

# State Implementation Plan Updates

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# Discussion Goals

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- Quick review of what a 'SIP' is
- Learn about recent SIP work AQD has completed related to the following:
  - 2015 Ozone NAAQS
  - SO<sub>2</sub>: Primary and Secondary NAAQS
  - 2024 PM<sub>2.5</sub> NAAQS

Overview

# STATE IMPLEMENTATION PLAN

# National Ambient Air Quality Standards (NAAQS)

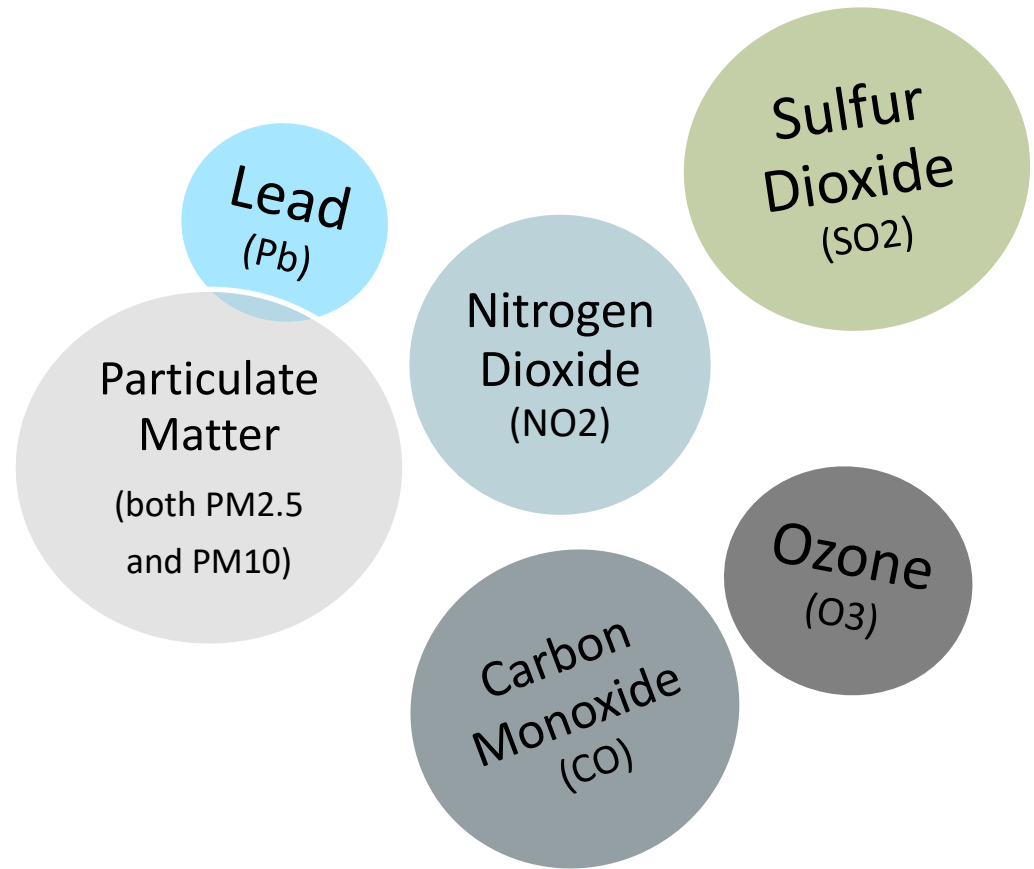
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## Primary Standard

- protects public health, including "sensitive" populations such as asthmatics, children, & the elderly

## Secondary Standard

- protects public welfare, including against decreased visibility and damage to animals, crops, vegetation, & buildings



# SIP and Rule Writing

State Implementation Plans or SIPs are a set of air quality requirements.



These are created by the state and then approved by the U.S. Environmental Protection Agency to make them federally enforceable.



This allows the State of Michigan to run their own air quality regulatory program.



Rule making and development of SIPs, includes evaluation of when Air Pollution Control Rules need to be added or updated.

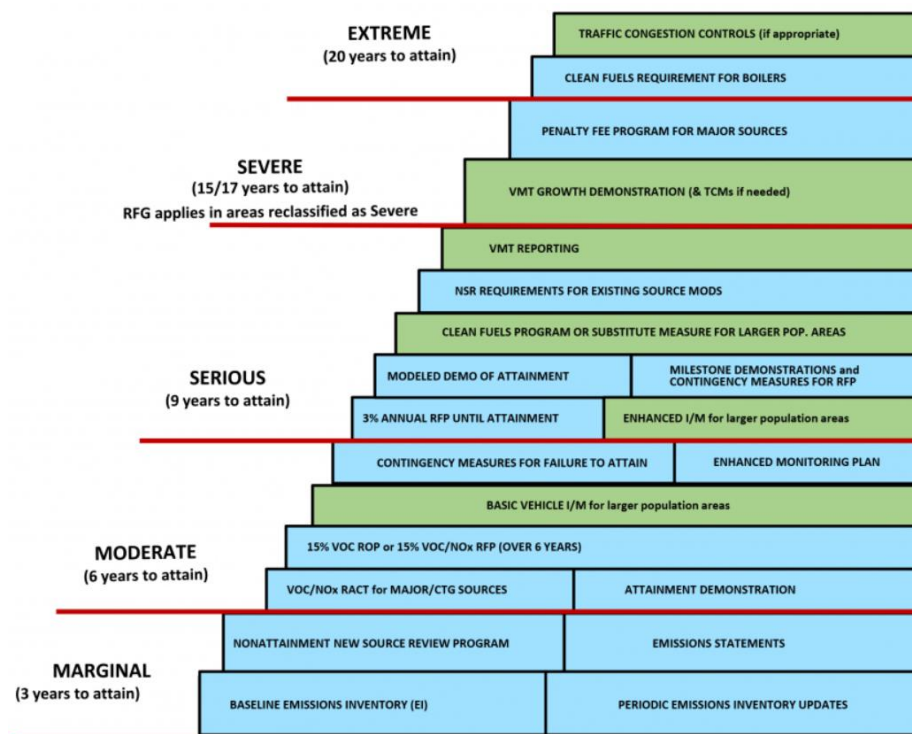


Rules may be opened for public comment.

# OZONE UPDATES

# West Michigan: Serious Reclassification

- **Attainment Plan SIP** (All NAAs)
- **VOC RACT:**
  - Negative Declaration (Muskegon)
  - Case-by-case (Berrien - completed and Allegan - ongoing)
- **NO<sub>x</sub> RACT:**
  - NO<sub>x</sub> Waiver Request (Berrien and Muskegon)
  - NO<sub>x</sub> RACT Case-by-Case (Allegan- ongoing)



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

# West Michigan: Exceptional Events (EE)

## December 26, 2025:

EGLE submitted an “Exceptional Events Demonstration” for Berrien and Muskegon nonattainment areas addressing the following dates:

- June 19, 29, 30 (2023)
- July 25, (2023)
- July 15, (2025)

## January 12, 2026:

USEPA concurred on the EE Demos

### Ozone - Tier 3

Clear, causal relationship using weight of evidence:

- comparison of historical concentrations

- evidence that fire emissions affected the monitor

- evidence that emissions were transported to the monitor

Additional evidence that the fire emissions caused the ozone exceedance:

- matching day analyses

- statistical regression models

- photochemical models



# West Michigan: Exceptional Events (EE)

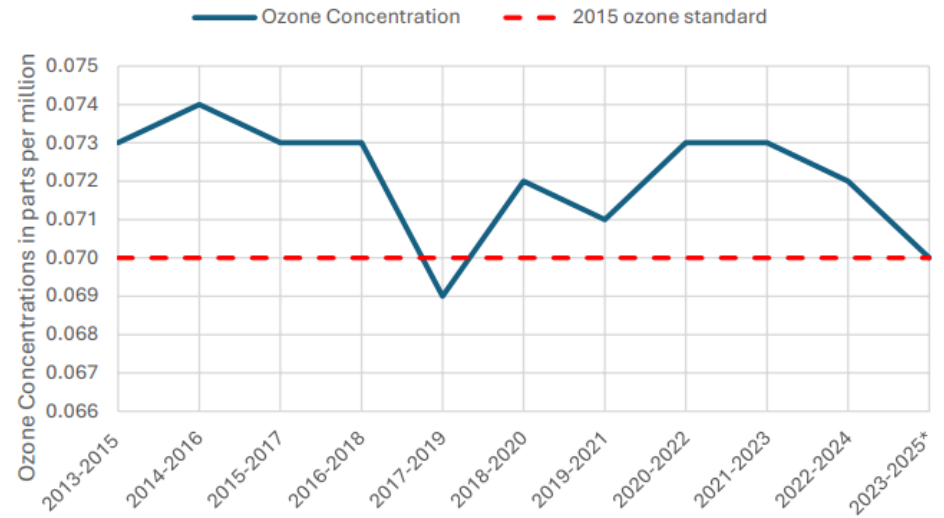
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| Monitoring Site                                           | 2023 – 2025 Design Value (DV) without USEPA Concurrence | 2023 – 2025 DV with USEPA Concurrence | # Days in EE Demo |
|-----------------------------------------------------------|---------------------------------------------------------|---------------------------------------|-------------------|
| <b>Coloma</b><br>(26-021-0014)<br><i>(Berrien County)</i> | 71 parts per billion (ppb)                              | 70 ppb                                | 2                 |
| <b>Muskegon</b><br>(26-121-0039)                          | 71 ppb                                                  | 70 ppb                                | 5                 |

# West Michigan: Redesignation and Maintenance Requests

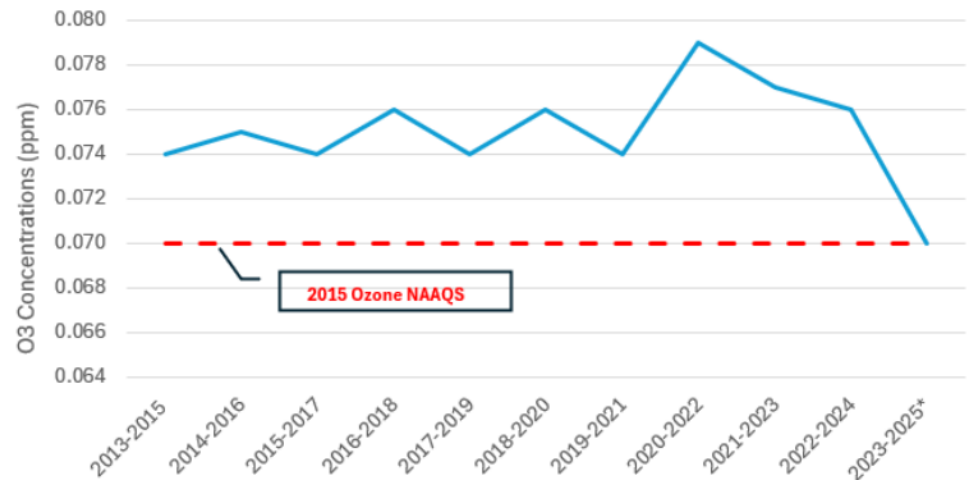
- **Purpose:** Request attainment for an area that has monitoring data that is below the NAAQS.
- **Submittal:** EGLE submitted Requests for Redesignation and Maintenance for Berrien and Muskegon areas on December 26, 2025.
- **Next Steps:** Waiting for USEPA decision.

Ozone Concentrations Over Time (Berrien – Coloma Monitor)



\*design value with USEPA agreement on Exceptional Events Demonstration

Ozone Concentrations Over Time (Muskegon Monitor)



\*design value with USEPA concurrence on Exceptional Events Demonstration

# SEMI: Timeline

## 2015 Ozone standard, initial marginal designation (2018)

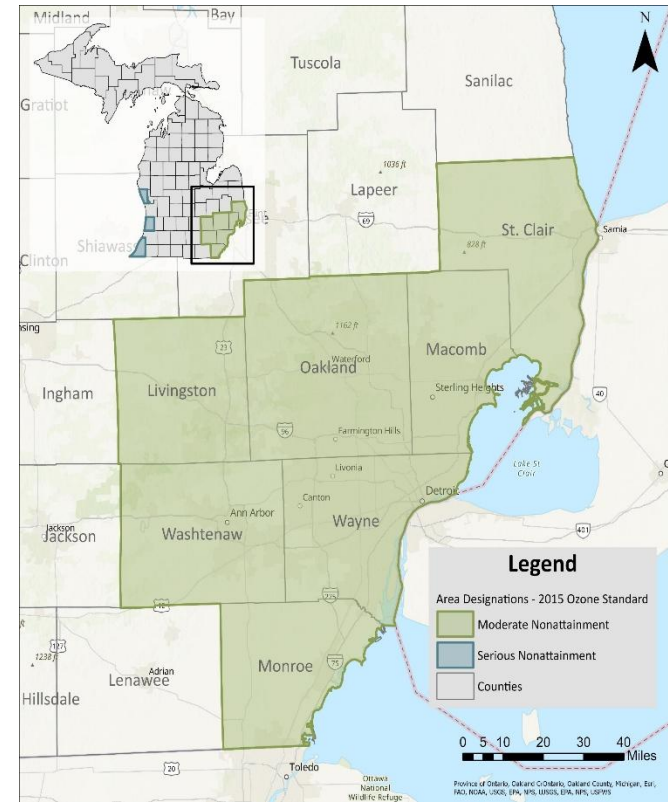
## EGLE submits Redesignation (2022)

## Bump up to Moderate (March 2023)

EPA approves Redesignation – designated attainment (May 2023)

## Court Decision (Dec. 2025)

## Moderate Designation (May 2026)



# SEMI:

## Addendum to Redesignation and Maintenance Plan

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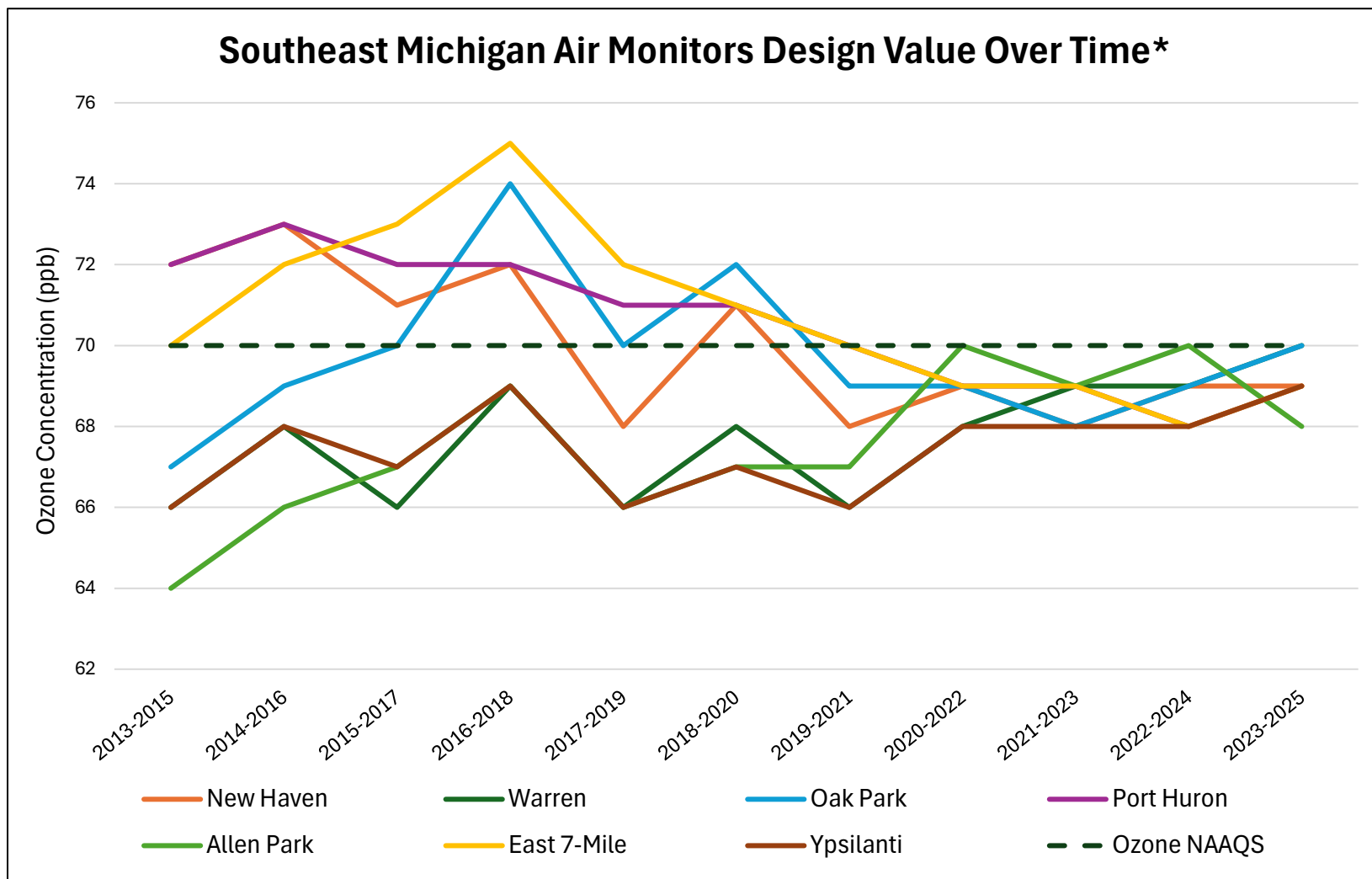
The 7-county area is in nonattainment.



Air monitoring data shows the area is meeting the standard.



This addendum updates portions of the original 2022 request for redesignation.



**\*With EPA concurrence on pending exceptional event demonstration**

# SEMI:

## Exceptional Events (EE)

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- **February 19, 2026:** EGLE submitted an “Exceptional Events Demonstration” addressing the following dates:
  - June 19, 29, 30 (2023)
  - July 25, (2023)
- **March 24, 2026:** USEPA concurred on the EE Demo
- **April 2026:** EGLE submitted an “Exceptional Events Demonstration” addressing the following dates:
  - June 29, 30 (2023)
  - July 15 (2025)
- **June 4, 2026:** USEPA concurred on the EE Demo

# SEMI: Exceptional Events (EE)

| Monitoring Site                               | 2023 – 2025 Design Value (DV) without USEPA Concurrence | 2023 – 2025 DV with USEPA Concurrence | # Days in EE Demo |
|-----------------------------------------------|---------------------------------------------------------|---------------------------------------|-------------------|
| <b>Allen Park</b><br>(26-163-0001)            | 69 parts per billion (ppb)                              | 68 ppb                                | 2                 |
| <b>Detroit – East 7 Mile</b><br>(26-163-0019) | 72 ppb                                                  | 69 ppb                                | 4                 |
| <b>Oak Park</b><br>(26-125-0001)              | 71 ppb                                                  | 70 ppb                                | 3                 |
| <b>Port Huron</b><br>(26-147-0005)            | 71 ppb                                                  | 69 ppb                                | 3                 |

# SEMI:

## Addendum to Redesignation and Maintenance Plan



Public Comment: March 23, 2026 – April 22, 2026



Virtual Public Hearing: April 22, 2026



Comments received in support and not in support



No changes were made based on comments



May 18, 2026: Addendum submitted to EPA



# SULFUR DIOXIDE (SO<sub>2</sub>)

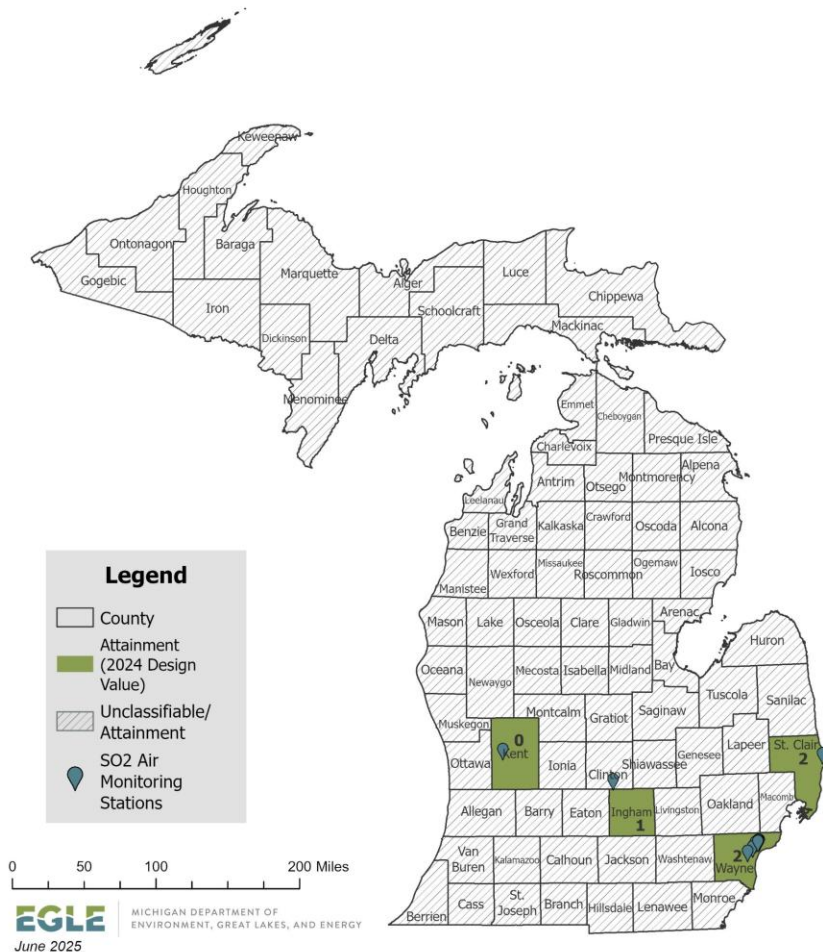
# SO<sub>2</sub> – Primary and Secondary NAAQS

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- Primary NAAQS = 75 parts per billion (ppb)
  - Revised in 2010
- Secondary NAAQS = 10 ppb (averaged over 3 years)
  - Revised December 2024

# SO2 – Secondary NAAQS

## Michigan's 2024 Secondary SO2 NAAQS Designation Recommendation

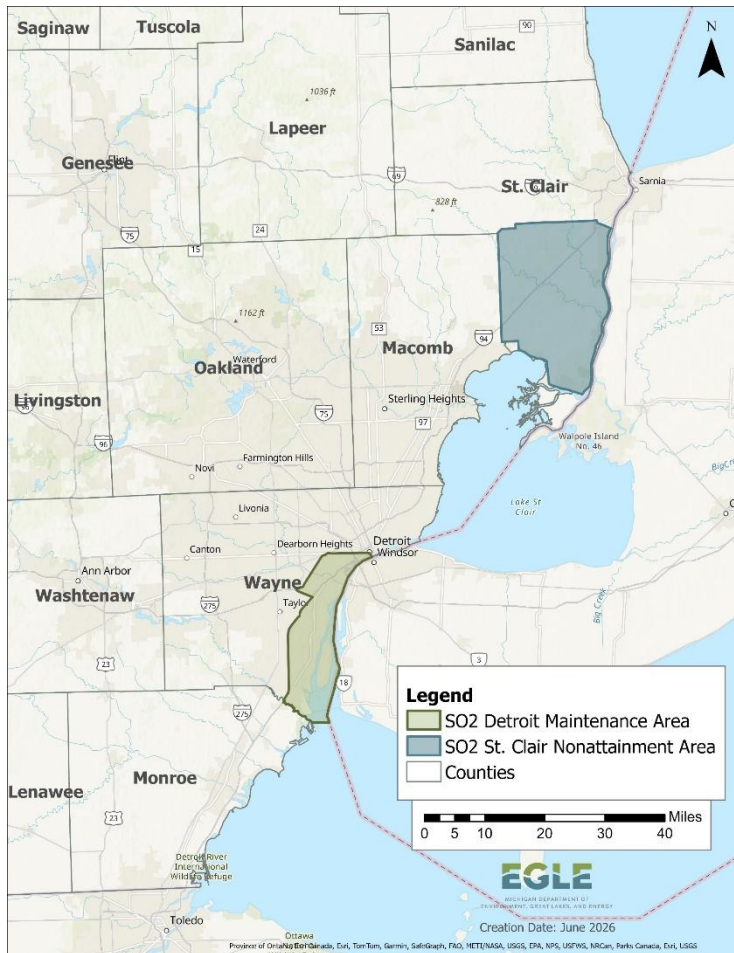


Based on monitoring data from 2022 through 2024

EGLE recommended attainment and unclassifiable/attainment designations

USEPA has yet to issue final designations

# Primary SO<sub>2</sub> nonattainment and attainment/maintenance areas



Wayne County:  
attainment/maintenance



St. Clair County:  
nonattainment

# Wayne County: Timeline

June 2010 – USEPA revised the 2010 SO<sub>2</sub> standard



July 2013 - USEPA designated a portion of Wayne County as "nonattainment"



May 2025 – USEPA approved EGLE's attainment plan

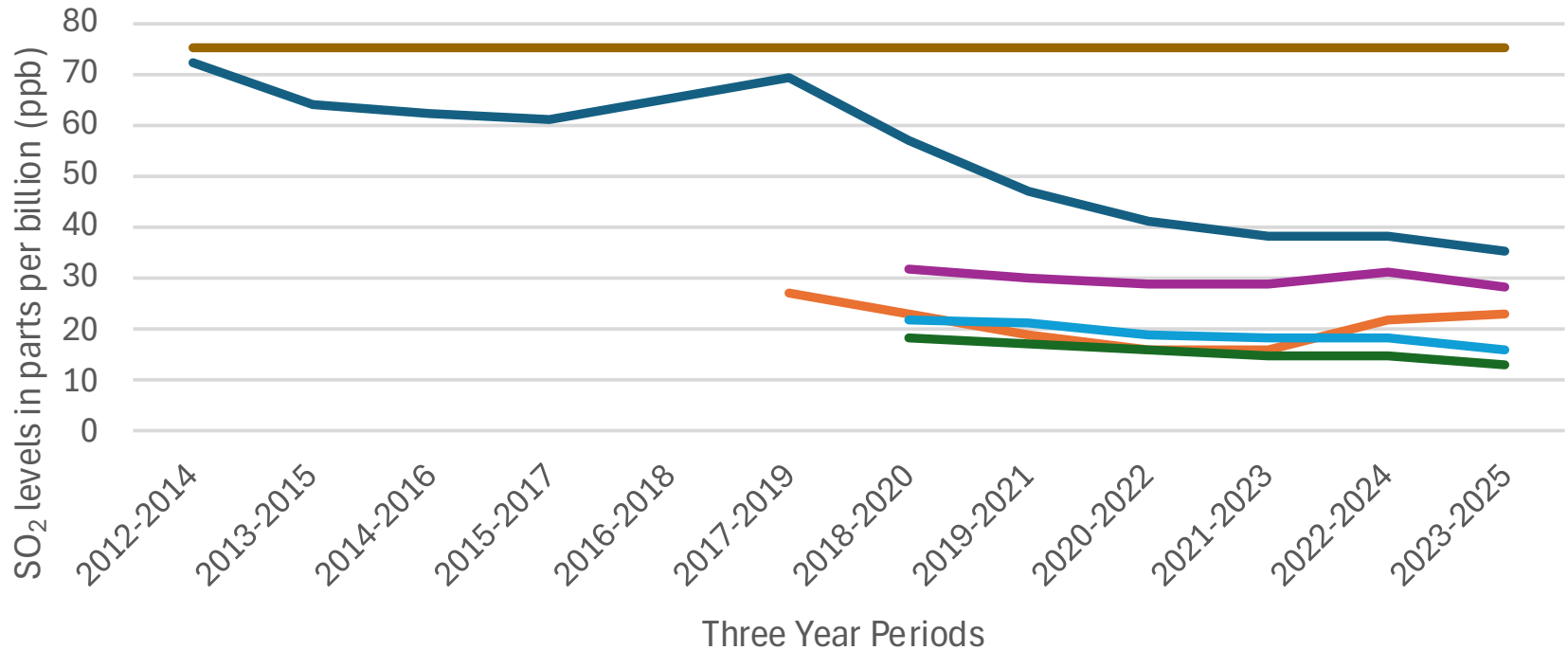


May 2025 – EGLE submitted a request for redesignation



May 19, 2026 – USEPA redesignated the area back to attainment/maintenance

## Sulfur Dioxide (SO<sub>2</sub>) Levels Over Time



# St. Clair County: Timeline

June 2010 – USEPA revised the 2010 SO<sub>2</sub> NAAQS



July 2016 - USEPA designated a portion of St. Clair County as "nonattainment"



December 2021 – USEPA issued a Clean Data Determination



December 2024 – USEPA made a determination of attainment



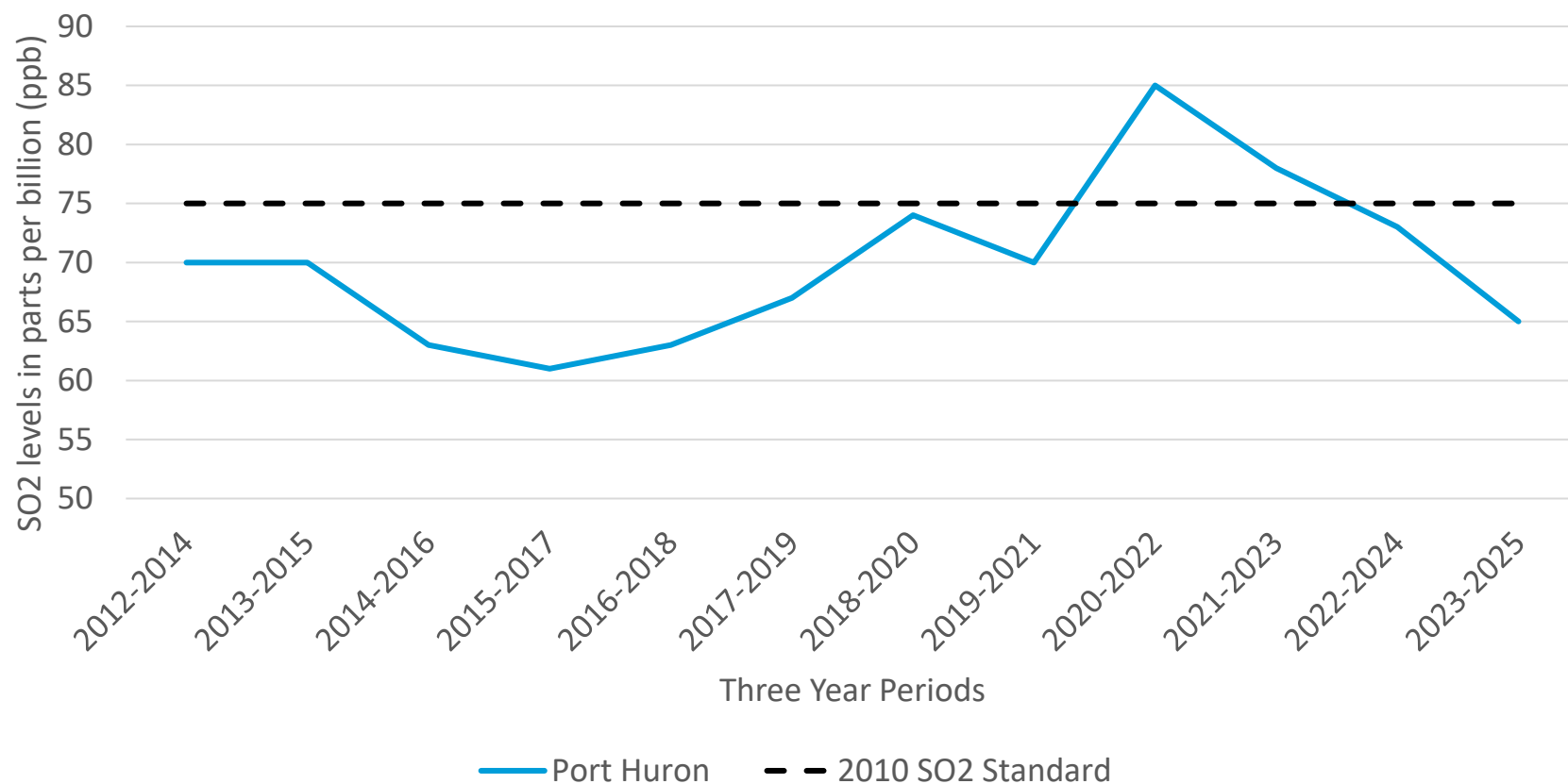
July 2025 – EGLE submitted a request for redesignation



April 2026 – USEPA proposed a final rule to redesignate the area back to attainment

# St. Clair County: Port Huron Monitor

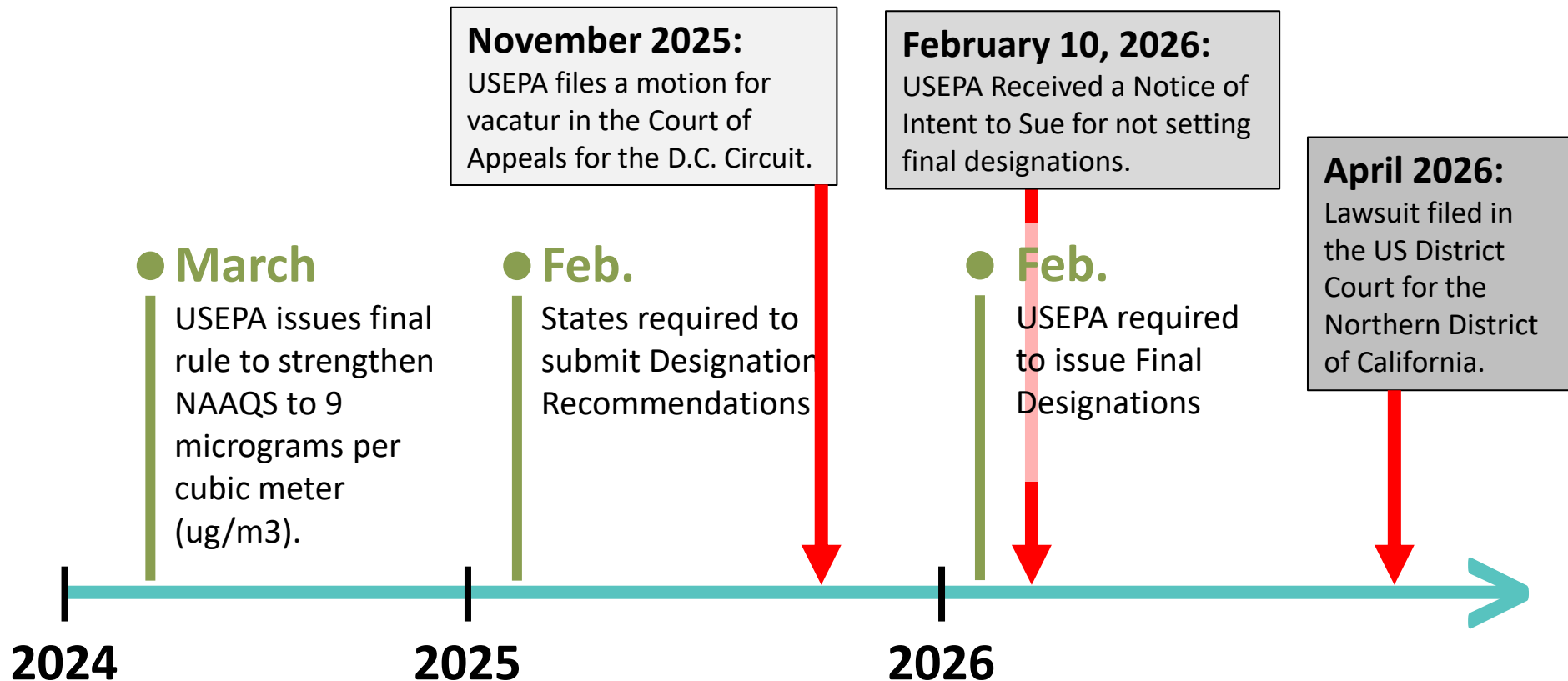
Sulfur Dioxide (SO<sub>2</sub>) Levels Over Time



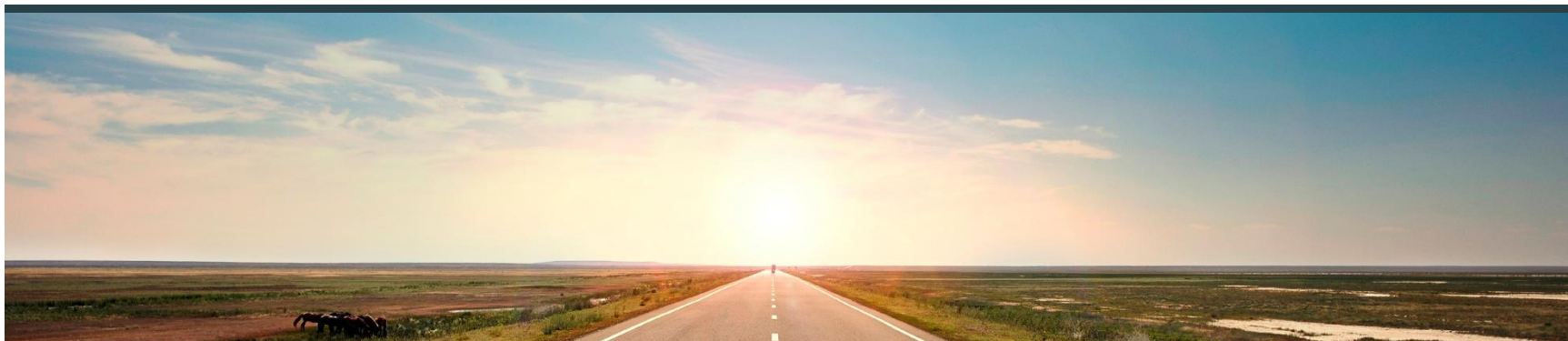


# **PARTICULATE MATTER 2.5 (PM2.5)**

# PM2.5: Timeline



# What's on the horizon?



- Continue working towards ozone attainment for the Allegan nonattainment area
- Monitor actions for the 2024 PM2.5 Standard
- Await USEPA decisions on Redesignation Requests

A blurred background image of a conference or meeting. Several people are visible, with their hands raised in the air, suggesting an interactive session or a Q&A period. The focus is on the hands in the foreground, while the people and the room are out of focus.

# QUESTIONS

Thank you!!