



Air & Waste Management Association

March 14, 2025

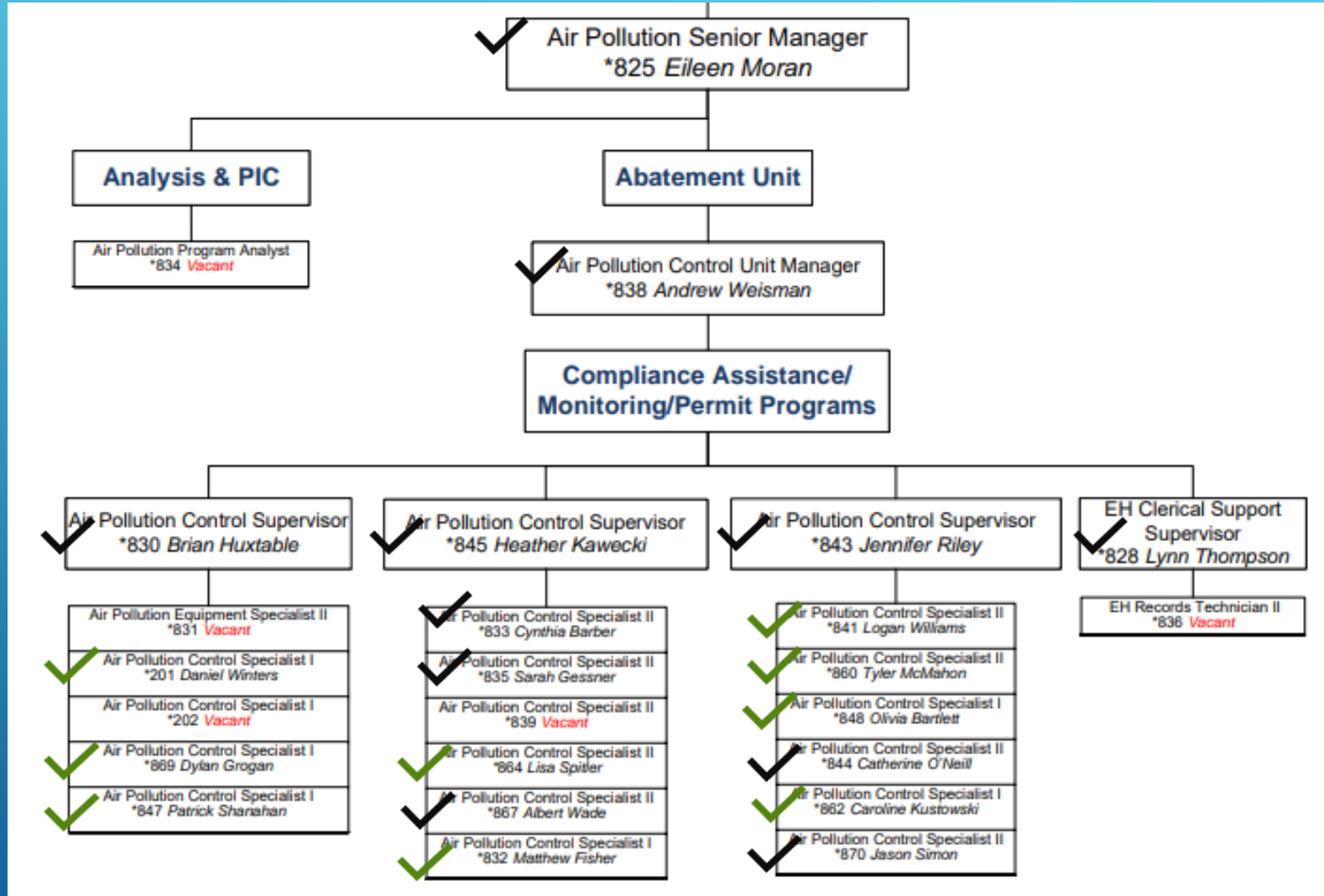
Eileen Moran, Senior Manager

Andy Weisman, Unit Manager



RAPCA ORG CHART/EXPERIENCE

11 PEOPLE OVER 20 YEARS, 9 PEOPLE LESS THAN 6 YEARS



AGENDA

- PM_{2.5} and Ozone NAAQS
- Ohio EPA Budget – Annual Fees and Permit Fees
- Ohio rules – Startup, Shutdown & Malfunction, NOx RACT
- Current topics - Data Centers and Anaerobic Digesters
- New U.S.EPA Administration

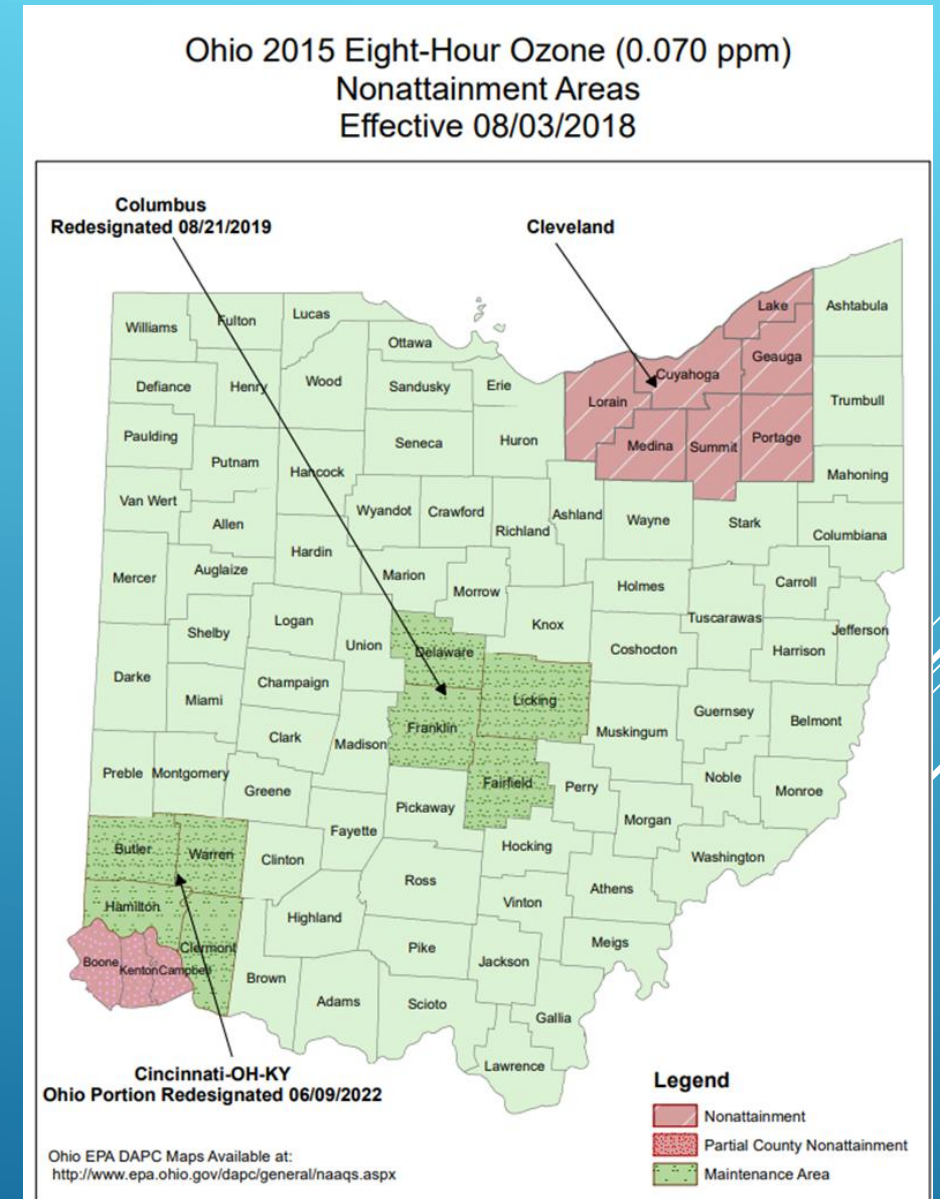
OZONE BACKGROUND

- Ozone is formed from “precursor” emissions of nitrogen oxides (NO_x) and volatile organic compounds (VOCs) in the presence of sunlight
- The ozone standard changes over time
 - Since 1997 – it has been based on a 3-year average of annual 4th highest daily maximum 8-hour concentration (called “design value”)
 - 1997 – 80 ppb
 - 2008 – 75 ppb
 - 2015 – 70 ppb ← current standard
- Ozone monitoring season is March 1 to October 31



2015 OZONE DESIGNATION TIMELINE

- August 3, 2018: U.S. EPA finalized nonattainment areas
 - Columbus, Cincinnati, and Cleveland areas designated *marginal* nonattainment
 - **Marginal attainment date set for August 3, 2021 (2018-2020 design values)**
- August 2019 - Columbus redesignated to attainment
- June 2022 – Cincinnati redesignated to attainment
- November 2022 - Cleveland “bumped up” to *moderate* nonattainment
 - **Moderate attainment date set for August 3, 2024 (2021-2023 design values)**



2024 OHIO OZONE LEVELS

| Metro Area | County | Monitoring Site | 2024 4th High Needed to Violate 2015 Standard (ppb) | 1st High (ppb) | 2nd High (ppb) | 3rd High (ppb) | 4th High (ppb) | 2022-2024 DV To Date (ppb) |
|-------------|------------|---------------------|---|----------------|----------------|----------------|----------------|----------------------------|
| Akron | Portage | Lake Rockwell | 72 | 73 (6/21) | 72 (5/24) | 68 (5/19) | 67 (4/16) | 69 |
| | Summit | North HS | 73 | 72 (6/21) | 70 (5/19) | 69 (8/24) | 69 (9/11) | 69 |
| Cincinnati | Butler | Middletown Airport | 75 (71 contingency) | 77 (6/13) | 74 (6/12) | 70 (6/16) | 67 (6/21) | 68 |
| | | Crawford Woods | 75 (74 contingency) | 73 (6/13) | 71 (6/12) | 68 (8/23) | 68 (8/26) | 68 |
| | Clermont | Batavia | 82 (74 contingency) | 76 (6/21) | 75 (6/14) | 71 (8/6) | 68 (8/5) | 66 |
| | Hamilton | Sycamore | 71 (69 contingency) | 82 (8/27) | 79 (8/26) | 73 (6/12) | 73 (6/16) | 71 |
| | | Colerain | 72 (69 contingency) | 72 (6/13) | 71 (6/16) | 71 (8/26) | 70 (6/12) | 70 |
| | | Taft NCore PAMS | 71 (67 contingency) | 82 (8/27) | 79 (6/20) | 73 (6/21) | 73 (7/27) | 71 |
| | Warren | Lebanon | 70 (68 contingency) | 84 (8/27) | 78 (8/26) | 73 (6/13) | 73 (6/16) | 72 |
| Cleveland | Ashtabula | Conneaut | 71 | 73 (6/22) | 72 (5/21) | 68 (6/13) | 67 (8/24) | 69 |
| | Cuyahoga | District 6 | 69 | 75 (5/20) | 74 (6/20) | 72 (6/22) | 72 (8/24) | 72 |
| | | Berea BOE | 73 | 69 (5/24) | 68 (6/13) | 67 (8/24) | 65 (5/20) | 68 |
| | | Mayfield | 75 | 77 (8/24) | 71 (7/31) | 70 (6/13) | 70 (6/22) | 69 |
| | Lake | Eastlake | 65 | 81 (5/20) | 73 (5/21) | 73 (6/20) | 71 (6/19) | 73 |
| | Medina | Chippewa | 74 | 70 (6/13) | 68 (5/24) | 67 (8/27) | 65 (6/12) | 68 |
| Columbus | Franklin | New Albany | 75 (73 contingency) | 72 (8/27) | 71 (6/13) | 70 (6/21) | 69 (6/22) | 69 |
| Dayton | Greene | Xenia | 75 | 76 (8/27) | 68 (6/13) | 67 (6/21) | 67 (9/20) | 68 |
| | Montgomery | Eastwood | 76 | 84 (6/13) | 79 (6/12) | 73 (6/16) | 72 (8/27) | 69 |
| Lima | Allen | Lima | 74 | 69 (6/13) | 66 (6/16) | 66 (6/21) | 65 (6/20) | 68 |
| Springfield | Clark | Springfield Well Fd | 76 | 80 (6/13) | 74 (8/27) | 71 (6/12) | 68 (9/20) | 68 |
| Toledo | Lucas | Erie | 72 | 67 (6/21) | 65 (6/20) | 64 (6/13) | 63 (6/19) | 68 |
| | | Waterville | 74 | 72 (6/21) | 70 (9/12) | 65 (6/13) | 63 (5/24) | 67 |
| | | Cooley | 70 | 76 (6/21) | 75 (7/28) | 73 (6/20) | 71 (8/24) | 71 |
| N/A | Clinton | Wilmington | 75 | 74 (6/21) | 74 (6/22) | 73 (9/20) | 71 (8/6) | 69 |



Cleveland Ozone Outlook (*as of 11/1/24)

District 6 has had 4 of 4 days over (72, 72, 74, 75)

Eastlake has had 4 of 4 days over (71, 73, 73, 81)

Lake Rockwell has had 2 of 4 days over (72, 73)

Mayfield has had 1 of 4 days over (77)

| Site Name | Site ID | County | 2021 4 th High | 2022 4 th High | 2023 4 th High | 2024 4 th high needed to violate 2015 standard | 2024 4 th High* | 2021- 2023 DV | 2022- 2024 DV* |
|---------------------|-------------|----------|---------------------------------|---------------------------------|---------------------------------|---|-------------------------------|---------------------|----------------------|
| District 6 | 39-035-0034 | Cuyahoga | 70 | 73 | 71 | 69 | 72 | 71 | 72 |
| GT Craig NCore PAMS | 39-035-0060 | Cuyahoga | 59 | 61 | 65 | 87 | 65 | 61 | 63 |
| Berea BOE | 39-035-0064 | Cuyahoga | 69 | 65 | 75 | 73 | 65 | 69 | 68 |
| Mayfield | 39-035-5002 | Cuyahoga | 68 | 65 | 73 | 75 | 70 | 68 | 69 |
| Notre Dame | 39-055-0004 | Geauga | 67 | 64 | 66 | 83 | 66 | 65 | 65 |
| Eastlake | 39-085-0003 | Lake | 72 | 76 | 72 | 65 | 71 | 73 | 73 |
| Painesville | 39-085-0007 | Lake | 63 | 62 | 73 | 78 | 69 | 66 | 68 |
| Sheffield | 39-093-0018 | Lorain | 59 | 63 | 64 | 86 | 61 | 62 | 62 |
| Chippewa | 39-103-0004 | Medina | 65 | 67 | 72 | 74 | 65 | 68 | 68 |
| Lake Rockwell | 39-133-1001 | Portage | 67 | 71 | 70 | 72 | 67 | 69 | 69 |
| North HS | 39-153-0026 | Summit | 66 | 69 | 71 | 73 | 69 | 68 | 69 |

Overview of CAA Ozone Nonattainment Area Planning & Control Requirements by Classification



| | | NSR Offset Ratio | Major Source Threshold |
|--|---|----------------------|------------------------|
| EXTREME (20 years to attain) | TRAFFIC CONGESTION CONTROLS (if appropriate) | 1.5 : 1 Extreme | 10 tpy |
| | CLEAN FUELS REQUIREMENT FOR BOILERS | | |
| SEVERE (15/17 years to attain) | PENALTY FEE PROGRAM FOR MAJOR SOURCES | 1.3 : 1 Severe | 25 tpy |
| | VMOT GROWTH DEMONSTRATION (& TCMs if needed) | | |
| | VMOT REPORTING | 1.2 : 1 Serious | 50 tpy |
| | NSR REQUIREMENTS FOR EXISTING SOURCE MODS | | |
| SERIOUS (9 years to attain) | CLEAN FUELS PROGRAM OR SUBSTITUTE MEASURE FOR LARGER POP. AREAS | | |
| | MODELED DEMO OF ATTAINMENT | 1.15 : 1 Moderate | 100 tpy |
| | MILESTONE DEMONSTRATIONS and CONTINGENCY MEASURES FOR RFP | | |
| | 3% ANNUAL RFP UNTIL ATTAINMENT | | |
| | ENHANCED I/M for larger population areas | 1.1 : 1 Marginal | 100 tpy |
| MODERATE (6 years to attain) | CONTINGENCY MEASURES FOR FAILURE TO ATTAIN | | |
| | ENHANCED MONITORING PLAN | | |
| | Stage-II Gasoline Vapor Recovery | | |
| | BASIC VEHICLE I/M for larger population areas | | |
| | 15% VOC ROP or 15% VOC/NOx RFP (OVER 6 YEARS) | 1.1 : 1 Marginal | 100 tpy |
| MARGINAL (3 years to attain) | VOC/NOx RACT for MAJOR/CTG SOURCES | | |
| | ATTAINMENT DEMONSTRATION | 1.1 : 1 Marginal | 100 tpy |
| | NONATTAINMENT NEW SOURCE REVIEW PROGRAM | | |
| | EMISSIONS STATEMENTS | 1.1 : 1 Marginal | 100 tpy |
| | BASELINE EMISSIONS INVENTORY (EI) | | |
| | PERIODIC EMISSIONS INVENTORY UPDATES | | |

NOTE: Transportation and General Conformity apply in all ozone nonattainment areas.

NSR offset ratio 1.2:1

Baseline year reset

Major source permitting threshold lowered from 100 TPY to 50 TPY

- More Title V and synthetic minor sources
- Application timing to avoid Title V

Major modification significance levels decrease from 40 TPY to 25 TPY thresholds will be lowered

- More changes at existing facilities will trigger major new source review

Attainment Date – Aug 3, 2027

CURRENT STATUS - CLEVELAND

- Serious non-attainment
- RACT
 - Draft January 2025
 - Effective April 1, 2025
- Rule making for Title V
- Facility specific NOx and VOC RACT
 - Evaluated and updated
- Voluntary measures:
 - Idling
 - Lawn/garden rebates
 - Consumer products rule



**Environmental
Protection
Agency**

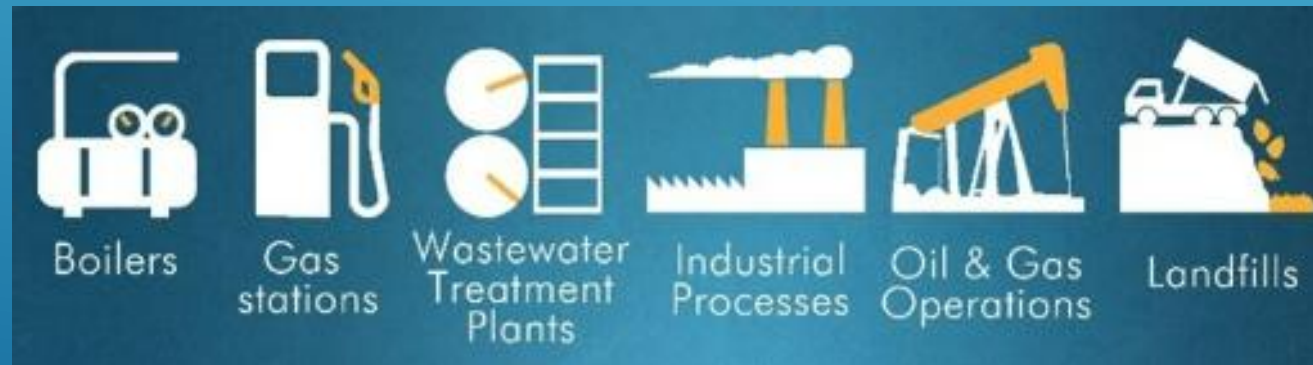
March 13, 2025

Ohio EPA Division of Air Pollution Control -

**Adoption of the Rules Related to Cleveland Nonattainment Area
Reclassification to Serious Ozone Nonattainment, OAC Chapters
3745-21, 3745-31 and 3745-110**

Permitting - CLEVELAND

- Title V applications due ~ first week of 2026
- Synthetic minor facilities would need to submit a Title V application to gain a permit shield
 - Or have a permit in place by the deadline



CURRENT STATUS - CINCINNATI

- Redesignated as attainment prior to Aug 3, 2024
- No rule RACT required
- Instead, Ohio chose to incorporate VOC RACT to assist with maintaining standard
 - GE Evendale (VOC)
 - Formica (VOC)



**Environmental
Protection
Agency**

**Reasonably Available Control Technology (RACT)
State Implementation Plan for the 2015 Ozone
National Ambient Air Quality Standards for the
Serious Classification**

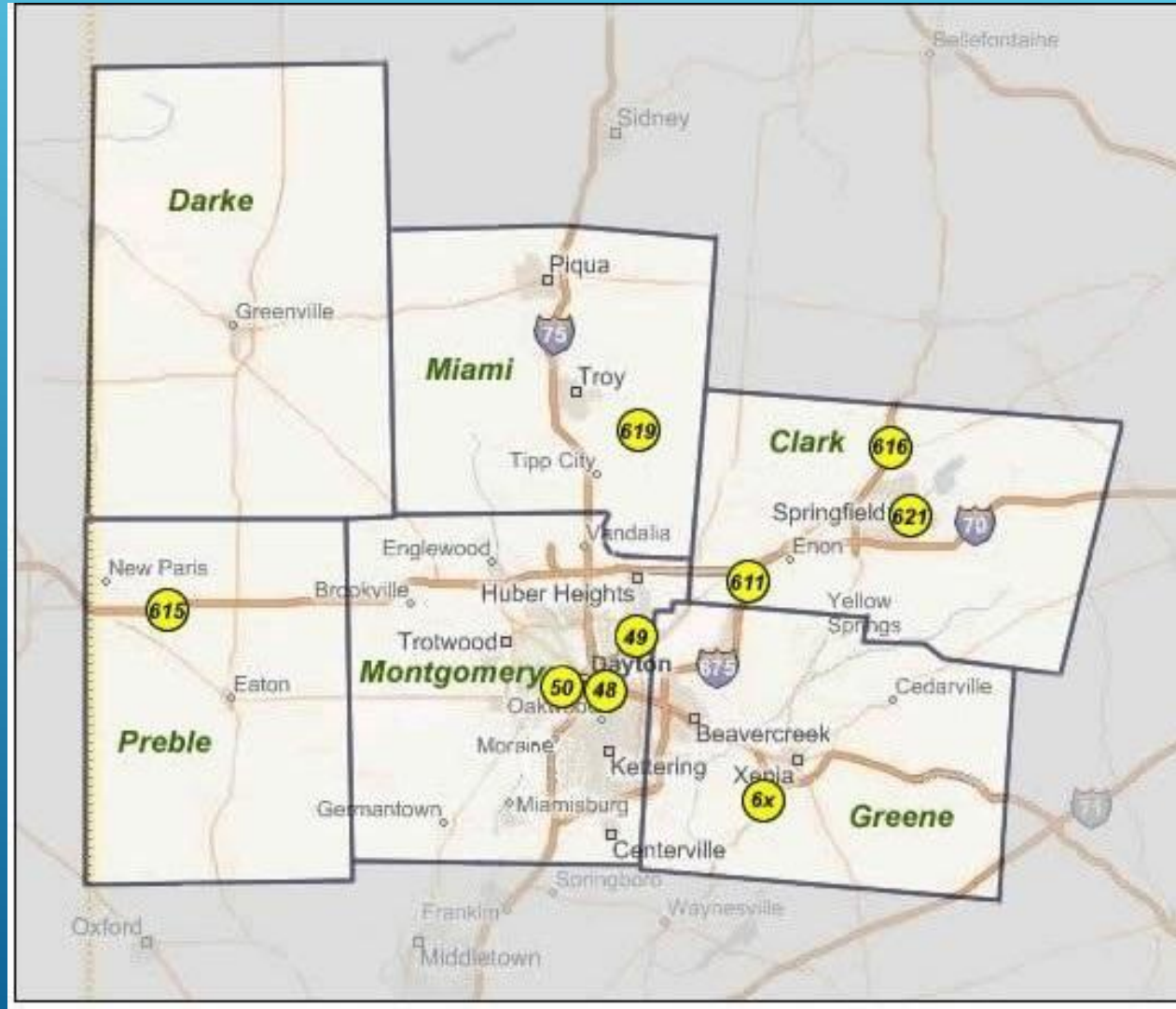
Prepared by:

The Ohio Environmental Protection Agency

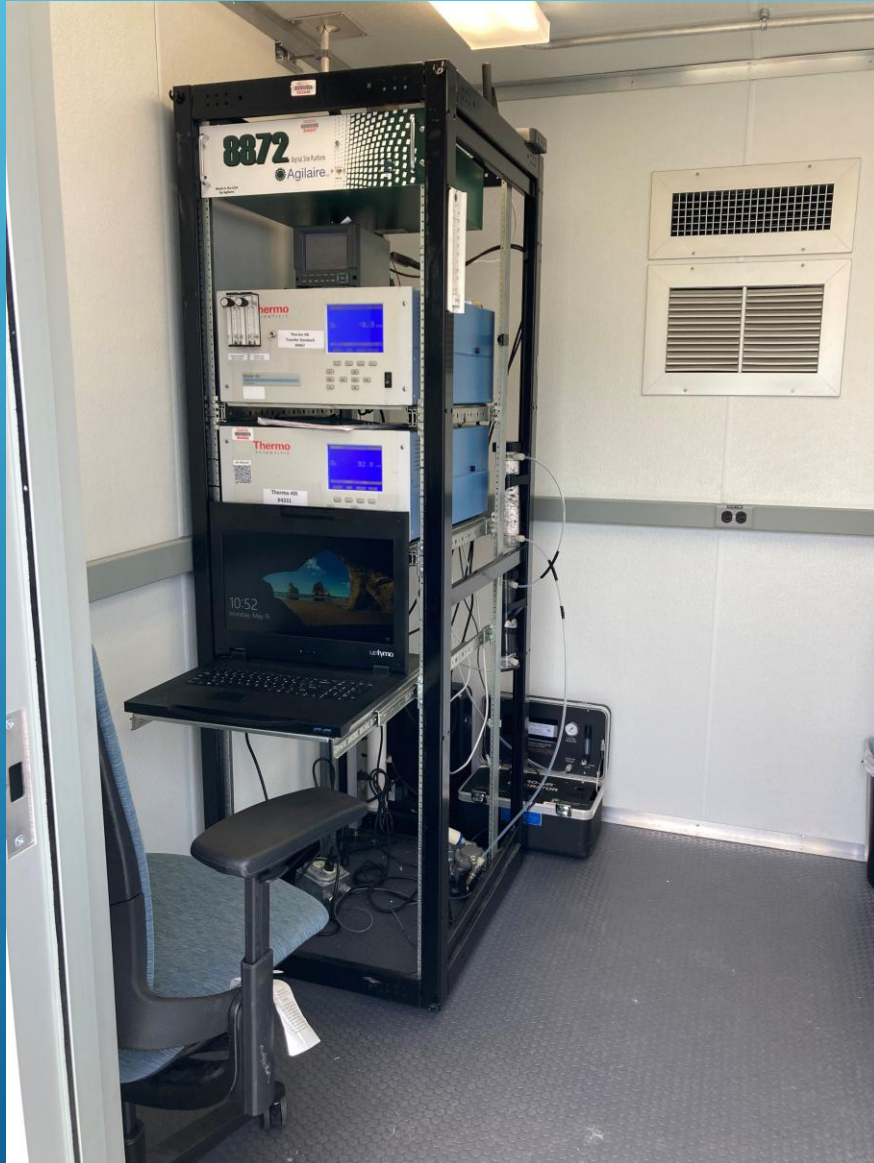
Division of Air Pollution Control

November 2024

RAPCA MONITORING NETWORK



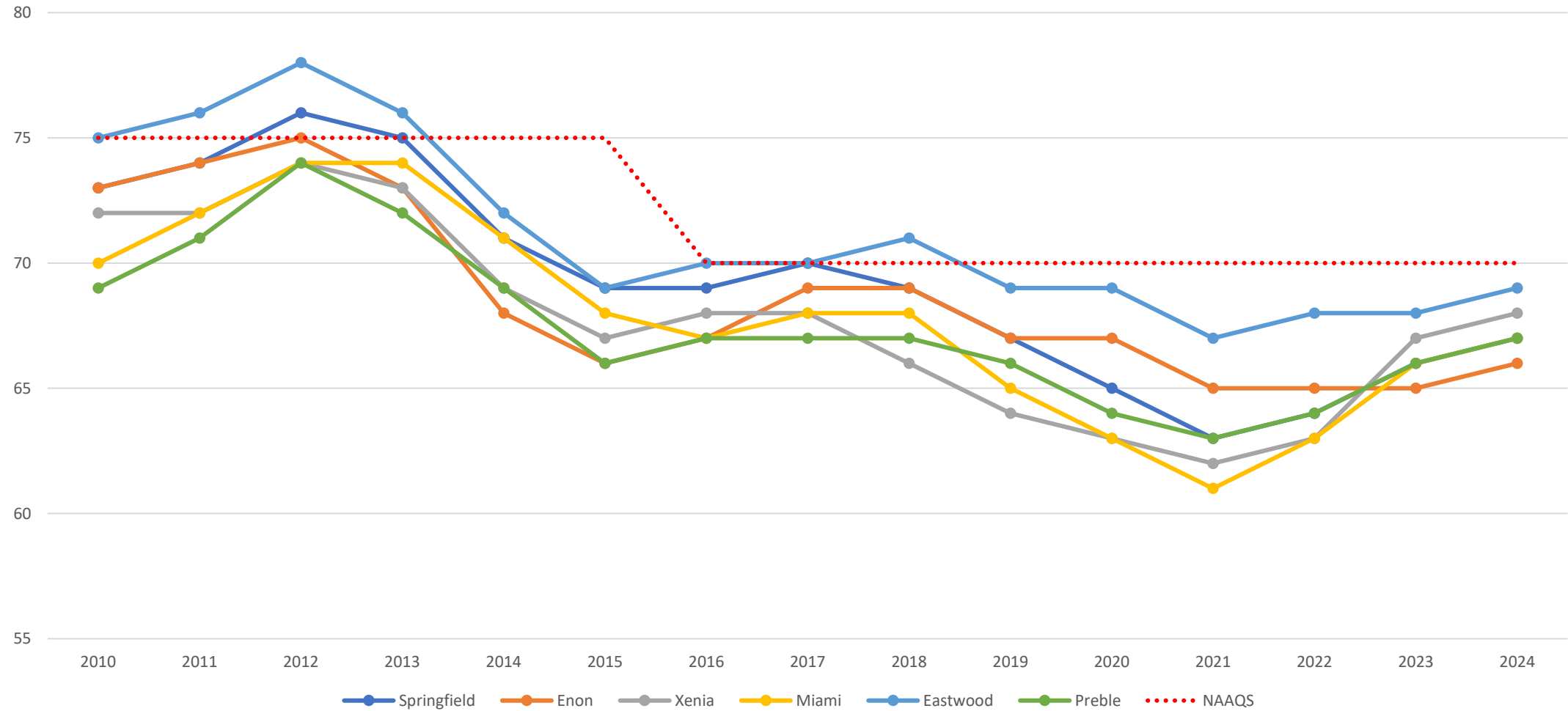
MUD RUN – OZONE SITE



RAPCA OZONE OUTLOOK

| | 2024 | | | |
|---------------|------------------------------|------|------|-------------------|
| | 4th High 8-hour ozone values | | | |
| Ozone Monitor | 2022 | 2023 | 2024 | 3-yr Design Value |
| Springfield | 68 | 69 | 66 | 67 |
| Enon | 64 | 68 | 67 | 66 |
| Xenia | 65 | 73 | 66 | 68 |
| Miami | 66 | 69 | 68 | 67 |
| Eastwood | 66 | 71 | 72 | 69 |
| Preble | 69 | 68 | 64 | 67 |

RAPCA 8hr Ozone Design Values Parts per billion (ppb)



RAPCA OZONE EXCEEDENCES 2020-2024

| | | Eastwood | | Miami | | Preble | | Xenia | | Springfield (01) | | Mud Run (03) | | Monitor |
|------|-----------|----------|-----|-------|-----|--------|-----|-------|-----|------------------|---------------------|--------------|-----|-------------|
| | | ppb | AQI | ppb | AQI | ppb | AQI | ppb | AQI | ppb | AQI | ppb | AQI | Exceedances |
| 2020 | 6/20/2020 | 71 | 101 | 66 | 87 | 71 | 101 | 68 | 93 | 66 | 87 | 73 | 108 | 3 |
| | 7/6/2020 | 71 | 101 | 61 | 71 | 52 | 48 | 60 | 67 | 57 | 58 | 66 | 87 | 1 |
| | 7/15/2020 | 71 | 101 | 68 | 93 | 54 | 50 | 54 | 50 | 55 | 51 | 59 | 64 | 1 |
| | 7/17/2020 | 74 | 112 | 62 | 74 | 56 | 54 | 61 | 71 | 62 | 74 | 66 | 87 | 1 |
| 2021 | 7/27/2021 | 71 | 101 | 62 | 74 | 62 | 74 | 62 | 74 | 55 | 51 | 61 | 71 | 1 |
| 2022 | 6/21/2022 | 78 | 126 | 77 | 122 | 81 | 136 | 76 | 119 | 79 | 129 | 75 | 115 | 6 |
| | 6/22/2022 | 61 | 71 | 75 | 115 | 73 | 108 | 69 | 97 | 70 | 100 | 63 | 77 | 2 |
| | 6/30/2022 | 73 | 108 | 70 | 100 | 62 | 74 | 61 | 71 | 68 | 93 | 66 | 87 | 1 |
| 2023 | 6/1/2023 | 72 | 105 | 66 | 87 | 67 | 90 | 73 | 108 | 68 | 93 | 69 | 97 | 2 |
| | 6/2/2023 | 77 | 122 | 74 | 112 | 76 | 119 | 77 | 122 | 74 | 112 | 74 | 112 | 6 |
| | 6/3/2023 | 71 | 101 | 69 | 97 | 68 | 93 | 64 | 80 | 69 | 97 | 68 | 93 | 1 |
| | 6/10/2023 | 67 | 100 | 72 | 105 | 68 | 93 | 68 | 93 | 70 | 100 | 67 | 90 | 1 |
| | 6/28/2023 | 78 | 126 | 71 | 101 | 72 | 105 | 73 | 108 | 69 | 97 | 75 | 115 | 5 |
| | 8/4/2023 | 71 | 100 | 63 | 77 | 65 | 84 | 78 | 126 | 55 | 51 | 61 | 71 | 2 |
| 2024 | 6/12/2024 | 79 | 129 | 68 | 93 | 62 | 74 | 60 | 67 | 71 | 101 | 70 | 100 | 2 |
| | 6/13/2024 | 84 | 147 | 71 | 101 | 64 | 80 | 68 | 93 | 80 | 133 | 78 | 126 | 4 |
| | 6/16/2024 | 73 | 108 | 69 | 97 | 66 | 87 | 64 | 80 | 66 | 87 | 66 | 87 | 1 |
| | 8/27/2024 | 72 | 105 | 60 | 67 | 53 | 49 | 76 | 119 | 74 | 112 | 69 | 97 | 3 |
| | | | | | | | | | | | Monitor Exceedances | | 43 | |
| | | | | | | | | | | | Exceedances Days | | 18 | |



PM_{2.5} DATA - STATEWIDE

| PM2.5 Annual Design Value (µg/m³) | | | |
|------------------------------------|------------|-------------------------|-----------------------|
| Site ID of Highest-Reading Monitor | County | 2021-2023 DV Unadjusted | 2021-2023 DV Adjusted |
| 39-003-0009 | Allen | 7.5 | 7.5 |
| 39-009-0003 | Athens | 6.1 | 6.1 |
| 39-013-0006 | Belmont | 7.8 | 7.8 |
| 39-017-0022 | Butler | 11.0 | 10.9 |
| 39-023-0005 | Clark | 9.4 | 8.8 |
| 39-035-0065 | Cuyahoga | 12.2 | 12.2 |
| 39-049-0038 | Franklin | 9.9 | 9.3* |
| 39-061-0014 | Hamilton | 10.7 | 9.9 |
| 39-061-0048 | | 10.1 | 10.1 |
| 39-081-0017 | Jefferson | 10.6 | 10.0 |
| 39-085-0007 | Lake | 7.2 | 7.2 |
| 39-087-0012 | Lawrence | 8.5 | 7.9 |
| 39-093-3002 | Lorain | 7.6 (Invalid) | 7.6 (Invalid) |
| 39-095-1003 | Lucas | 9.4 | 9.4* |
| 39-099-0015 | Mahoning | 9.0 (Invalid) | 8.5 (Invalid) |
| 39-103-0004 | Medina | 7.5 | 7.4 |
| 39-113-0038 | Montgomery | 9.6 | 9.0 |
| 39-133-0002 | Portage | 6.9 (Invalid) | 6.9 (Invalid) |
| 39-135-1001 | Preble | 8.7 | 8.0 |
| 39-145-0015 | Scioto | 7.8 | 7.7 |
| 39-151-0017 | Stark | 9.5 | 9.5* |
| 39-151-0020 | | 9.9 | 9.2* |
| 39-153-0017 | Summit | 8.7 | 8.6 |
| 39-155-0014 | Trumbull | 8.7 | 8.6 |

May-August 2024: U.S. EPA makes “adjustments” to data for certain high reading continuous instruments

9 **7** counties and 8 **6** areas (MSAs) with monitors > 9.0 µg/m³

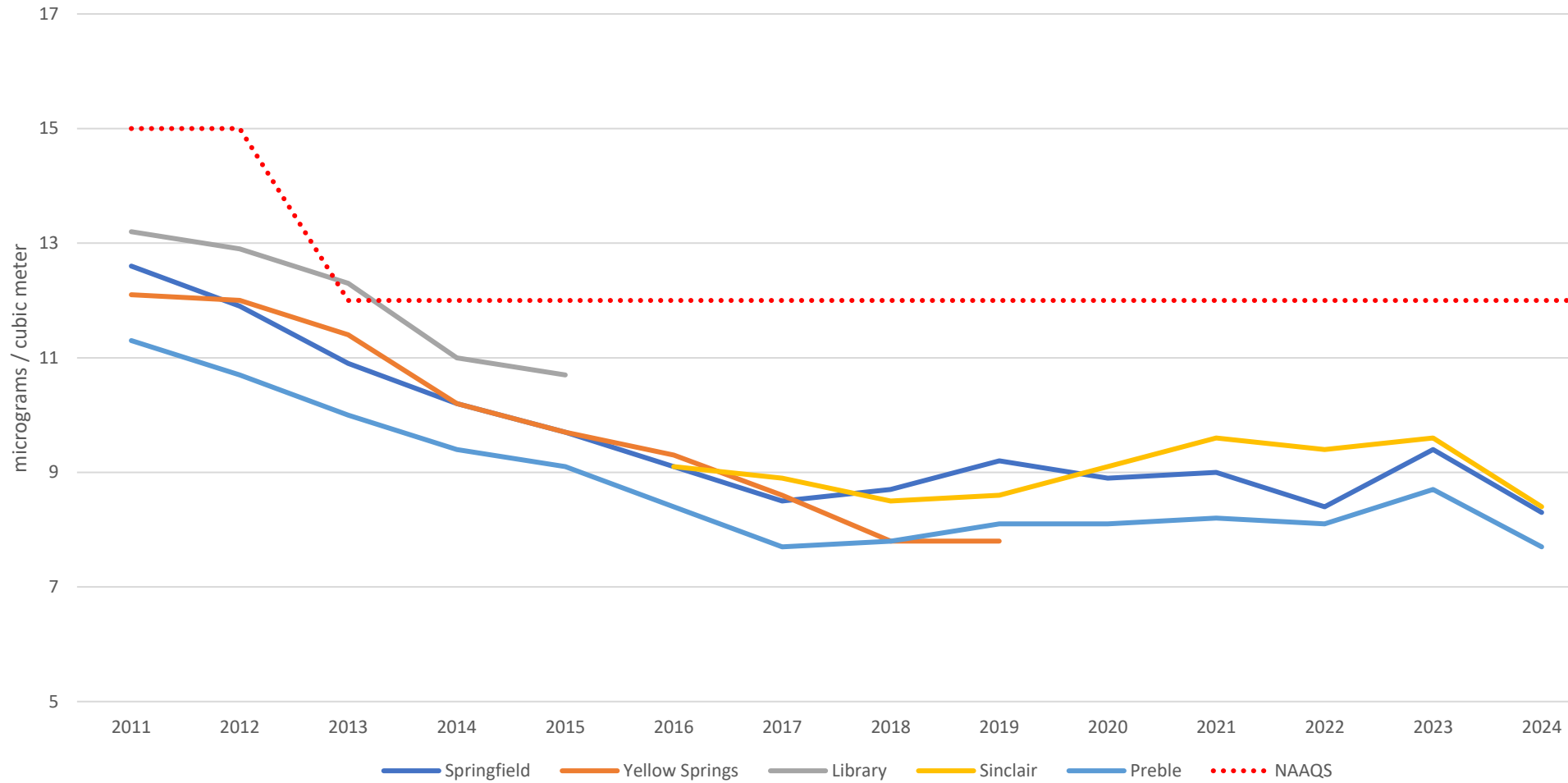
- Canton area: Stark County
- Cincinnati area: Butler County, Hamilton County
- Cleveland area: Cuyahoga County
- Columbus area: Franklin County
- ~~Dayton area: Montgomery County~~
- ~~Springfield area: Clark County~~
- Steubenville area: Jefferson County
- Toledo area: Lucas County

*Ohio will submit exceptional events demonstrations to U.S. EPA requesting that certain data at these monitors affected by Canadian wildfire smoke in the summer of 2023 be excluded from DV calculations. If approved, these monitors will have DVs at or below 9.0 µg/m³

RAPCA PM_{2.5} OUTLOOK

| | | 2024 | | | |
|-------------|-------------|---|------|------|-------------------|
| | | Weighted Mean Average (Micrograms/cubic meter) | | | |
| Site ID | Location | 2022 | 2023 | 2024 | 3-yr Design Value |
| 39-023-0005 | Springfield | 7.5 | 9.8 | 7.5 | 8.3 |
| 39-113-0038 | Sinclair | 7.9 | 9.8 | 7.5 | 8.4 |
| 39-135-1001 | Preble | 7.1 | 9.0 | 6.9 | 7.7 |

RAPCA PM_{2.5} Annual Design Values (Micrograms per cubic meter)





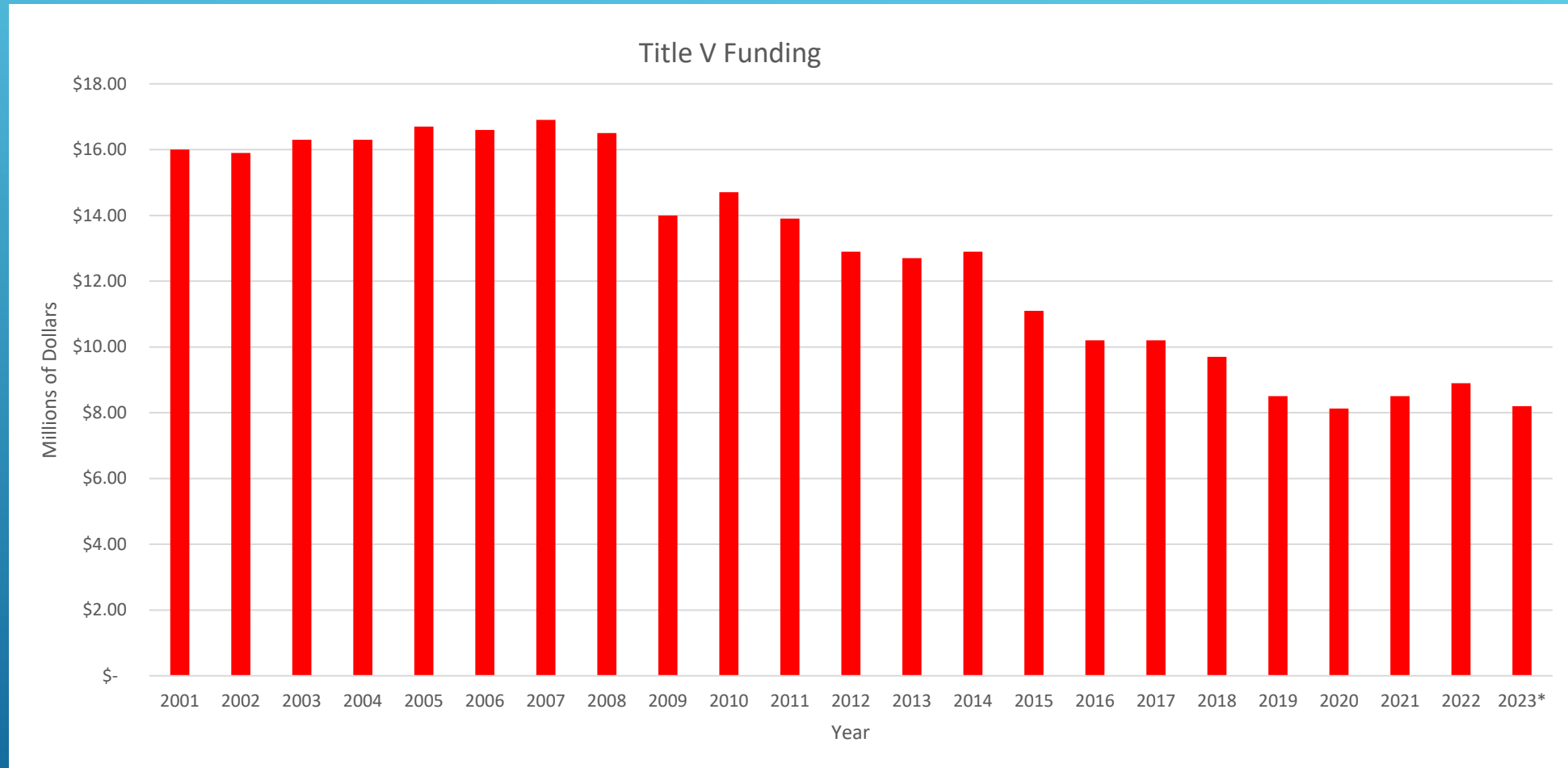
TITLE V FISCAL CHALLENGES

- Largest sources of revenue – power plants
- Title V emission reductions equates to significant decreases in Title V revenue
- U.S. EPA has identified Ohio EPA fee program as “Unsustainable”

TITLE V FISCAL CHALLENGES

- Ohio adopted the presumptive minimum for Title V sources in 1993
- Maintained that level of fees for 30 years
- The various emission reduction programs under the Clean Air Act has resulted in substantially less emissions
- Along with improving air quality, the result has been less revenue to the air program including the local air agencies

TITLE V REVENUE



When would the fees be effective?

As part of the SFY 26-27 Biennium Budget

| Fee | Proposed Increase | Effective Date | Date of Fee Increase/Billing Date |
|-----------------|-------------------|----------------|--|
| Title V Fee | Base Fee (\$5000) | Oct. 1, 2025 | First Billing: October 2025 Second Billing: ~July 1, 2026 |
| PTI Fee | 50% Increase | Oct. 1, 2025 | Applied to any permits issued after Oct. 1, 2025 |
| Synthetic Minor | Base Fee (\$5000) | Oct. 1, 2025 | First Billing: ~Oct. 1, 2025 |
| Synthetic Minor | 50% Increase | Jan. 1, 2026 | First Billing: ~July 1, 2027 |

TITLE V FEES IN OTHER STATES

- **Michigan: Facility Charge + emission fee**
 - \$5,250 to \$45,000
- **Indiana: Base fee (\$6,100) + emission fee + activity-specific fees**
 - e.g., modeling, stack tests, etc.
- **Pennsylvania: Annual operating permit maintenance fee (\$8,000/year) + emission fee**
- **Tennessee: The higher of \$4,000 base fee + \$/ton emission fee compared or \$10,000 minimum fee (2023)**



Public Health
Prevent. Promote. Protect.
Dayton & Montgomery County



RAPCA
Regional Air Pollution
Control Agency

STARTUP SHUTDOWN MALFUNCTION SIP CALL

- U. S. EPA settled a lawsuit with the Sierra Club that addresses rules associated with startup, shutdown and malfunctions in 36 states
- U.S. EPA proposed a “SIP Call” in 36 states (including Ohio) that require that states modify their rules because these rules contain language “inconsistent with the Clean Air Act”
- These states rules were previously approved by U.S. EPA – but are now objectionable
- State rule allow “Director’s discretion”
- U.S. EPA claims citizens suits are prevented

STARTUP SHUTDOWN MALFUNCTION SIP CALL

Objectionable Rule 1

OAC 3745-15-06(C) –
Malfunction of
equipment

Objectionable Rule 2

OAC rules 3745-17-07(A)(3)(c)
and 3745-17-07(B)(11)(f) –
Visible Emission
Rules

Objectionable Rule 3

OAC 3745-15-06(A)(3) –
Scheduled
maintenance

Objectionable Rule 4

OAC 3745-14-11(D) – NO_x
from Cement
Plants

STARTUP SHUTDOWN MALFUNCTION SIP CALL

- Ohio EPA provided detailed response to U.S. EPA on the proposal
- Requested that the Ohio Attorney General appeal SIP Call
- Appeal went to U.S. D.C. Court of Appeals



STARTUP SHUTDOWN MALFUNCTION SIP CALL

- Decided March 2024 - We won!
- However, we were already well underway to address these SIP Issues
- However, we already changed our rules – here are the changes
- Ohio EPA made rule changes to address the federal SIP Call and “modernize” some requirements in the rules.

STARTUP SHUTDOWN MALFUNCTION SIP CALL RULE REVISION #1

Added To OAC 3745-15-01:

- (P) "Malfunction" means any sudden, infrequent, and not reasonably preventable failure of air pollution control and monitoring equipment, process equipment, electronic software or hardware, or a process to operate in manner representative of normal source operation which is likely to cause, or has likely caused, emissions reasonably estimated to be in excess of the amount allowed by an applicable emissions limitation, standard, or permit term in the absence of a malfunction. Malfunctions include, but are not limited to, failures caused by power outages, sabotage, or acts of God. Failures that are attributable to poor maintenance or careless operation are not malfunctions. In accordance with paragraph (A)(1) of rule 3745-15-06 of the Administrative Code, maintenance of air pollution control equipment which is scheduled to prevent a malfunction which would occur within two weeks if the maintenance were not performed is considered to be a malfunction.

STARTUP SHUTDOWN MALFUNCTION SIP CALL STATE RULE REVISION PROCESS

- OAC 3745-15-06
- Immediate notifications, phone call or email to DO/LAA
- After-hours notification is now to be made to the Ohio EPA Emergency Response Spill Hotline
- Written notification will now be required if a malfunction event lasts longer than twenty-four hours, as opposed to the previous requirement of seventy-two hours.
- More detailed information in the notification itself which is to be submitted within one week of the event rather than two.

STARTUP SHUTDOWN MALFUNCTION SIP CALL STATE RULE REVISION PROCESS

- OAC 3745-14-11- NOx limitations for Portland Cement Plants
- Ohio EPA has removed paragraph (D) which exempted entities from requirements with the rule during maintenance and startup/shutdown

This is because the two plants in the state will now fall under the regular provisions.

STARTUP SHUTDOWN MALFUNCTION SIP CALL STATE RULE REVISION PROCESS

- Title V rules – July 21, 2023, EPA final rule removing “emergency” affirmative defense provisions removing affirmative defense provisions from 40 CFR 70.6(G)
- OAC rule 3745-77-07(G) to be rescinded, Proposed rule out for comment until April 11, 2025

ANAEROBIC DIGESTERS



DIGESTER ISSUES



- Non-agricultural feed wastes - food wastes, biosolids
- Methane gas created was used to fuel on-site equipment or flared
- Waste stock may not be suitable for digesters, reducing gas creation and contributing to odors
- Lots of odor issues at many sites around the state (feedstock receiving areas and lagoons)

DOVETAIL ENERGY









Dovetail Energy

- Hog manure and non-agricultural feed wastes - food wastes, biosolids
- Methane gas created was used to fuel on-site electric generator that sold power or flared
- Open surface digestate storage lagoon, 220 feet diameter, 20 feet deep, over 5,000,000 gallons
- Does the digestate lagoon need an air pollution permit? According to testing OC emissions could be around 50 tons/year
- Over 1,000 complaints from 2021-2023, Ohio EPA declared a nuisance and Ohio AG consent decree – permanent shutdown 2024







PATH FORWARD

- More stringent DAPC requirements
- Not de minimis sources, even though calculations are challenging
- Entire process needed to be examined for sources of odors, not just the digester
 - All material handling and storage
- May need backup equipment to minimize odors
- State of the art facility – Synthica in St Bernard

DATA CENTERS, HERE COMES AI!

- Fast growing industry sector
- Lots of power needed, some with on-site turbines, numerous emergency generators
- Dispersion modelling challenges
- 5C Data Center proposed in Springfield
 - 48 generators, synthetic minor Title V permit

NEW U.S. EPA ADMINISTRATION

March 12, 2025

“Today is the greatest day of deregulation our nation has ever seen.”

Lee Zeldin, Administrator, U.S. EPA

17 news releases regarding air pollution regulations

NEW U.S. EPA ADMINISTRATION

- Some Air rules for reconsideration:
 - Power Plant rules, NSPS and MACT
 - PM 2.5 NAAQS
 - NO_x good neighbor rules and more
- 2009 CO₂ endangerment finding
- Uncertainty for federal funding and staffing

QUESTIONS

EILEEN MORAN – EMORAN@RAPCA.ORG

ANDY WEISMAN – AWEISMAN@RAPCA.ORG

