

## Chapter 7 - Environmental Justice Analysis

The following information presents the results of the Eastgate Environmental Justice (EJ) analysis conducted for the FY 2021 - FY 2024 TIP. The concept of EJ is derived from Title VI of the Civil Rights Act of 1964 and other civil rights statutes. It began in 1994 as a national policy goal by Presidential Executive Order 12898, and directs *each federal agency to make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low income populations.* In response, the Federal Highway Administration renewed their commitments to assure that EJ is carried out in the programs and strategies they fund, including the activities of MPO's.

Eastgate utilized a four-step process for the EJ analysis of its TIP. Although the process shown below concentrates on highway segments, an EJ filter for the public transit element can also be found in Chapter 3 of this document.

### Step 1 - Public Outreach

The objective of Eastgate's public outreach is to make every attempt to involve all stakeholders regardless of their demographic composition, and in particular, those that may be directly impacted as a result of a highway improvement. With the signing of Presidential Executive Order 12898, Eastgate has adopted an aggressive one-on-one approach. Eastgate approaches the communities to inform stakeholders who traditionally tend not to become involved through the regular informational or public involvement process.

### Step 2 - Demographic Profile

Based on data from the American Community Survey five-year estimates 2018 (ACS), Eastgate focused on two population groups, minority and low-income residents. The profile summarizes the data for both population groups by U.S. Census Tract. The U.S. Census Bureau defines a census tract as a *geographic region defined for the purpose of taking a census.* Usually these coincide with the limits of cities, towns, and other administrative areas and several tracts commonly exist within a county. There are 125 census tracts in Mahoning and Trumbull County.

Although minority and low-income individuals live throughout the entire Eastgate area, many are concentrated in specific locations and neighborhoods. A person is counted as a member of a minority group if he or she claimed any of the following: Black, American Indian, Alaskan Native, Asian, Native Hawaiian, Other Pacific Islander, or Hispanic. Based on data used in this analysis, minorities comprise 18.7% of the Eastgate population. Therefore, any census tract with a percentage of population considered minority that is above 18.7% is considered to have a regionally significant concentration of minority population. These census tracts are shown in Figure 5.

A similar approach was taken to establish regionally significant concentrations of low-income populations. Based on the data used in the five-year 2014 - 2018 ACS, it was determined that the regional poverty rate was 17.6% of the population. Therefore, any census tract with a percentage of population considered in poverty that was above 17.6% was considered to have a regionally significant concentration of low-income population. These census tracts are shown in Figure 5.

### Step 3 - Environmental Effects

To comply with Presidential Executive Order 12898, a list of project control variables was established as a means to qualitatively evaluate the environmental effects of projects that are located in high minority

or low-income areas. In order to accomplish this, the statement “How will this project impact the following?” was subjectively applied to these areas. The variables chosen were:

- Air, noise, water
- Safety
- Congestion
- Aesthetics
- Natural environment
- Character of existing community
- Economic vitality
- Businesses
- Residents
- Accessibility

#### **Step 4 - Analysis of Environmental Effects**

In order to apply the control variables, a list of highway projects that had potential effects on high minority or low-income populations had to be generated. To accomplish this task, all FY 2021 - FY 2024 TIP projects were overlaid onto the high minority or low-income census tract maps. Projects were reviewed, and their specific locations were determined. If a project was determined to be located in an area identified as a regionally significant concentration of high minority or low-income people, further analysis was conducted. Projects not located in these areas were exempt from further analysis.

The potential environmental effects of highway projects are displayed in Tables 12 and 13. Projects that are deemed to have a positive effect are represented by a + symbol, whereas projects expected to produce a negative effect are represented by a - symbol. Projects that were determined to have a neutral effect are left blank in the table.

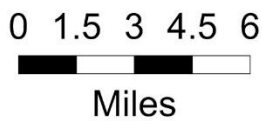
Figure 5: Environmental Justice Areas by Census Tract

# Environmental Justice Areas by Census Tract

Mahoning and Trumbull Counties  
FY 2021-2024

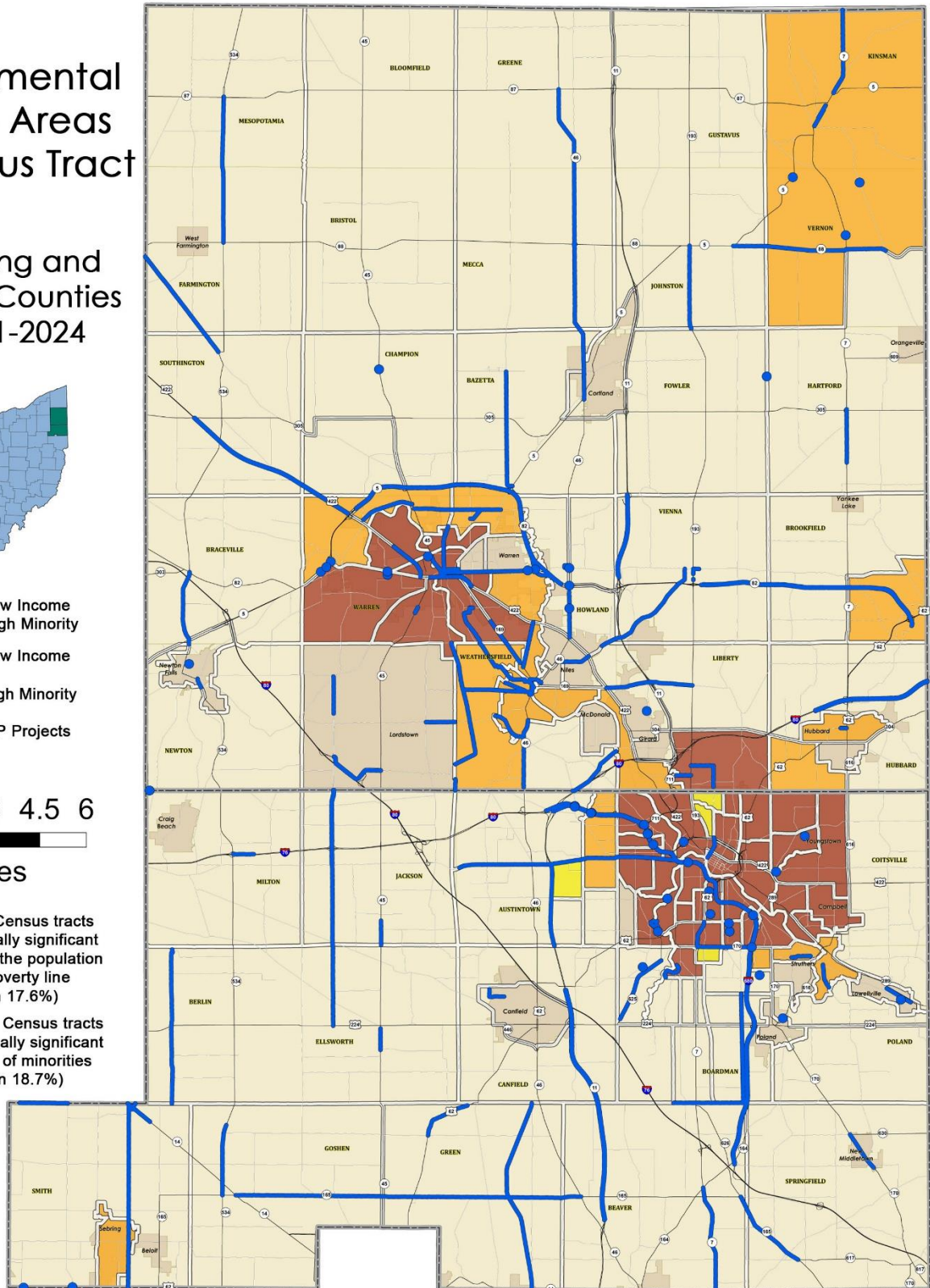


- Low Income High Minority
- Low Income
- High Minority
- TIP Projects



Low Income = Census tracts having a regionally significant concentration of the population below the poverty line (more than 17.6%)

High Minority = Census tracts having a regionally significant concentration of minorities (more than 18.7%)



3-2020

Table 12: Environmental Justice Effects of Projects - Trumbull County

PID	Route	Location and Termini	EJ Designation	EJ Control Variables											
				Accessibility	Aesthetics	Air Noise Water	Business	Character	Congestion	Economic Vitality	Environment	Residents	Safety		
4	Tod Avenue Sidewalks	Warren Township - install 986 feet of new sidewalk along Tod Avenue	Low Income / High Minority	+			+						+	+	
6	SR 5 Sidewalks (Phase III)	Kinsman Township - install 3193 feet of new sidewalk along SR 5	Low Income											+	+
9	Myron Street Sidewalks	City of Hubbard - install 1000 feet of new sidewalk along Myron Street	Low Income				+							+	+
15	TRU High / Mahoning	resurfacing of High Street from Mahoning Avenue to Chestnut Avenue; resurfacing of Mahoning Avenue from South Street to Summit Street	Low Income / High Minority												+
16	TRU Park Avenue	resurfacing from South Street to Ivanhoe Avenue	Low Income / High Minority												+
19	TRU Goldie Road	resurfacing from SR 193 to Fifth Avenue	Low Income / High Minority												+
20	TRU Fifth Avenue	resurfacing from Goldie Road to city limits	Low Income / High Minority												+
21	TRU North River Road	resurfacing from Leavitt Road to Elm Road	Low Income												+
24	TRU West Park / Austintown Warren	resurfacing of West Park Avenue from Austintown Warren Road to Niles City; resurfacing of Austintown Warren Road from Trumbull County line to Lordstown and Carson Salt Springs Road to Burnett East Road	Low Income / High Minority												+
26	TRU Trumbull Avenue / West Liberty Street	resurfacing of Trumbull Avenue from Girard City limits to SR 193; resurfacing of West Liberty Street from Four Mile Run Road to Girard City limits	Low Income / High Minority												+
27	TRU Salt Springs / East Federal	resurfacing of Salt Springs Road from city limits to city limits; resurfacing of East Federal Street from SR 169 to SR 46	Low Income												+
28	TRU Heaton North Road	resurfacing from SR 169 to SR 422	Low Income / High Minority												+
29	TRU Niles Vienna / Warren	resurfacing of Niles Vienna Road from SR 46 to SR 422; resurfacing of Warren Avenue from Chestnut Street to city limits	Low Income												+
84660	TRU SR 0082 22.74	Resurfacing over TRU SR82 22.74 to 29.89 and TRU SR82*1 0.00 to 0.70 and TRU 616 0.00 to 0.62. . Includes minor bridge work to 9 structures and work on 6 culverts.	Low Income				+								+
92055	TRU Warren Mahoning side	Construct trail facilities along the Mahoning River in the City of Warren.	Low Income / High Minority	+									+	+	
93126	TRU US 0422 02.05	Resurfacing. Minor bridge work.	Low Income												+
101045	ATB/TRU MCRO FY2022	Microsurfacing of ATB SR 45 14.61 to 19.75 and 22.28 to 24.08, TRU SR 46 0.12 to 1.05, 1.57 to 2.31 and 5.63 to 7.08, TRU SR 534 3.75 to 4.02 and 5.52 to 7.94.	Low Income												+
101248	TRU SR 0082 13.89	Resurfacing of TRU SR 82 from 13.89 to 17.36. Includes minor bridge work.	Low Income												+
102755	TRU US 0422 09.78	Resurfacing of TRU US 422 from 9.83 to 11.21 and 11.53 to 12.98. Includes minor bridge work to SFN 780704 TRU-422-12.82 under Abandoned Railroad.	Low Income / High Minority												+
105945	TRU SR 0046 01.05	Drainage improvements (catch basin and storm sewer) to improve TRU SR 46 from SLM 1.05 (500 feet North of Prospect Street) to Gilbert Drive (SLM 1.57). Construct curbing on the East side of SR-46 from SLM 1.05 to Ohtown Road. Also included is resurfacing	Low Income				+								
106203	MAH/TRU LG FY2021	Lighting improvements to the following interchanges...MAH IR 680/SR 711, TRU SR 5/82/W Market St and TRU SR 82/E Market St.	Low Income / High Minority												+
107143	TRU SR 0005 6.41/6.63	Reconstruction of slope failures on SR 5 WB in Trumbull County.	Low Income											+	+
107216	Kinsman Sidewalks Phase 2	Kinsman Township - new sidewalks along SR 5	Low Income				+							+	+
108513	TRU SR 0007 19.98	Deck replacement of SFN 7801599 TRU-7-19.98 over Mill Creek.	Low Income												+
110665	TRU SR 45/169 5.78/1.78	Resurfacing of TRU SR 45 from 5.78 to 6.32 and 9.16 to 9.87 and TRU SR 169 from 1.78 to 3.43.	Low Income / High Minority												+
110677	TRU SR 0088 19.11	Resurfacing of TRU SR 88 from 19.11 to 22.76.	Low Income												+
110710	TRU SR 0005 08.30	Resurfacing of TRU SR 5 from 8.30 to 14.16 and minor rehabilitation work to 17 structures.	Low Income												+
110848	CR 255 (Orangeville Kinsman)	Vernon Township - replacing the Orangeville Kinsman Road Bridge over stream	Low Income												+
111185	TRU 0005 29.09	Structure replacement of SFN# 7801416, TRU SR 5 29.00	Low Income												+
111326	West Park / East State Street	City of Niles - resurfacing of West Park Avenue from Western Corp Limit to Main Street; East State Street from Main Street to Robbins Avenue	Low Income												+

**Table 13: Environmental Justice Effects of Projects - Mahoning County**

PID	Route	Location and Termini	EJ Designation	EJ Control Variables																
				Accessibility	Aesthetics	Air Noise Water	Businesses	Character	Congestion	Economic Viability	Environment	Residents	Safety							
1	East Park Hike and Bike Trail (Phase II)	Construction of 1660 foot asphalt trail in Mill Creek Park	Low Income / High Minority	+																
10	Elm Street	City of Struthers - resurfacing Elm Street from State Street to 5th Street	Low Income																	+
11	MAH Center Road	resurfacing Center Road from Lowellville Road to Clingan Road	Low Income																	+
12	MAH Mahoning Avenue Rehab (Phase I)	rehabilitation from Meridian Road to Belle Vista Avenue	Low Income / High Minority				+													+
13	MAH Mahoning Avenue Rehab (Phase II)	rehabilitation from Belle Vista Avenue to IR 680 bridge	Low Income / High Minority				+													+
91898	MAH IR 0680 00.00	Resurfacing of MAH IR 680 from 0.00 to 7.31, MAH US 62 from 0.45 to 0.64 and MAH SR 711 from 0.00 to 0.37, and miscellaneous bridge work to 18 structures. Includes the rebuilding of catch basins around the IR 680/SR 193 interchange, rebuilding catch basi	Low Income / High Minority			+														+
100970	D04 CHIP FY2021	Chip seal the following locations; ATB SR 7 from 2.37 to 6.98; ATB SR 45 from 11.06 to 11.50, MAH SR 14 from 0.00 to 0.91 and TRU SR 88 from 22.76 to 23.73.	Low Income																	+
103883	MAH IR 0680 07.31	Resurfacing MAH IR 680 from 7.31 to 12.00, includes minor bridge work to 8 structures.	Low Income / High Minority																	+
105857	MAH IR 0680 00.68/03.73	Redeck MAH-680-0.68 under Four Mile Run Road (SFN 5006392) and replace superstructure on MAH-680-3.73 under Belle-Vista Ave (SFN 5006759).	Low Income / High Minority																	+
106205	MAH LG FY2023	Lighting improvements to the following interchanges...MAH IR 680/Belle Vista, MAH IR 680/Edwards, MAH IR 680/Indianola and MAH IR 680/Midlothian.	Low Income / High Minority																	+
106325	MAH SR 0011 11.48 Noise Wall	Construct noise wall along State Route 11 from the Canfield/Austintown Township Line to CR-18 (Mahoning Ave) in Austintown Township, Mahoning County Ohio.	High Minority			+														
106537	MAH US 62/SR 7 13.10/11.26	Resurfacing MAH US 62 from 13.10 to 14.80 and MAH-SR 7 from 11.26 to 12.12, Urban paving in the City of Youngstown.	Low Income / High Minority																	+
107393	D04 CHIP FY2024	Chip seal the following routes. ATB US 6 from 5.75 to 7.17, ATB SR 193 from 11.09 to 14.57 and 22.54 to 24.12, ATB SR 307 from 14.25 to 17.08, ATB SR 531 from 2.41 to 3.64, MAH SR 617 from 3.77 to 4.74, STA SR 153 from 9.87 to 14.69, STA SR 171 from 0.36	Low Income																	+
108519	MAH IR 0680 01.24	Deck replacement of SFN 5006422 MAH-680-1.24 under Lanterman Rd.	Low Income																	+
109140	MAH Youngstown SRTS 2018	Sidewalk replacement, curb ramp installation, crosswalk striping, signage upgrades around 5 elementary schools in the City of Youngstown.	Low Income / High Minority	+																+
109622	MAH Crescent St Bridge Removal	Remove existing structure over abandon railroad and replace with a new road with a reduced vertical grade. Includes new curb and gutter, 5' sidewalks, drive approaches and drainage system.	Low Income / High Minority			+														+
110187	Youngstown SMART <sup>2</sup> Network	City of Youngstown - resurfacing, streetscaping, and other roadway improvements to seven downtown streets; implementation of autonomous shuttle	Low Income / High Minority	+	+		+	+	+	+	+									+
110681	MAH SR 170/625 13.34/0.22	Resurfacing of MAH SR 170 from 13.34 to 14.96 and MAH SR 625 from 0.22 to 2.59.	Low Income / High Minority																	+
110931	MAH IR 0680 09.30 Noise Walls	Construction of noise walls along the eastern side of Interstate I-680 in the City of Youngstown and Boardman Township.	Low Income			+														
111316	Old Orchard Bridge	Rehabilitation of the Old Orchard Bridge on Chestnut Hill Drive in Mill Creek Park	Low Income / High Minority		+			+												
111483	MAH E Newport Dr/Valley Dr	Resurfacing of East Newport Drive and Valley Drive in Mill Creek Park.	Low Income / High Minority																	+
111581	MAH CR 12/VAR-0.00/VAR	Resurfacing of 6 county routes. Includes aggregate berms and striping.	Low Income																	+