



North Central Indiana Air Quality and Indiana Volkswagen Mitigation Trust Program Update



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April 17, 2024

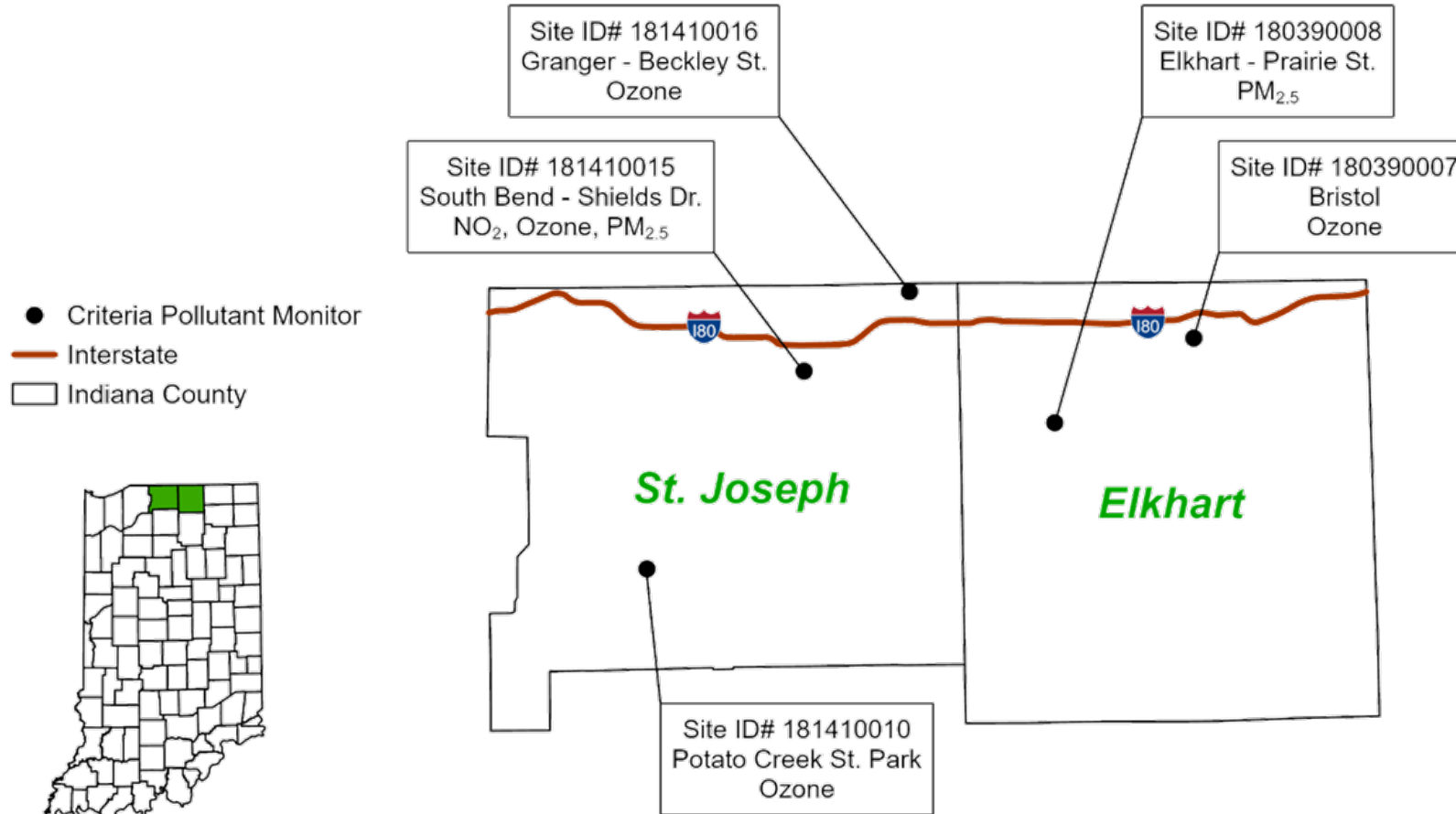


Presentation Summary

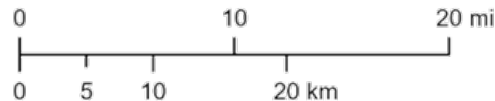
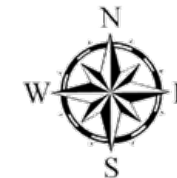
- Geographic area
- Long-term air quality trends
- Long-term emission trends
- Current schedule for ongoing National Ambient Air Quality Standards (NAAQS) review
- Indiana Volkswagen Mitigation Trust Program



Geographic Area



**Criteria
 Pollutant
 Monitors
 for
 Elkhart
 and
 St. Joseph
 Counties**



Date: 4/11/2024
 Mapped By: C. Mitchell, OAQ
 Sources: Office of Air Quality
 Map Projection: UTM Zone 16 N
 Map Datum: NAD83

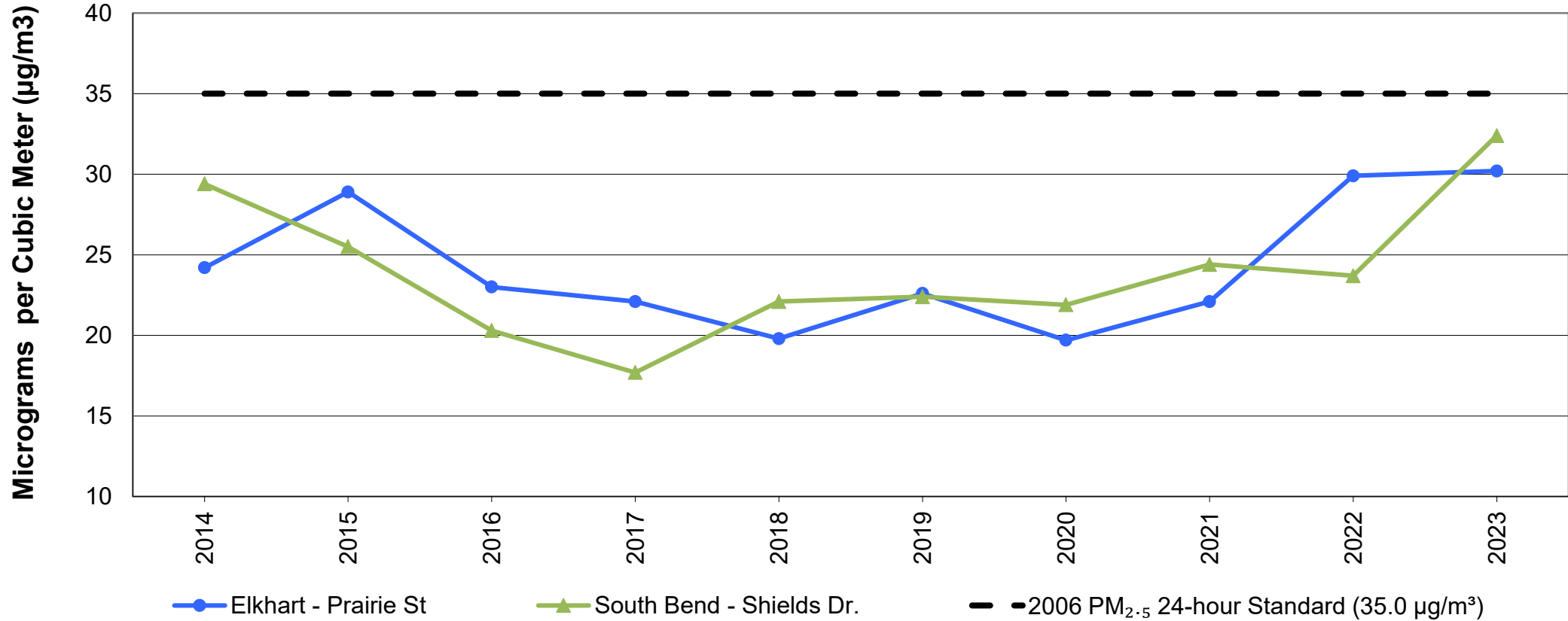


Long-Term Air Quality Trends



PM_{2.5}

PM_{2.5} 98th Percentile Values Trend Chart North Central Indiana

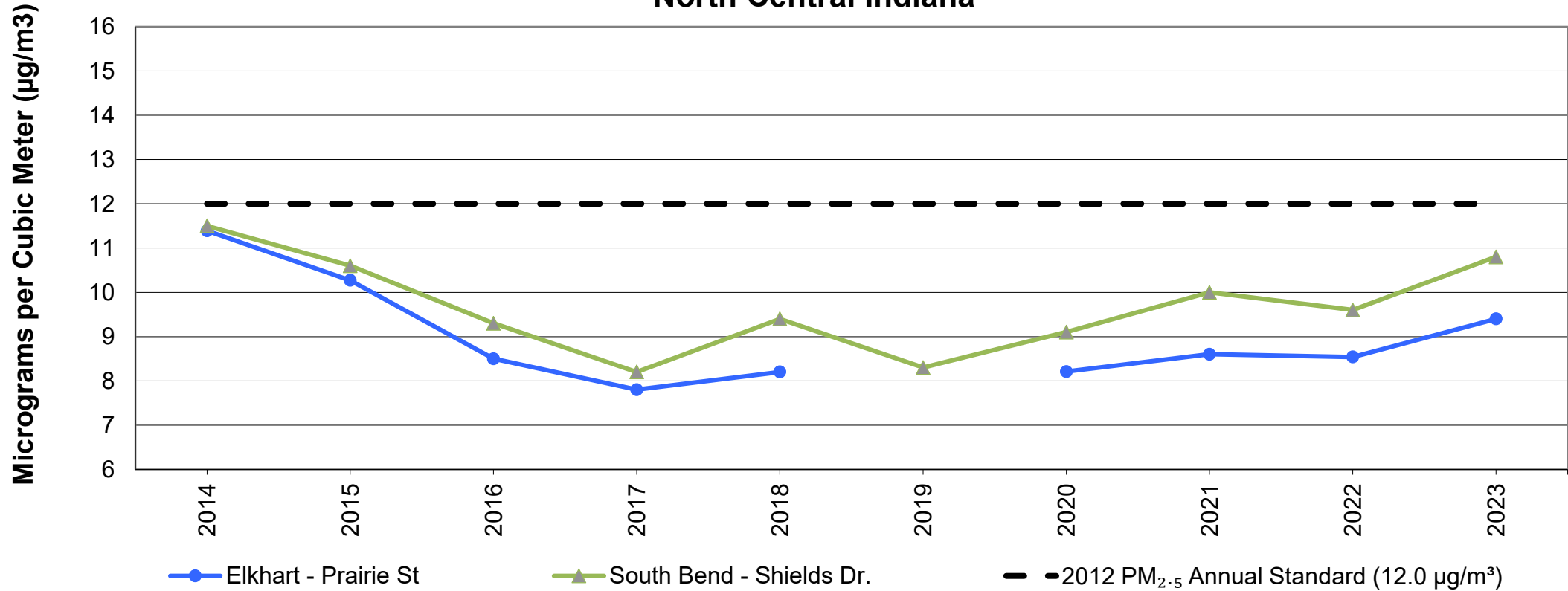


*2023 PM_{2.5} data is preliminary and subject to change



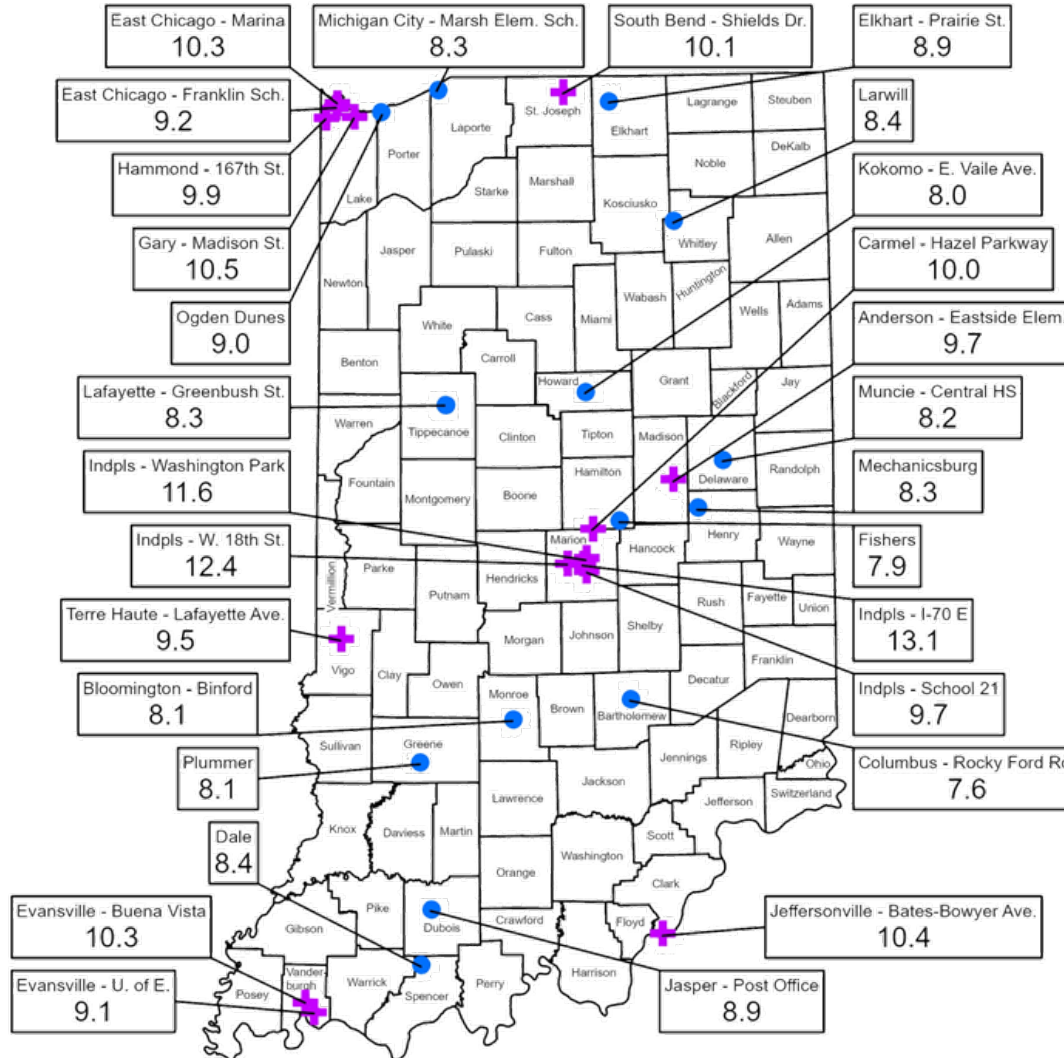
PM_{2.5}

PM_{2.5} Annual Mean Summary Trend Chart North Central Indiana



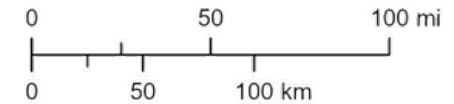
*2023 PM_{2.5} data is preliminary and subject to change

**The new Annual PM_{2.5} Standard of 9 (µg/m³) was effective February 7, 2024



PM_{2.5} Annual Design Values 2021 - 2023

Standard set at
9.0 µg/m³



● PM_{2.5} monitor with design value less than or equal to the standard.

✚ PM_{2.5} monitor with design value greater than the standard.

Notes:

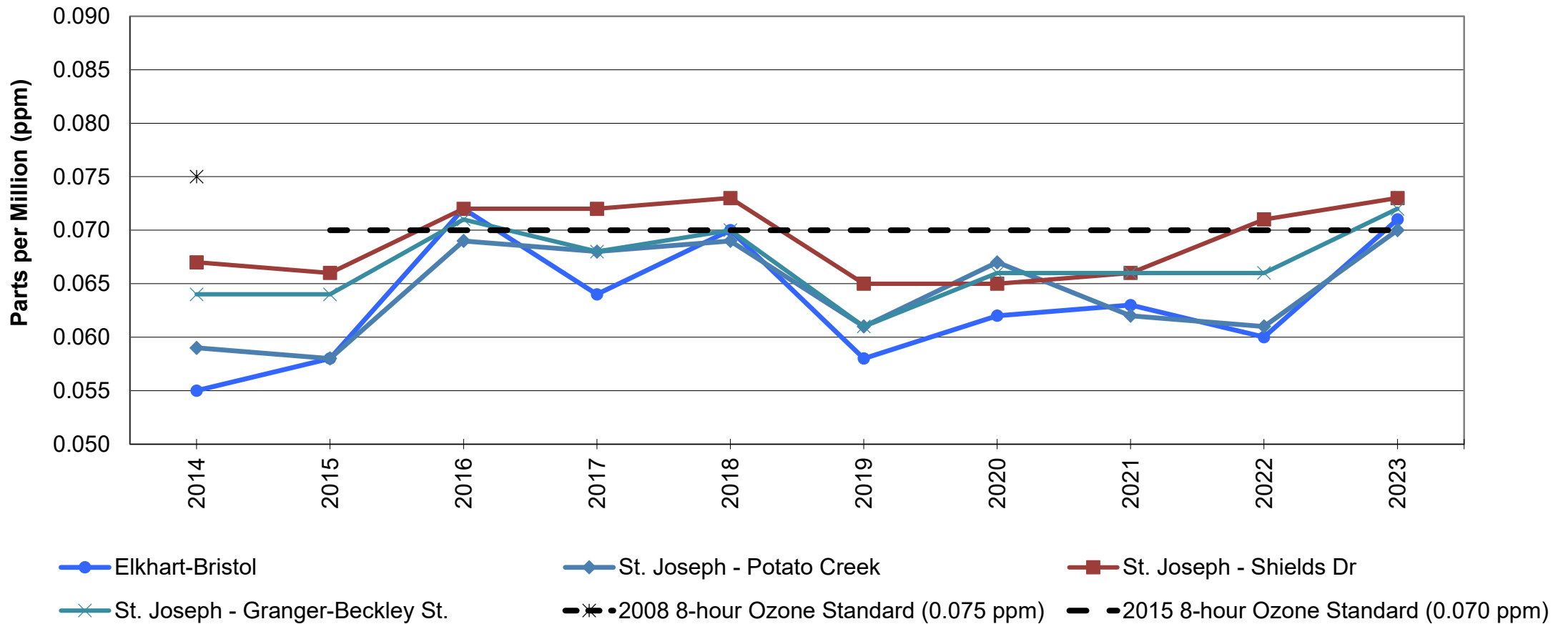
- Map excludes monitors with an invalid design value.
- Posted data are in units of micrograms per cubic meter (µg/m³).
- Data is preliminary and subject to change.

Mapped By: C. Mitchell, OAQ
 Date: 04/11/2024
 Source: IDEM, Air Monitoring
 Map Projection: UTM Zone 16 N
 Map Datum: NAD83



Ozone

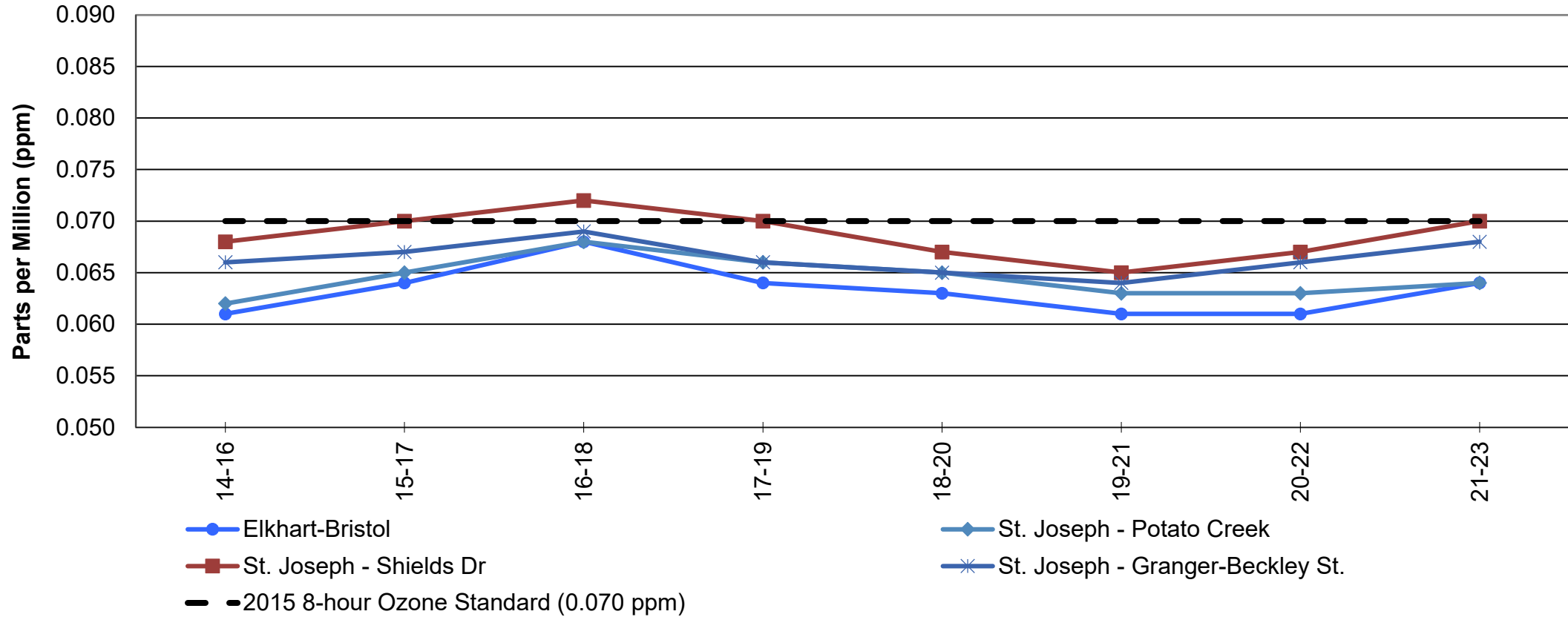
Ozone 4th - High Values Trend Chart North Central Indiana





Ozone

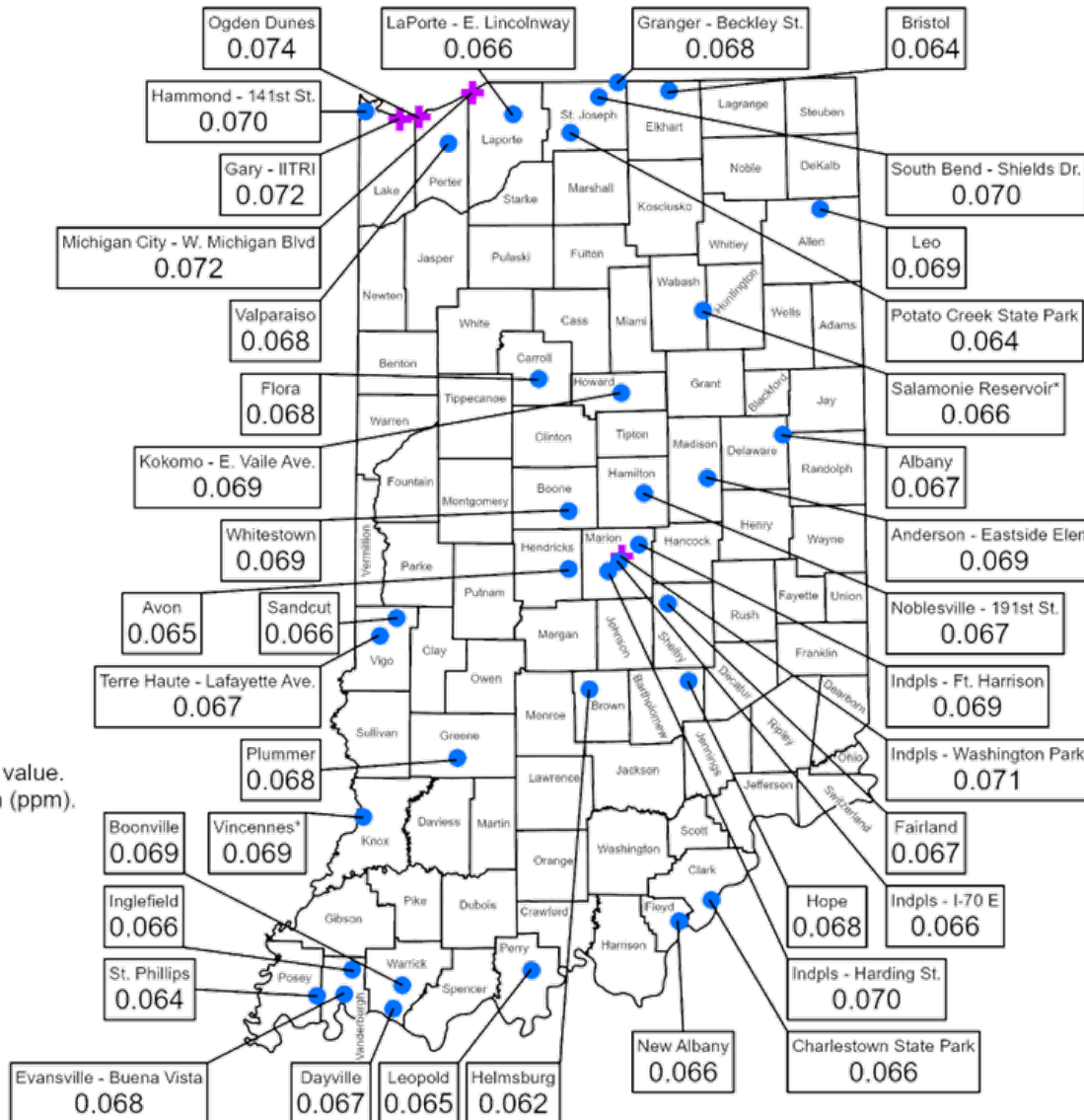
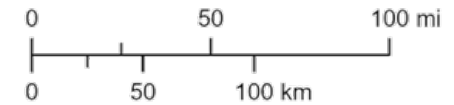
Ozone Design Values Trend Chart North Central Indiana





Ozone 8-Hour Design Values 2021 - 2023

Standard set at
0.070 ppm



- Ozone monitor with design value less than or equal to the standard.
- ✚ Ozone monitor with design value greater than the standard.

Notes:

- Map excludes monitors with invalid design value.
- Posted data are in units of parts per million (ppm).
- * 1 indicates monitors owned and operated by the U.S. Environmental Protection Agency (U.S. EPA).

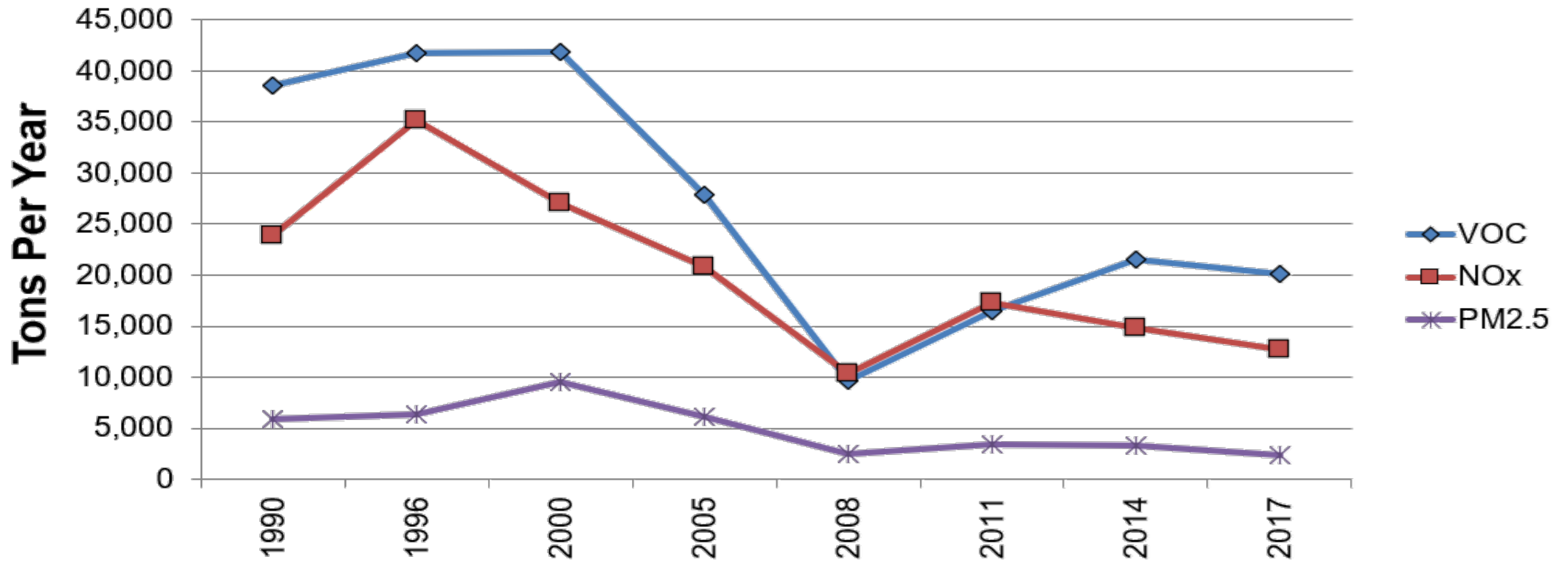
Mapped By: C. Mitchell, OAQ
 Date: 04/12/2024
 Source: IDEM, Air Monitoring
 Map Projection: UTM Zone 16 N
 Map Datum: NAD83



Long-Term Emission Trends



Emission Trends – Elkhart and St. Joseph Counties



Emissions based on U.S. EPA's National Emissions Inventory (NEI) data. U.S. EPA has discouraged the use of 2020 NEI data.



Current Schedule for Ongoing National Ambient Air Quality Standards (NAAQS) Review



NAAQS Review/Updates

	Ozone	Lead	Primary NO ₂	Primary SO ₂	Secondary NO ₂ , SO ₂ , PM (Ecological Effects Only)	PM ⁶	CO
Last Review Completed Final Rule Signed	Dec 2020	Sept 2016	April 2018	Feb 2019	Mar 2012	Feb 2024	Aug 2011
Recent or Upcoming Major Milestone(s)	Currently Under Review ¹	Currently Under Review Final ISA ³	Currently Under Review Draft IRP ² Volumes 1 and 2	TBD ⁴	Currently Under Review ⁵	State designation recommendations due Feb 2025 EPA required to promulgate final area designations by Feb 2026	TBD ⁴

¹ U.S. EPA expects to hold a science policy workshop in the spring of 2024 and release draft IRP volumes 1 and 2 in the fall of 2024.

² IRP – Integrated Review Plan.

³ ISA – Integrated Science Assessment.

⁴ TBD – To Be Determined.

⁵ U.S. EPA is proposing to replace the existing 3-hour SO₂ standard with a new annual standard within a range of 10 - 15 parts per billion (ppb) and retain the existing secondary standards for NO₂ and PM_{2.5}. U.S. EPA, via a consent decree, is required to finalize revisions to the standards by Dec 10, 2024.

⁶ U.S. EPA revised the annual primary and secondary PM_{2.5} NAAQS from 12.0 to 9.0 milligrams per cubic meter (µg/m³).



For More Information

IDEM's Office of Air Quality:

www.idem.IN.gov/airquality

Indiana Volkswagen Mitigation Trust Program:

www.idem.IN.gov/vwtrust

Submit Volkswagen grant applications to: VWTrust@idem.IN.gov

GOEVIN Program: GOEVIN.com

For program assistance:

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