



MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY

Air Quality Division

Mary Ann Dolehanty, Director

MISSION: PROTECT MICHIGAN'S AIR

EGLE ensures Michigan's air remains clean by regulating sources of air pollutants to minimize adverse impact on human health and the environment.



Air Quality Division Overview

- Air monitoring
- Permitting
- Compliance
- Inspections
- Complaints
- Emissions Reporting
- Planning

Air Quality Division 2021/2022 Priorities

Ozone NAAQS Attainment

Sulfur Dioxide NAAQS
Attainment

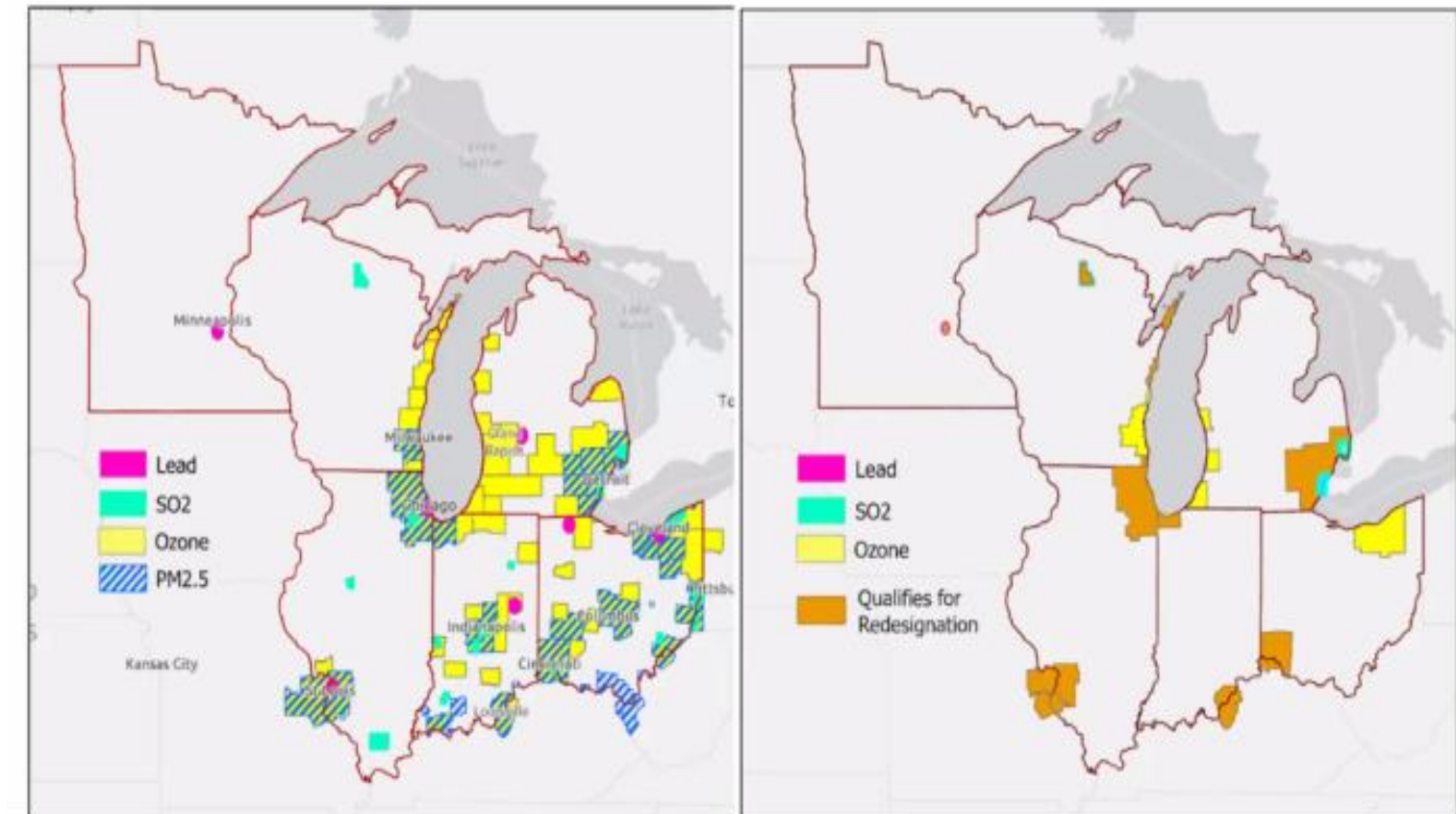
Information Technology
Modernization

Public Engagement

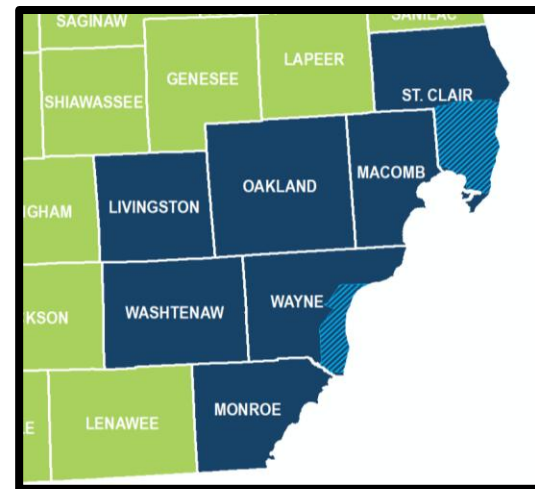
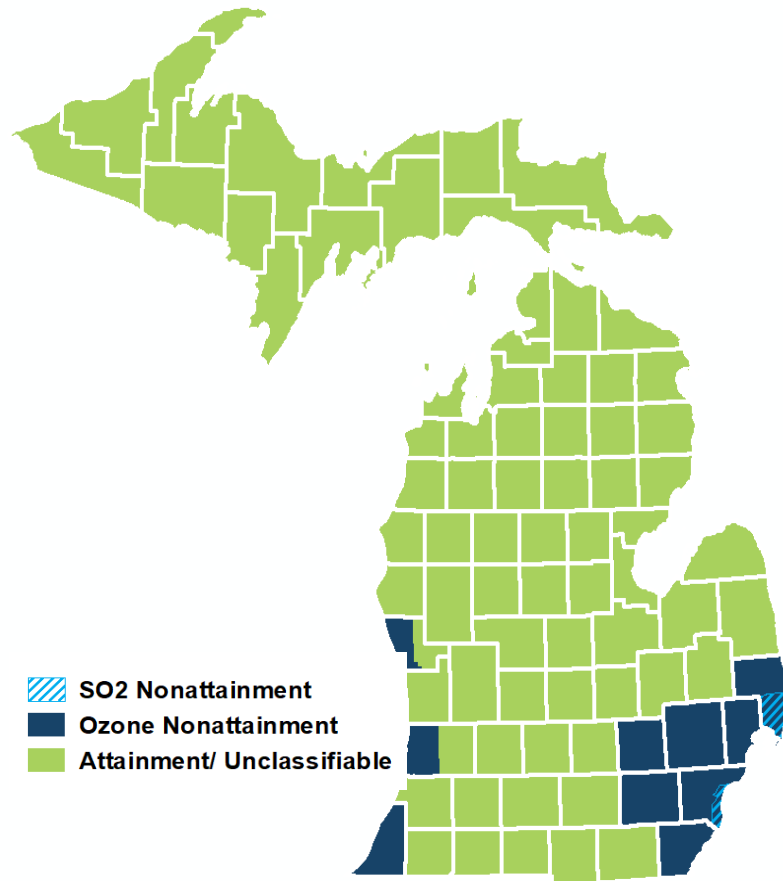
Nonattainment in Region 5

Since 2004

Current



NAAQS Attainment Status Map



On-going Planning Efforts

- Control Strategy Stakeholder Groups
- Identification of additional control measures
- LADCO regional modeling platform development
- Southeast Michigan HI-RES modeling platform development
- MOOSE Study



Southeast Michigan Ozone Status

- Favorable ozone concentrations this summer
- Evaluating 2021 monitoring data for possible redesignation

Summary of the Highest 8-Hour Ozone Values for 2021 for All Sites in Michigan

2021 Data subject to validation. Updated through 8/1/2021.

Colored cells indicate multiple monitors within a single MSA, except for tan shaded cells which are tribal monitors. White cells are individual sites or MSAs operated by MDEQ.

Max Allowable is the maximum 4th highest 8-hr value that will still meet the 3-Year NAAQS level of 0.070 ppm. Max Allowable value is calculated using the 4th highest 8-hr values from the two previous years on a site by site basis.

Dates shown above a site are the date the violation occurred, and data is colored red when the 4th high exceeds the max allowable thus violating the NAAQS.

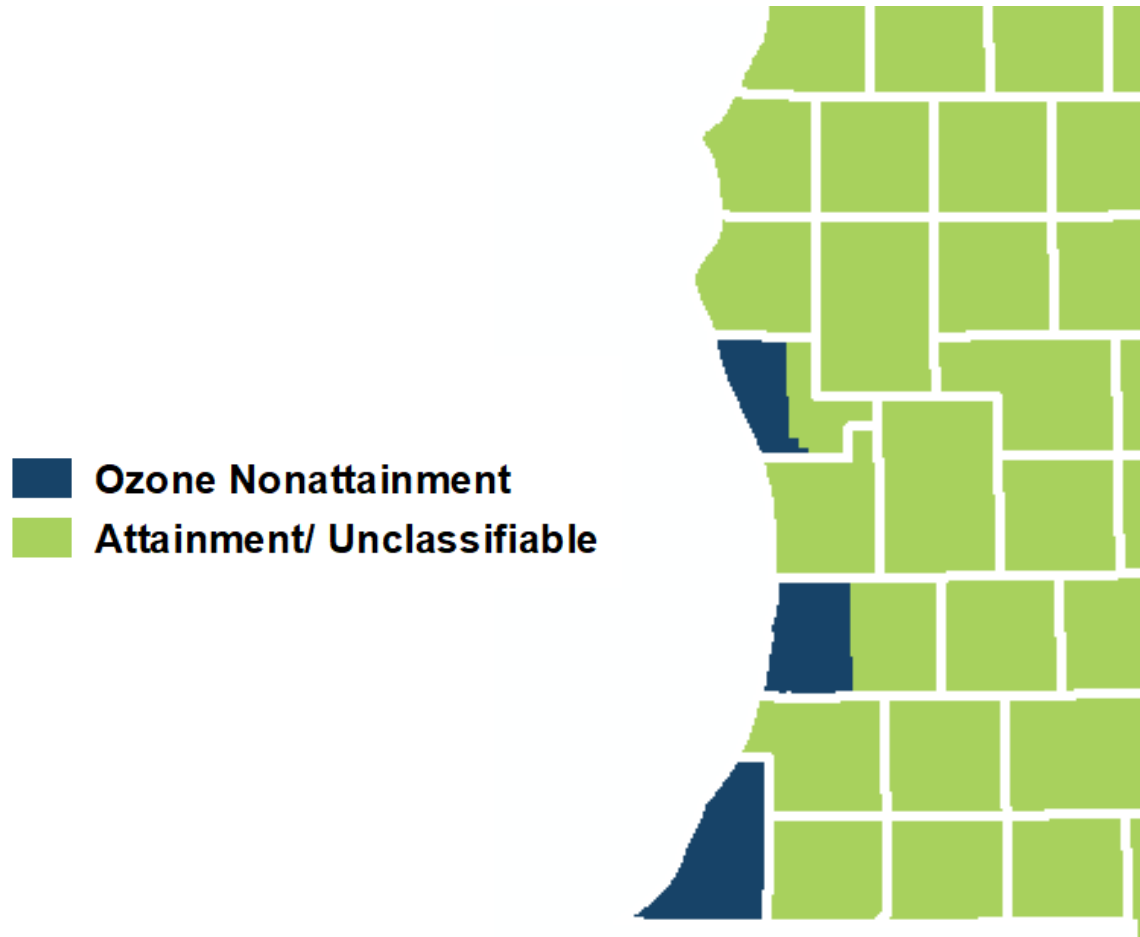
VALUES ABOVE MAX. ALLOW. ARE BOLD

All readings greater than 60 ppb are listed in this table.

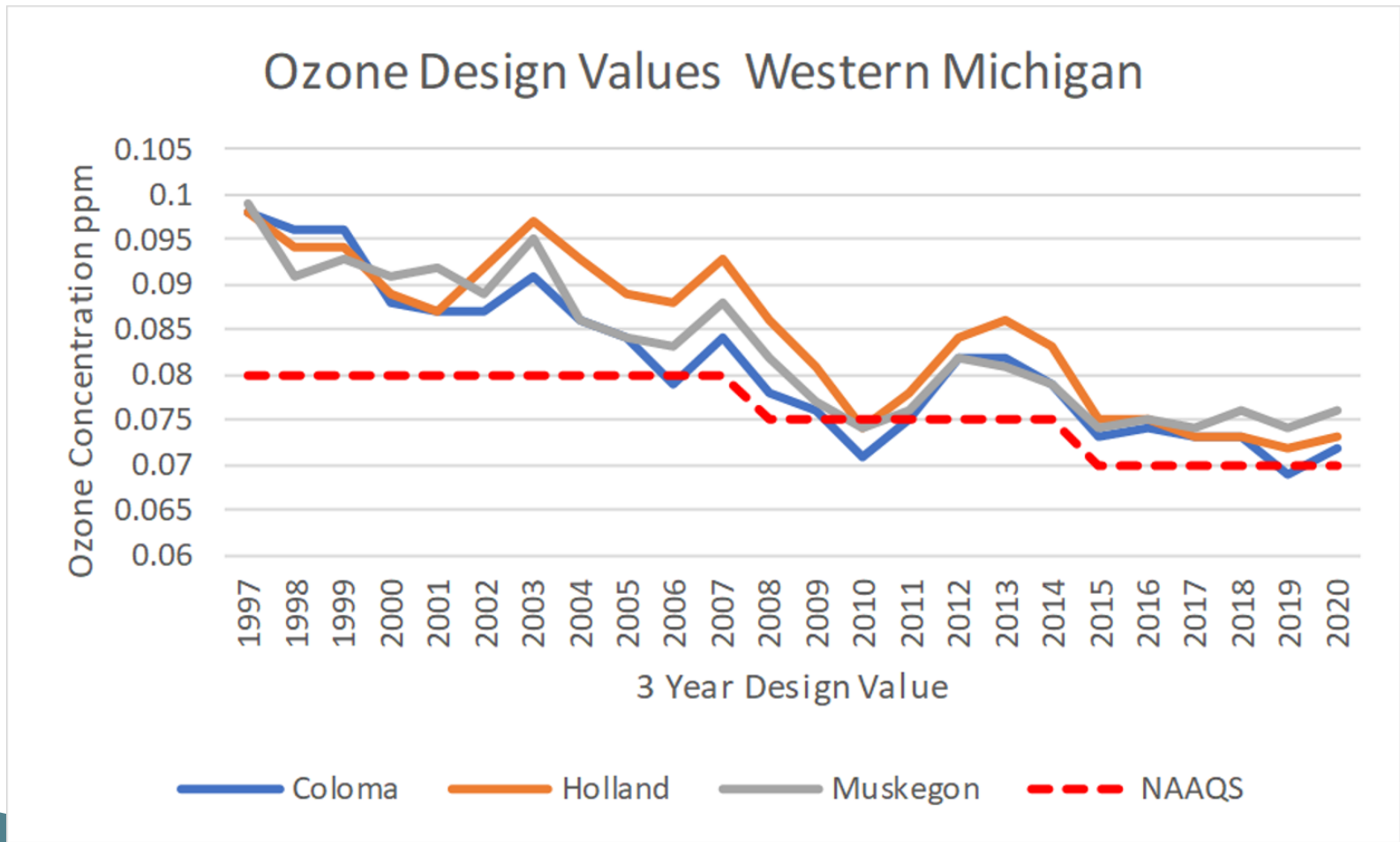
Readings coded in green are new additions to the table.

Southeast Michigan Non-attainment Area (NA)															
261630001 Allen Park Max Allowable 80 ppb		261630019 E-7 Mile Max Allowable 71 ppb		260990009 New Haven Max Allowable 75 ppb		261250001 Oak Park Max Allowable 72 ppb		261470005 Port Huron Max Allowable 73 ppb		260910007 Tecumseh Max Allowable 86 ppb		260991003 Warren Max Allowable 80 ppb		261610008 Ypsilanti Max Allowable 80 ppb	
Value, ppb	Date	Value, ppb	Date	Value, ppb	Date	Value, ppb	Date	Value, ppb	Date	Value, ppb	Date	Value, ppb	Date	Value, ppb	Date
73	6/5/21	71	5/18/21	74	6/17/21	71	6/5/21	76	6/17/21	68	6/4/21	71	6/5/21	70	6/5/21
71	6/12/21	71	6/5/21	73	6/5/21	70	5/18/21	73	6/12/21	67	5/18/21	68	6/17/21	68	5/18/21
70	6/17/21	70	6/1/21	70	7/25/21	69	6/12/21	72	6/4/21	67	6/5/21	67	6/12/21	66	6/4/21
69	6/6/21	69	6/12/21	69	6/1/21	68	6/17/21	72	6/5/21	66	6/17/21	66	6/4/21	66	6/1/21
68	6/1/21	69	6/17/21	68	6/4/21	66	6/4/21	70	5/18/21	63	6/1/21	66	6/6/21	66	6/17/21
68	7/28/21	68	5/15/21	67	6/6/21	65	5/15/21	70	5/2/21	61	5/15/21	65	6/1/21	64	5/20/21
66	6/4/21	68	5/2/21	67	6/28/21	65	5/20/21	67	6/6/21	60	5/20/21	64	5/18/21	63	5/15/21
64	6/20/21	67	6/4/21	66	5/18/21	65	6/1/21	66	6/1/21			62	5/2/21	63	5/19/21
63	6/24/21	67	6/6/21	66	5/2/21	63	5/16/21	65	6/20/21			62	6/20/21	63	6/1/21
61	5/18/21	65	5/19/21	65	7/24/21	63	5/19/21	64	5/15/21			61	5/15/21	62	6/6/21
61	5/3/21	65	5/20/21	63	6/12/21	63	5/2/21	62	5/19/21			60	6/1/21	60	5/16/21
61	6/1/21	65	6/20/21	62	6/1/21	63	6/6/21	61	5/3/21			60	7/28/21	60	5/17/21
60	5/2/21	63	5/16/21	62	6/20/21	62	7/28/21	61	6/24/21			60		60	6/12/21
		63	5/17/21	61	5/15/21	61	4/7/21	61	7/28/21						
		62	4/27/21	61	5/16/21	60	5/17/21	60	5/17/21						
		62	6/24/21	61	5/19/21	60	6/1/21	60	5/20/21						
		61	5/3/21	61	5/3/21										
		60	4/7/21	60	5/17/21										
		60	5/14/21	60	5/20/21										
				60	6/24/21										

West Michigan Designations

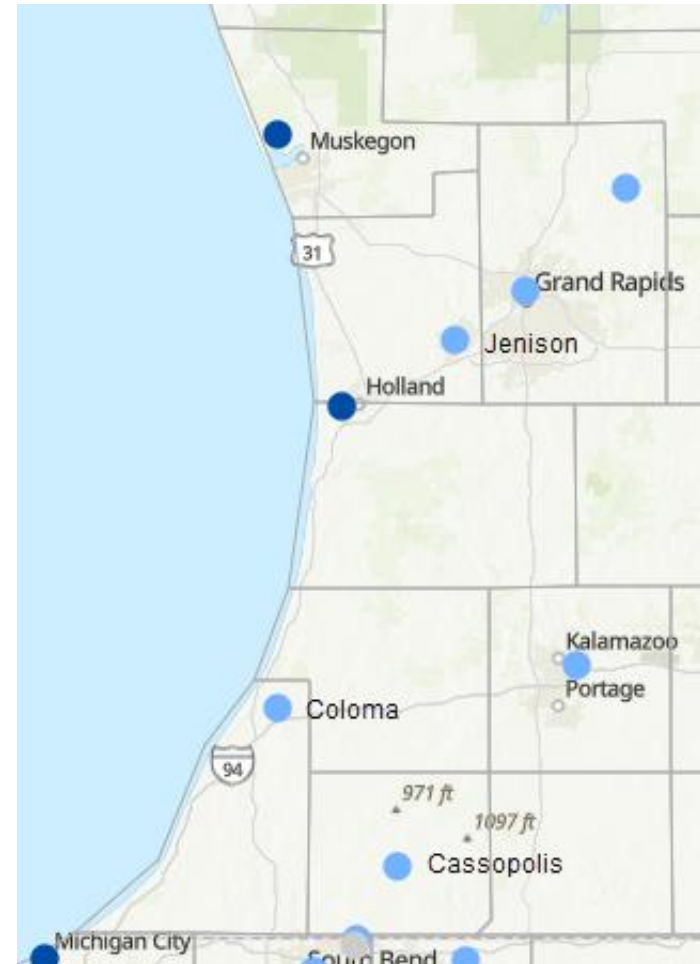


Ozone Design Values Western Michigan



West Michigan Ozone Monitoring

Key Monitor	2017 - 2019 Design Values (ppb)	2018 – 2020 Design Value (ppb)	2021 Max Allowable (ppb)
Muskegon	74	76	64
Jenison	67	71	72
Holland	72	73	65
Coloma	69	72	68
Cassopolis	70	71	73



West MI Ozone Planning

- Keeping tabs on developments across the lake
- Work with LADCO / Lake Michigan border states on control strategies
- Stakeholder group for Reasonably Available Control Technology (RACT)
- 15% VOC Reasonable Further Progress (RFP)
- Attainment Demonstration



Exceptional Event Evaluation for Western Michigan

unusual or naturally occurring event that is not reasonably controllable and can affect air quality

includes wildfires, high wind dust events, prescribed fires, stratospheric ozone intrusions, and volcanic and seismic activities

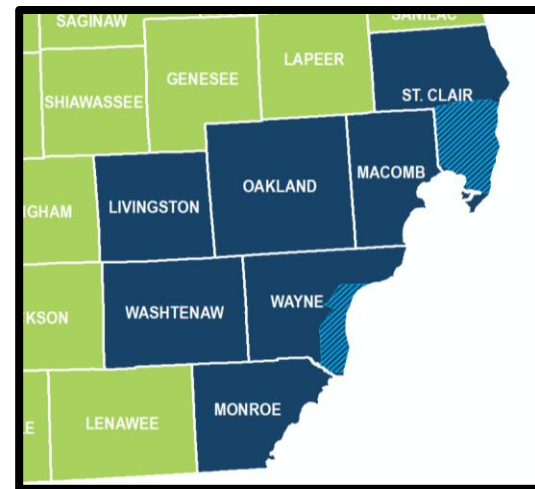
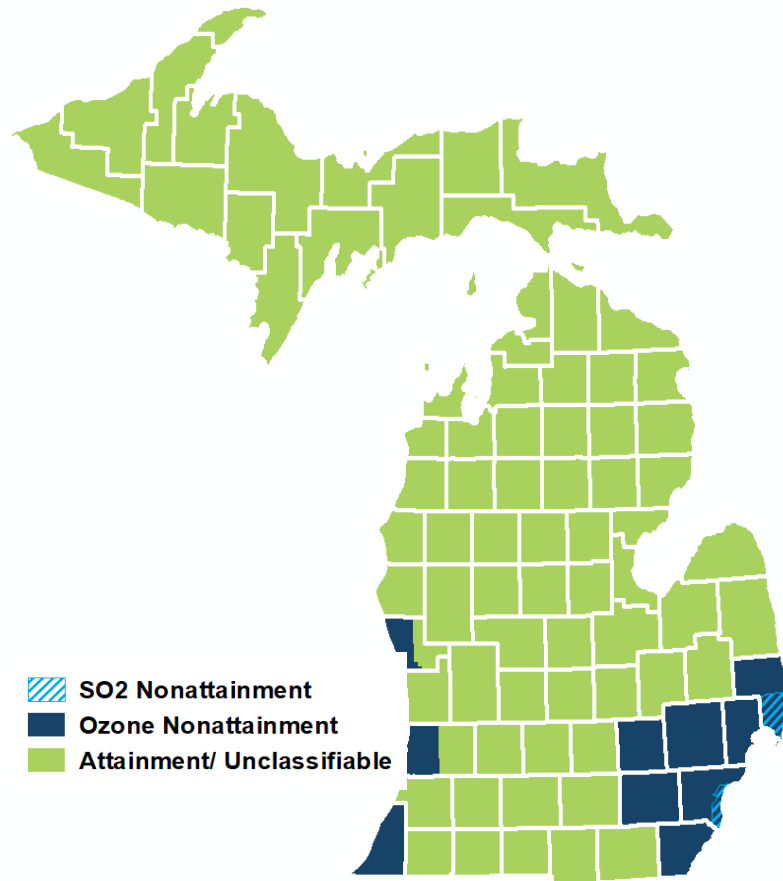
allows the event influenced data to be excluded from the Design Value (DV) calculation

Online Resources

- Michigan EGLE 2015 Ozone Planning Website
 - https://www.michigan.gov/egle/0,9429,7-135-3310_70940-515124--,00.html
- Michigan EGLE MIAir
 - <http://www.deqmiair.org/>
- EPA AirNow
 - <https://www.airnow.gov/>



NAAQS Attainment Status Map

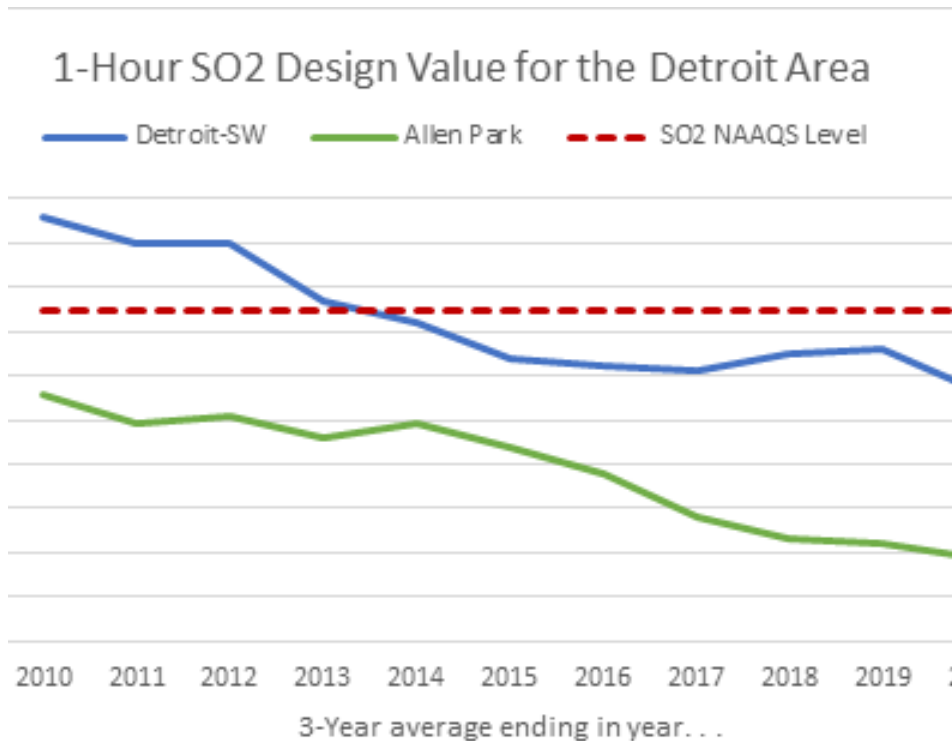


SO2 Attainment Planning

St. Clair County

- July 24, 2020, Clean Data Determination sent to EPA for approval
- October 26, 2021, Federal Register notice proposing to approved the base year emissions inventory for the 2010 SO2 standard and nonattainment new source review program

SO2 Attainment Planning Wayne County



10/27/21 Federal Register Notice

EPA has been pursuing a FIP

MI will incorporate into SIP and seek redesignation

Air Quality Division IT Modernization Strategy



- Division has several outdated databases
- Goal is to develop a comprehensive data system across multiple AQD business units
- Key Aspects –
 - Electronic submissions
 - External interface
 - Data reporting capabilities

Air Quality Data Functions

- Compliance / Enforcement Tracking
- Air Use Permit Evaluation / Tracking
- Electronic Asbestos Notifications
- Annual Emission Reports
- AQ Fee Invoicing
- Track air quality trends
- Record sharing (i.e. EPA)
- Support requirements of existing laws



Contract Highlights

- nVIRO Application Suite by Windsor Solutions
- State and Local Emissions Inventory System (SLEIS)
- Commercial off-the shelf (COTS) product
- Vendor knowledge of air quality business



Software Highlights

- **Electronic submission** of permit applications, compliance reports and other documents
- System flexibility with **customizable forms**
- Comprehensive **query and reporting tools**
- **Mapping** features to search and access data
- Existing **integration** with EPA and other state systems
- **Dashboards** and notifications

Project Timeline

- Start: **September 2021**
- AQD implementation: **2.25 years**
- Implementation, maintenance and support: **10 years**





Public Engagement

- Environmental Justice
 - Cumulative Risk Assessment – White Paper
- Enhanced Outreach
- Stakeholder Partnerships

Environmental Justice



- MI EJScreen
- Public Participation Policy and Procedure
- Nondiscrimination Policy
- Limited English Proficiency Plan
- Cumulative Risk Assessment



Enhanced Outreach

- Public meetings and hearings
- Virtual opportunities
- Plain English Initiative



Stakeholder Partnerships

- Air Advisory Council
- Michigan Advisory Council on Environmental Justice
- Environmental Stakeholders
- Michigan Manufacturing Association
- Air and Waste Management Assoc

Michigan Department of
Environment, Great Lakes, and Energy

800-662-9278

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Questions?

