



Metropolitan Washington  
Council of Governments

**METROPOLITAN WASHINGTON AIR QUALITY COMMITTEE**  
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**Air Quality Planning  
Work Program and Budget**

**Fiscal Year 2024**  
**(July 1, 2023 through June 30, 2024)**  
Approved May 24, 2023

Prepared by

Metropolitan Washington Council of Governments  
Department of Environmental Programs  
Air Quality Section

## I. Background

This document presents the work program for the Metropolitan Washington Air Quality Committee (MWAQC) to be carried out for Fiscal Year 2024 (July 1, 2023 to June 30, 2024). It describes the work to be carried out by the staff of the Metropolitan Washington Council of Governments (COG) that is directly funded in this work program, as well as the in-kind contributions of the state air quality management agencies from the District of Columbia, Maryland, and Virginia. The tasks outlined in this work program are designed to ensure a regional approach to meeting the federal health standards in the metropolitan Washington region. Through the activities described for the coming year, several important steps will be taken towards improving the air quality of the region and meeting the deadlines required by the Clean Air Act.

### Certification of the Metropolitan Washington Air Quality Committee

The authority of MWAQC is derived from the certifications made by the Governors of Maryland and Virginia and the Mayor of the District of Columbia pursuant to Title I, "Provisions for Attainment and Maintenance of National Ambient Air Quality Standards," of the Clean Air Act Amendments of 1990 (section 174, 42 U.S. Code 7504).

### Mission of Metropolitan Washington Air Quality Committee

The primary responsibilities of MWAQC are development of regional carbon monoxide (CO), ozone, and fine particulate (PM<sub>2.5</sub>) National Ambient Air Quality Standards (NAAQS) plans for meeting the federal health standards for the criteria pollutants for which the Washington, DC-MD-VA region has been designated as being in nonattainment. The air quality plans developed by MWAQC are provided to the states for incorporation in the State Implementation Plan (SIP) for submittal to the U.S. Environmental Protection Agency (EPA).

### Air Quality Classifications of the Washington Metropolitan Region

Table 1 lists various criteria air pollutants and whether the metropolitan Washington region is in attainment of the relevant air quality standards. Note that the Washington region did not attain the 2015 ozone standard by the deadline, but, based on data from 2019-2021, EPA proposed a Clean Data Determination (CDD) on February 1, 2023.

*Table 1 Air quality classifications of the metropolitan Washington region*

Pollutant	Attainment	Nonattainment
Ozone (O <sub>3</sub> )		
2015 Standard*		●
2008 Standard	●	
Fine Particles (PM <sub>2.5</sub> )	●	
Carbon Monoxide (CO)	●	
Sulfur Dioxide (SO <sub>2</sub> )	●	
Nitrogen Dioxide (NO <sub>2</sub> )	●	

\*Based on certified 2019-2021 data and draft 2020-2022 data

### **Membership on MWAQC**

Membership on MWAQC consists of representatives from 22 member local governments within the non-attainment area, as well as the directors or their designees from the state air quality management agencies and state transportation agencies, representatives of state legislatures, and the chair of the National Capital Region Transportation Planning Board (TPB). MWAQC's bylaws allow for the expansion or contraction of MWAQC membership, depending on the geographic scope of the designated nonattainment area.

### **Organizational Structure of MWAQC**

MWAQC adopted by-laws which established the positions of chair and three vice-chairs, and it has several standing subcommittees or special supporting committees including an Executive Committee, a Technical Advisory Committee, and a Public Advisory Committee. The Technical Advisory Committee has several standing subcommittees: Conformity, Attainment Modeling, Emissions Inventory, and Local Government Initiatives Subcommittee.

### **Interstate Air Quality Council**

The Interstate Air Quality Council (IAQC) is a cabinet-level collaboration between the District of Columbia, the State of Maryland and the Commonwealth of Virginia. It is comprised of the secretaries of the environment and transportation. IAQC resolves difficult issues if needed to ensure the mutual goals of improved air quality and efficient transportation are met.

### **Staff Support to MWAQC**

The lead role for administrative and technical support to MWAQC is held by the staff of the Metropolitan Washington Council of Governments (COG). Major additional complementary technical staff support is provided by the staff of the state air quality management agencies. In 1996, MWAQC established a Technical Advisory Committee (TAC) which formally broadened its staff support to include local government technical staff as well as staff representing the state transportation agencies.

## **II. FY 2024 MWAQC Work Program Objectives**

The metropolitan Washington region was initially designated as a marginal nonattainment area for the 2015 ozone NAAQS. Based on 2019-2021 data, EPA proposed a Clean Data Determination (CDD) for the region. Once final, the CDD will suspend the requirement for the SIP and allow the region to request redesignation to attainment and submit a maintenance plan and redesignation request (MP/RR).

In FY 2023, MWAQC determined that the region would need to update its 2008 ozone maintenance plan in order to set new motor vehicle emissions budgets (MVEBs) to demonstrate conformity. Development of the plan is underway and will continue into FY 2024. The final plan is expected to be submitted to EPA by the end of the 2023 calendar year.

MWAQC staff will assist the Virginia Department of Environmental Quality (DEQ), with the support of the District, Maryland, develop a MP/RR for the 1-hour ozone standard, which is needed to move forward with Virginia's Nonattainment New Source Review (NNSR) certification requirements for the 2015 ozone standard. The specifics (including content and schedule) of the 1-hour ozone NAAQS maintenance plan are currently being discussed by

Virginia DEQ staff and the EPA. An additional description of this work activity and associated fiscal budget information will be appended to the work program once finalized.

MWAQC FY 2024 work program objectives include:

- Develop redesignation request and maintenance plan for the 2015 ozone standard.
- Finalize and submit to EPA the updated MP for the 2008 ozone NAAQS.
- Track air monitor data for ozone and fine particles and report status to MWAQC.
- Identify cost-effective control measures to meet the requirements of maintaining ozone standards.
- Work with local members to identify and implement initiatives to reduce air pollution.
- Update Environmental Justice Toolkit.
- Track regulatory actions related to air quality and the transport of pollution and comment when appropriate.
- Review and comment on transportation conformity assessments for ozone.
- Communicate to regional leaders and the public on improvements to air quality and the need for actions to reduce emissions and continue to improve the air.
- Incorporate a racial equity lens into the core work program areas.

#### **Role of COG/MWAQC Staff**

The lead role for administrative and technical support to MWAQC is held by COG/MWAQC staff. Close collaboration between MWAQC staff and the state air agencies will be necessary to review and revise inventories as needed for ozone, potential control measures, and calculation of necessary reductions needed to meet the standards. MWAQC staff will hold monthly calls with the state air agencies to coordinate work tasks and use of resources. As in the past, MWAQC staff will work closely with COG's Department of Transportation Planning (DTP) staff on mobile emissions inventory and conformity issues.

This document is intended to guide the activities of MWAQC through the 12-month period from July 1, 2023 to June 30, 2024. In subsequent sections, the reader will find detailed descriptions of the six major work program areas that are included in this work program. The core work areas are as follows:

1. Emissions Inventory Development
2. Regional Control Measures
3. Transportation Conformity/Mobile Emissions Analysis
4. Public Participation
5. MWAQC Support
6. Program Management

Costs for each of the above tasks are also included along with more detailed descriptions in Section III of this document.

The states and COG staff will meet periodically to discuss the work program status once contracts have been executed. COG will report quarterly on expenses. With the consent of the chair of MWAQC and/or the Executive Committee, in consultation with the states and in concurrence with the funding agencies, specific subtasks may be delayed, new tasks or

subtasks added or substituted, or existing tasks or subtasks modified in scope. These actions will take place only as long as EPA deadlines, as interpreted by MWAQC, are achieved.

### III. FY 2024 Work Program Task Descriptions

The following is a detailed description of the six major work program areas.

#### 1. Emissions Inventory Development (\$50,980)

In FY 2024, staff will work on the development of inventories that will be used for the maintenance plan/redesignation request (MP/RR) for the 2015 ozone standard.

MWAQC staff will develop the necessary inventories to be submitted as part of the MP/RR. Staff will coordinate with state air agencies and EPA regarding the selection of the attainment year, intermediate and out-year inventories for the plan. Staff will coordinate with MWAQC-TAC to determine the appropriate years for the inventories and prepare the inventories for submission.

Staff will coordinate with and assist the state air agencies and TPB staff to determine the necessary data for on-road modeling inputs and review on-road model inputs and emissions inventories. Staff will coordinate with TPB staff to develop Motor Vehicle Emissions Budgets (MVEBs). The addition of safety margins to the MVEBs under the 2015 ozone standard maintenance plan will be provided, as available and as allowed.

Staff will coordinate with state air agencies to receive point and nonpoint source inventories for the required years and develop nonpoint inventories for other milestone years and onroad and nonroad inventories for all milestone years.

Staff will participate in meetings to support inventory development and keep track of various control measures being adopted by states to reduce ozone. Staff will work with the states to identify the range of control measures and voluntary actions that may be needed for future year inventories.

Staff will participate in quarterly modeling research meetings/webinars held by the University of Maryland and the Maryland Department of Environment (MDE) staff. COG staff will present informational briefings on the results of modeling exercises to the TAC and MWAQC.

#### Deliverables:

	Deadline:
a) Identification and development of inventories for the MP/RR.	Ongoing
b) Meetings of UMD/MDE Modeling	Quarterly
c) Attend Emissions Inventory Trainings and Conferences	As needed
d) Emissions Inventory Subcommittee Calls	As needed

#### 2. Regional Control Measures (\$126,857)

The main focus areas will be ozone planning and identifying cost-effective control measures. MWAQC will plan to meet Clean Air Act and EPA requirements for having the area redesignated to attainment for the 2015 ozone standard. The Metropolitan Washington region is classified as “moderate” nonattainment and data show it has met the standard. EPA has proposed a

clean data determination, based on certified 2019-2021 data and the draft 2020-2022 data. The region will move forward to designate the area as attainment and prepare a MP/RR.

As directed by MWAQC, staff will provide assistance to develop and implement recommended actions to maintain the ozone standard and work toward eliminating unhealthy air days. Actions should be cost-effective, viable, implementable, consider equity, and include co-benefits for criteria pollutants. Staff will facilitate further discussions among MWAQC member agencies and COG committees, such as COG's Climate, Energy and Environment Policy Committee (CEEPC), TPB, and TPB Technical Committee on the findings and potential implementation actions included in the control measure recommendations. Efforts will involve the development of necessary measures for use in the 2015 ozone NAAQS MP/RR and planning and implementation support for local government actions to improve air quality.

Staff will provide support for the planning and development process related to the 2015 ozone standard including providing a forum for coordinating policies and measures among state air and energy agencies and local jurisdictions to improve the region's air.

Support for Control Measure Development:

Control measures will be developed and include identification, review, and analysis of existing and new measures (for the development of contingency measures) for potential inclusion in planning support documents for the MP/RR.

Staff will focus on federal, state, and local measures and will evaluate the extent to which measures are strong candidates for inclusion in planning documents. Control/contingency measures development and evaluation will be conducted in close collaboration with the MWAQC TAC and state and local agency staff. Presentations will also be developed for COG's Air and Climate Public Advisory Committee (ACPAC) and MWAQC. Local actions development work will be coordinated with the Built Environment and Energy Advisory Committee (BEEAC) and CEEPC as well.

Support for Local Government Actions to Improve Air Quality:

Local governments in the Washington region will continue to work on their commitments to reduce emissions. MWAQC staff will assist local members to develop and implement programs to reduce ozone precursors by highlighting and prioritizing measures to reduce and maintain ozone levels – both in the short and long term. Local measures may include those related to energy efficiency, renewable energy, low-emission vehicles, anti-idling, high-performance buildings, electric lawn and garden equipment, transportation demand management (TDM), low-impact development, urban heat island reduction, tree canopy management, and anti-tampering of devices designed to reduce air pollution. Staff will identify priority measures and provide technical expertise, in cooperation with the states, to assist local governments in the development of strategies and programs to reduce emissions of ozone precursors, provide co-benefits for PM<sub>2.5</sub> and greenhouse gases, and to provide a methodology for calculating and reporting evidence of actions taken.

MWAQC staff will manage the Diesel Idle Reduction Campaign for the metropolitan Washington region. The campaign, originally developed in 2010, engages truck and motorcoach drivers to raise awareness of idle reduction and encourages compliance with

idling laws. This includes coordinating outreach with motorcoach and truck drivers through street team events, updating and purchasing campaign materials, and maintaining the program's website.

COG will continue to work with members and partners to support an electric vehicle (EV) infrastructure network and increase awareness of electric mobility. Staff will participate with regional and local workgroups, to expand a regionwide EV charging infrastructure and coordinate with local members on implementation.

Staff will participate with groups such as CEEPC, BEEAC, Greater Washington Region Clean Cities Coalition (GWRCCC), and similar efforts that will help reduce emissions.

Staff will stay abreast of Ozone Transport Commission/Mid-Atlantic Regional Air Management Association (OTC/MARAMA) ozone precursor pollutant inventory development and photochemical modeling. Staff will provide support for the planning process related to the 2015 ozone standard.

Staff will track federal statutory and judicial regulatory actions that affect air quality, including air pollution transport, in the Washington region and work with MWAQC to take appropriate policy actions and comment as needed. Staff will provide information and a forum for coordinating public policies that affect air quality among the state air and energy agencies and local governments in the region.

<b>Deliverables:</b>	<b>Deadline:</b>
a) Identify, evaluate, measure, document measures to reduce ozone precursors and identify potential co-benefits	Ongoing
b) Identify opportunities to expand local control measures	Ongoing
c) Track implementation of state and local control measures	Ongoing
d) Diesel Idle Reduction Campaign	June 2024
e) Track/report on State and federal Legislative Activity	As needed
f) Regional Workgroups	As scheduled

### **3. Transportation Conformity/Mobile Emissions Analysis (\$191,859)**

During FY 2024, staff will support any conformity analysis conducted by TPB staff. MWAQC staff will review and comment on any remaining activities related to the conformity analysis undertaken in support of the long-range transportation plan. If necessary, MWAQC staff will present the results of the conformity analysis to MWAQC and facilitate development of a comment letter.

The Conformity Subcommittee may choose to review regional transportation conformity work and participate in the TPB interagency consultation process. Upon request by the TPB and the TPB Technical Committee, staff may provide briefings on EPA rulings, air quality standards, and guidance as they apply to conformity in the Washington region.

Staff will coordinate planning the 2015 ozone MP/RR schedule and tasks with TPB staff. MWAQC staff will coordinate with TPB staff to develop mobile emissions inventories needed

for the 2015 MP and the establishment of new Motor Vehicle Emissions Budgets (MVEBs). The addition of safety margins when developing the MVEBs for the 2015 ozone attainment MP will be provided, as available and as allowed, for each scenario.

Staff will finalize the MVEBs for the updated 2008 ozone standard maintenance plan. The final plan document will be submitted to EPA by the end of the 2023 calendar year.

In addition to the above work activities, MWAQC staff will assist TPB with inputs as well as technical work supporting state environmental planning activities. MWAQC staff will work closely with state air and transportation agencies and COG TPB staff to revisit and potentially refresh inputs for the EPA Motor Vehicle Emission Simulator (MOVES) model, including any activities related to the vehicle registration/vehicle identification number (VIN) data.

<b>Deliverables:</b>	<b>Deadline:</b>
a) Comment on Transportation Conformity Analysis	TPB deadline
b) Provide Briefings and Written Reports to TPB and TPB Technical Committee	Ongoing
c) Review analysis input, output, and acquire and quality assure data	Ongoing

#### **4. Public Participation (\$52,083)**

##### Task 1: ACPAC

Staff will support the Air and Climate Public Advisory Committee (ACPAC), an advisory committee to MWAQC and to the Climate, Energy and Environment Policy Committee (CEEPC), by attending meetings, providing program support, and briefing the committee on federal regulations, air quality progress, air quality planning issues, local member initiatives, equity issues, and proposed actions of MWAQC. ACPAC will update the environmental justice toolkit, originally developed in 2017. ACPAC will meet six times in FY 2024. The ACPAC Chair will participate in MWAQC meetings to report on the Committee's deliberations and recommendations as a regular part of MWAQC meetings.

##### Task 2: Air Quality Reporting and Outreach

MWAQC leadership, COG/MWAQC Air Quality staff and COG Public Affairs staff will meet with the media, particularly environmental reporters and editorial boards, to inform them about air quality issues and progress. Staff will make periodic reports about the air quality challenges associated with the NAAQS, current emissions and related air quality trends to the COG Board of Directors, Chief Administrative Officers' Committee and to member local governments as requested. The goal is to inform decision-makers about air quality improvements, issues and challenges. This task also covers COG staff time to respond to media inquiries or support the MWAQC leadership in responding to media inquiries.

Public outreach will be conducted to promote the region's air quality improvements, challenges of meeting the air quality standards, to promote local member initiatives, and foster equity and inclusion. Existing materials will be updated, and new materials will be developed such as press releases, chair talking points, guest blogs, and the air quality dashboard.



**Deliverables:**

- a) ACPAC Meetings
- b) ACPAC Member Recruitment
- c) Respond to Media Inquiries
- d) Environmental Justice Toolkit (Draft)
- e) Develop/Update Materials

**Deadline:**

As scheduled (6)  
 January 2024  
 Ongoing  
 June 2024  
 As needed

**5. MWAQC Support (\$115,720)**

MWAQC Support includes staff support for MWAQC meetings, MWAQC Executive Committee, TAC, State Air Coordination, and subcommittee meetings and calls. Staff will coordinate and participate in all meetings, including preparing agendas, minutes, presentations, and materials, and securing speakers. MWAQC will hold four regular business meetings to discuss planning, local measures, regulations, guidance and legislation about air quality issues affecting the Washington region and whether or not to comment or act on proposed plans. Staff will coordinate with the chair and vice chairs, responding to requests, and develop materials for new members.

The TAC will meet monthly or as needed, with regular subcommittee meetings. Staff will recruit stakeholders to participate as TAC stakeholder members. The Executive Committee will meet five times during the year. Staff will hold monthly calls with the state air agencies to coordinate use of resources and attainment progress. The Local Government Initiatives Subcommittee will meet as needed to help identify and implement priority/voluntary measures.

**Deliverables:**

- a) MWAQC Meetings
- b) MWAQC Executive Committee Calls
- c) Technical Advisory Committee Calls
- d) TAC Stakeholder Recruitment
- e) State Air Agency Coordination Calls
- f) Subcommittee calls (local government initiatives, emissions inventory, conformity)

**Deadline:**

As scheduled (4)  
 As scheduled (5)  
 Monthly or as scheduled  
 January 2024  
 Monthly  
 As Scheduled

**6. Project Management (\$38,079)**

Staff will prepare a draft work program and budget for the fiscal year 2025. Staff will work with the MWAQC Budget Subcommittee and MWAQC to get an approved budget in the spring before the fiscal year begins. Staff will work with funding agencies to finalize grants and contracts and invoice as required. Staff will provide quarterly financial and status reports to track the progress of implementing the approved work program and budget.

Staff uses information technology extensively in performing analyses, completing written summaries, downloading information and data from EPA, and the Internet for a variety of research needs. Contribution to computer support for project staff and management systems is accounted for in this task. Efforts to provide materials on the COG website may also fall under this task.

**Deliverables:**

- a) Quarterly Expense and Progress Reports
- b) MWAQC Budget Committee
- c) Draft MWAQC FY2025 Work Program and Budget
- d) Adopt MWAQC FY2025 Work Program and Budget

**Deadline:**

Quarterly  
As scheduled  
February 2024  
  
May 2024

**IV. Funding Sources and Projected Budget**

The MWAQC Work Program for FY 2024 is a 12-month work program and budget for the period from July 1, 2023 to June 30, 2024.

The MWAQC bylaws, adopted in October 2004, include a funding formula that allocates contributions to the MWAQC budget by thirds: 1/3 from state air agencies, 1/3 from state transportation agencies, and 1/3 from local governments (Table 1). The budget for the core work program is a total of \$575,577. The state air agencies, the state and local departments of transportation and the Transportation Planning Board, and the Council of Governments will each contribute \$191,859. The funding by task is shown in Table 2. The MWAQC bylaws also state that “nothing shall preclude additional sub-regional efforts to be added to the work program at the request and expense of individual state agencies and local governments.”

Note that the funding from the TPB to support air quality planning and conformity is contingent upon TPB’s approval of the Unified Planning Work Program (UPWP) for FY 2024. Contributions from the State Air Agencies are contingent on approval of their organization’s funding. If needed, the MWAQC Work Program will be revised should the final budget amount change.

**Table 1**  
FY 2024 MWAQC Funding Contributions by Source

Source	Approved FY 2023	Requested FY 2024	Change
State DOT/TPB	\$184,802	\$191,859	+\$7,057
COG member jurisdictions*	\$181,227	\$181,227	+\$0
Unexpended Carryforward	\$3,575	\$10,632	+\$7,057
COG Member. Subtotal	\$184,802	\$191,859	+\$7,057
State Air Agencies*			
DOEE	\$22,103	\$22,103	+\$0
MDE**	\$76,738	\$76,738	+\$0

VDEQ	\$75,698	\$75,698	+\$0
Unexpended Carryforward	\$10,263	\$17,320	+\$7,057
States. Subtotal	\$184,802	\$191,859	+\$7,057
<b>TOTAL</b>	<b>\$554,406</b>	<b>\$575,577</b>	<b>+21,171 (3.82%)</b>

\*State air agencies and COG member contributions will be invoiced at FY2023 levels. Carryforward will be used to fund the difference.

\*\*Funded by the Maryland Department of Transportation

**Table 2**  
**FY 2024 Air Quality Core Work Program Tasks**  
**(Breakdown of Costs by Type)**

Work Program Tasks	COG staff* (\$)	Consultants (\$)	Direct (\$)	Total Cost (\$)
1. Emissions Inventory Development	\$48,980		\$2,000	\$50,980
2. Regional Control Measures	\$125,357		\$1,500	\$126,857
3. Transportation Conformity/Mobile Emissions Analysis	\$191,859		\$0	\$191,859
4. Public Participation	\$42,083		\$10,000	\$52,083
5. MWAQC Support	\$103,220		\$12,500	\$115,720
6. Project Management	\$36,070		\$2,009	\$38,079
<b>TOTAL</b>	<b>\$547,568</b>	<b>\$0</b>	<b>\$28,009</b>	<b>\$575,577</b>

\*Fully burdened - includes indirect costs