium	2.16282	0.22309		TRUE	TRUE			FALSE	FALSE	FALSE	0.15345	0.02533	0.01583	0.00261
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01138	0.01427
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Chlorine	2.68375	0.27682		TRUE	TRUE			FALSE	FALSE	FALSE	0.19076	0.02191	0.01968	0.00226

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Chromium	0.00339	0.00035		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Cobalt	0.00068	7E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.00463	0.00991	0.00048	0.00102
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Copper	0.01537	0.00159		TRUE	TRUE			FALSE	FALSE	FALSE	0.0052	0.0114	0.00054	0.00118
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.02412
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Iron	1.00129	0.10328		TRUE	TRUE			FALSE	FALSE	FALSE	0.07148	0.0134	0.00737	0.00138
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Lead	0.00678	0.0007		TRUE	TRUE			FALSE	FALSE	FALSE	0.01922	0.03278	0.00198	0.00338
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Magnesium	0.95824	0.09884		TRUE	TRUE			FALSE	FALSE	FALSE	0.08452	0.05596	0.00872	0.00577
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Manganese	0.02	0.00206		TRUE	TRUE			FALSE	FALSE	FALSE	0.00593	0.01487	0.00061	0.00153
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Nickel	0.01333	0.00138		TRUE	TRUE			FALSE	FALSE	FALSE	0.00385	0.00936	0.0004	0.00096
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	85	8.76741		FALSE	FALSE			FALSE	FALSE	FALSE	4.61546	5.5	0.47607	0.5673
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Phosphorus	0.01582	0.00163		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Potassium	1.0648	0.10983		TRUE	TRUE			FALSE	FALSE	FALSE	0.07606	0.02245	0.00785	0.00232
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Rubidium	0.00407	0.00042		TRUE	TRUE			FALSE	FALSE	FALSE	0.00769	0.01816	0.00079	0.00187
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Selenium	0.00249	0.00026		TRUE	TRUE			FALSE	FALSE	FALSE	0.00746	0.01653	0.00077	0.00171
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Silicon	3.73465	0.38521		TRUE	TRUE			FALSE	FALSE	FALSE	0.31107	0.06	0.03209	0.00619
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00488	0.02293
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Sodium	6.55852	0.67648		TRUE	TRUE			FALSE	FALSE	FALSE	0.63742	0.22815	0.06575	0.02353
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Strontium	0.01842	0.0019		TRUE	TRUE			FALSE	FALSE	FALSE	0.00958	0.02155	0.00099	0.00222
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Sulfur	2.63968	0.27227		TRUE	TRUE			FALSE	FALSE	FALSE	0.18796	0.02672	0.01939	0.00276
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Tin	0.226	0.02331		TRUE	TRUE			FALSE	FALSE	FALSE	0.37324	0.50148	0.0385	0.05173
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Titanium	0.08159	0.00842		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Zinc	0.03379	0.00348		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-09-09 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-09 00:00:00	A111539 01	Routine	LAB	9.695	I151240	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Avg Flow CV		0.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Avg ambient temp		29.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Avg filter temp		29.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		End date			2025-09-16 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Max ambient temp		38		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Max filter temp		37.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Min ambient temp		19.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Min filter temp		20.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Sample volume		9.692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Start date			2025-09-15 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	FIELD	9.692	I151488	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	LAB	9.692	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	0.77145	0.0796		TRUE	TRUE			FALSE	FALSE	FALSE	0.07436	0.005	0.00767	0.00052
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	LAB	9.692	I151488	Nylon Filter	Nitrate - PM2.5	Nitrate	2.91972	0.30125		TRUE	TRUE			FALSE	FALSE	FALSE	0.22483	0.008	0.0232	0.00083
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	LAB	9.692	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.56423	0.05822		TRUE	TRUE			FALSE	FALSE	FALSE	0.06023	0.005	0.00621	0.00052
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	LAB	9.692	I151488	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	2.02424	0.20886		TRUE	TRUE			FALSE	FALSE	FALSE	0.16178	0.005	0.01669	0.00052
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 93	Routine	LAB	9.692	I151488	Nylon Filter	Sulfate - PM2.5	Sulfate	5.71859	0.59003		TRUE	TRUE			FALSE	FALSE	FALSE	0.42241	0.011	0.04358	0.00113
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111562 0W	Routine	FIELD	9.707	I150309	Quartz Filter		Average flow		6.74		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111562 0W	Routine	FIELD	9.707	I150309	Quartz Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Avg ambient temp		29.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Avg filter temp		29.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		End date			2025-09-16 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Max ambient temp		38		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Max filter temp		37.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Min ambient temp		19.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Min filter temp		20.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Sample volume		9.707		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Start date			2025-09-15 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	FIELD	9.707	I150309	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.30468	0.34044		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.68979	0.17408		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.37988	0.03913		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	2.82188	0.29071		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.24972	0.33478		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.36856	0.03797		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	6.56572	0.67639		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	18.751	1.93169		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	5.14804	0.53034		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	33.3857	3.43935		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	32.9579	3.39527		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	2.55247	0.26295		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.12463	0.21888		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A1115620W	Routine	LAB	9.707	I150309	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	36.2076	3.73005		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Avg ambient temp		29.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Avg filter temp		29.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		End date			2025-09-16 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Max BP		730		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Max ambient temp		38		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Max filter temp		37.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Min BP		726		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Min ambient temp		19.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Min filter temp		20.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Sample volume		9.683		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Start date			2025-09-15 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	FIELD	9.683	I151499	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Aluminum	1.9888	0.20539		TRUE	TRUE			FALSE	FALSE	FALSE	0.17617	0.11605	0.01819	0.01198
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.15261	0.43844	0.01576	0.04528
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Arsenic	0.00023	2.3E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.01107	0.01686	0.00114	0.00174
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Barium	0.11707	0.01209		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Bromine	0.0261	0.0027		TRUE	TRUE			FALSE	FALSE	FALSE	0.00856	0.01548	0.00088	0.0016
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.0062	0.02538

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Calcium	1.98428	0.20492		TRUE	TRUE			FALSE	FALSE	FALSE	0.14087	0.02533	0.01455	0.00262
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01429
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Chlorine	1.01926	0.10526		TRUE	TRUE			FALSE	FALSE	FALSE	0.07334	0.02191	0.00757	0.00226
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Cobalt	0.00068	7E-05		TRUE	TRUE			FALSE	FALSE	FALSE	0.00486	0.00991	0.0005	0.00102
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Copper	0.03141	0.00324		TRUE	TRUE			FALSE	FALSE	FALSE	0.00576	0.0114	0.00059	0.00118
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.08425	0.23381	0.0087	0.02415
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Iron	1.27803	0.13199		TRUE	TRUE			FALSE	FALSE	FALSE	0.09103	0.0134	0.0094	0.00138
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Lead	0.01356	0.0014		TRUE	TRUE			FALSE	FALSE	FALSE	0.02149	0.03278	0.00222	0.00338
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Magnesium	0.5198	0.05368		TRUE	TRUE			FALSE	FALSE	FALSE	0.0493	0.05596	0.00509	0.00578
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Manganese	0.03899	0.00403		TRUE	TRUE			FALSE	FALSE	FALSE	0.0067	0.01487	0.00069	0.00154
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Nickel	0.0078	0.00081		TRUE	TRUE			FALSE	FALSE	FALSE	0.00388	0.00936	0.0004	0.00097
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	86	8.88154		FALSE	FALSE			FALSE	FALSE	FALSE	4.66154	5.5	0.48142	0.56801
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Phosphorus	0.07797	0.00805		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Potassium	1.27803	0.13199		TRUE	TRUE			FALSE	FALSE	FALSE	0.09108	0.02245	0.00941	0.00232
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Rubidium	0.00689	0.00071		TRUE	TRUE			FALSE	FALSE	FALSE	0.0086	0.01816	0.00089	0.00188
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Selenium	0.00904	0.00093		TRUE	TRUE			FALSE	FALSE	FALSE	0.00839	0.01653	0.00087	0.00171
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Silicon	5.13133	0.52993		TRUE	TRUE			FALSE	FALSE	FALSE	0.4263	0.06	0.04403	0.0062
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Silver	0.0339	0.0035		TRUE	TRUE			FALSE	FALSE	FALSE	0.13562	0.22231	0.01401	0.02296
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Sodium	2.88941	0.2984		TRUE	TRUE			FALSE	FALSE	FALSE	0.28745	0.22815	0.02969	0.02356
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A11156182	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Strontium	0.01582	0.00163		TRUE	TRUE			FALSE	FALSE	FALSE	0.01001	0.02155	0.00103	0.00223

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 82	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Sulfur	1.69161	0.1747		TRUE	TRUE			FALSE	FALSE	FALSE	0.12102	0.02672	0.0125	0.00276
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 82	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Tin	0.1582	0.01634		TRUE	TRUE			FALSE	FALSE	FALSE	0.40695	0.50148	0.04203	0.05179
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 82	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Titanium	0.113	0.01167		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00145	0.00302
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 82	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 82	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Zinc	0.01401	0.00145		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-09-15 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-15 00:00:00	A111561 82	Routine	LAB	9.683	I151499	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00152	0.00276
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Avg Flow CV		0.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Avg ambient temp		29		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Avg filter temp		29.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		End date			2025-09-22 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Max ambient temp		36.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Max filter temp		36.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Min ambient temp		23.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Min filter temp		23.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Sample volume		9.695		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Start date			2025-09-21 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	FIELD	9.695	I15836P	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	LAB	9.695	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.0603	0.10937		TRUE	TRUE			FALSE	FALSE	FALSE	0.09432	0.005	0.00973	0.00052
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 7Z	Routine	LAB	9.695	I15836P	Nylon Filter	Nitrate - PM2.5	Nitrate	7.46876	0.77037		TRUE	TRUE			FALSE	FALSE	FALSE	0.54609	0.008	0.05633	0.00083

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115607Z	Routine	LAB	9.695	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.66936	0.06904		TRUE	TRUE			FALSE	FALSE	FALSE	0.06737	0.005	0.00695	0.00052
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115607Z	Routine	LAB	9.695	I15836P	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	6.29437	0.64924		TRUE	TRUE			FALSE	FALSE	FALSE	0.46309	0.005	0.04777	0.00052
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115607Z	Routine	LAB	9.695	I15836P	Nylon Filter	Sulfate - PM2.5	Sulfate	12.8914	1.32969		TRUE	TRUE			FALSE	FALSE	FALSE	0.9294	0.011	0.09586	0.00113
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Avg ambient temp		29		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Avg filter temp		29.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		End date			2025-09-22 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Max ambient temp		36.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Max filter temp		36.7		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Min ambient temp		23.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Min filter temp		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Sample volume		9.688		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Start date			2025-09-21 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	FIELD	9.688	I15837Q	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.42049	0.35306		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A1115608 0	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.43839	0.14847		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.77643	0.08014		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	3.58085	0.36962		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.30116	0.34075		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.56315	0.05813		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	6.80966	0.7029		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	20.5958	2.12591		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	5.52408	0.5702		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	35.5472	3.6692		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	35.8269	3.69806		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	2.05445	0.21206		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.33414	0.24093		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A11156080	Routine	LAB	9.688	I15837Q	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	39.128	4.03881		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Average flow		6.72		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Avg ambient temp		29		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Avg filter temp		29		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		End date			2025-09-22 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Max ambient temp		36.3		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Max filter temp		36.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Min BP		725		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Min ambient temp		23.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Min filter temp		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Sample volume		9.683		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Start date			2025-09-21 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	FIELD	9.683	I15835O	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Aluminum	1.93004	0.19932		TRUE	TRUE			FALSE	FALSE	FALSE	0.1723	0.11605	0.01779	0.01198
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.13433	0.43844	0.01387	0.04528

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Arsenic	0.02554	0.00264		TRUE	TRUE			FALSE	FALSE	FALSE	0.00669	0.01686	0.00069	0.00174
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Barium	0.14735	0.01522		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.00341	0.00284
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Bromine	0.04181	0.00432		TRUE	TRUE			FALSE	FALSE	FALSE	0.00813	0.01548	0.00084	0.0016
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.0062	0.02538
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Calcium	3.4917	0.3606		TRUE	TRUE			FALSE	FALSE	FALSE	0.2473	0.02533	0.02554	0.00262
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01139	0.01429
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Chlorine	3.94031	0.40693		TRUE	TRUE			FALSE	FALSE	FALSE	0.27966	0.02191	0.02888	0.00226
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Cobalt	0.00158	0.00016		TRUE	TRUE			FALSE	FALSE	FALSE	0.00463	0.00991	0.00048	0.00102
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Copper	0.0104	0.00107		TRUE	TRUE			FALSE	FALSE	FALSE	0.00491	0.0114	0.00051	0.00118
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00733	0.02415
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Iron	1.48753	0.15362		TRUE	TRUE			FALSE	FALSE	FALSE	0.10578	0.0134	0.01092	0.00138
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Lead	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01567	0.03278	0.00162	0.00338
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Magnesium	0.73337	0.07574		TRUE	TRUE			FALSE	FALSE	FALSE	0.06707	0.05596	0.00693	0.00578
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Manganese	0.04113	0.00425		TRUE	TRUE			FALSE	FALSE	FALSE	0.00625	0.01487	0.00065	0.00154
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Nickel	0.00305	0.00032		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00097
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	109	11.2568		FALSE	FALSE			FALSE	FALSE	FALSE	5.73956	5.5	0.59275	0.56801
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Phosphorus	0.19775	0.02042		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Potassium	1.89614	0.19582		TRUE	TRUE			FALSE	FALSE	FALSE	0.13467	0.02245	0.01391	0.00232
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Rubidium	0.01119	0.00116		TRUE	TRUE			FALSE	FALSE	FALSE	0.0075	0.01816	0.00077	0.00188
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Selenium	0.00328	0.00034		TRUE	TRUE			FALSE	FALSE	FALSE	0.00712	0.01653	0.00074	0.00171

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Silicon	6.0342	0.62317		TRUE	TRUE			FALSE	FALSE	FALSE	0.5009	0.06	0.05173	0.0062
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Silver	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.04733	0.22231	0.00489	0.02296
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Sodium	8.00153	0.82635		TRUE	TRUE			FALSE	FALSE	FALSE	0.77586	0.22815	0.08013	0.02356
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Strontium	0.04384	0.00453		TRUE	TRUE			FALSE	FALSE	FALSE	0.00999	0.02155	0.00103	0.00223
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Sulfur	4.16405	0.43004		TRUE	TRUE			FALSE	FALSE	FALSE	0.2957	0.02672	0.03054	0.00276
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Tin	0.4294	0.04435		TRUE	TRUE			FALSE	FALSE	FALSE	0.35161	0.50148	0.03631	0.05179
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Titanium	0.11357	0.01173		TRUE	TRUE			FALSE	FALSE	FALSE	0.014	0.02926	0.00145	0.00302
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Vanadium	0.00588	0.00061		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Zinc	0.01514	0.00156		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-09-21 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-21 00:00:00	A111560 6Y	Routine	LAB	9.683	I15835O	Teflon Filter	Trace elements (33)	Zirconium	0.00339	0.00035		TRUE	TRUE			FALSE	FALSE	FALSE	0.01582	0.02668	0.00163	0.00276
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Average flow		6.72		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Avg BP		727		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Avg ambient temp		22.1		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Avg filter temp		22.1		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		End date			2025-09-28 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		End time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Max BP		729		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Max ambient temp		28.6		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Max filter temp		28.5		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Min BP		726		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Min ambient temp		17.2		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Min filter temp		17.3		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Run Time		24		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Sample volume		9.68		TRUE	TRUE	FC6		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Start date			2025-09-27 00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	FIELD	9.68	I15839S	Nylon Filter		Start time			00:00:00	TRUE	TRUE	FC6		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	LAB	9.68	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	2.91766	0.30141		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.22468	0.005	0.02321	0.00052
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	LAB	9.68	I15839S	Nylon Filter	Nitrate - PM2.5	Nitrate	12.5432	1.29578		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.90479	0.008	0.09347	0.00083
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	LAB	9.68	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	0.36085	0.03728		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.04667	0.005	0.00482	0.00052
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	LAB	9.68	I15839S	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	1.112	0.11488		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.09792	0.005	0.01012	0.00052
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 60	Routine	LAB	9.68	I15839S	Nylon Filter	Sulfate - PM2.5	Sulfate	6.76656	0.69902		TRUE	TRUE	FC6		FALSE	FALSE	FALSE	0.49646	0.011	0.05129	0.00114
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Average flow		6.73		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Avg BP		727		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Avg ambient temp		22.1		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Avg filter temp		22.1		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		End date			2025-09-28 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		End time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Max BP		729		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Max ambient temp		28.6		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Max filter temp		28.5		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Min BP		726		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Min ambient temp		17.2		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Min filter temp		17.3		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Run Time		24		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Sample volume		9.694		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Start date			2025-09-27 00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	FIELD	9.694	I15840L	Quartz Filter		Start time			00:00:00	TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	4.20353	0.43362		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A11271271	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.49033	0.15374		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A11271271	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.37149	0.03832		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A11271271	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	3.68824	0.38047		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A11271271	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	2.96268	0.30562		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A11271271	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.26146	0.02697		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A11271271	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	4.5004	0.46425		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A11271271	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	15.411	1.58974		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A11271271	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.61806	0.47638		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A11271271	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	27.168	2.80256		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	27.8935	2.8774		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	2.37712	0.24522		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	3.10267	0.32006		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 71	Routine	LAB	9.694	I15840L	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	30.8562	3.18302		TRUE	TRUE	FC7		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Average flow		6.73		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Avg BP		727		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Avg ambient temp		22.1		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Avg filter temp		22.2		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		End date			2025-09-28 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		End time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Max BP		729		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Max ambient temp		28.6		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Max filter temp		28.5		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Min BP		726		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Min ambient temp		17.2		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Min filter temp		17.2		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Run Time		24		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Sample volume		9.7		TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Start date			2025-09-27 00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	FIELD	9.7	I15838R	Teflon Filter		Start time			00:00:00	TRUE	TRUE	FC5		FALSE	FALSE	FALSE				
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Aluminum	1.03621	0.10683		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.09887	0.11605	0.01019	0.01196
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.15261	0.43844	0.01573	0.0452
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Arsenic	0.00927	0.00096		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01064	0.01686	0.0011	0.00174
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Barium	0.0565	0.00582		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Bromine	0.02882	0.00297		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00817	0.01548	0.00084	0.0016
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Cadmium	0.0113	0.00116		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.1808	0.24575	0.01864	0.02533
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Calcium	0.88569	0.09131		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.06342	0.02533	0.00654	0.00261
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11033	0.13838	0.01137	0.01427
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Chlorine	0.23493	0.02422		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01908	0.02191	0.00197	0.00226
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Chromium	0.01763	0.00182		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Cobalt	0.00011	1.2E-05		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00452	0.00991	0.00047	0.00102
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Copper	0.01819	0.00188		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00525	0.0114	0.00054	0.00118
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.08425	0.23381	0.00869	0.0241
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Iron	0.8275	0.08531		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.05924	0.0134	0.00611	0.00138
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Lead	0.01582	0.00163		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.02037	0.03278	0.0021	0.00338
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Magnesium	0.26103	0.02691		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.03667	0.05596	0.00378	0.00577
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Manganese	0.02882	0.00297		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00611	0.01487	0.00063	0.00153
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Nickel	0.0165	0.0017		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00402	0.00936	0.00041	0.00096
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	71	7.31959		FALSE	FALSE	FC5		FALSE	FALSE	FALSE	4	5.5	0.41237	0.56701
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Phosphorus	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Potassium	0.65258	0.06728		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.04707	0.02245	0.00485	0.00231
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Rubidium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00567	0.01816	0.00058	0.00187
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.0017
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Silicon	2.05886	0.21225		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.17289	0.06	0.01782	0.00619
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Silver	0.0678	0.00699		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.13568	0.22231	0.01399	0.02292
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Sodium	1.35487	0.13968		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.14438	0.22815	0.01488	0.02352
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Strontium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00733	0.02155	0.00076	0.00222
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Sulfur	2.42498	0.25		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.17261	0.02672	0.0178	0.00275
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Tin	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.11085	0.50148	0.01143	0.0517
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Titanium	0.05198	0.00536		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.014	0.02926	0.00144	0.00302
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Vanadium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Zinc	0.01955	0.00202		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-09-27 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-09-27 00:00:00	A112712 5Z	Routine	LAB	9.7	I15838R	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE	FC5		FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Avg ambient temp		29.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Avg filter temp		29.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		End date			2025-10-04 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Max ambient temp		37.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Max filter temp		38.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Min BP		24		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Min ambient temp		19.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Min filter temp		19.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Sample volume		9.69		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Start date			2025-10-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	FIELD	9.69	I26956Q	Nylon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	LAB	9.69	I26956Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Ammonium	1.13202	0.11682		TRUE	TRUE			FALSE	FALSE	FALSE	0.09931	0.005	0.01025	0.00052
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	LAB	9.69	I26956Q	Nylon Filter	Nitrate - PM2.5	Nitrate	3.73175	0.38511		TRUE	TRUE			FALSE	FALSE	FALSE	0.28211	0.008	0.02911	0.00083
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	LAB	9.69	I26956Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Potassium	1.14483	0.11815		TRUE	TRUE			FALSE	FALSE	FALSE	0.1002	0.005	0.01034	0.00052
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	LAB	9.69	I26956Q	Nylon Filter	Cations - PM2.5 (NH4, Na, K)	Sodium	3.86731	0.3991		TRUE	TRUE			FALSE	FALSE	FALSE	0.29167	0.005	0.0301	0.00052
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 8B	Routine	LAB	9.69	I26956Q	Nylon Filter	Sulfate - PM2.5	Sulfate	6.4194	0.66248		TRUE	TRUE			FALSE	FALSE	FALSE	0.47193	0.011	0.0487	0.00114
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Average flow		6.74		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Avg Flow CV		0.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Avg ambient temp		29.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Avg filter temp		29.2		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		End date			2025-10-04 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Max ambient temp		37.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Max filter temp		38		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Min ambient temp		19.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Min filter temp		19.6		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Sample volume		9.704		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Start date			2025-10-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	FIELD	9.704	I15846R	Quartz Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E1 IMPROVE	3.81628	0.39327		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E2 IMPROVE	1.80423	0.18593		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	E3 IMPROVE	0.45482	0.04687		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOR	3.25675	0.33561		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	EC IMPROVE TOT	3.08277	0.31768		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O1 IMPROVE	0.37159	0.03829		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O2 IMPROVE	5.37887	0.55429		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O3 IMPROVE	18.3017	1.88599		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	O4 IMPROVE	4.98205	0.5134		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOR	31.8528	3.28244		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OC IMPROVE TOT	32.0267	3.30037		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOR	2.81858	0.29046		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	OP IMPROVE TOT	2.99256	0.30838		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 69	Routine	LAB	9.704	I15846R	Quartz Filter	Organic and elemental carbon IMPROVE_A	TC IMPROVE	35.1095	3.61805		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Average flow		6.73		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Avg BP		727		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Avg Flow CV		0.8		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Avg ambient temp		29.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Avg filter temp		29.1		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		End date			2025-10-04 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		End time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Max BP		729		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Max ambient temp		37.9		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Max filter temp		38		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Min BP		724		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Min ambient temp		19.5		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Min filter temp		19.5		TRUE	TRUE			FALSE	FALSE	FALSE				

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Run Time		24		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Sample volume		9.703		TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Start date			2025-10-03 00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	FIELD	9.703	I15844P	Teflon Filter		Start time			00:00:00	TRUE	TRUE			FALSE	FALSE	FALSE				
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Aluminum	3.33576	0.34379		TRUE	TRUE			FALSE	FALSE	FALSE	0.28734	0.11605	0.02961	0.01196
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Antimony	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.14171	0.43844	0.0146	0.04519
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Arsenic	0.00735	0.00076		TRUE	TRUE			FALSE	FALSE	FALSE	0.00996	0.01686	0.00103	0.00174
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Barium	0.21278	0.02193		TRUE	TRUE			FALSE	FALSE	FALSE	0.033	0.02752	0.0034	0.00284
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Bromine	0.02	0.00206		TRUE	TRUE			FALSE	FALSE	FALSE	0.0077	0.01548	0.00079	0.00159
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Cadmium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.06	0.24575	0.00618	0.02533
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Calcium	4.53356	0.46723		TRUE	TRUE			FALSE	FALSE	FALSE	0.32099	0.02533	0.03308	0.00261
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Cerium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.022	0.03103	0.00227	0.0032
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Cesium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.11033	0.13838	0.01137	0.01426
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Chlorine	2.81596	0.29022		TRUE	TRUE			FALSE	FALSE	FALSE	0.20006	0.02191	0.02062	0.00226
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Chromium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.007	0.0161	0.00072	0.00166
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Cobalt	0.00961	0.00099		TRUE	TRUE			FALSE	FALSE	FALSE	0.00513	0.00991	0.00053	0.00102
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Copper	0.00124	0.00013		TRUE	TRUE			FALSE	FALSE	FALSE	0.00486	0.0114	0.0005	0.00117
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Indium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.071	0.23381	0.00732	0.0241
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Iron	2.1018	0.21661		TRUE	TRUE			FALSE	FALSE	FALSE	0.14914	0.0134	0.01537	0.00138
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Lead	0.0113	0.00116		TRUE	TRUE			FALSE	FALSE	FALSE	0.01923	0.03278	0.00198	0.00338
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Magnesium	0.95598	0.09852		TRUE	TRUE			FALSE	FALSE	FALSE	0.08503	0.05596	0.00876	0.00577
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Manganese	0.06543	0.00674		TRUE	TRUE			FALSE	FALSE	FALSE	0.00757	0.01487	0.00078	0.00153
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A111557 7A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Nickel	0.00802	0.00083		TRUE	TRUE			FALSE	FALSE	FALSE	0.00367	0.00936	0.00038	0.00096

date	REPORT_DATE	DELIVERY_ORDER_NO	LOCATION_NAME	START_DATE	SAMPLE_ID	SAMPLE_TYPE	MEAS_TYPE	SAMPLE_VOLUME	MODULE_ID	SAMPLER_PART	ANALYSIS	ANALYTE	ANALYTE_MASS	NUMERIC_VALUE	DATE_VALUE	LAB_LVL_0_PERFORMED	LAB_LVL_1_PERFORMED	FLOW_FLAGS	ANALYSIS_FLAGS	MEDIUM_INVALID	ANALYSIS_INVALID	OVERALL_INVALID	MASS_UNC	MASS_DET_LIMIT	CONC_UNC	CONC_DET_LIMIT
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Mass - PM2.5	Particulate matter 2.5u	124	12.7796		FALSE	FALSE			FALSE	FALSE	FALSE	6.456	5.5	0.66536	0.56683
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Phosphorus	0.29719	0.03063		TRUE	TRUE			FALSE	FALSE	FALSE	0.03267	0.04401	0.00337	0.00454
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Potassium	2.44532	0.25202		TRUE	TRUE			FALSE	FALSE	FALSE	0.17346	0.02245	0.01788	0.00231
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Rubidium	0.01333	0.00137		TRUE	TRUE			FALSE	FALSE	FALSE	0.00785	0.01816	0.00081	0.00187
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Selenium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.00633	0.01653	0.00065	0.0017
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Silicon	9.17786	0.94588		TRUE	TRUE			FALSE	FALSE	FALSE	0.76053	0.06	0.07838	0.00618
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Silver	0.0113	0.00116		TRUE	TRUE			FALSE	FALSE	FALSE	0.1243	0.22231	0.01281	0.02291
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Sodium	5.1641	0.53222		TRUE	TRUE			FALSE	FALSE	FALSE	0.50426	0.22815	0.05197	0.02351
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Strontium	0.04554	0.00469		TRUE	TRUE			FALSE	FALSE	FALSE	0.00992	0.02155	0.00102	0.00222
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Sulfur	1.96394	0.20241		TRUE	TRUE			FALSE	FALSE	FALSE	0.14025	0.02672	0.01445	0.00275
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Tin	0.1243	0.01281		TRUE	TRUE			FALSE	FALSE	FALSE	0.373	0.50148	0.03844	0.05168
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Titanium	0.17831	0.01838		TRUE	TRUE			FALSE	FALSE	FALSE	0.01686	0.02926	0.00174	0.00302
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Vanadium	0.01367	0.00141		TRUE	TRUE			FALSE	FALSE	FALSE	0.00967	0.02396	0.001	0.00247
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Zinc	0.01661	0.00171		TRUE	TRUE			FALSE	FALSE	FALSE	0.01133	0.01249	0.00117	0.00129
2025-10-03 00:00:00	2025-11-06 00:00:00	Maricopa 2024-2025	PCAQD	2025-10-03 00:00:00	A1115577A	Routine	LAB	9.703	I15844P	Teflon Filter	Trace elements (33)	Zirconium	0	0		TRUE	TRUE			FALSE	FALSE	FALSE	0.01467	0.02668	0.00151	0.00275

DRAFT

MAG 2026 REDESIGNATION REQUEST AND MAINTENANCE PLAN FOR THE WEST CENTRAL PINAL PM-2.5 NONATTAINMENT AREA

APPENDIX C
DOCUMENTATION OF PUBLIC REVIEW PROCESS

OCTOBER 2026

MARICOPA ASSOCIATION of GOVERNMENTS