Memorandum

DATE: February 13, 2024
TO: Victoria MPO
CC:
FROM: ATG|DCCM
RE: Pavement Condition Analysis

Roadway Pavement Condition Analysis

The roadway pavement condition analysis for the Victoria MPA was based on 2021 data from FHWA's Highway Performance Monitoring System (HPMS). Note that due to the age of the pavement data used certain infrastructure improvements that have been made in the meantime are not reflected in this analysis. HPMS data provides a condition rating based on the International Roughness Index (IRI) for roadways in the Victoria MPA. This includes roadway segments found on the National Highway System (NHS), as well as various other roadways critical to the movement of people and goods in the region.

Based on guidance from the Code of Federal Regulations (23 C.F.R. 490.313), each roadway segment was categorized by condition according to the following IRI rating scale:

Poor Condition: IRI > 170

Fair Condition: IRI >= 95 and <= 170

Good Condition: IRI <95

HPMS data was totaled to represent the number of lane miles for each of the three pavement condition categories, allowing the project team to calculate the percentage of interstate (NHS) and non-interstate NHS lane miles and percentage of lane miles by condition.

Table 1:Pavement Condition by IRI Rating

Condition	Total Lane Miles	% of Total Lane Miles
Poor	26.93 Lane Miles	5.34%
Fair	96.62 Lane Miles	19.16%
Good	380.62 Lane Miles	75.49%
Total	504.18 Lane Miles	100%

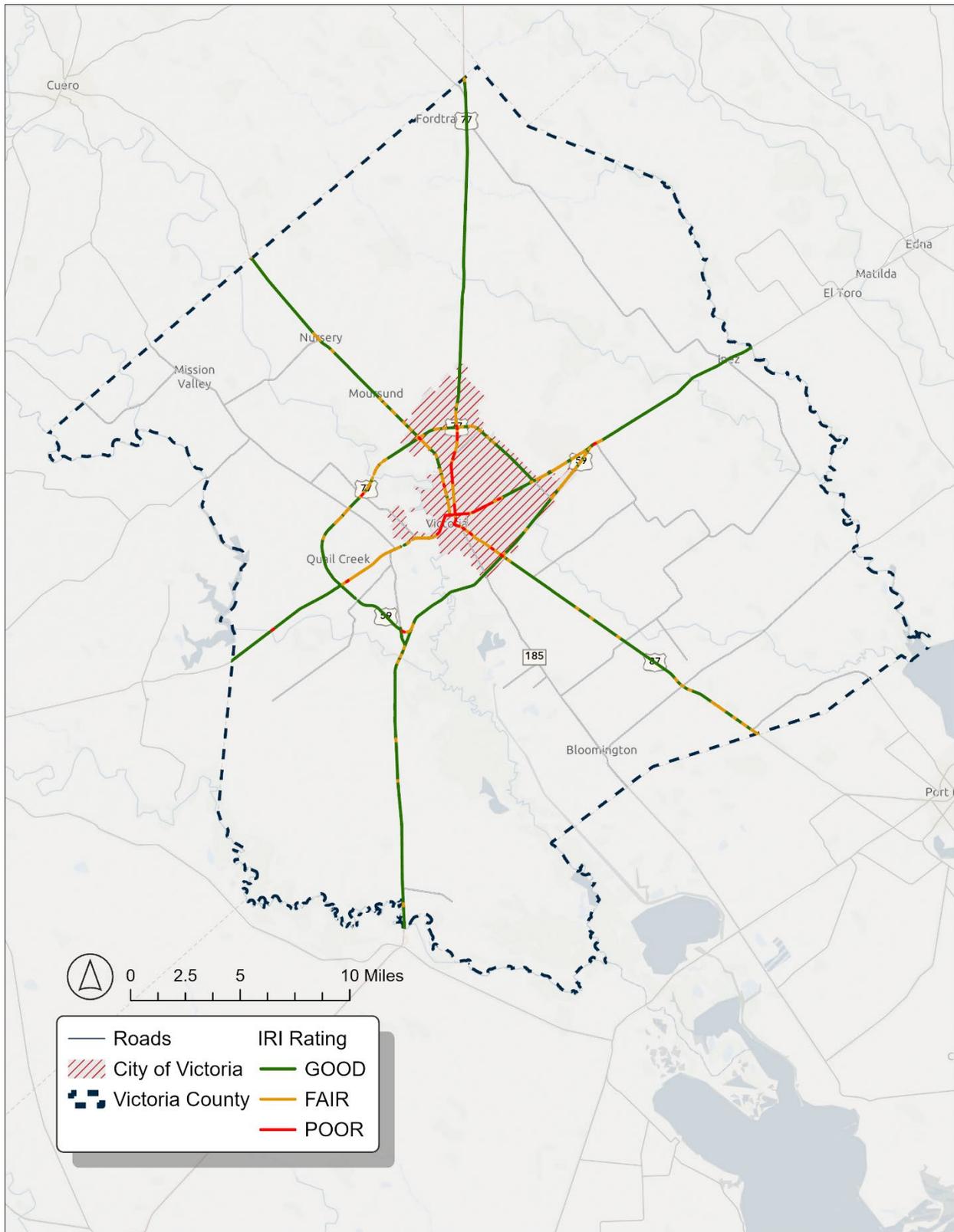Source: 2021 HPMS Pavement Condition Data

Out of the 504.18 total NHS lane miles with IRI data, 75.49% were found to be in Good Condition, while 19.16% were recorded as being in Fair Condition. This suggests that 94.65% of

the NHS roadway pavement conditions are either in a state of good repair or adequate for utilization. There are no interstate lane miles in the Victoria MPA.

For non-interstate NHS lane miles 5.34% were rated to be in Poor Condition, missing the performance measure of 1.30%. Conversely, the percentage of non-interstate NHS lane miles rated as Good Condition, 75.49% was well above the state pavement measurement of 51.70%. For non-interstate NHS lane miles, 94.65% were in a state of good repair or adequate serviceability.

Figure 1 displays roadway pavement conditions for the NHS at the Victoria MPA level, showing most of the infrastructure to be in a state of good repair.

Figure 1: NHS Roadway Pavement Condition

Source: 2021 HPMS Pavement Condition Data