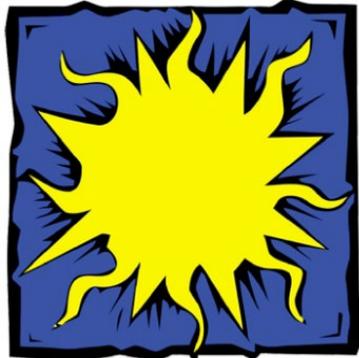




# North Central Indiana Air Quality and Indiana Volkswagen Mitigation Trust Program Update

PARTNERS FOR



CLEAN AIR

**Shawn Seals**

Senior Environmental Manager

*Office of Air Quality*

Indiana Department of

Environmental Management

April 20, 2022



# Presentation Summary

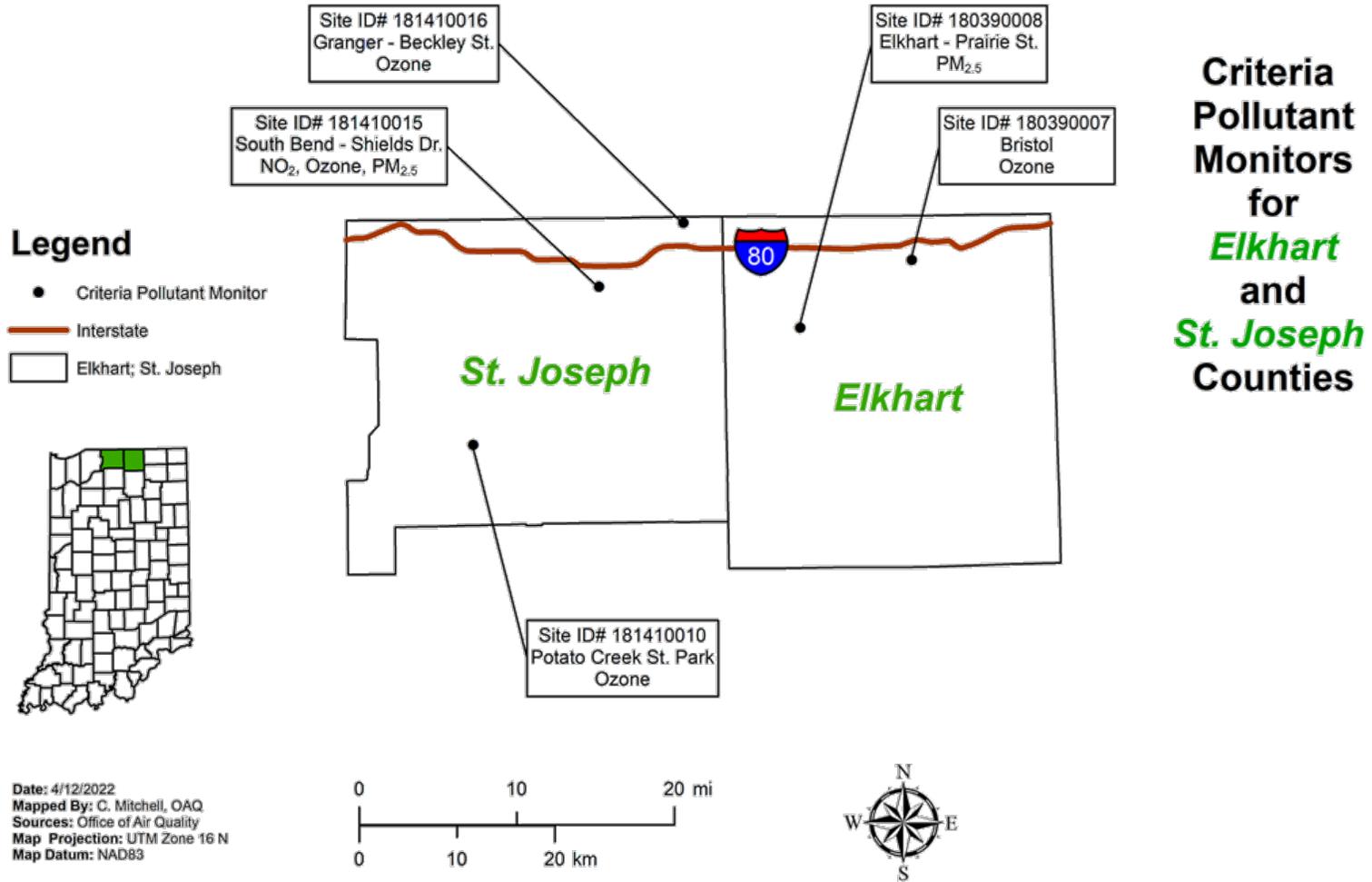
- Geographic area
- Long-term air quality trends
- Long-term emission trends
- Current schedule for ongoing National Ambient Air Quality Standards (NAAQS) review
- Indiana Volkswagen Mitigation Trust Program



# Geographic Area



# Geographic Area



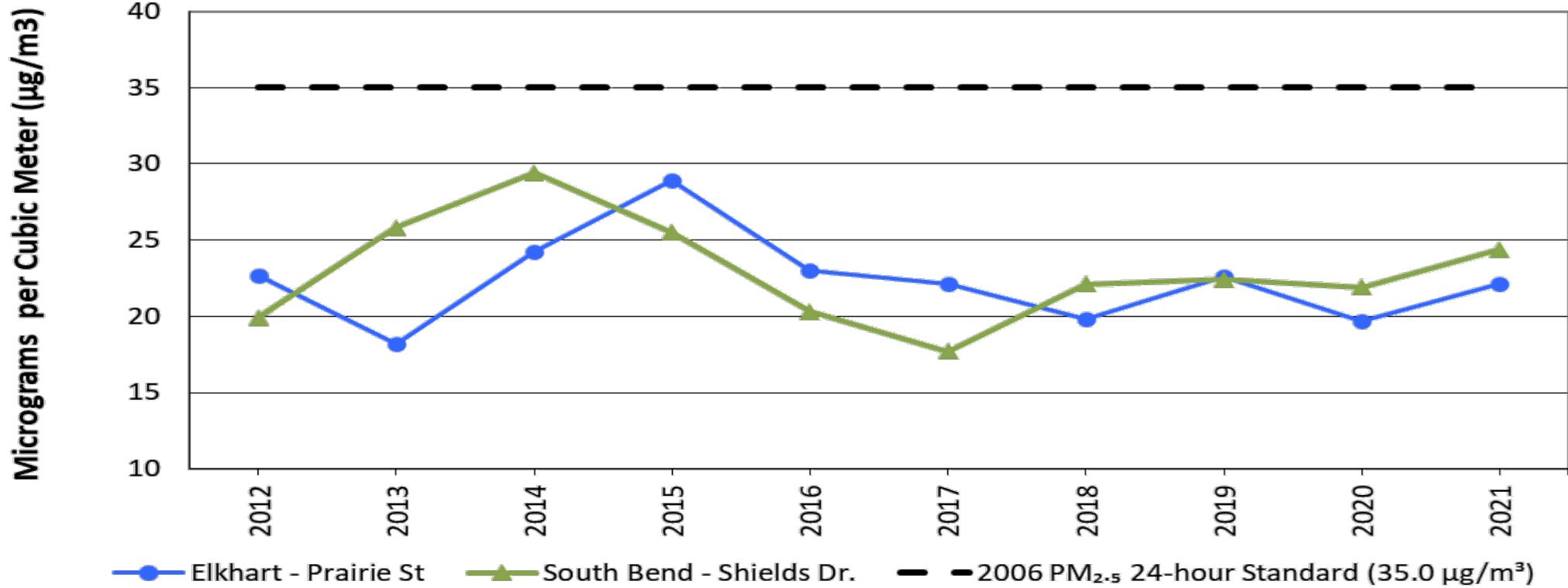


# Long-Term Air Quality Trends



# PM<sub>2.5</sub>

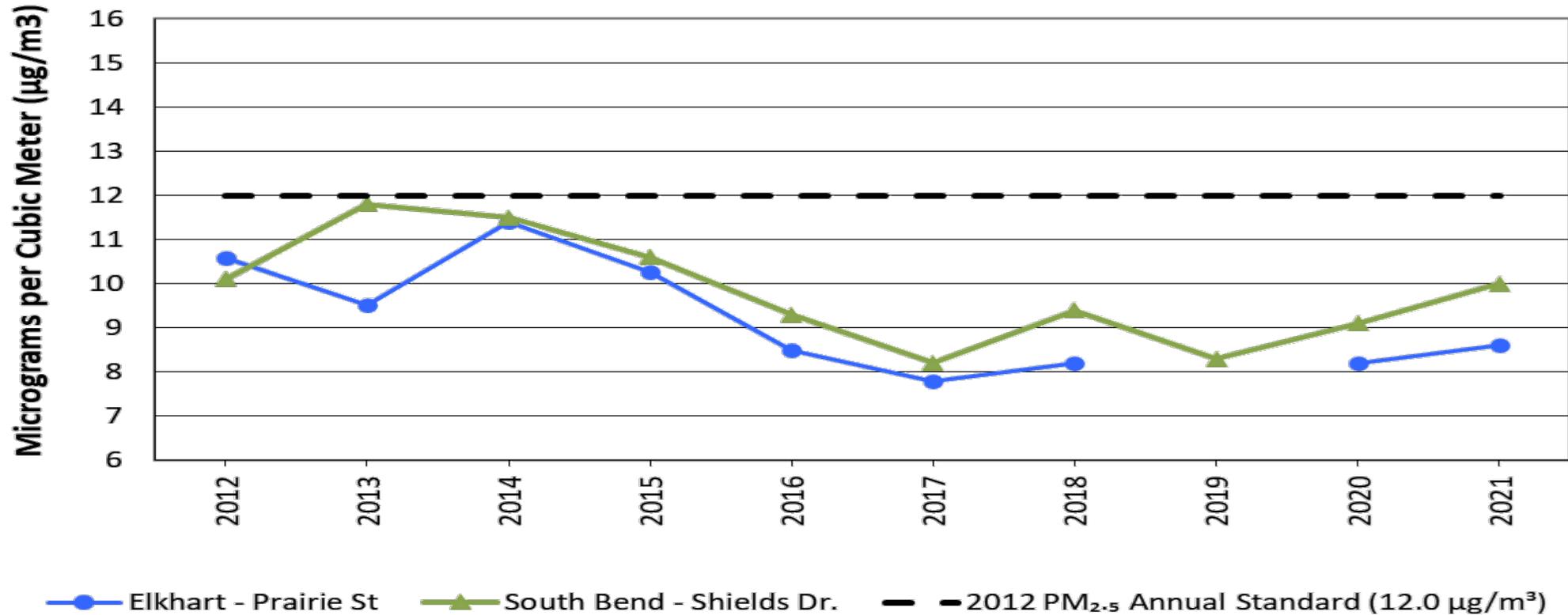
## PM<sub>2.5</sub> 98<sup>th</sup> Percentile Values Trend Chart North Central Indiana

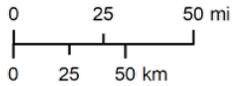
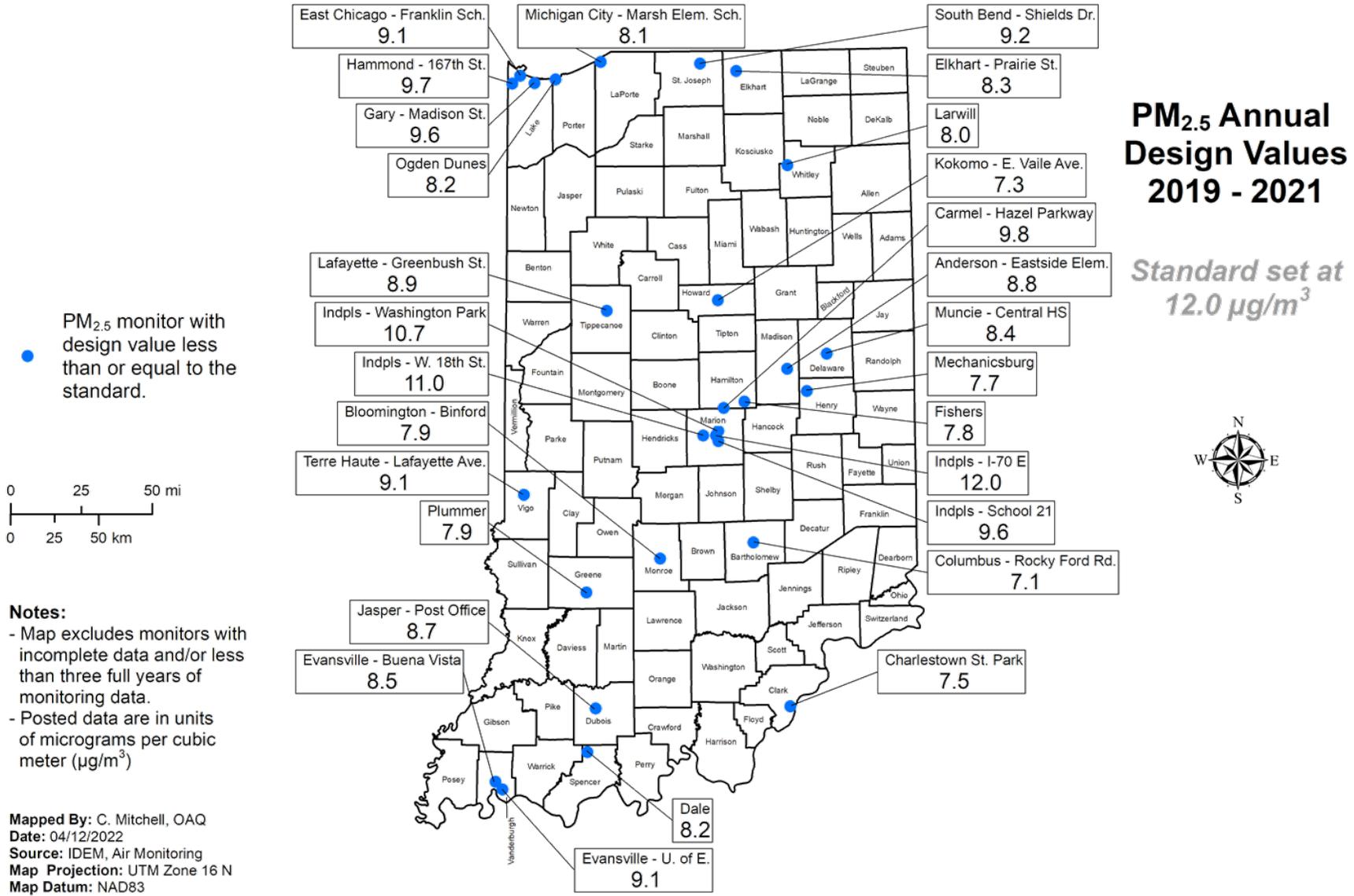




# PM<sub>2.5</sub>

## PM<sub>2.5</sub> Annual Mean Summary Trend Chart North Central Indiana





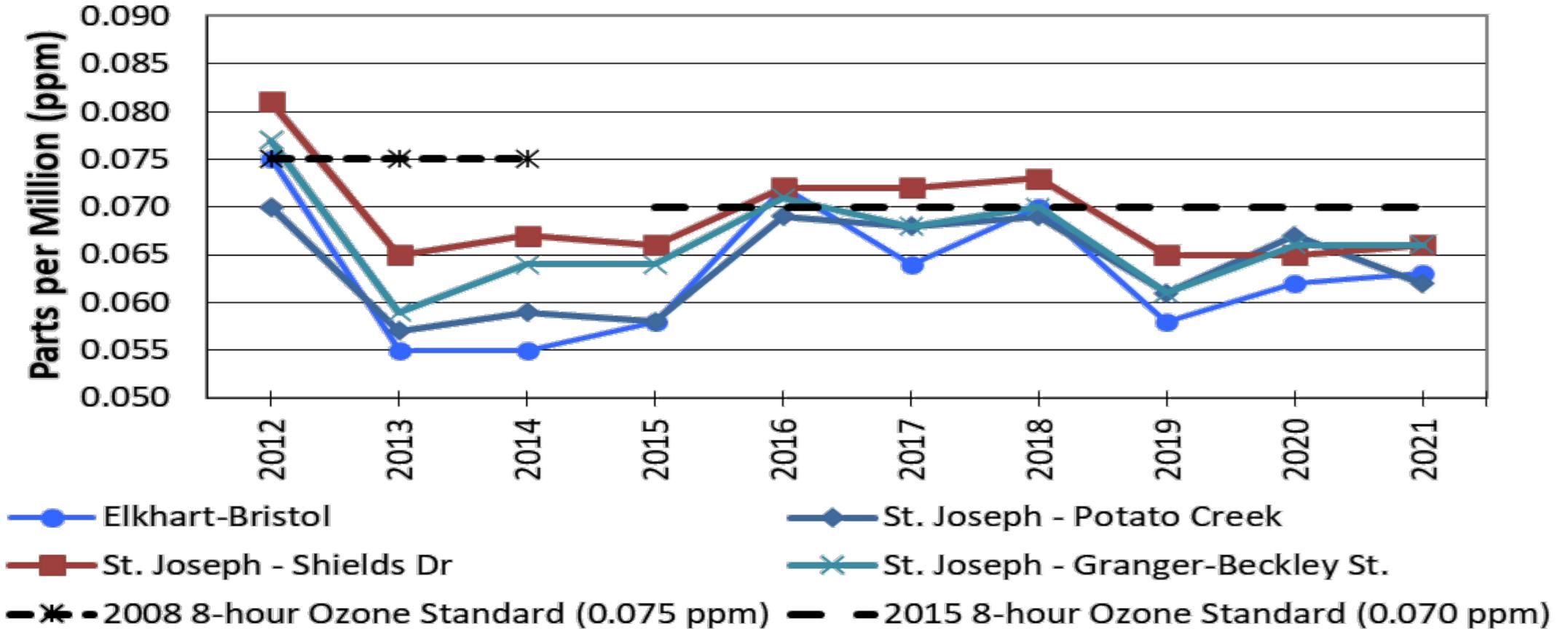
- Notes:**
- Map excludes monitors with incomplete data and/or less than three full years of monitoring data.
  - Posted data are in units of micrograms per cubic meter (µg/m<sup>3</sup>)

Mapped By: C. Mitchell, OAQ  
 Date: 04/12/2022  
 Source: IDEM, Air Monitoring  
 Map Projection: UTM Zone 16 N  
 Map Datum: NAD83



# Ozone

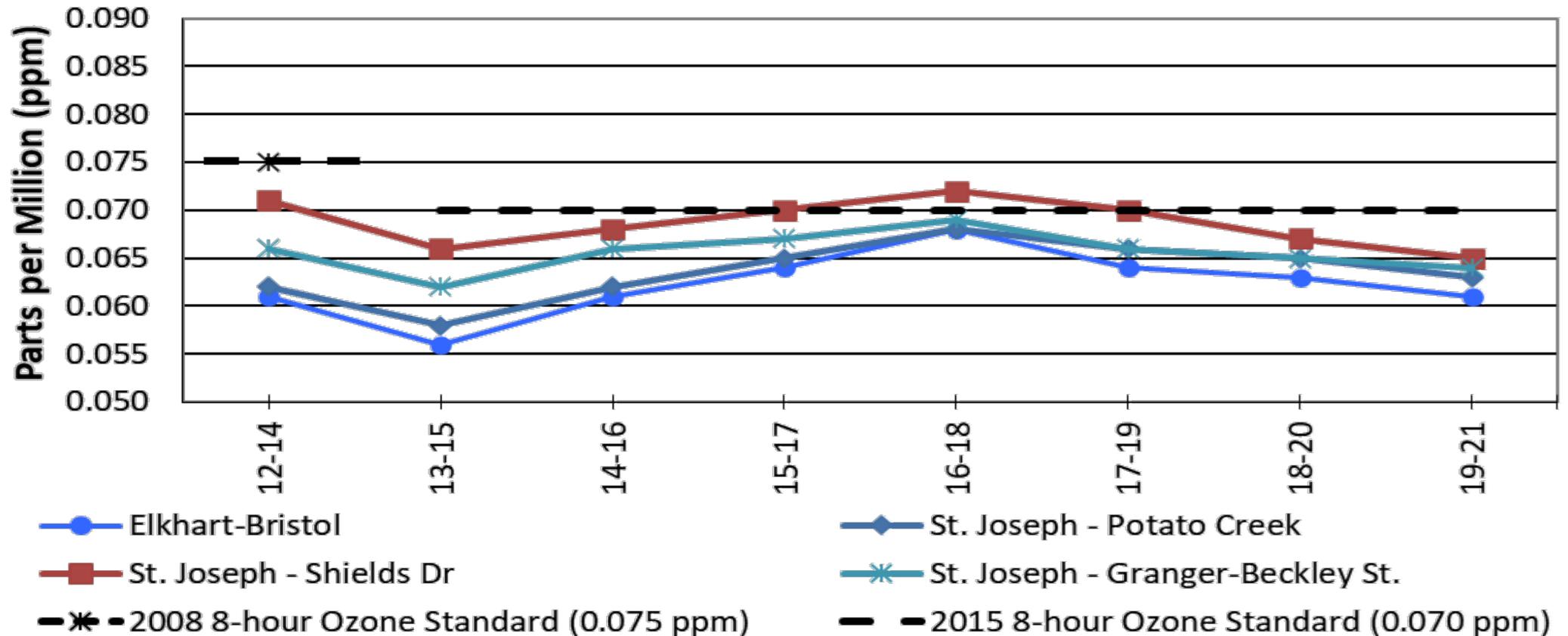
## Ozone 4<sup>th</sup> - High Values Trend Chart North Central Indiana

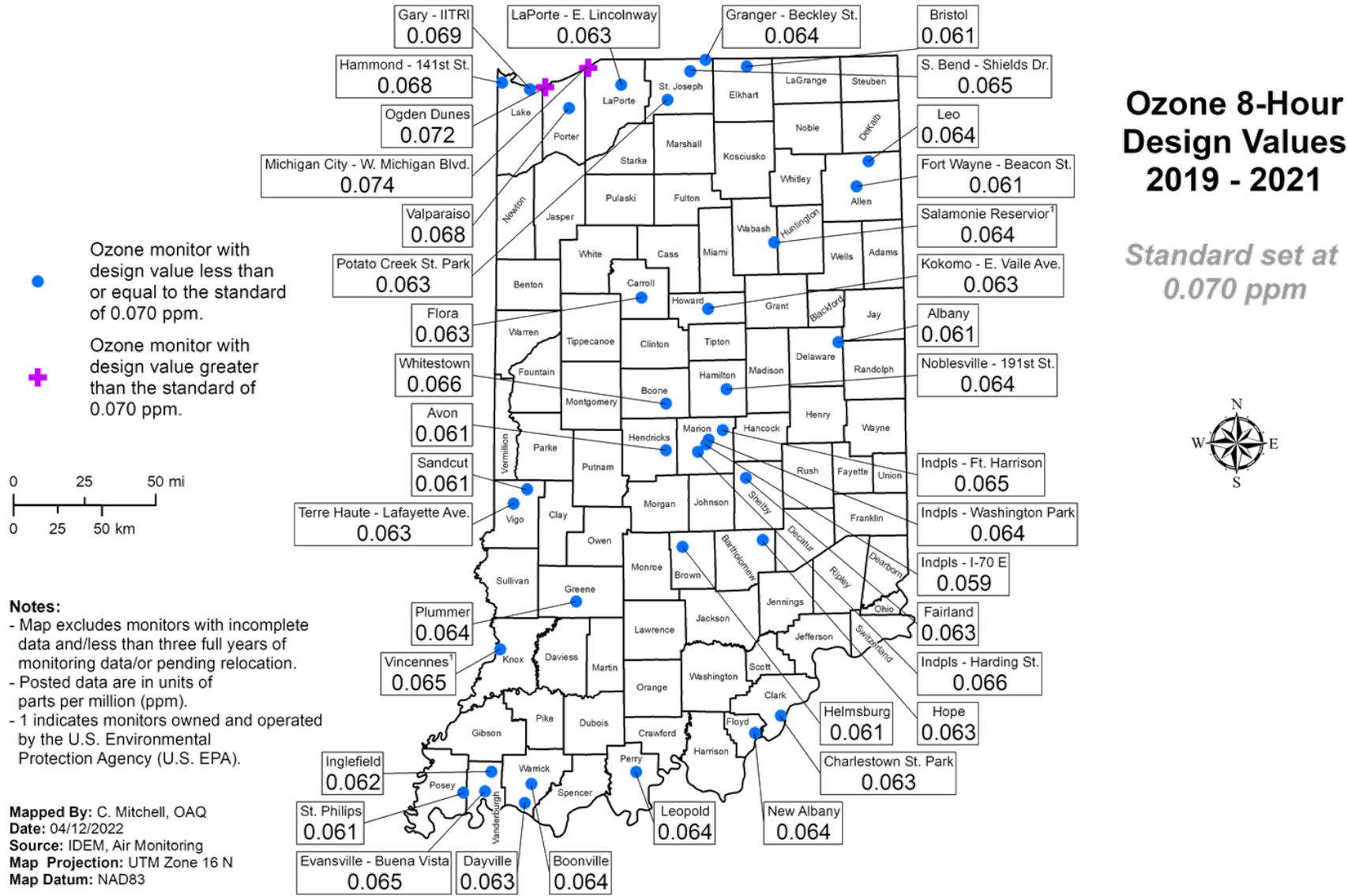




# Ozone

## Ozone Design Values Trend Chart North Central Indiana





- Notes:**
- Map excludes monitors with incomplete data and/less than three full years of monitoring data/or pending relocation.
  - 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).

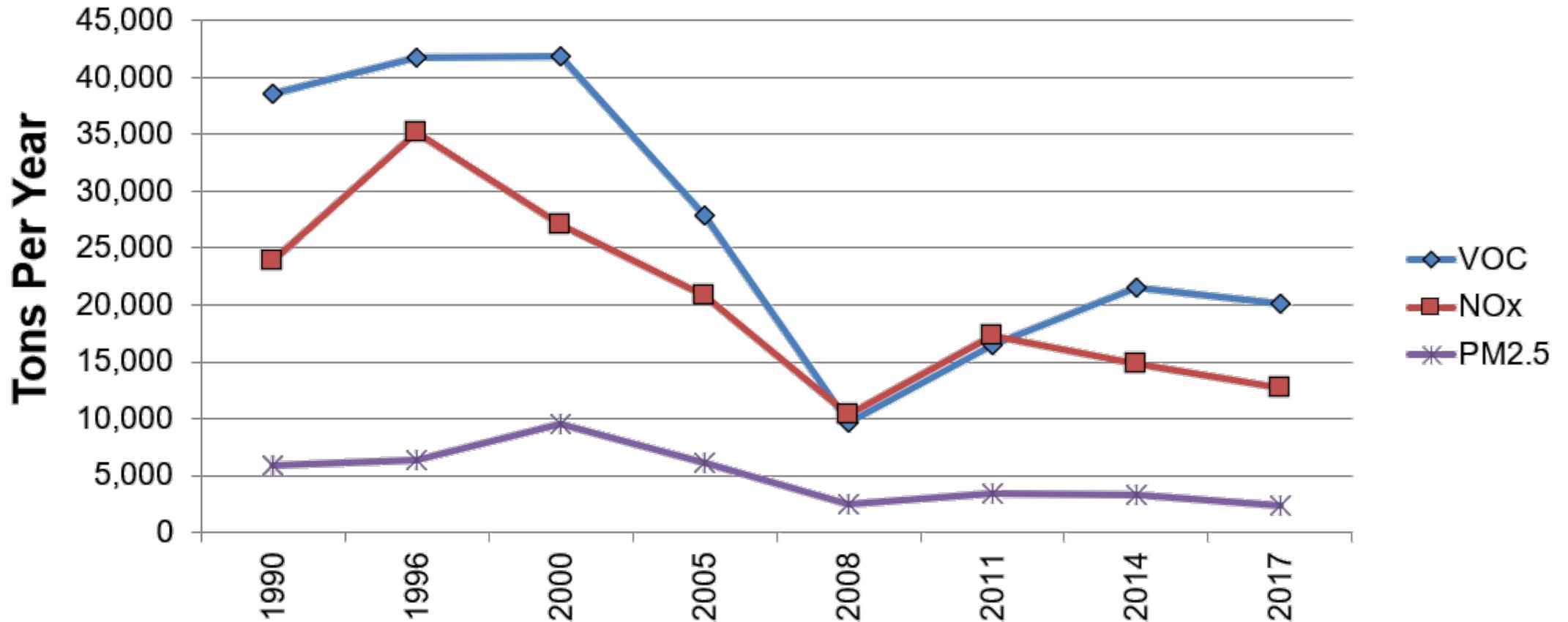
**Mapped By:** C. Mitchell, OAQ  
**Date:** 04/12/2022  
**Source:** IDEM, Air Monitoring  
**Map Projection:** UTM Zone 16 N  
**Map Datum:** NAD83



# Long-Term Emission Trends



# Emission Trends – Elkhart and St. Joseph Counties



Emissions based on U.S. EPA's National Emissions Inventory (NEI) data.



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



# NAAQS Review/Updates

	Ozone	Lead	Primary NO <sub>2</sub>	Primary SO <sub>2</sub>	Secondary NO <sub>2</sub> , SO <sub>2</sub> , PM	PM	CO
Last Review Completed Final Rule Signed	Dec 2020	Sept 2016	April 2018	Feb 2019	Mar 2012	Dec 2020	Aug 2011
Recent or Upcoming Major Milestone(s)	Currently Under Review <sup>6</sup>	Currently Under Review IRP <sup>4</sup>	TBD <sup>3</sup>	TBD <sup>3</sup>	Currently Under Review <sup>1</sup> Final ISA; draft REA/PA <sup>2</sup>	Currently Under Review <sup>5</sup> Supplement to the 2019 ISA; draft PA <sup>2</sup>	TBD <sup>3</sup>

<sup>1</sup> Combined secondary (ecological effects only) review of NO<sub>2</sub>, SO<sub>2</sub>, and PM.

<sup>2</sup> ISA – Integrated Science Assessment; REA – Risk and Exposure Assessment; PA – Policy Assessment.

<sup>3</sup> TBD = To Be Determined.

<sup>4</sup> IRP – Integrated Review Plan.

<sup>5</sup> U.S. EPA expects to propose revisions to the PM<sub>2.5</sub> NAAQS by summer of 2022, with final revisions by spring of 2023

<sup>6</sup> U.S. EPA expects to propose revisions to the ozone NAAQS by the summer of 2023, with final revisions by spring of 2024.



# Indiana Volkswagen Mitigation Trust Program



# North Central Indiana VW Projects to Date (Rounds 1 through 3 of VW Program)

Award Recipient	Project City	Project Fuel Type	Number of Vehicles Funded	Project Award	Project Total
Wa-Nee Schools	Nappanee	Propane	14	\$378,030	\$1,512,120
Penn-Harris-Madison Schools	Mishawaka	Diesel	10	\$294,033	\$1,176,133
South Bend Transpo	South Bend	CNG	12	\$1,437,102	\$6,423,419
City of South Bend	South Bend	CNG	2	\$123,272	\$493,088
South Bend Community Schools	South Bend	Electric	1	\$314,004	\$418,673
<b>TOTALS</b>				<b>\$2,546,441</b>	<b>\$10,023,433</b>

NOTE: IDEM intends to publish a targeted Round 4 request for proposal sometime this summer

# School Bus Projects



South Bend Schools - Electric



Wa-Nee and Penn-Harris-Madison  
Schools - Propane

# Truck and Transit Bus Projects



South Bend Transpo - CNG



City of South Bend - CNG



# North Central Indiana Level 2 EV Charging Stations Funded Through Indiana VW Program

Award Recipient	Number of Stations Funded	Project Award	Project Total
Indiana University - South Bend	1	\$9,000	\$15,677
Town of Culver	1	\$9,000	\$14,582
City of Elkhart (2)	2	\$18,000	\$33,366
City of Goshen	1	\$9,000	\$24,457
Goshen Public Library	1	\$9,000	\$14,882
City of Plymouth	1	\$9,000	\$16,207
City of Mishawaka	1	\$9,000	\$19,683
City of South Bend	1	\$9,000	\$17,607
City of Warsaw (2)	2	\$18,000	\$30,414
<b>TOTALS</b>	<b>11</b>	<b>\$99,000</b>	<b>\$186,875</b>



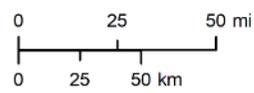
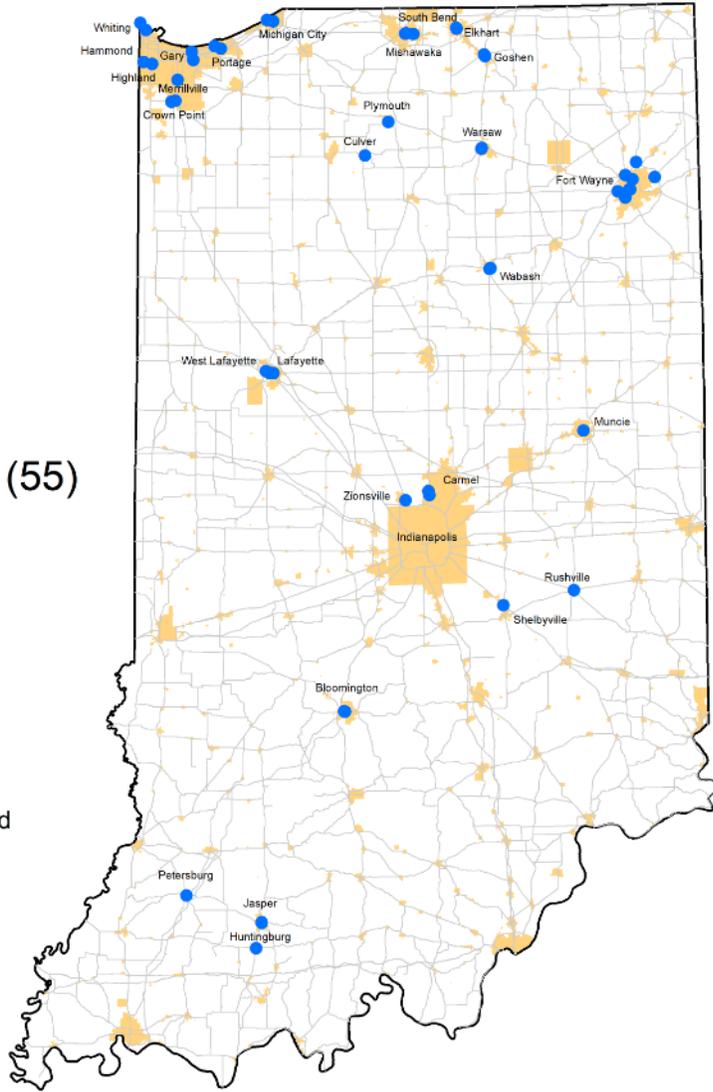
# Level 2 Charging Infrastructure Program Projects

## Volkswagen L2 Charging Stations

- L2 Charging Station (55)
- Highways
- City/Town

**Notes:**  
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

**Mapped By:** C. Mitchell,  
 Office of Air Quality  
**Date:** 01/27/2022  
**Map Projection:** UTM Zone 16 N  
**Map Datum:** NAD83





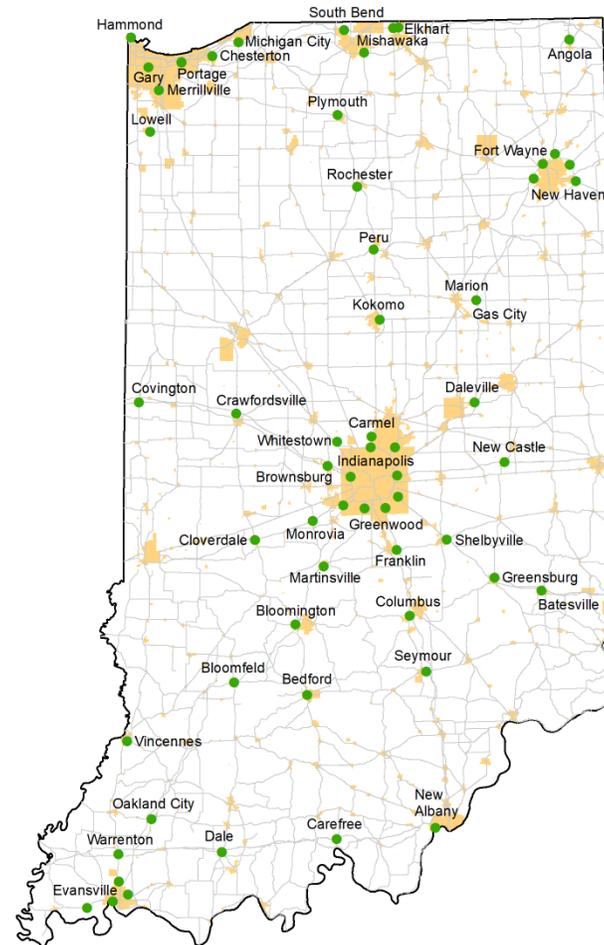
# North Central Indiana DC Fast EV Charging Stations Funded Through Indiana VW Program

Station Location	Number of Stations Funded	Project Award	Project Total
City of South Bend	1	\$90,734	\$250,000
City of Mishawaka	2	\$181,468	\$500,000
City of Elkhart	2	\$181,468	\$500,000
City of Plymouth	1	\$90,734	\$250,000
<b>TOTALS</b>	<b>6</b>	<b>\$544,404</b>	<b>\$1,500,000</b>



# DC Fast Charging Infrastructure Program Projects

## Proposed Indiana DC Fast Charging Locations by the Indiana Utility Group (IUG) (May 2021)



- Electric Vehicle Charging Locations
- Highways
- City/Town

0 25 50 mi

0 25 50 km

Notes: This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.  
 Mapped By: C. Mitchell, Office of Air Quality Date: 05/26/2021 Map Projection: UTM Zone 16 N Map Datum: NAD83



# For More Information

**IDEM's Office of Air Quality:**

[www.idem.IN.gov/airquality](http://www.idem.IN.gov/airquality)

**Indiana Volkswagen Mitigation Trust Program:**

[www.idem.IN.gov/vwtrust](http://www.idem.IN.gov/vwtrust)

**Submit Volkswagen grant applications to: [VWTrust@idem.IN.gov](mailto:VWTrust@idem.IN.gov)**

**For program assistance:**

Shawn Seals

Senior Environmental Manager

IDEM – Office of Air Quality

317-233-0425

[SSeals@idem.IN.gov](mailto:SSeals@idem.IN.gov)

