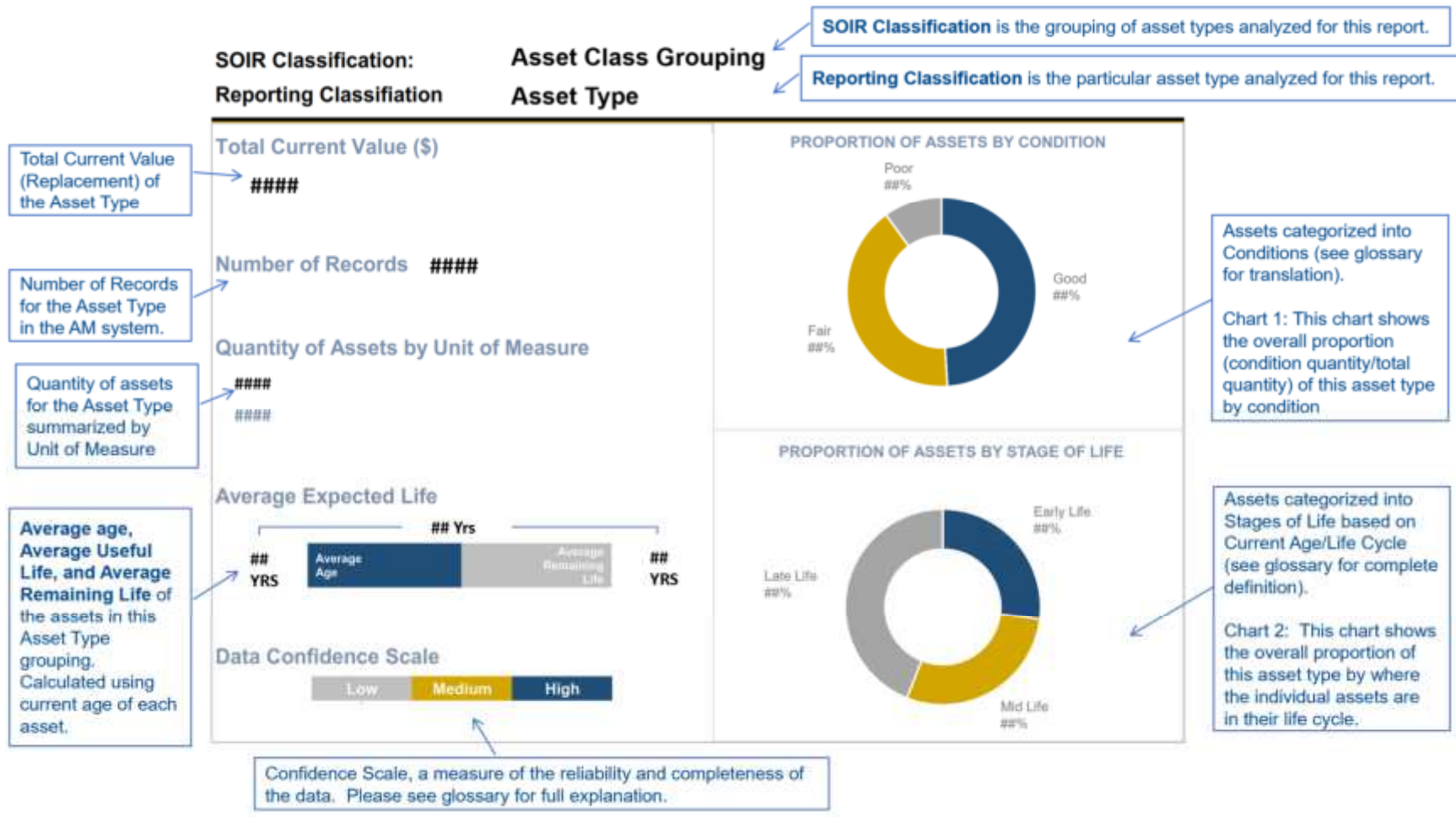


**TOWN OF OAKVILLE
STATE OF INFRASTRUCTURE REPORT
GUIDE**

June 30th, 2023





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1. Unit of Measure (UofM):

The descriptions of Unit of measure (UofM) used in this report are as follows:

UofM	General Description	In This Report	Related Asset Grouping	Asset Type Examples
EACH	a single item	Used for assets which are counted for the quantity.	Communication & Technology Equipment Licensed Fleet Parks Network Road Network Storm Network	vehicles, playgrounds, sports field, bridges, traffic signals, culverts, catch basins
POOL	Assets are grouped by year into a single asset record	Used for assets that have been grouped for depreciation values.	Communication & Technology Road Network	Hardware, Software, Streetlights
MIXED	a combination of different measures	Used for assets with components of different measures.	Communication & Technology	Fibre optics, radio equipment, radio towers
L.M	Linear meters	Used for assets with a length.	Parks Network Road Network Storm Network	Trails, walkways, acoustic/retaining walls, , sidewalks, and storm mains
SQ.M	Square meters	Used for assets with an area or a managed area.	Communication & Technology Facilities Parks Network Road Network Storm Network	facilities, roadways and parking lots,

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2. Confidence Scale:

The quality of data used in this SOIR varies depending on the source(s) for the data. To aid in the interpretation of this SOIR, a data confidence rating in terms of reliability and completeness of the data is used throughout.

The data confidence rating scales, defined in Table 1, are used to support the rating, with confidence based on the lower of the reliability and completeness ratings.

Table 1. Data Confidence Scale

Measure	Description	Rating		
		High	Moderate	Low
Reliability	Can be trusted to be accurate or to provide a correct result	Based upon sound records, procedures, or analyses that have been acceptably documented and are recognized as the best method of assessment	Based upon known reasonable procedures or analyses that have been acceptably documented	Based upon expert verbal opinion or cursory inspections/ observations
Completeness	Probable difference between a recorded parameter and its true value	+/- 1%	+/- 10%	+/- 50%

Figure 1 shows an example of a data confidence bar used in this SOIR

Figure 1. Data Confidence Bar Example



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3. Stage of Life:

Stage of life is calculated as the ratio of age and useful life of an asset. The ratio is characterized into three stages:

Stage	Description of Stage	General Description
Early Life	Current age is less than 1/3 of its estimated useful life	Current Age/Estimated Useful Life * 100
Mid Life	Current age is between 1/3 to 2/3 of its estimated useful life	
Late Life	Current age is greater than 2/3 of its estimated useful life	

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4. Condition

The condition rating used in this report relates to the condition scale as follows:

A 5-point grading system is used for condition assessment, with 1 representing 'Very Good' and 5 representing 'Very Poor'. The 5-point ratings correspond to the alphabetical rankings of A, B, C, D, and F, with A representing 'Very Good' and F representing 'Very Poor'.

The Pavement Quality Index (PQI) Score system used to evaluate the condition of each road section, as well as the the Bridge Condition Index (BCI) score system used to evaluate the condition of each bridge and culvert. the scores are grouped into five (5) alphabetical rankings of A, B, C, D, and F. 'A' represents indices between 80 to 100, 'B' represents indices between 70 to 79, 'C' represents indices between 60 to 69, 'D' represents indices between 50 to 59, and 'F' represents indices less than 50.

For Storm Network assets, the percentage of useful life that has been utilized are grouped into five (5) alphabetical rankings of A, B, C, D, and F, "A" represents the percndtages less than 26%, "B" represents the percentages between 27% and 50%, "C" represents the the percentages between 51% and 75%, 'D' represents the percentages between 76% and 99%, and 'F' represents greater than 99%.

The 5-point ratings are grouped into three qualitative condition states of "Good", "Fair", and "Poor", with "Good" representing 1(A) and 2(B), "Fair" representing 3(C) and 4(D), and "Poor" representing 5(F).

Rank	Description of Condition	General Description	This Report
A/5	Very Good Condition - Only Normal Maintenance Required	Well secured and operational, sound of function and appearance.	Good
B/4	Minor Defects Only - Minor Maintenance Required	Operational and functional, minor wear and tear.	Good
C/3	Regular Maintenance and Inspection is required to monitor that the asset is still performing as expected. Maintenance Required	Generally operational. Minor breakage.	Fair
D/2	Significant Maintenance and Inspection is required to monitor that the asset is still performing as expected. – Planning for Renewal is required,	Operational with concerns. Breakdowns may occur	Fair
F/1	Asset Requires Replacement	Not able to consistently provide expected service performance	Poor