ASSET MANAGEMENT PLAN

2021





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Introduction

Infrastructure is inextricably linked to the economic, social and environmental advancement of a community. As analyzed in this Asset Management plan (AMP), the Town of Erin's infrastructure portfolio comprises the following asset classes; Road Network, Bridges and Culverts, Buildings, Machinery and Equipment, Land Improvements, Vehicles and Water. The asset classes analyzed in this asset management plan had a total 2021 valuation of \$188.9 million.

The intent of asset management is to minimize the lifecycle costs of delivering infrastructure services, manage the associated risks, while maximizing the value ratepayers receive from the asset portfolio. The initial acquisition of capital assets accounts for only 10 to 20% of their total cost of ownership. The remaining 80 to 90 % comes from operations and maintenance.

This Asset Management Plan (AMP) 2021 includes 2021 completed capital projects and provides details of the state of infrastructure of the town's service areas. Furthermore, the long-term financial strategy was also updated with changes to funding allotments based on the 2022 Capital budget and assumes the same for the long-term plan.

1.0 Financial Profile: Tax Funded Assets

1.1 Funding Objective

As with any Asset Management Plan, the objective is to have ownership of an asset base that is fully funded. This section provides an overview of the Town's current funding position. Details pertaining to these calculations are found in the remainder of the report.

1.2 Current Funding Position

Presented below is an updated funding scenario calculating the Town of Erin's infrastructure deficit by utilizing the same methodology as the 2020 Asset Management Plan update. This is calculated by taking each assets' replacement cost and dividing it by the estimated useful life. Furthermore, the bridges and culverts estimated value in the 2021 Ontario Structure Inspection Manual (OSIM) report was used for this update. The result yields the "Average annual investment required" in order to meet the replacement cost needs at the end of the useful life. This annual average is compared against the funding available in 2022 to arrive at an Annual Deficit amount of \$1.953 million.

Calculated by CityWide, the average annual investment requirement for the above asset categories is \$5.162 million compare to \$4.5 million in the 2020 AMP Update. The 2022 funding allocated to these assets for capital purposes is \$3.2 million resulting in an annual average deficit of \$1.953 million compared to a \$2.3 million deficit in the 2020 AMP update. Therefore, these asset categories are currently funded at 62% of their long-term requirement. This is a significant improvement from the 2020 Asset Management Plan update where these categories were funded at 50% of the long-term requirement.

In developing a long term financial strategy, the following changes to revenue and expenses need to be considered.

- The Town Ontario Community Infrastructure Fund (OCIF) formula-based component for 2022 is \$0.549 million. This grant is no longer assured from year to year.
- Total debt payments for these asset categories will be decreasing by \$167k over the next 10 years, \$332k by year 15 and \$432k by year 20.
- Water buildings and equipment are not included in the Facilities and Machinery & Equipment in this AMP as they are funded from rates and not taxation.

| Town of Erin | | | | | | | | | |
|-----------------------------------------------------------------|--------------------------------------------------------|--------------------------------|----------|---------|---------|-----------|-------------------|--|--|
| Summary of Infrastructure Requirements & 2022 Funding Available | | | | | | | | | |
| Asset Category | Asset Category Average Annual Funding Available Annual | | | | | | Annual Deficit | | |
| | Investment | Taxes CCBF OCIF Taxes to Total | | | | | | | |
| | Required | | Reserves | | | | | | |
| | | | | | | | | | |
| Tax funded: | | | | | | | | | |
| Road Network | 2,301,328 | - | 725,579 | - | 697,509 | 1,423,088 | 878,240 | | |
| Bridges & Culverts | 830,590 | - | - | 548,545 | - | 548,545 | 282,045 | | |
| Facilities | 864,423 | 193,500 | - | - | 30,294 | 223,794 | 640,629 | | |
| Land Improvements | 221,469 | 55,000 | - | - | - | 55,000 | 166,469 | | |
| Machinery and Equipment | 376,364 | 155,000 | - | - | 66,300 | 221,300 | 155,064 | | |
| Fleet | 567,714 | 635,000 | - | - | 102,000 | 737,000 | (169,286) | | |
| Total | 5,161,888 | 1,038,500 | 725,579 | 548,545 | 896,103 | 3,208,727 | 1,953,161 | | |

Table below is taken from the 2020 AMP update.

| Town of Erin | | | | | | | | | |
|-----------------------------------------------------------------|-------------------|-----------------------------------|--------------------------|---------|---------|-----------|-----------|--|--|
| Summary of Infrastructure Requirements & 2020 Funding Available | | | | | | | | | |
| | Average Annual | | Annual Funding Available | | | | | | |
| | Investment | | Taxes to | | | | | | |
| Asset Category | Required | Taxes Gas Tax OCIF Reserves Total | | | | | Deficit | | |
| Tax funded: | | | | | | | | | |
| Road Network | 2,016,550 | 18,000 | 347,016 | | 681,509 | 1,046,525 | 970,025 | | |
| Bridges & Culverts | 845,162 | 200,000 | | 260,016 | 0 | 460,016 | 385,146 | | |
| Facilities | 656,671 | 257,200 | | 0 | 0 | 257,200 | 399,471 | | |
| Land Improvements | 208,358 | 84,100 | 0 | 0 | 0 | 84,100 | 124,258 | | |
| Machinery and Equipment | 289,491 | 35,000 | 0 | 0 | 32,000 | 67,000 | 222,491 | | |
| Fleet | 515,535 | 250,000 | 0 | 0 | 100,000 | 350,000 | 165,535 | | |
| Total | 4,531,767 | 844,300 | 347,016 | 260,016 | 813,509 | 2,264,841 | 2,266,926 | | |

Assuming that the OCIF grants are not available in future years and the decrease in forecasted debt payments can be redirected to capital renewal requirements, increasing tax revenues by 1.2% for next 20 years will maintain existing asset classes in this AMP. The table from the 2020 AMP recommended a 1.4% increase each year.

| Long Term Financial Plan | | | | | | | | |
|----------------------------------|-----------|-----------|-----------|-----------|--|--|--|--|
| Activity Years | | | | | | | | |
| | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | | | | |
| Infrastructure Deficit | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | | | | |
| Change in OCIF Grant | 548,545 | 548,545 | 548,545 | 548,545 | | | | |
| Change in Debt Costs | - | (167,095) | (332,418) | (432,483) | | | | |
| Resultant infrastructure Deficit | 2,501,706 | 2,334,611 | 2,169,288 | 2,069,223 | | | | |
| Resulting tax increase required | | | | | | | | |
| Total Over Time | 32.5% | 30.4% | 28.2% | 26.9% | | | | |
| Annually | 6.5% | 3.0% | 1.9% | 1.2% | | | | |

Below table taken from 2020 AMP

| Long Term Financial Plan |
|--------------------------|
| |

| Year | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> |
|----------------------------------|-----------|-----------|-----------|-----------|
| Infrastructure Deficit | 2,266,926 | 2,266,926 | 2,266,926 | 2,266,926 |
| Change in OCIF Grant | 260,016 | 260,016 | 260,016 | 260,016 |
| Change in Debt Costs | -171,000 | -332,000 | -333,000 | -432,000 |
| | | | | |
| Resultant infrastructure Deficit | 2,355,942 | 2,194,942 | 2,193,942 | 2,094,942 |
| | | | | |
| Resulting tax increase required | | | | |
| Total Over Time | 31.2% | 29.1% | 29.1% | 27.8% |
| Annually | 6.2% | 2.9% | 1.9% | 1.4% |

OCIF funding and Reallocation Decreases in Debt Costs

With consideration to the table above, full asset funding can be achieved in a 20 year period by increasing capital funding by 1.2% and in combination with the following strategies:

- When realized, reallocate reductions in debt payments to infrastructure reserves
- Allocating Canadian Community Building Fund (CCBF), formerly Gas Tax funding to asset renewal requirements.

This is a 0.2% decrease from the 2020 Asset Management Plan Update is mainly owing to increases in CCBF and the 2022 budgeted capital investments for fleet vehicles. A detailed breakdown of how the annual funding deficit can be addressed is found in Appendix F.

VEHICLES



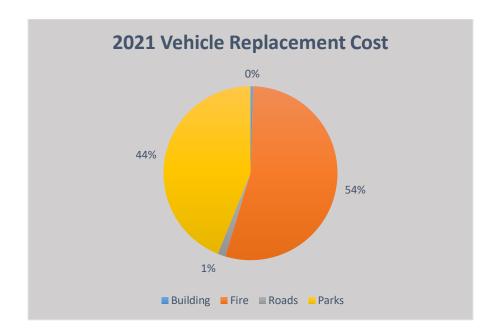
2.0 Vehicles

2.1 Asset Portfolio: Quantity, Useful Life, & Replacement Cost

The table below illustrates key asset attributes for the Town of Erin vehicle portfolio, including quantities by department, useful life, replacement cost, and valuation method. In total, the Town's vehicle assets are valued at \$8.4 million based on 2021 replacement costs. A detailed listing of town vehicles is found in Appendix A.

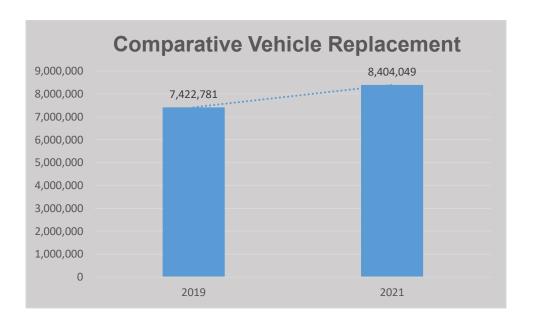
| Component | <u>QTY</u> | Useful life (years) Valuation Method p | lacement Cos | <u>st</u> |
|---------------------------|------------|----------------------------------------|--------------|-------------|
| | | | <u>2019</u> | <u>2021</u> |
| Building Vehicle Licensed | 1 | 10 CPI Monthly (ON) | 41,406 | 41,856 |
| Fire Trailer | 1 | 15 CPI Monthly (ON) | 4,643 | 4,694 |
| Fire Vehicle Unlicensed | 1 | 10 CPI Monthly (ON) | 23,706 | 23,963 |
| Fire Vehicle Licensed | 9,12 | 10,20 CPI Monthly (ON) | 3,656,816 | 4,553,387 |
| Parks Vehicle Licensed | 3 | 10 CPI Monthly (ON) | 88,359 | 89,320 |
| Roads Trailer | 1 | 15 CPI Monthly (ON) | 33,265 | 33,627 |
| Roads Vehicle licensed | 11,12 | 10,20 CPI Monthly (ON) | 1,602,260 | 1,649,711 |
| Roads Vehicle Unlicensed | 16 | 10,12,15,20 CPI Monthly (ON) | 1,972,326 | 2,003,184 |
| | | TOTAL | 7,422,781 | 8,399,742 |

A total of 98% of the Replacement cost for the Town of Erin Vehicles is the Fire and Road Departments.



Replacement cost increased 13.2% from 2019 to 2021. This is a combination of inflationary pressure and a net addition of the following vehicles.

- 1. Fire Station 10 Rescue Vehicle Purchase 2021, cost \$204,620
- 2. Fire Station 50 Rescue Vehicle Purchase 2021, cost \$204,620
- 3. Fire Station 10 Tanker Vehicle Purchase 2021, cost \$424,242
- 4. Road Department, Used Grader, Purchase 2021 \$30,036

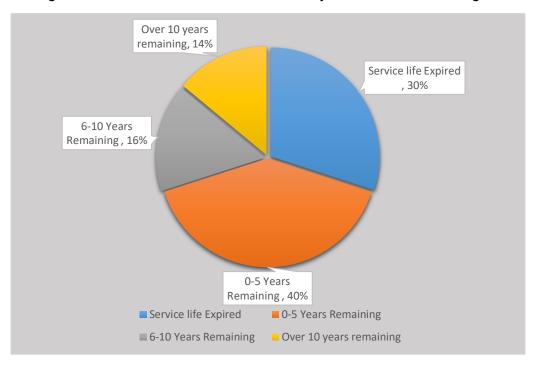


The Replacement costs above were derived applying an inflationary factor (Consumer Price Index) to the Town Vehicle historical costs. Using this methodology, the risk of replacement cost inaccuracy increases the longer an asset ages. (i.e. inflating historical cost may provide an accurate representation of replacement cost early in an asset life cycle, but the accuracy diminishes as more time passes). Therefore, there may be circumstances where an inflationary adjustment to historical cost may not be appropriate and should only be used for assets with shorter lifecycles (i.e. < 7 years).

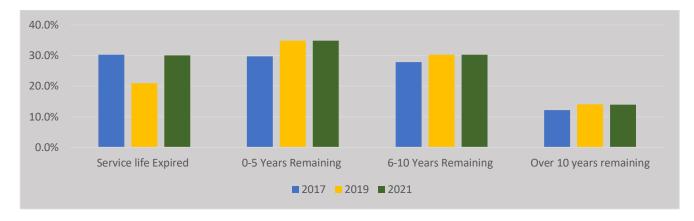
Additionally, inflating historical cost to calculate a replacement value assumes each asset will be replaced with a similar asset.

2.2 Useful Life Consumption

The consumption rate of assets based on industry established useful life standards provides a more complete profile of the state of a community's infrastructure. The figure below illustrates the useful life consumption levels as of 2021 for the Town's vehicles. The Service life Expired has significantly increased as it went from 21% in 2019 to 30%. Although there were the 2021 replacements of the Fire Tanker and Fire Rescue Vehicles, the Roads Department created the greatest amount of this increase with many of their vehicles having service life expired.

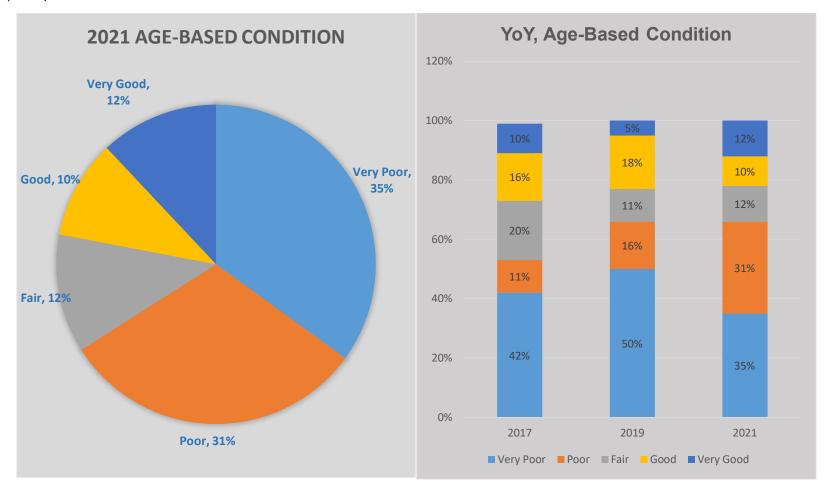


A comparison of Service Life remaining from 2017 to 2021 is shown below.



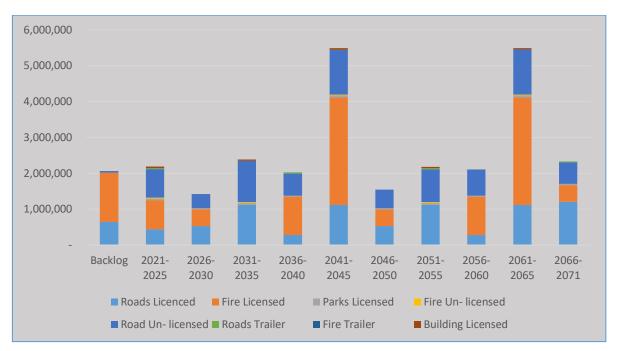
2.3 Asset Condition

The Town of Erin does not have a formal mechanism for tracking vehicle condition. Therefore, the chart below summarizes replacement cost using age-based condition. It's compared against the age-based condition reported in the 2017 and 2019 Asset Management Plan to allow for a year-over year (YoY) comparison.



2.4 Forecasting Replacement Needs

In this section, the short, medium and long-term infrastructure spending requirements (replacement only) for the Town vehicle assets are illustrated. The backlog is the aggregate investment in infrastructure that was deferred over previous years or decades. In the absence of observed date, the backlog represents the value of assets that remain in operation beyond their useful life.



2.5 Recommendations

A preventative maintenance and lifecycle assessment program for all vehicle assets aid in understanding current condition and performance as well as short and medium term replacement needs. The Roads and Fire Department future operation plans have included vehicle preventative maintenance and Capital Budgets have included plans for vehicle replacement.

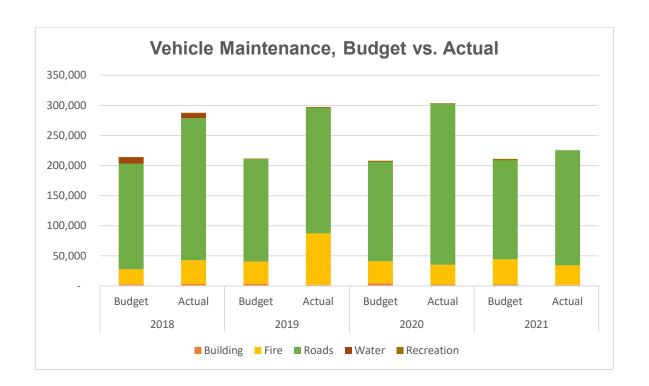
The Town should continue to assess its short, medium and long term capital, operations and maintenance needs. Currently the Roads and Fire Department is required to complete the operations plan (that would include maintenance) for four years of service. A 10 year Capital Plan for Roads, Parks and Recreation, and the Fire Department Vehicle's was prepared by staff. These Plans should be reviewed and updated annually.

An amount to set aside for the Towns Operating and Maintenance requirements should be calculated and in the budget. A percentage of replacement cost is an option, however, the Town is currently basing these requirements on historical spending and performance compared to Budget.

The preventative maintenance program for the Roads Department is contracted to Brandt Tractor or Jade Equipment based on availability, for graders and done in-house for large trucks and ½ ton and 4 wheel small trucks. Preventative maintenance encompasses the following activities:

| Activities | Frequency | | | | |
|--------------------------|-----------------|-----------------|-----------------|--|--|
| | Trucks | Graders | ½ Ton and | | |
| | | | 4-Wheelers | | |
| - Oil Change | Every 300 | Every 500 | Every | | |
| - Air & Hydraulic Filter | operating hours | operating hours | <i>8,000kms</i> | | |
| Replacement | | | | | |

These preventative maintenance measures are reflected in the Town of Erin's annual budgeting process with an annual average of \$211,150 for the four preceding years. This represents 2.5% of the vehicle replacement cost. A summary of budget vs. actual performance is below.



For the Town vehicles long term replacement needs, an annual Roads Fleet reserve allocation of \$50,000, and a Fire Capital Reserve allocation of \$100,000 (assume 50% vehicles = \$50,000), started in 2019 and has carried through on an annual basis for 2020 and 2021. With the planned investments based on the approved 2022 Budget for Fleet, the annual funding for Fleet is 130% of the annual requirement.

MACHINERY, EQUIPMENT AND COMPUTERS



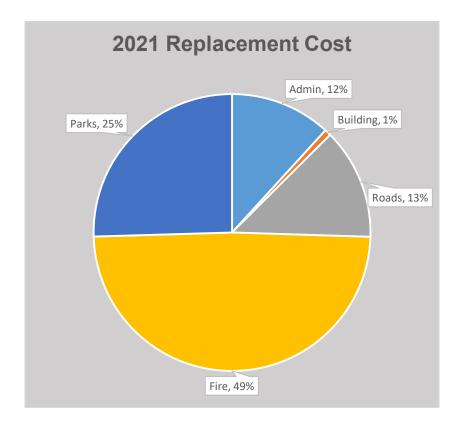
3.0 Machinery, Equipment & Computers

3.1 Asset Portfolio: Quantity, Useful Life, & Replacement Cost

The table below illustrates key asset attributes for the Town of Erin Machinery, Equipment and Computer portfolio, including quantities by department, useful life, replacement cost, and the valuation method. In total, the Town's Machinery, Equipment and Computer assets are valued at \$3.1 million based on 2021 replacement costs. A detailed listing of the Town's Machinery, Equipment and Computers is found in Appendix B.

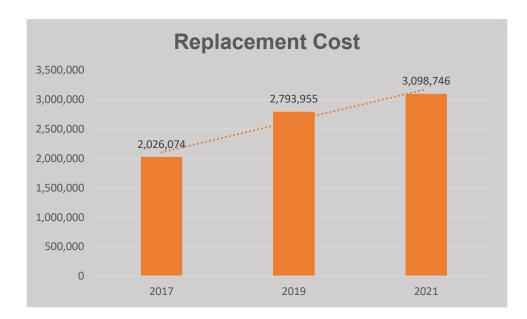
| Component | QTY | Useful Life | Valuation Method | Replacement Cost | | |
|--------------------------------|-----|--------------------|------------------|------------------|-----------|-----------|
| | | (years) | | 2017 | 2019 | 2021 |
| Admin Computer Software | 1 | 5 | CPI Monthly (ON) | 43,090 | 44,642 | 45,128 |
| Admin Computers & Equipment | 15 | 5 | CPI Monthly (ON) | 258,125 | 316,595 | 320,037 |
| Building Computer Software | 1 | 5 | CPI Monthly (ON) | 21,011 | 21,768 | 22,004 |
| Building Computers & Equipment | 1 | 5 | CPI Monthly (ON) | 1,168 | 1,210 | 1,223 |
| Fire Equipment | 40 | 5,7,10,15,20 | CPI Monthly (ON) | 1,186,391 | 1,465,175 | 1,530,663 |
| Parks Equipment | 13 | 10,15,20 | CPI Monthly (ON) | 489,553 | 554,352 | 800,931 |
| Roads Equipment | 2 | 10 | CPI Monthly (ON) | 26,736 | 38,358 | 38,775 |
| Roads -Streetlights | 788 | 10 | CPI Monthly (ON) | 0 | 351,855 | 363,046 |
| | | | TOTAL | 2,026,074 | 2,793,955 | 3,121,807 |

The majority of replacement cost for Town of Erin Machinery, Equipment and computers is in the Fire Department at 49% and Parks and Recreation at \$26%, a total of 75%.



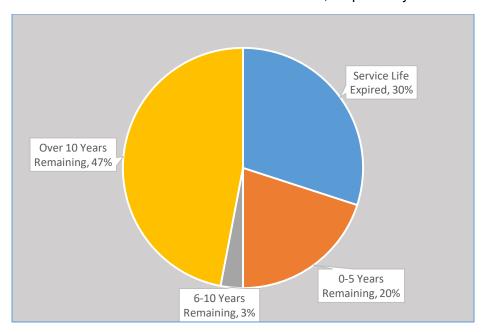
Replacement cost has increased by 11.7% from 2019 to 2021. This is a combination of inflation and the addition of the following items in 2020 and 2021.

- 1) Fire Thermal Imaging Camera
- 2) Parks Parks and Recreation Software
- 3) Parks Brine Pump and Motor
- 4) Parks 2 Zamboni Ice Resurface Machines Erin and Hillsburgh Community Centres
- 5) Fire Hose Cache

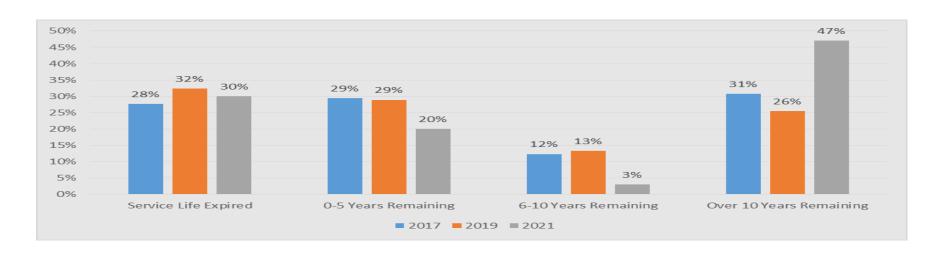


3.2 Useful Life Consumption

A review of the comparison consumption rates of assets based on industry established useful life standards provides a more complete profile of the state of a community's infrastructure. The figure below illustrates the 2021 useful life consumption levels for the Town's Machinery, Equipment and Computers. Service life Expired decreased from 32% to 30% in 2019 to 2021, respectively.

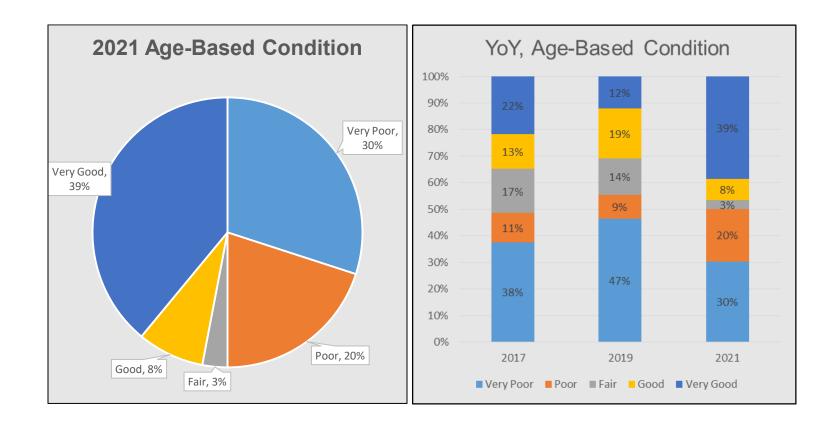


A comparison of service life remaining between the years 2017, 2019 and 2021 is below.



3.3 Asset Condition

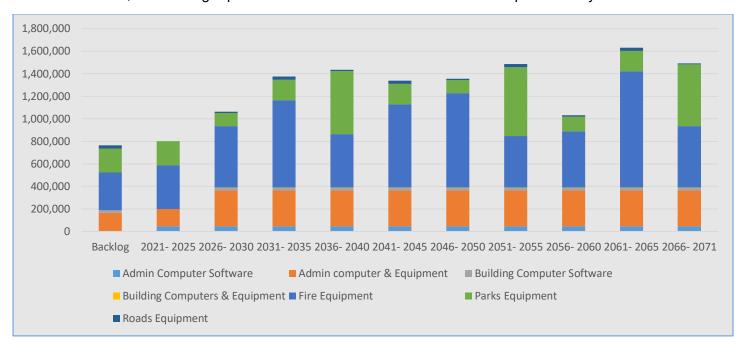
Using replacement cost, the condition of the Town's Machinery, Equipment & Computer assets are summarized by condition as of 2021. The town does not have a mechanism for tracking asset condition for machinery and equipment so age-based data (increased by CPI values) is used as a proxy.



The 2017 to 2021 comparison below shows an overall improvement in 2021 with a decrease in the 'Very Poor' category of 17% as older assets were disposed. Referring to the 3.1 list of new assets acquired explains the 2021 increase in 'Very Good' Category.

3.4 Forecasting Future Replacement Needs

In this section, the short, medium and long term infrastructure spending requirements (replacement only) for the Town's machinery, equipment and computer assets are illustrated below. The backlog is the aggregate investment in infrastructure that was deferred over previous years of decades. In the absence of observed date, the backlog represents the value of assets that remain in operation beyond their useful life.



3.5 Recommendations

The Town of Erin currently completes in-house inspection of all machinery and equipment assets. An annual staff inspection program should be implemented to better define financial requirements for machinery and equipment. The majority of the assets within this category are Fire equipment, then Parks and Recreation equipment, and the Administrative Equipment. Given the nature of assets included within this category, the costs associated with an outside inspection program would outweigh any potential benefits.

All future annual budgets should continue to require each related department for Machinery and Equipment to prepare a plan and a timetable of short, medium and long-term capital, operations and maintenance needs.

For the Town machinery, equipment and computer long term replacement needs, an annual Building reserve allocation of \$30,000, and a Fire Capital Reserve allocation of \$50,000 (50% of \$100,000 for all Fire Capital) and Administrative annual reserve of \$15,000. The \$95,000 along with other available funding in total represents 59% of average annual funding of the machinery, equipment and computer replacement cost of these assets.

BUILDINGS AND FACILITIES



4.0 Buildings and Facilities

4.1 Asset Portfolio: Quantity, Useful Life, & Replacement Cost

The table below illustrates key asset attributes for the Town of Erin Building and Facilities portfolio. It has been developed to include values from previous Asset Management Plan's to allow for a year-over-year comparison and includes asset quantities, useful life and replacement cost. In total, the Town Building and Facilities are valued at \$25 million based on 2021 replacement costs. A detailed listing of the Town's Buildings & Facilities is found in Appendix C.

| Asset Type | Component | Quantity | <u>Useful</u> Life (yrs) | <u>Valuation</u> <u>Method</u> | Replacement Cost | | <u>st</u> |
|---------------|----------------|----------|-----------------------------|-----------------------------------|------------------|-------------|-------------|
| | | | | | <u>2017</u> | <u>2019</u> | <u>2021</u> |
| Buildings | Admin Building | 1 | 40 | CPI Monthly (ON) | 853,579 | 1,409,043 | 1,424,360 |
| & | Fire Building | 2 | 20, 40 | CPI Monthly (ON) | 3,373,166 | 3,499,751 | 3,545,403 |
| Facilties | Parks Building | 7 | 20, 40 | CPI Monthly (ON) | 17,724,989 | 18,445,904 | 18,638,756 |
| raciities | Roads Building | 4 | 20, 40 | CPI Monthly (ON) | 1,414,489 | 1,531,912 | 1,551,935 |
| | | | 23,366,223 | 24,886,610 | 25,160,454 | | |

Note: Quantity refers to the total number of buildings recognized in the Town's Asset Management Software and in the Pinchin Building Condition Assessment.

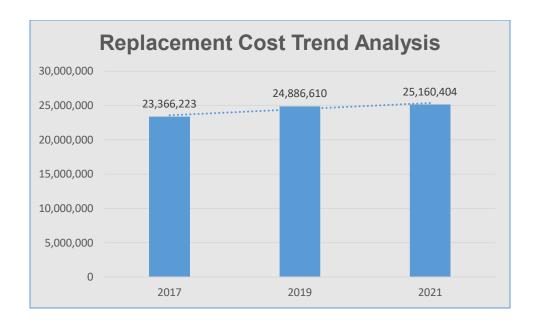
Details of each building can be found in Appendix C while a financial overview of each facility is below.

| Facility | Cost | Accumulated Amortization | Net Book Value | Replacement Cost | Number of Components |
|------------------------------------|------------|-----------------------------|-------------------|---------------------|----------------------|
| Erin Community Centre | 5,087,835 | 3,163,854 | 1,923,981 | 12,904,023 | 9 |
| Hillsburgh Community Centre | 1,509,881 | 1,334,913 | 174,969 | 4,658,814 | 12 |
| Ballinafad Community Centre | 214,128 | 192,340 | 21,788 | 627,616 | 3 |
| Parks Buildings | 269,111 | 127,372 | 141,739 | 448,303 | 4 |
| Roads Shop | 898,823 | 569,626 | 329,197 | 1,551,935 | 6 |
| Municipal Office | 1,115,560 | 416,600 | 698,960 | 1,424,360 | 5 |
| Hillsburgh Fire Station | 2,538,108 | 511,472 | 2,026,636 | 2,871,095 | 2 |
| Erin Fire Station | 298,882 | 265,817 | 33,065 | 674,308 | 2 |
| TOTALS | 11,932,330 | 6,581,994 | 5,350,335 | 25,160,454 | 43 |

The majority of Replacement cost of Buildings and Facilities is for Parks and Recreation.



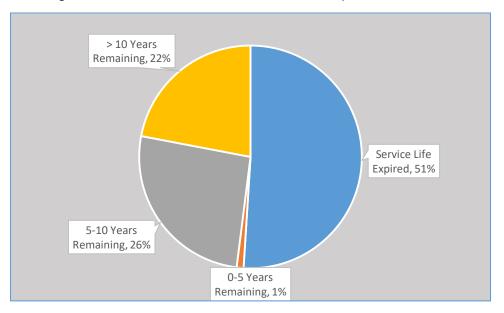
Replacement cost has risen 6.5% from 2017 to 2019 and 1.1% from 2019 to 2021. This is a combination of inflationary increases and the addition of building components (2021 is listed above).



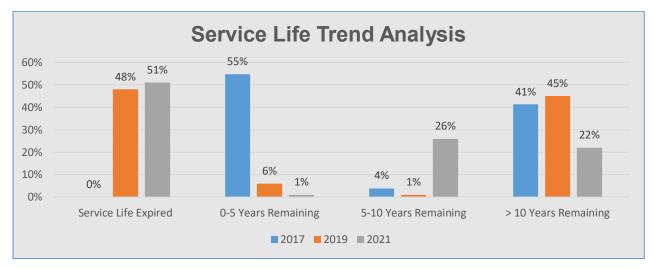
From the 2020 Budget, \$2.4 Million in renovations over 3 years was planned for the Erin Community Centre, with funding from grants, Erin Community Centre Reserves and Cash-in-lieu of Parkland. Also, \$126 Thousand in renovations was planned for the Hillsburgh Community Centre which will be funded from the Canadian Community Building Fund. Due to COVID restrictions, the majority of these renovations have been pushed forward to the third year 2022.

4.2 Useful Life Consumption

Understanding the consumption rate of assets based on industry established useful life standards provides a more complete profile of the state of a community's infrastructure. The figure below illustrates the useful life consumption levels as of 2021 for the Town's Building and Facilities.

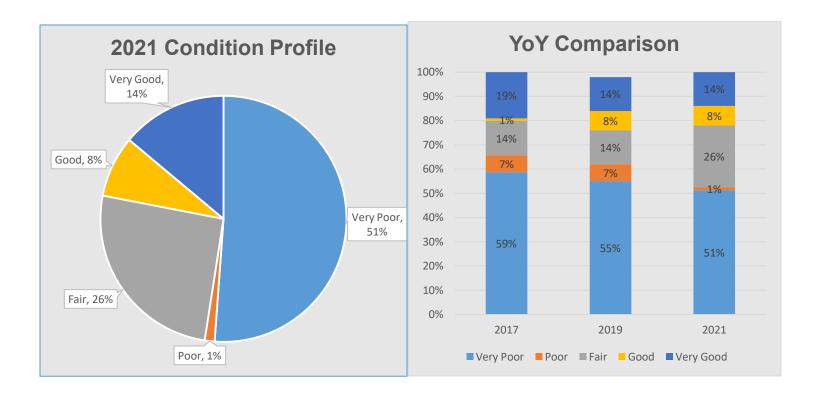


Service life Expired has increased 3% from 2019 to 2021, while service life greater than 10 years has decreased by 13%. These statistics will improve with the projects that were delayed due to COVID response will now be moving ahead with planning and construction. A comparison of service life remaining between 2017 and 2021 is below.



4.3 Asset Condition

Using replacement cost, in this section, the condition of the Town's Building and Facilities are summarized as of 2021. Asset condition has shifted slightly in positive direction with a lower percentage in the 'Very Poor' category. The main take away from the charts below is the increase in 'Fair' condition over the 5 years and the need to maintain these assets so that they do not fall into the 'Poor' and 'Very Poor' category.



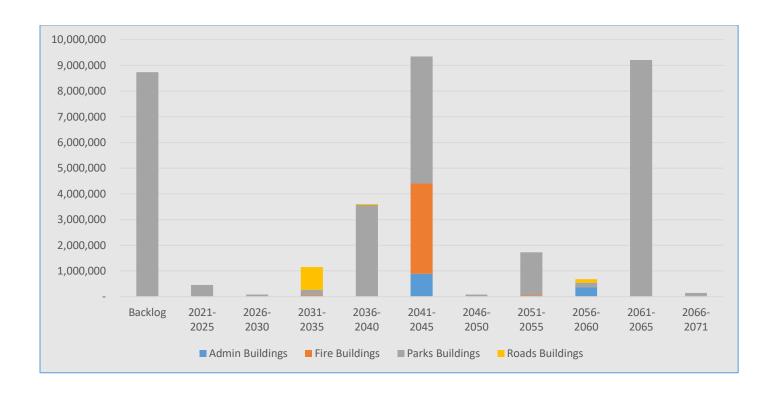
Additionally, Building condition Assessments (BCA) were performed on the following Town of Erin Buildings during 2019 by Pinchin Engineering: Ballinafad Community Centre, Hillsburgh community Centre, Erin Community (& Tennis Courts), Victoria, Barbour Field and McMillan Parks, Erin and Hillsburgh Fire Stations and the Municipal Office. The Roads Shop BCA was completed by Pinchin Engineering in 2021.

During the assessment a visual inspection of building element was conducted with all common and service room reviewed and an inspection of the exterior was completed. A summary of the components by condition assigned is below.

| Condition Assessment | Erin Community Centre | Hillsburgh Community Centre | Ballinafad Community Centre | Parks Buildings | Roads Shop | Municipal Office | Hillsburgh Fire Station | Erin Fire Station |
|-------------------------|-----------------------------|-----------------------------------|-----------------------------------|--------------------|---------------|---------------------|-------------------------------|-------------------------|
| Very Poor | 5 | 3 | 1 | 1 | 0 | 0 | 0 | 0 |
| Poor | 3 | 4 | 0 | 2 | 5 | 1 | 0 | 4 |
| Fair | 8 | 9 | 7 | 9 | 10 | 5 | 0 | 5 |
| Good | 9 | 3 | 9 | 7 | 5 | 6 | 4 | 11 |
| Very Good | 5 | 5 | 14 | 48 | 7 | 19 | 26 | 9 |

4.4 Forecasting Future Replacement Needs

In this section, the short, medium and long-term infrastructure spending requirements (replacement only) for the Town's Building and Facilities assets are illustrated. The backlog is the aggregate investment in infrastructure that was deferred over previous years or decades. In the absence of observed data, the backlog represents the value of assets that remain in operation beyond their useful life.



The 10-year replacement needs visualized in the chart above is summarized in the table below and compared against recommendations from Building Condition Assessments (BCAs):

| Building | City | BCA 10 year | | |
|-----------------------------|-----------|-----------------------------|------------------|-----------|
| | 2021-2025 | <u>2026-</u> <u>2030</u> | 10 Year Total | |
| Erin Community Centre | 8,120,657 | 13,323 | 8,133,980 | 1,938,117 |
| Hillsburgh Community Centre | 756,017 | 52,965 | 808,982 | 1,004,050 |
| Ballinafad Community Centre | 318,368 | 14,850 | 333,218 | 198,875 |
| Parks buildings | | | - | 550,507 |
| Roads Shop | | | - | 117,362 |
| Municipal Building | | | - | 283,961 |
| Hillsburgh Fire Hall | | | - | 170,387 |
| Erin Fire Hall | | | - | 344,322 |
| TOTAL | 9,195,042 | 81,138 | 9,276,180 | 4,607,581 |

4.5 Recommendations

The information from the Building Condition Assessments (BCA) done for 10 facilities in 2019 and the Roads Shop in 2021, included component information that has been incorporated into the Town of Erin capital software and will be updated as recommended improvements are completed.

This information has been incorporated into the 2021 budget and 2022-2025 Forecast and developed a risk management framework that prioritizes the repairs and replacements required to extend component life and maintain functionality.

Lifecycle activity framework were completed from the BCA studies and will continue to be updated in the Town of Erin capital software.

Assessment of short, medium and long-term capital, operations and maintenance needs have been prioritized from the information obtained in the BCA.

Key performance indicators continue to be developed for assets and tracked annually.

The Town is currently funding 26% of its average annual requirement for its building and facilities.

ROAD NETWORK



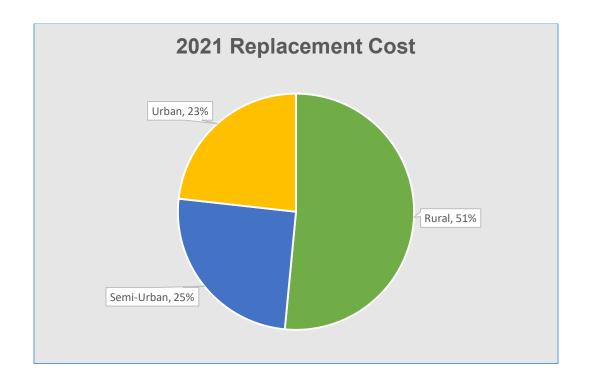
5.0 Road Network

5.1 Asset Portfolio; Quantity, Useful Life, & Replacement Cost

The table below illustrates key asset attributes for the town's Road Network portfolio, including quantities of various assets, their useful life, replacement cost, and valuation method. In total, the Town's Road assets are valued at \$72,675,827 million based on 2021 replacement costs. Useful life indicated for each asset type was assigned from the Capital Asset Policy.

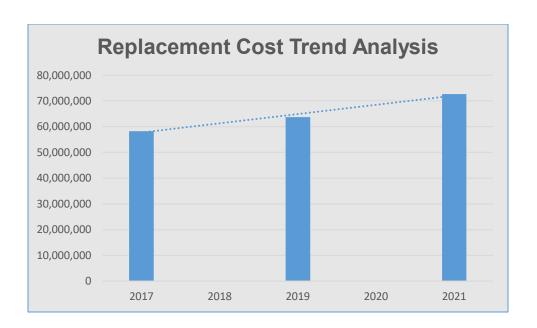
| Component | QTY | Useful Life | Valuation Method | Replacement Cost | | |
|----------------------------------|--------|----------------|---------------------|------------------|-------------|-------------|
| | | (years) | | <u>2017</u> | <u>2019</u> | <u>2021</u> |
| | | | NRBCPI | | | |
| Road Base - Asphalt - R | 36km | 40 | Quarterly | 14,883,388 | 16,198,417 | 18,421,489 |
| Road Base - Asphalt - S | 23km | 40 | NRBCPI Quarterly | 8,889,508 | 9,643,751 | 10,868,702 |
| Road Base - Aspirant - 3 | ZJKIII | 40 | NRBCPI | 0,003,300 | 9,043,731 | 10,000,702 |
| Road Base - Asphalt - U | 10km | 40 | Quarterly | 10,362,205 | 11,285,271 | 12,848,953 |
| Dood Doog Forth D | 0.201 | 40 | Not Diamed | | | |
| Road Base - Earth - R | 0.32km | 40 | Not Planned | - | - | - |
| Road Base - Earth - S | 0.25km | 40 | Not Planned | - | - | _ |
| | | | | | | |
| Road Base - Gravel - R | 190km | 40 | Not Planned | - | - | - |
| Road Base - Gravel - S | 2km | 40 | Not Planned | _ | _ | _ |
| Noau Base - Graver - S | ZKIII | 40 | NRBCPI | - | - | - |
| Road Base - Surface Treatment -R | 33km | 40 | Quarterly | 8,150,319 | 8,925,195 | 10,324,646 |
| | | | NRBCPI | | | |
| Road Base - Surface Treatment -S | 2km | 40 | Quarterly | 610,098 | 658,963 | 734,723 |
| | | | NRBCPI | | | |
| Road Surface - Asphalt - R | 30km | 20 | Quarterly | 7,047,459 | 7,669,683 | 8,732,389 |
| | | | NRBCPI | | | |
| Road Surface - Asphalt - S | 23km | 20 | Quarterly | 5,126,711 | 5,741,337 | 6,636,873 |
| Road Surface - Asphalt - U | 11km | 20 | NRBCPI Quarterly | 3,227,439 | 3,608,116 | 4,108,052 |
| Toda Carrado Fiopriait | | | quartoriy | 5,221,400 | 5,000,110 | ., 100,002 |
| | | | TOTAL | 58,297,127 | 63,730,733 | 72,675,827 |

The majority of Town of Erin replacement cost is comprised or rural roads.



Replacement cost has risen 14% from 2019 to 2021. This is a combination of inflationary increases and the addition of the following road-related components that totaled a net addition of \$ 359.955

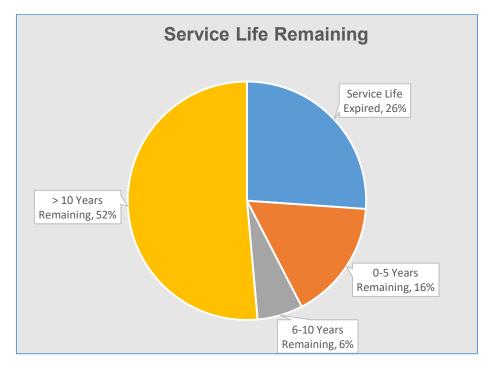
17th Sideroad between Wellington Road 26 and 2nd Line \$259,939 Dundas Street Sidewalk between Main Street and Boland Drive \$100,016



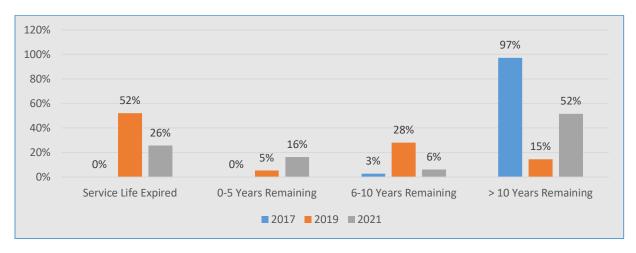
5.2 Useful life Consumption

Understanding the consumption rate of assets based on industry established useful life standards provides a more complete profile of the state of a community's infrastructure. The figure below illustrates the useful life consumption levels as of 2021 for the Town's Road Network based on

Replacement Values.



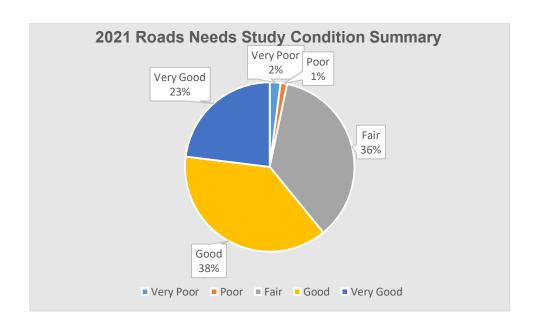
A comparison of service life remaining from 2017 to 2021 is below. Service life Expired has decreased to 26% in 2021 versus 52% in 2019 and Greater than 10 years remaining increased to 52% in 2021 versus 15% in 2019. These are both favourable results, attributable to maintenance and the replacement of the assets.



5.3 Asset Condition

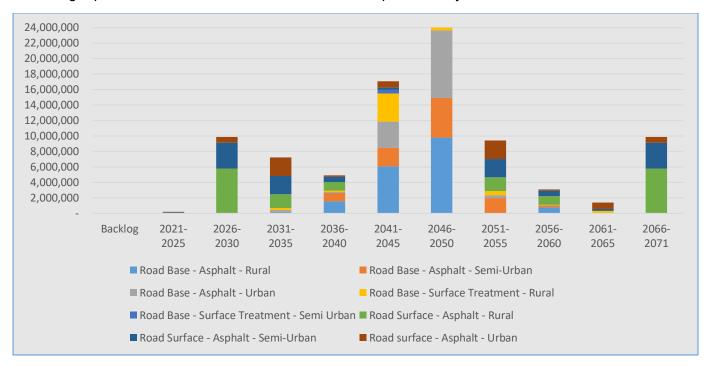
The Roads Needs Study was completed in 2021. Asset condition has been categorized based on 6 factors totaling 100% with a resulting condition index for each road section. The scoring system is as follows:

| Surface Condition | 10 |
|---------------------|-----|
| Surface Width | 25 |
| Level of Service | 20 |
| Structural Adequacy | 20 |
| Drainage | 15 |
| Maintenance Demand | 10 |
| TOTAL | 100 |



5.4 Forecasting Future Replacement Needs

In this section, the short, medium and long term infrastructure spending requirements (replacement only) for the Town's Roads assets are illustrated. The backlog is the aggregate investment infrastructure that was deferred over previous years or decades. In the absence of observed data, the backlog represents the value of assets that remain in operation beyond their useful life.



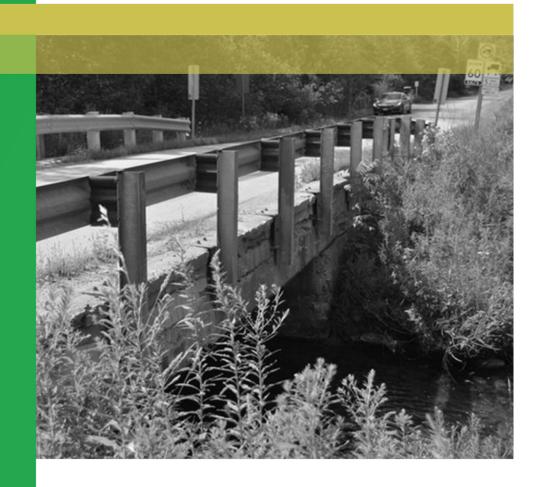
5.5 Recommendations

2021 Age based Data as well as previous years indicates no backlog. Ten year replacement needs have increased to \$10,078,616. Information from the 2021 Roads Needs Study should be updated in 'Citywide' software and has already been incorporated into 'Streetscape' Software. This new data will assist the Town in pinpointing Roads that require maintenance, rehabilitation or replacement.

Condition assessment data from the 2021 Roads Needs Study will be integrated into the 2022 Operations Plan as prioritization guidance for short, medium and long term replacements needs. In addition, The 2021 Roads Needs Study will establish priorities for capital improvements, based on the scoring method that included a breakdown of Surface Condition, Surface Width, Level of Service, Structure Adequacy, Drainage and Maintenance Demand

Key performance indicators from the Study included traffic counts, and tracking of maintenance requirements such as crack sealing, patching and winter maintenance that also included community consultation. Using the Total Long Term requirements from the Road Needs Study, The town is currently funding 62% of its average annual requirements for the road network.

BRIDGES AND CULVERTS

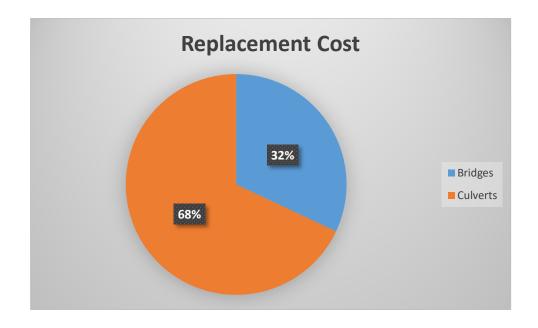


6.0 Bridges and Culverts

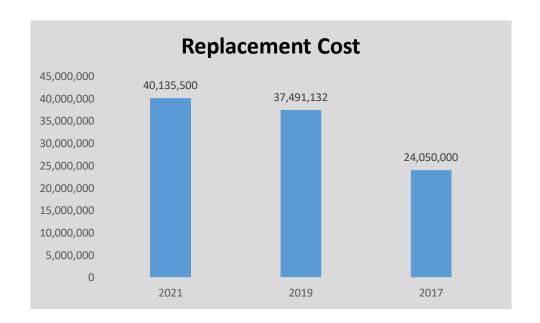
6.1 Asset Portfolio: Quantity, Useful Life, & Replacement Cost

The table below illustrates key asset attributes for the Town of Erin Bridge and Culvert portfolio. All values are from the OSIM Bridge Inspection Reports, completed every two years as per Ontario regulation 104/97.

| Component | QTY | Useful Life (Average 2021) | Valuation | 2021 Replacement Cost | 2019 Replacement Cost | 2017 Replacement Cost |
|-----------|-----|-------------------------------------|----------------|-----------------------------|-----------------------------|-----------------------------|
| Pridges | 11 | 17.34 | OSIM | 12,767,500 | 11,800,302 | 8,650,000 |
| Bridges | 11 | 17.34 | Report OSIM | 12,767,500 | 11,800,302 | 8,650,000 |
| Culverts | 36 | 15.61 | Report | 27,368,000 | 25,690,830 | 15,400,000 |
| TOTAL | 47 | | | 40,135,500 | 37,491,132 | 24,050,000 |



The figure below shows the upward trend in cost of Replacement from 2017 to 2021.

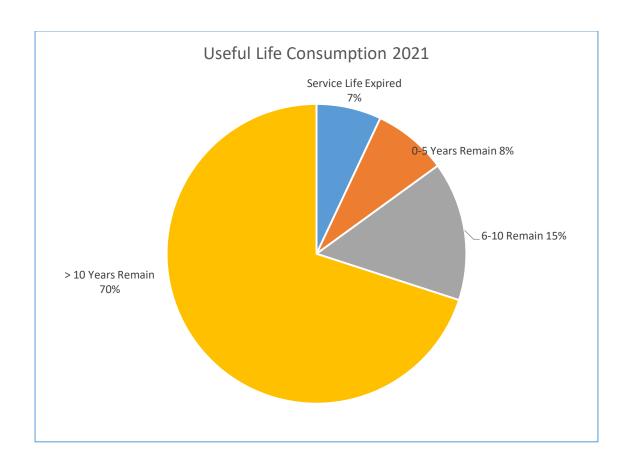


The 7.1% increase in Replacement costs from 2019 to 2021 of all the bridges and culverts in the Town of Erin is primarily due to inflation. This is expected to rise again due to increasing inflationary pressures.

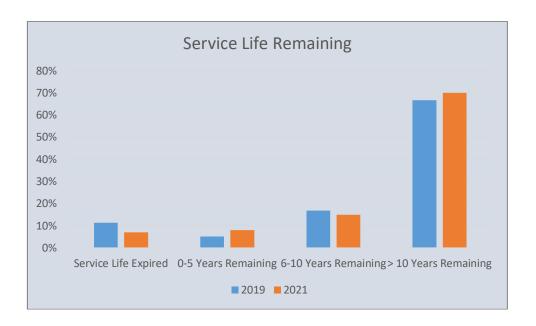
The increase of 55.9% from 2017 to 2019 is the result of inflation as well as several culverts not included in the earlier report. The 2017 Report did not include Culvert 2066 and 2068 located on the Erin-Garafraxa Townline and Culvert 2026 and 2027 located on the Erin-Halton Townline border as well as Culvert 2045 that was planned for and replaced in 2018.

6.2 Useful Life Consumption

A comparison of useful life consumption from 2019 to 2021 gives a more complete profile of the state of the communities' infrastructure. Service life expired has decreased by 4% and Bridges and Culverts with greater than 10 years remaining have increased by 3%. This improvement overall can be attributed to the completed capital projects of Bridge 2064, and Bridge 11 and the completion of Culvert 2051.



A comparison of useful life remaining from 2019 to 2021 in the chart below gives a clear example of the Town of Erin's proactive approach to replacing bridges and culverts.

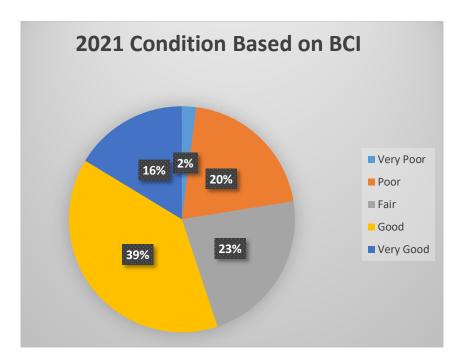


6.3 Asset Condition

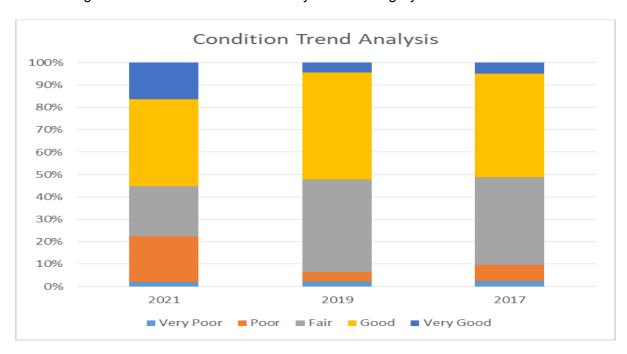
The Town of Erin's Bridge and Culvert Infrastructure is inspected by-annually using the Ontario Structure inspection Manual (OSIM) format. All structures in excess of 3 meters are mandated to be included in the Town's Inspection Inventory. Therefore, the condition date outlined in this section is based on the observed data from the 2021 OSIM inspections. Where a structure is shared with an adjoining municipality, data from their OSIM report has been included.

| | Condition Scale: Roads/Bridges | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Scale | Definition | BCI |
| Very Good (5) | The asset is in very good condition, typically new or recently rehabilitated. Maintenance needs should be minimal until the next assessment of the asset. | > 90 |
| Good (4) | The asset is physically sound and is in good condition, with some elements showing general signs of wear that require attention. Maintenance is minimal, and costs associated with maintenance activities fit within the departmental operating budget. Typically the asset has been used for some time but is still within early to mid-state of its expected life. | 70 - 90 |
| Fair (3) | The asset shows general signs of deterioration, and is performing at a lower level than originally intended. Some components of the asset are becoming physically deficient and component replacement may be necessary. Maintenance requirements and cost are increasing. The asset is in need of either minor capital repairs, or additional maintenance. | 50 - 70 |
| Poor (2) | The asset is approaching the end of its useful life, and exhibits significant deterioration. Major repairs are required, with significant capital investment. | 40 - 50 |
| Very Poor (1) | The asset is in unacceptable condition with widespread signs of advanced deterioration, and has a high probability of failure. Maintenance costs are unacceptable and rehabilitation is not cost-effective. The asset is in need of major replacement or refurbishment. | < 40 |

The Bridge Condition Index (BCI) for 2021 has the majority of the Bridges and Culverts in the Good range at 39%. The Very Poor Range of 2% indicates that these structures should be replaced.

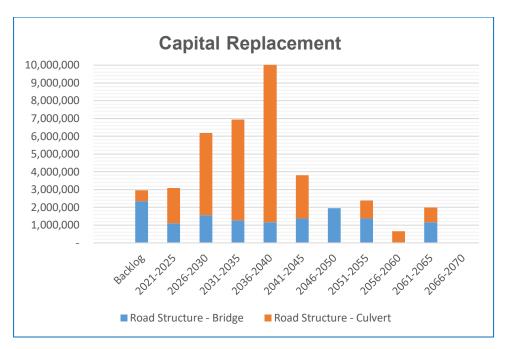


The average Bridge Condition Index (BCI) for 2021 is 69.95, an improvement of 1.85 over the years 2019 and 2017. The comparison of the condition trend below shows the greatest increase in the 2021 'Very Good' Category.



6.4 Forecasting Future Replacement Needs

In this section, the short, medium and long-term infrastructure spending requirements (replacement only) for the Town's Bridges and Culverts are illustrated in the below chart. The backlog is the aggregate investment in infrastructure that was deferred over previous years or decades and represents the value of assets that remain in operation beyond their useful life. The 2021 OSIM report recommends replacements including 2021 and beyond. The recommendations are to clear backlog with the majority of replacements planned over the next 25 years.



The replacement needs visualized in the chart above are based on the 2021 OSIM inspections. This chart assumes full structure replacement based on the 2021 OSIM report values. The OSIM inspections often recommend major or minor rehabilitation along with ongoing maintenance, to create a buffer or postponement of complete structure replacement. Out of the 47 Bridges and Culverts listed in the report, a total of 11 were recommended for Rehabilitation and 6 were recommended to be completed within one year at an estimated cost of 1.68 Million (Appendix D).

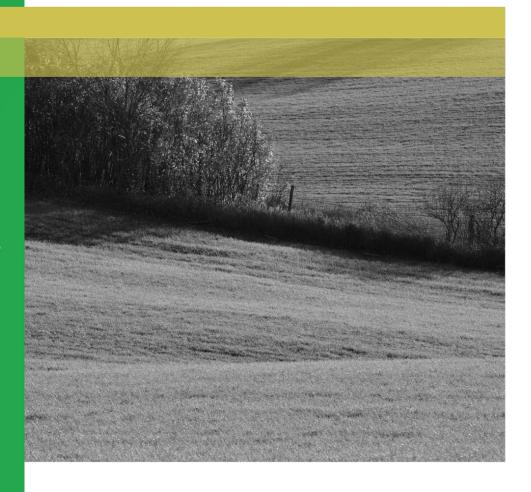
6.5 Recommendations

The information from the 2021 OSIM inspection report has been incorporated into the 2021 Asset Management Plan and integrated into the development of the 2021 Capital budget and 2022-2025 Capital Forecast. OSIM inspections will continue to be performed by-annually as required by Province of Ontario Regulation 104/97 with the next one scheduled in 2023.

Key Performance Indicators have been assessed under the direction of a Professional Engineer that identify any material defects, maintenance needs, additional studies and/or repairs/rehabilitation work required on a structure by structure basis, and included in the 2021 OSIM report.

The updated Financial Profile for Bridges and Culverts indicates that the Town's average annual investment is 66% for its long term funding requirements.

LAND IMPROVEMENTS



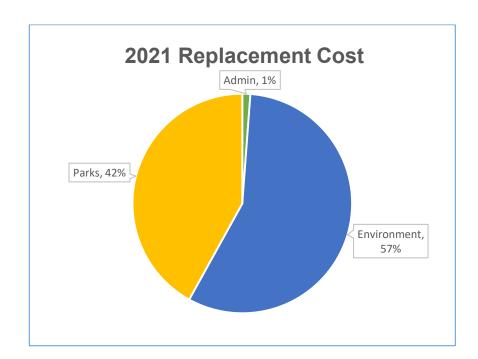
7.0 Land Improvements

7.1 Asset Portfolio: Quantity, Useful Life, & Replacement Cost

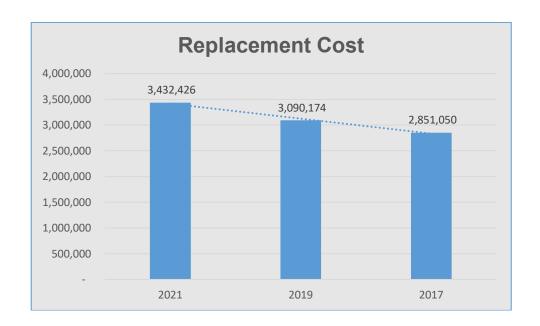
The table below illustrates key asset attributes for the Town's Land improvements, which include parks, tennis courts, playground equipment, and other items. The table outlines quantities, useful life, replacement cost, and the valuation method. In total, the Town's land improvement assets are valued at \$3.43 million based on 2021 replacement costs.

| Component | QTY Useful Life Valuation Method | | | Re | placement Co | <u>st</u> |
|-------------------|----------------------------------|---------------------------|------------------|-------------|--------------|-------------|
| Land Improvements | | (Years) | | <u>2021</u> | <u>2019</u> | <u>2017</u> |
| Admin | 2 | 15 | CPI Monthly (ON) | 40,535 | 40,099 | 38,705 |
| Environmental | 1 | 15 | CPI Monthly (ON) | 1,951,647 | 1,760,791 | 1,699,546 |
| Parks | 19 | 19 10,20 CPI Monthly (ON) | | 1,440,244 | 1,289,284 | 1,112,799 |
| | | TOTAL | 3,432,426 | 3,090,174 | 2,851,050 | |

The majority of Land Improvement replacement cost is comprised of Environmental and Parks that encompass the larger areas in the chart below.



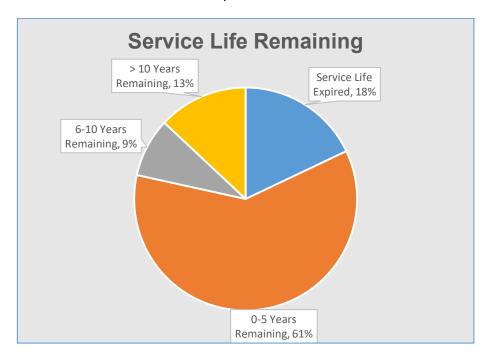
Replacement cost has risen 11.1% from 2019 to 2021, with the increase attributable to inflation (CPI monthly Ontario values were used) as well as the completion of a Drainage Project and Parkland Improvements.



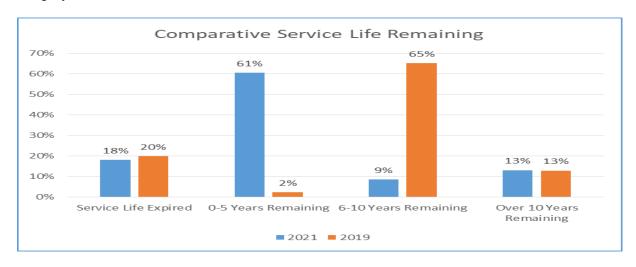
The Erin Rotary River Walk Trail Parkland Project, with a budget of \$300,000, is ongoing with the completion of Phase II expected in 2022.

7.2 Useful Life Consumption

The consumption rate of assets based on industry established useful life standards provides a more complete profile of the state of the community's infrastructure. The figure below illustrates the useful life consumption levels as of 2021 for the Town of Erin Land Improvements.

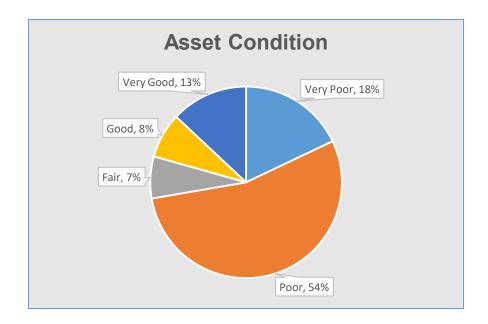


Service Life expired over the 3 years experienced a shift between 0 to 5 years and 6 to 10 years, as assets that were on the borderline (6 years) have moved into the lower category.



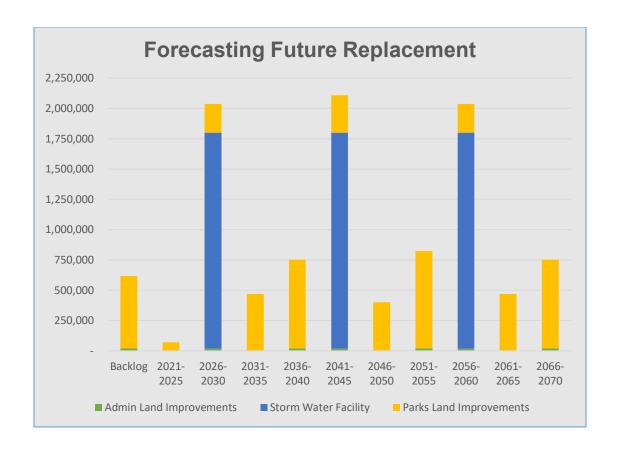
7.3 Asset Condition

Using replacement cost, the condition of the Town of Erin's Land Improvement assets is summarized as of 2021.



7.4 Forecasting Future Replacement Needs

In this section, Short, medium and long-term infrastructure spending requirements (replacement only) for the Town of Erin's Land Improvement Assets are illustrated. The backlog is the aggregate investment in infrastructure that has been deferred over previous years. In the absence of observed data, the backlog represents the value of assets that remain in operation beyond useful life.



7.5 Recommendations

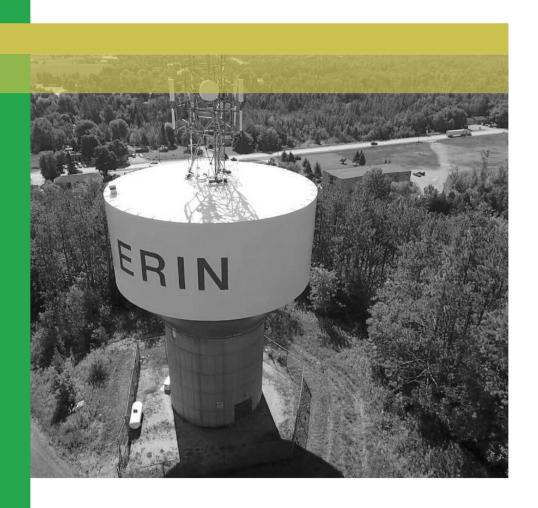
The 2019 Parks, Recreation and Culture Masterplan provided the Town of Erin with a long-term plan. The Town is following these recommendations with budgeted upgrades to parks equipment, fencing and bleachers.

Immediate needs are addressed with ongoing Condition assessment of Land Improvement Assets that is currently performed by Town of Erin staff, who annually inspect playgrounds and trails, as well as Town residents input.

Engineers and architects have designed the Riverwalk Trail project and the construction is ongoing with a budget of \$300,000.

The Town of Erin is setting aside an annual amount to address immediate needs in land improvement assets. For the 2021 AMP, funding of approximately 25% of the Average Annual Investment Required has been set aside.

WATER SYSTEM



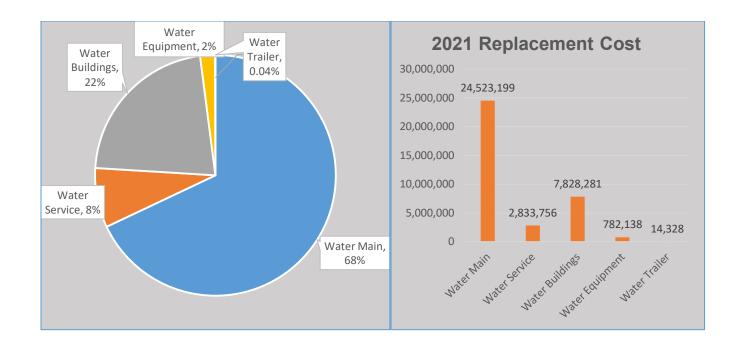
8.0 Water System

8.1 Asset Portfolio: Quantity, Useful Life, & Replacement Cost

The table below illustrates key asset attributes for the Town's Water Assets that exist in the water mains and water service. The Valuation Method used for Water Mains and Service was NRBCPI Quarterly, and Water Buildings, Equipment and Trailer was CPI Monthly (Ontario). To be consistent, the Valuation Method used in 2017 has been used for all updates.

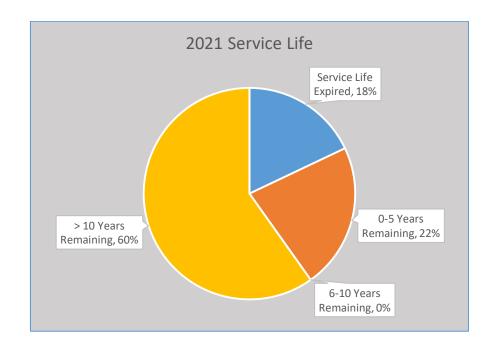
| Component | <u>Useful Life</u> | QTY | Replacement | QTY | Replacement | <u>QTY</u> | Replacement |
|-----------------|--------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Water</u> | <u>Years</u> | <u>2017</u> | Cost | <u>2019</u> | <u>Cost</u> | <u>2021</u> | Cost |
| Water Main | 50,75 | 113 | 20,785,428 | 113 | 22,321,217 | 113 | 24,523,199 |
| Water Service | 50,75 | 117 | 2,558,390 | 117 | 2,747,374 | 117 | 2,833,756 |
| Water Buildings | 20,40 | 11 | 8,292,829 | 10 | 7,744,827 | 10 | 7,828,281 |
| Water Equipment | 5,10,20 | 11 | 531,479 | 13 | 603,848 | 15 | 782,138 |
| Water Trailer | 15 | 2 | 13,680 | 2 | 14,174 | 2 | 14,328 |
| Water Vehicles | 10 | 4 | 161,395 | 0 | 0 | 0 | 0 |
| | | 113 | 32,343,201 | | 33,431,440 | | 35,981,702 |

The majority of replacement cost is comprised of the Water Mains.



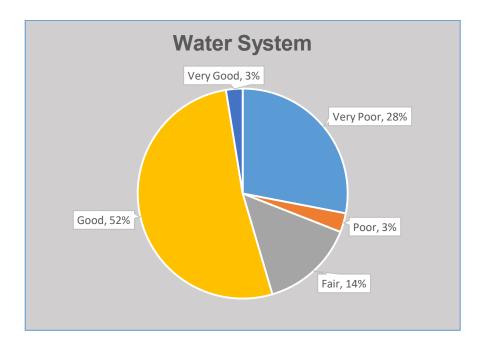
8.2 Useful Life Consumption

In conjunction with historical spending patterns and observed condition data, understanding the consumption rate of asset based on industry established useful life standards provides a more complete profile of the state of a community's infrastructure. The figure below illustrates the Useful life consumption levels as of 2021 for the Towns Water Service and Water Mains. 60% of the water assets have at least 10 years of useful life remaining while 18% with a value of \$2.1 million remain in operation beyond their useful life. An additional 22% will reach the end of their useful life within the next five years.



8.3 Current Asset Condition

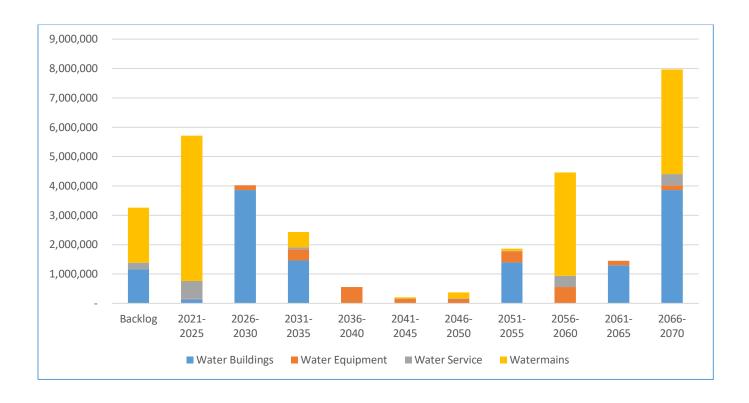
Using 2021 replacement cost, in this section, the condition of the Town's Water Service and Water Mains is classified from Very Poor to Very Good. The Town does not have a mechanism for tracking asset condition so age-based data is used as a proxy.



Based on Age Data, 55% of assets are in good to very good condition with a replacement cost of 14.9 million, and 45% in very poor to fair condition with a replacement cost of 12.4 million.

8.4 Forecasting Future Replacement Needs

In this section, the short, medium and long-term infrastructure spending requirements (replacement only) for the Towns Water System Assets. The backlog is the aggregate investment in infrastructure that was deferred over previous years or decades. In the absence of observed data, the backlog represents the value of assets that remain in operation beyond their useful life.



In addition to a backlog of \$3.1 million, replacements needs will total \$9.0 million in the next five years, with an additional \$4 million between 2026 and 2030.

8.5 Financial Profile: Rate Funded Assets

The Towns annual requirements (CityWide) for its Water System in 2020 and 2021 AMP is summarized below. Values are based on historical costs, updated to Replacement using CPI indexes. The table below shows that the Town is not allocating sufficient funds by \$228, on an annual basis to meet replacement needs and projects may need to be deferred or incur debt. Injection of additional revenues from projected growth will help mitigate infrastructure backlogs.

| Asset Class | Average Annual | Total Fun | Surplus (Deficit) | | |
|--------------------|--------------------------------------------------|-----------|----------------------|---------|-------------|
| | Investment Required Revenue Operations Available | | Available | | |
| | | | | Funding | |
| Water Network | 420,796 | 1,336,528 | (881,508) | 455,020 | \$ 34,224 |
| Water Facilities | 200,259 | | | | \$(200,259) |
| Machinery & Equip. | 62,332 | | | | \$ (62,332) |
| | | | | | |
| Total | 683,387 | 1,336,528 | (881,508) | 455,020 | \$(228,367) |

8.6 Recommendations – Water System

- 1. Age-based data show a backlog of \$3 million and 10 year replacement needs of 1.3 million. Based on the Asset Management Plan (AMP) condition assessments and the annual Deficit of available funding, a Grant has been applied for to address these needs.
- 2. The data collected through the (AMP) condition assessments has been integrated into a risk management framework (8.2 and 8.3), that will guide prioritization of short, medium and long term replacement needs. It was determined that the cost of a formal assessment would outweigh the benefit.
- 3. A tailored lifecycle activity framework was recommended and developed during the 2020 budget process. This framework will continue to be updated annually.
- 4. Key Performance indicators have been established and must continue to be tracked annually as part of the overall level of service model.
- 5. The short, medium and long-term capital, operations and maintenance needs need to be annually assessed. The Town has outsourced this to the Ontario Clean Water Agency (OCWA) who have provided a 5 year capital plan that has been incorporated into long term needs and annual budgets.
- 6. An appropriate percentage of replacement costs should be allocated for the Town's operating and maintenance requirements. Currently, the Town is legislated and has followed the requirements of O. Reg. 453/07 that stipulates financial plans have been approved and impacts have been considered.
- 7. The Town needs to set aside an annual amount to fund long term requirements. The grant applied for (point 1) has been approved with construction and replacement to begin in 2023.

Appendix A – Town of Erin Vehicles

Roads Vehicles

| Vehicle Type | Name | In-Service | Historical | | | Replacement |
|-----------------|-----------------------------------------------|------------|------------|--------------|---------|-------------|
| venicie Type | Nume | Date | Cost | Amortization | Value | Cost |
| | International Paystar 5500 2005 | 1/1/2005 | 198,613 | 198,613 | - | 263,620 |
| | International 7600 SBA 2010 Sander,Plow | 1/1/2005 | 245,318 | 245,318 | - | 325,612 |
| | International 7600 Tandem Plow 2012 | 1/1/2012 | 225,920 | 225,920 | - | 261,325 |
| /ehicle License | Ford F450 2015 4X4 1 Ton Pickup with dump box | 1/1/2014 | 66,090 | 52,864 | 13,226 | 74,773 |
| | GMC Sierra Pickup 2014 | 1/1/2014 | 30,472 | 24,374 | 6,098 | 34,476 |
| | Dodge Ram 2500 Pickup 2015, Plate:AL46686 | 1/1/2015 | 38,794 | 27,150 | 11,644 | 43,191 |
| cincic License | International 7000 Series 7600 2007 | 1/1/2007 | 197,012 | 147,741 | 49,271 | 253,068 |
| | Chev Silverado 4x4 Pickup, Plate:AF38834 | 1/1/2018 | 26,299 | 21,036 | 5,263 | 29,754 |
| | Chevrolet Express Cube Van 2007 | 1/1/2018 | 42,627 | 42,627 | 1 | 54,957 |
| | 2017 GMC Savana Cargo Van RWD 2500 135" | 1/1/2019 | 30,200 | 15,094 | 15,106 | 32,209 |
| | International HV607 | 1/1/2019 | 239,086 | 71,726 | 167,360 | 246,690 |
| | International 7400 2021 | 1/1/2021 | 30,036 | 3,004 | 27,032 | 30,036 |
| | Bandit Brush Chipper | 1/1/2009 | 41,649 | 41,649 | - | 51,690 |
| | Excavator - Hydraulic Thumb | 1/1/2011 | 9,680 | 9,680 | - | 11,463 |
| | Rolloff Bins x 2 | 1/1/2011 | 10,369 | 10,369 | - | 12,279 |
| | John Deere Grader 2012 | 1/1/2013 | 324,163 | 291,724 | 32,439 | 372,800 |
| | Roller / Gravel Packer 8' drum | 1/1/2013 | 18,317 | 16,484 | 1,833 | 21,06 |
| | Gravel packer / roller | 1/1/2014 | 13,127 | 10,500 | 2,627 | 14,85 |
| | John Deere Grader 870 GP2014 | 1/1/2014 | 361,779 | 218,495 | 143,284 | 409,31 |
| Vehicle | Volvo Motor Grader G976 2015 | 1/1/2017 | 313,962 | 156,922 | 157,040 | 334,84 |
| Unlicensed | New Holland 4WD Tractor T6050 | 1/1/2009 | 97,526 | 97,526 | - | 121,04 |
| | Trackless - attachments 2006 | 1/1/2007 | 11,192 | 11,192 | - | 14,37 |
| | Sidewalk Machine Trackless | 1/1/2016 | 121,603 | 48,625 | 72,978 | 132,730 |
| | Caterpillar 314CR Excavator 2005 | 1/1/2005 | 170,975 | 145,316 | 25,659 | 226,93 |
| | Thompson Steamer | 1/1/2009 | 12,237 | 7,953 | 4,284 | 15,18 |
| | Case Wheel Loader 621FXT | 1/1/2016 | 209,269 | 62,753 | 146,516 | 228,428 |
| | Road Shoulder Reclaimer | 1/1/2018 | 15,244 | 6,098 | 9,146 | 15,966 |
| | Roadside Flail Mower KT0214 KUHN | 1/1/2020 | 19,992 | 3,998 | 15,994 | 20,20 |
| Roads Trailer | Float King Tandem 24 ton 2007 | 1/1/2006 | 26,082 | 26,082 | - | 33,62 |
| | | | 3,147,633 | 2,240,832 | 906,801 | 3,686,52 |

Fire Vehicles

| Vehicle Type | Name | In- Service Date | Historical Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|-----------------------------|--------------------------------------------------------------|------------------------|--------------------|-----------------------------|-------------------|---------------------|
| Fire Vehicle Licensed | Freightliner Dependable Pumper, P12, 750 Gallon Water Tank | 1/1/2003 | 288,238 | 273,816 | 14,422 | 394,594 |
| Licenseu | Freightliner Dependable Pumper, P52, 750 Gallon Water Tank | 1/1/2000 | 284,721 | 269,304 | 15,417 | 400,049 |
| | Freightliner C-Max Rescue Van, R55 | 1/1/1994 | 187,769 | 187,769 | 0 | 307,800 |
| | Freightliner Metalfab Tanker, T17, 2300 Gallon Water Tank | 1/1/1994 | 225,323 | 225,323 | 0 | 369,360 |
| | GMC Sentinal Rescue Van, R15 | 1/1/1992 | 184,617 | 184,617 | 0 | 312,171 |
| | International Dependable Tanker, T57, 1500 Gallon Water Tank | 1/1/1990 | 210,770 | 210,770 | 0 | 380,860 |
| | Freightliner C-Max Tanker, T17, 1500 Gallon Water Tank | 1/1/2008 | 369,126 | 258,350 | 110,776 | 464,320 |
| | Spartan Dependable Pumper Rescue Truck, P51 | 1/1/2012 | 422,317 | 189,536 | 232,781 | 472,750 |
| | Fire Pumper - Dependable P11 | 1/1/2019 | 599,436 | 89,915 | 509,521 | 618,000 |
| | FGFT Model M2112 Red | 1/1/2021 | 424,243 | 21,212 | 403,031 | 424,243 |
| | Dependable Heavy duty mini Rescue Station 10 | 1/1/2021 | 204,620 | 10,231 | 194,389 | 204,620 |
| | Dependable Heavy duty mini Rescue Station 50 | 1/1/2021 | 204,620 | 10,231 | 194,389 | 204,620 |
| Fire Trailer | Moritz 6x12 Tilt Black 2015 | 1/1/2015 | 4,216 | 1,967 | 2,249 | 4,694 |
| Fire Vehicle | | | | | | |
| Unlicensed | Kubota ATV TV-X1120D | 1/1/2015 | 21,524 | 15,064 | 6,460 | 23,963 |
| | | | 3,631,540 | 1,948,105 | 1,683,435 | 4,582,044 |

Building Vehicles

| Vehicle Type | Name | In- Service Date | Historical Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|---------------------------------|-------------------------------------------------|------------------------|--------------------|-----------------------------|----------------------|---------------------|
| Building Vehicle Licensed | Ford F150 Pickup 2013 Red Crew Cab, Unit:101 | 1/1/2018 | 36,185 | 36,185 | 0 | 41,856 |

Parks Vehicles

| Vehicle Type | Name | In- Service Date | Historical Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|---------------------------------------|---------------------------|------------------------|--------------------|-----------------------------|----------------------|---------------------|
| Parks | Dodge Ram Pickup 1500 RTR | 1/1/2016 | 29,444 | 17,661 | 11,783 | 32,140 |
| Vehicle Licensed | GMC Sierra Pick up 2015 | 1/1/2018 | 51,359 | 35,944 | 15,415 | 57,180 |
| · · · · · · · · · · · · · · · · · · · | | | 80,803 | 53,605 | 27,198 | 89,320 |

Appendix B – Town of Erin Machinery & Equipment

Administration

| Category | Name | In- Service Date | Historical Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|--------------------------|---------------------------------------|------------------------|--------------------|-----------------------------|----------------------|---------------------|
| Computer Software | Keystone Software 2016 | 1/1/2016 | 41,343 | 41,343 | 0 | 45,128 |
| | Computer Upgrades Pooled 2010 | 1/1/2010 | 49,568 | 49,568 | 0 | 60,390 |
| | Computer Upgrades Pooled 2011 | 1/1/2011 | 19,714 | 19,714 | 0 | 23,346 |
| | Desktops x 6 2012 | 1/1/2012 | 5,465 | 5,465 | 0 | 6,321 |
| | Colour Digital Copier | 1/1/2012 | 10,116 | 10,116 | 0 | 11,701 |
| | Desktops x 6 2013 | 1/1/2013 | 8,516 | 8,510 | 6 | 9,793 |
| | Servers x 3, rack mounted | 1/1/2013 | 24,416 | 24,400 | 17 | 28,080 |
| | Network Server upgrade | 1/1/2014 | 7,408 | 7,408 | 0 | 8,381 |
| Computers & Equipment | Audio-Visual System- Council Chambers | 1/1/2014 | 14,926 | 14,926 | 0 | 16,887 |
| | Storage Area Network SAN | 1/1/2016 | 35,707 | 35,707 | 0 | 38,976 |
| | Hardware Upgrades | 1/1/2017 | 20,672 | 20,672 | 0 | 22,047 |
| | Security Cameras, Access Control | 1/1/2017 | 15,884 | 15,884 | 0 | 16,941 |
| | LED Entrance Sign | 1/1/2017 | 25,756 | 25,756 | 0 | 27,469 |
| | Telephone system | 1/1/2018 | 25,169 | 20,135 | 5,034 | 26,360 |
| | Municipal building Security | 1/1/2018 | 20,098 | 16,078 | 4,020 | 21,049 |
| | Server Room A/C | 1/1/2018 | 2,193 | 1,754 | 439 | 2,296 |
| | | | 326,951 | 317,437 | 9,514 | 365,165 |

Building

| Category | Name | In- Service Date | Historical Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|-----------------------|----------------------------|------------------------|--------------------|-----------------------------|----------------------|---------------------|
| Computer Software | Keystone Software 2010 | 1/1/2010 | 18,061 | 18,061 | 0 | 22,004 |
| Communitaria & Farrin | Monitor, Adapter, Keystone | | | | | |
| Computers & Equip. | Upgrade | 1/1/2011 | 1,033 | 1,033 | 0 | 1,223 |
| | | | 19,094 | 19,094 | 0 | 23,227 |

Fire

| Category | Name | In-Service Date | Historical Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|----------------|----------------------------------|-----------------|-----------------|--------------------------|----------------|------------------|
| | Fire Pagers | 1/1/2008 | 1,117 | 1,117 | 0 | 1,405 |
| | Fire Pagers | 1/1/2007 | 18,426 | 18,426 | 0 | 23,669 |
| | Fire Pagers | 1/1/2006 | 16,654 | 16,654 | 0 | 21,471 |
| | Fire Pagers | 1/1/2011 | 4,771 | 4,771 | 0 | 5,649 |
| | Radio System Mobile XPR5550 | 1/1/2016 | 84,568 | 84,568 | 0 | 92,310 |
| | Thermal Cameras | 1/1/2009 | 21,051 | 21,051 | 0 | 26,127 |
| | Defibrillators (AED) | 1/1/2004 | 18,883 | 18,883 | 0 | 25,475 |
| | Hurst Hydraulic Pump | 1/1/2015 | 11,189 | 7,830 | 3,358 | 12,456 |
| | Protective Equipment x 7 | 1/1/2008 | 14,547 | 14,542 | 5 | 18,299 |
| | Protective Equipment x 7 | 1/1/2007 | 14,301 | 14,301 | 0 | 18,371 |
| | Protective Equipment x 7 | 1/1/2006 | 14,033 | 14,033 | 0 | 18,092 |
| | Protective Equipment x 7 | 1/1/2005 | 13,809 | 13,809 | 0 | 18,329 |
| | Protective Equipment x 15 | 1/1/2004 | 29,048 | 29,048 | 0 | 39,190 |
| | Protective Equipment x 20 | 1/1/2003 | 38,120 | 38,120 | 0 | 52,186 |
| | Breathing Apparatus SCBA | 1/1/2016 | 266,793 | 106,681 | 160,112 | 291,218 |
| Fire Equipment | Command Lights | 1/1/2006 | 28,700 | 22,958 | 5,742 | 37,002 |
| The Equipment | Extrication Equipment - H. Pumps | 1/1/2005 | 56,673 | 48,168 | 8,505 | 75,222 |
| | Extrication Equipment - Jaws | 1/1/2003 | 25,920 | 24,623 | 1,297 | 35,484 |
| | Extrication Equipment - Cutters | 1/1/2003 | 26,568 | 25,239 | 1,329 | 36,371 |
| | Extrication Equipment - Rams | 1/1/2003 | 25,272 | 24,008 | 1,264 | 34,597 |
| | Portable Pumps | 1/1/2008 | 15,500 | 10,848 | 4,652 | 19,497 |
| | Portable Pumps | 1/1/2004 | 4,750 | 4,275 | 475 | 6,408 |
| | Portable Pumps | 1/1/1995 | 15,000 | 15,000 | 0 | 24,360 |
| | Portable Pumps | 1/1/1985 | 7,500 | 7,500 | 0 | 17,236 |
| | Generators | 1/1/2008 | 5,335 | 3,734 | 1,601 | 6,711 |
| | Generators | 1/1/1995 | 12,725 | 12,725 | 0 | 20,665 |
| | Generators | 1/1/1985 | 1,700 | 1,700 | 0 | 3,907 |
| | SCBA Compressors | 1/1/2009 | 48,886 | 31,771 | 17,116 | 60,673 |
| | Emergency Plan - Generators | 1/1/2009 | 86,352 | 56,119 | 30,233 | 107,172 |
| | Bunker Gear Racks | 1/1/2012 | 15,749 | 7,872 | 7,876 | 18,217 |
| | Generator 50kw Diesel | 1/1/2016 | 37,763 | 11,324 | 26,439 | 41,220 |
| | Radio System Multi Site | 1/1/2018 | 89,153 | 71,322 | 17,831 | 93,369 |

| Extrication Equipment - Cutters | 1/1/2018 | 43,782 | 7,816 | 35,966 | 45,853 |
|---------------------------------|----------|-----------|---------|---------|-----------|
| Exhaust System - Portable | 1/1/2019 | 86,347 | 12,952 | 73,395 | 89,093 |
| Hose Cache/Suction X 32 | 1/1/2019 | 20,703 | 3,105 | 17,597 | 21,361 |
| Thermal Imaging Camera | 1/1/2020 | 13,235 | 2,647 | 10,588 | 13,379 |
| Dress Uniforms x 10 | 1/1/2020 | 4,712 | 942 | 3,769 | 4,763 |
| Dress Uniforms x 10 | 1/1/2020 | 33,492 | 6,698 | 26,793 | 33,856 |
| Hose Cache | 1/2/2021 | 20,000 | 1,000 | 19,000 | 20,000 |
| | | 1,293,125 | 818,181 | 474,944 | 1,530,663 |

Parks and Recreation

| Category | Name | In- Service Date | Historical Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|--------------------|----------------------------------------------------------------------|------------------------|--------------------|-----------------------------|----------------------|---------------------|
| | ECC - Score Clock | 1/1/2007 | 10,704 | 10,704 | 0 | 13,749 |
| | HCC - Score Clock | 1/1/1999 | 8,791 | 8,791 | 0 | 13,476 |
| | Centre 2000 - Projector | 1/1/2002 | 62,832 | 62,832 | 0 | 89,714 |
| | Tractor Mower John Deere 1445 Series 2 4WD with 72" Front Mower | 1/1/2012 | 14,990 | 14,990 | 0 | 17,339 |
| | New Holland Compact Tractor TZ18 + 60" Mower Deck MC60 + Loader 10LA | 1/1/2007 | 15,984 | 15,984 | 0 | 20,532 |
| | HCC - Olympia | 1/1/2004 | 71,181 | 71,181 | 0 | 96,032 |
| | Kubota Tractor F3680 + Mower Deck, rear discharge RCK72RF36 | 1/1/2008 | 19,494 | 18,194 | 1,300 | 24,521 |
| Parks Equipment | ECC - Zamboni | 1/1/2009 | 83,681 | 72,518 | 11,163 | 103,856 |
| Lquipinent | ECC - Replace 50 HP Compressor | 1/1/2010 | 57,052 | 34,225 | 22,827 | 69,509 |
| | Desuperheater - Burnside Report | 1/1/2017 | 27,915 | 6,975 | 20,940 | 29,772 |
| | Replace 30hp Compressor #2 ECC | 1/1/2017 | 32,071 | 8,013 | 24,058 | 34,204 |
| | ECC Security Cameras | 1/1/2019 | 42,456 | 25,474 | 16,982 | 43,806 |
| | McMillan Park Picnic Tables | 1/1/2019 | 3,745 | 2,247 | 1,498 | 3,864 |
| | ECC Brine Pump & Motor | 1/1/2020 | 17,255 | 1,726 | 15,530 | 17,443 |
| | Fusion Software 2020 | 1/1/2020 | 38,315 | 13,580 | 24,735 | 38,732 |
| | ECC - Zamboni | 1/1/2021 | 96,879 | 6,459 | 90,420 | 96,879 |
| | HCC - Olympia | 1/1/2021 | 87,503 | 5,834 | 81,670 | 87,503 |
| | | | 690,848 | 379,725 | 311,124 | 800,931 |

Roads

| Category | Name | In- Service Date | Historical Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|-----------|------------------------|------------------------|--------------------|-----------------------------|----------------------|---------------------|
| Roads | Fuel Management System | 1/1/2010 | 22,983 | 22,983 | 0 | 28,001 |
| Equipment | Snow Plough blade 8.5 | 1/1/2018 | 9,871 | 5,921 | 3,950 | 10,774 |
| | | | 32,853 | 28,903 | 3,950 | 38,775 |

Appendix C – Town of Erin Building & Facilities

Erin Community Centre

| | In-Service Date | Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|---------------------------------------|--------------------|--------------|-----------------------------|-------------------|---------------------|
| Centre 2000 - Expansion | 1/1/2000 | 2,163,342.34 | 1,189,686.85 | 973,655.49 | 3,238,050.00 |
| Centre 2000 Community Centre | 1/1/1975 | 652,655.81 | 652,655.81 | 0.00 | 3,323,787.00 |
| Centre 2000 - Arena | 1/1/1975 | 957,985.71 | 957,985.71 | 0.00 | 4,796,870.00 |
| Centre 2000 - Arena expansion project | 1/1/2011 | 1,215,097.28 | 334,060.39 | 881,036.89 | 1,438,931.00 |
| Sewage Flow Meter | 1/1/2012 | 21,170.00 | 10,582.41 | 10,587.59 | 24,488.00 |
| ECC - Rooftop HVAC Units | 1/1/2017 | 23,795.00 | 5,945.54 | 17,849.46 | 25,378.00 |
| ECC - Replace Rubber Flooring | 1/1/2017 | 29,360.00 | 7,336.04 | 22,023.96 | 31,313.00 |
| ECC Carpet Theatre & Cafeteria | 1/1/2019 | 11,517.15 | 1,727.57 | 9,789.58 | 11,883.00 |
| Erin CC Water Heater | 1/1/2019 | 12,912.13 | 3,873.64 | 9,038.49 | 13,323.00 |
| Erin Community Centre | | 5,087,835.42 | 3,163,853.96 | 1,923,981.46 | 12,904,023.00 |

Hillsburgh Community Centre

| | In- Service Date | Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|----------------------------------------|------------------------|--------------|-----------------------------|-------------------|---------------------|
| Hillsburgh Community Centre | 1/1/1975 | 712,233.85 | 712,233.85 | 0.00 | 3,587,280.00 |
| HCC - ice surface floor replacement | 1/1/2000 | 198,864.96 | 198,864.96 | 0.00 | 297,657.00 |
| HCC - refrigeration system replacement | 1/1/2001 | 294,093.02 | 294,093.02 | 0.00 | 425,140.00 |
| HCC - lobby flooring | 1/1/2002 | 23,266.00 | 23,266.00 | 0.00 | 33,220.00 |
| HCC - Roof Replacement (Betterment) | 1/1/2010 | 33,990.00 | 20,390.12 | 13,599.88 | 41,411.00 |
| HCC -Lobby & Dressing Room floor | | | | | |
| Replacement | 1/1/2011 | 25,398.68 | 13,966.26 | 11,432.42 | 30,077.00 |
| HCC Dasher Board Replacement | 1/1/2015 | 130,280.62 | 45,581.17 | 84,699.45 | 145,045.00 |
| Condenser Evaporative HCC | 1/1/2016 | 49,391.50 | 14,810.88 | 34,580.62 | 53,913.00 |
| Accessibility Renovations | 1/1/2016 | 11,200.00 | 3,358.51 | 7,841.49 | 12,225.00 |
| HCC - Rooftop HVAC Unit | 1/1/2017 | 8,995.00 | 2,247.53 | 6,747.47 | 9,593.00 |
| HCC - Ice surface lighting | 1/1/2017 | 10,969.57 | 2,740.91 | 8,228.66 | 11,699.00 |
| HCC Water Heater | 1/1/2019 | 11,198.00 | 3,359.40 | 7,838.60 | 11,554.00 |
| Hillsburgh Community Centre | | 1,509,881.20 | 1,334,912.61 | 174,968.59 | 4,658,814.00 |

Ballinafad Community Centre

| | In- Service Date | Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|------------------------------------|------------------------|------------|-----------------------------|-------------------|---------------------|
| Ballinafad Community Centre | 1/1/1975 | 60,028.52 | 60,028.52 | 0.00 | 318,368.00 |
| Ballinafad Community Centre | 1/1/1987 | 139,707.35 | 122,237.29 | 17,470.06 | 294,398.00 |
| Ballinafad Community Centre - Roof | | | | | |
| Replacement | 1/1/2019 | 14,392.13 | 10,074.49 | 4,317.64 | 14,850.00 |
| Ballinafad Community Centre | | 214,128.00 | 192,340.30 | 21,787.70 | 627,616.00 |

Parks Buildings

| | In- Service Date | Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|--------------------------------|------------------------|------------|-----------------------------|-------------------|---------------------|
| Victoria Park: booth | 1/1/1975 | 24,242.40 | 24,242.40 | 0.00 | 121,388.00 |
| Barbour Field: Booth, Pavilion | 1/1/1997 | 74,665.00 | 46,660.58 | 28,004.42 | 116,507.00 |
| McMillan Park Pavilion | 1/1/2009 | 155,569.73 | 50,548.57 | 105,021.16 | 193,078.00 |
| Washrooms at Victoria Park | 1/1/2011 | 14,634.36 | 5,920.74 | 8,713.62 | 17,330.00 |
| Parl | ks Buildings | 269,111.49 | 127,372.29 | 141,739.20 | 448,303.00 |

Roads Buildings

| | In- Service Date | Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|-----------------------------------|------------------------|------------|-----------------------------|-------------------|---------------------|
| Roads Shop | 1/1/1992 | 84,893.82 | 63,665.18 | 21,228.64 | 143,548.00 |
| Roads Shop Energy Conservation | 1/1/2020 | 3,286.84 | 328.68 | 2,958.16 | 3,323.00 |
| Roads Shop Roof | 1/1/2018 | 64,138.23 | 6,413.82 | 57,724.41 | 67,172.00 |
| Sand Dome | 1/1/1983 | 249,677.05 | 159,893.38 | 89,783.67 | 535,845.00 |
| Equipment Depot | 1/1/1992 | 434,518.31 | 325,862.17 | 108,656.14 | 734,731.00 |
| Salt Storage Structure | 1/1/2017 | 29,845.63 | 3,728.41 | 26,117.22 | 31,881.00 |
| Roads Shop Vehicle Exhaust System | 1/1/2016 | 32,463.48 | 9,734.72 | 22,728.76 | 35,435.00 |
| | Roads Shop | 898,823.36 | 569,626.36 | 329,197.00 | 1,551,935.00 |

Municipal Office

| | In- Service Date | Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|-------------------------------------|------------------------|--------------|-----------------------------|-------------------|---------------------|
| Municipal Office | 1/1/1994 | 508,016.52 | 350,657.17 | 157,359.35 | 837,721.00 |
| Municipal Office - Basement Offices | 1/1/1999 | 36,680.99 | 21,089.04 | 15,591.95 | 56,231.00 |
| Municipal Office Renovations | 1/1/2018 | 207,889.87 | 11,474.50 | 196,415.37 | 23,099.00 |
| Municipal Office - Roof Replacement | 1/1/2019 | 22,387.21 | 7,835.52 | 14,551.69 | 351,418.00 |
| Municipal Office Elevator | 1/1/2019 | 340,585.44 | 25,543.91 | 315,041.53 | 155,891.00 |
| | Municipal Office | 1,115,560.03 | 416,600.14 | 698,959.89 | 1,424,360.00 |

Hillsburgh Fire Hall

| | In- Service Cost Date | | Accumulated Amortization | Net Book Value | Replacement Cost |
|----------------------------|-----------------------------|--------------|-----------------------------|-------------------|---------------------|
| Hillsburgh Fire Station 50 | 1/1/2014 | 2,511,141.95 | 502,037.42 | 2,009,104.53 | 2,841,073.00 |
| Rooftop Solar MicroFit | 1/1/2015 | 26,966.40 | 9,434.71 | 17,531.69 | 30,022.00 |
| Hillsburgh F | ire Station | 2,538,108.35 | 511,472.13 | 2,026,636.22 | 2,871,095.00 |

Erin Fire Hall

| | In- Service Date | Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|--------------------------------------------------|------------------------|------------|-----------------------------|-------------------|---------------------|
| Erin Fire Station 10 | 1/1/1985 | 286,293.15 | 264,810.67 | 21,482.48 | 661,612.00 |
| Station 10 Energy Conservation | 1/1/1920 | 7,530.24 | 753.02 | 6,777.22 | 7,612.00 |
| Erin Fire Station 10 - Metal Roof Replacement on | | | | | |
| Shed | 7/1/2019 | 5,058.49 | 252.92 | 4,805.57 | 5,084.00 |
| Erin Fire Station | | 298,881.88 | 265,816.61 | 33,065.27 | 674,308.00 |

Appendix D – Town of Erin Bridge & Culvert 10-Year Needs

| 2021 OSIM Report | | | | | | | | | | | |
|------------------|--------------|---------------|-----------|------------|---------------|--|--|--|--|--|--|
| Nam e | Activity | Within 1 Year | 1-5 Years | 6-10 Years | 10-Year Total | | | | | | |
| Bridge 2 | Rehabilitate | 239,500 | 0 | 0 | 239,500 | | | | | | |
| Bridge 5 | Replace | 917,500 | 0 | 0 | 917,500 | | | | | | |
| Bridge 6 | Rehabilitate | 405,500 | 0 | 0 | 405,500 | | | | | | |
| Bridge 9 | Rehabilitate | 358,000 | 0 | 0 | 358,000 | | | | | | |
| Bridge 15 | Rehabilitate | 0 | 305,000 | 0 | 305,000 | | | | | | |
| Culvert 13 | Rehabilitate | 0 | 228,500 | 0 | 228,500 | | | | | | |
| Culvert 14 | Rehabilitate | 185,000 | 0 | 0 | 185,000 | | | | | | |
| Culvert 2011 | Rehabilitate | 0 | 0 | 205,000 | 205,000 | | | | | | |
| Culvert 2018 | Replace | 0 | 917,500 | | 917,500 | | | | | | |
| Culvert 2027 | Replace | 0 | 0 | 617,500 | 617,500 | | | | | | |
| Culvert 2033 | Replace | 0 | 0 | 677,500 | 677,500 | | | | | | |
| Culvert 2052 | Rehabilitate | 187,000 | 0 | 0 | 187,000 | | | | | | |
| Culvert 2053 | Replace | 0 | 857,500 | 0 | 857,500 | | | | | | |
| Culvert 2057 | Replace | 0 | 0 | 557,500 | 557,500 | | | | | | |
| Culvert 2059 | Replace | 598,500 | 0 | 0 | 598,500 | | | | | | |
| Culvert 2060 | Replace | 0 | 0 | 617,500 | 617,500 | | | | | | |
| Culvert 2066 | Rehabilitate | 0 | 0 | 200,000 | 200,000 | | | | | | |
| Culvert 2072 | Rehabilitate | 305,000 | 0 | 0 | 305,000 | | | | | | |
| Culvert 16 | Rehabilitate | 0 | 168,000 | 0 | 168,000 | | | | | | |
| Culvert 10 | Replace | 0 | 1,138,500 | 0 | 1,138,500 | | | | | | |
| | | 3,196,000 | 3,615,000 | 2,875,000 | 9,686,000 | | | | | | |

Appendix E – Town of Erin Water Assets

Water Buildings

| | In- Service Date | Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|---------------------------------------|------------------------|--------------|-----------------------------|-------------------|---------------------|
| Water Tower | 1/1/1990 | 738,005.00 | 590,361.91 | 147,643.09 | 1,333,571.00 |
| Erin Well E5 | 1/1/1983 | 54,615.00 | 53,248.69 | 1,366.31 | 138,272.00 |
| Erin Well E7 | 1/1/1986 | 534,953.00 | 481,434.82 | 53,518.18 | 1,177,065.00 |
| Erin Well E8 | 1/1/1991 | 697,230.78 | 521,454.86 | 175,775.92 | 1,144,192.00 |
| Hillsburgh Well H2 | 1/1/1988 | 640,689.00 | 544,552.76 | 96,136.24 | 1,295,306.00 |
| Hillsburgh Well H3 | 1/1/1969 | 160,338.00 | 160,338.00 | 0.00 | 1,154,100.00 |
| BelErin Well | 1/1/1995 | 83,125.00 | 56,103.93 | 27,021.07 | 134,993.00 |
| Delerin Pressure Building | 1/1/1987 | 27,852.53 | 24,369.64 | 3,482.89 | 58,692.00 |
| Frank Smedley Booster Pumping Station | 1/1/2014 | 1,069,494.83 | 213,817.63 | 855,677.20 | 1,210,012.00 |
| Glendevon High Lift Pump Replacement | 1/1/2013 | 158,323.33 | 71,225.64 | 87,097.69 | 182,078.00 |
| , | Nater Buildings | 4,164,626.47 | 2,716,907.88 | 1,447,718.59 | 7,828,281.00 |

Water Equipment

| Name | In- Service Date | Historical Cost | Accumulated Amortization | Net Book Value | Replacement Cost |
|-----------------------------------------------------------|------------------------|--------------------|-----------------------------|----------------------|---------------------|
| Radio Meter Reading Device - Neptune | 1/1/2016 | 8,597 | 8,597 | 0 | 9,384 |
| Scada System - Hillsburgh sites | 1/1/2017 | 165,723 | 41,408 | 124,315 | 176,746 |
| Water Meters x 30 | 1/1/2015 | 28,826 | 4,609 | 24,217 | 10,196 |
| Scada System - 3 Erin Village sites | 1/1/2015 | 155,848 | 54,526 | 101,321 | 173,509 |
| Data Loggers - 4 sites | 1/1/2015 | 40,501 | 14,170 | 26,331 | 45,090 |
| Generator 100kw Diesel Perkins Silent - Mobile Trailer | 1/1/2016 | 48,000 | 14,394 | 33,607 | 52,395 |
| Generator 100kw Diesel Perkins Silent | 1/1/2016 | 38,883 | 11,660 | 27,223 | 42,442 |
| Fire Hydrants x 2 | 1/1/2016 | 45,171 | 7,205 | 37,966 | 20,891 |
| Water Meters x 36 | 1/1/2016 | 12,269 | 3,644 | 8,626 | 13,392 |
| Well #2 Retrofit Control Panel | 1/1/2017 | 1,684 | 421 | 1,263 | 1,796 |
| Generator Upgrade Well #8 | 1/1/2018 | 29,655 | 5,931 | 23,724 | 31,058 |
| Generator Upgrade Hillsburgh Heights | 1/1/2018 | 27,279 | 5,456 | 21,823 | 28,569 |
| Security Cameras | 1/1/2018 | 4,721 | 3,777 | 944 | 4,944 |
| Chlorine CL2 Analyzers | 1/1/2020 | 30,884 | 3,088 | 27,795 | 31,219 |
| Equipment life extension | 1/2/2021 | 140,507 | 28101 | 112,406 | 140507 |
| | | 778,546 | 206,986 | 571,560 | 782,138 |

Water System

| Name | In-Service Date | Historical Cost | Accumulated Amortization | Net Book Value | Replacement Cost | | |
|---------------|--------------------|--------------------|-----------------------------|-------------------|---------------------|--|--|
| Water Mains | 1/1/1990 | 8,939,238 | 3,473,023 | 5,466,215 | 24,523,199 | | |
| Water Service | 1/1/2010 | 1,115,204 | 424,290 | 690,914 | 2,833,756 | | |
| Water System | | 10,054,442 | 3,897,313 | 6,157,129 | 27,356,955 | | |

Appendix F – Town of Erin Funding

| | | | | | | | | | WI | TH CAPTURING | CHANGES | | | | | | | | | |
|---------------------------------------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Year | 1 | 2 | <u>3</u> | 4 | <u>5</u> | <u>6</u> | Z | <u>8</u> | <u>9</u> | 10 | 11 | 12 | <u>13</u> | <u>14</u> | <u>15</u> | <u>16</u> | <u>17</u> | <u>18</u> | <u>19</u> | 20 |
| Annual Funding Deficit | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 | 1,953,161 |
| Less:Debt Payment Decrease | - | - | - | - | - | - | (167,095) | (167,008) | (167,087) | (167,299) | (166,648) | (167,126) | (331,838) | (332,597) | (332,418) | (332,379) | (432,483) | (432,483) | (432,483) | (432,483) |
| Add: OCIF Decrease | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 | 548,545 |
| Net Annual Funding Deficit | 2,501,706 | 2,501,706 | 2,501,706 | 2,501,706 | 2,501,706 | 2,501,706 | 2,334,611 | 2,334,698 | 2,334,619 | 2,334,407 | 2,335,058 | 2,334,580 | 2,169,868 | 2,169,109 | 2,169,288 | 2,169,327 | 2,069,223 | 2,069,223 | 2,069,223 | 2,069,223 |
| | | | | | | | | | TAX LEVY S | SUMMARY (CA | PTURING CHAN | GES) | | | | | | | | |
| Year | 1 | 2 | <u>3</u> | 4 | <u>5</u> | <u>6</u> | Z | <u>8</u> | <u>9</u> | <u>10</u> | 11 | 12 | <u>13</u> | <u>14</u> | <u>15</u> | <u>16</u> | <u>17</u> | <u>18</u> | <u>19</u> | 20 |
| Prior Year Levy | 7,689,659 | 7,779,872 | 7,871,144 | 7,963,487 | 8,056,912 | 8,151,434 | 8,247,065 | 8,343,818 | 8,441,706 | 8,540,742 | 8,640,940 | 8,742,313 | 8,844,876 | 8,948,642 | 9,053,626 | 9,159,841 | 9,267,302 | 9,376,024 | 9,486,021 | 9,597,309 |
| Increase (at 1.2%) | 90,213 | 91,272 | 92,342 | 93,426 | 94,522 | 95,631 | 96,753 | 97,888 | 99,036 | 100,198 | 101,374 | 102,563 | 103,766 | 104,983 | 106,215 | 107,461 | 108,722 | 109,997 | 111,288 | 112,593 |
| | 7,779,872 | 7,871,144 | 7,963,487 | 8,056,912 | 8,151,434 | 8,247,065 | 8,343,818 | 8,441,706 | 8,540,742 | 8,640,940 | 8,742,313 | 8,844,876 | 8,948,642 | 9,053,626 | 9,159,841 | 9,267,302 | 9,376,024 | 9,486,021 | 9,597,309 | 9,709,903 |
| Increase Dedicted to AMP | 90,213 | 181,485 | 273,828 | 367,253 | 461,775 | 557,406 | 654,159 | 752,047 | 851,083 | 951,281 | 1,052,654 | 1,155,217 | 1,258,983 | 1,363,967 | 1,470,182 | 1,577,643 | 1,686,365 | 1,796,362 | 1,907,650 | 2,020,244 |
| Annual Funding Deficit | (2,411,493) | (2,320,221) | (2,227,878) | (2,134,453) | (2,039,931) | (1,944,300) | (1,680,452) | (1,582,652) | (1,483,537) | (1,383,127) | (1,282,404) | (1,179,363) | (910,885) | (805,143) | (699,107) | (591,684) | (382,858) | (272,861) | (161,573) | (48,980) |
| | | | | | | | | | PER | CENTAGE FUND | DED BY YEAR | | | | | | | | | |
| Year | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | <u>8</u> | <u>9</u> | <u>10</u> | <u>11</u> | <u>12</u> | <u>13</u> | <u>14</u> | <u>15</u> | <u>16</u> | <u>17</u> | <u>18</u> | <u>19</u> | <u>20</u> |
| Annual Average Investment Required | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 | 5,161,888 |
| Funding Available | | | | | | | | | | | | | | | | | | | | |
| 2022 Funding | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 | 3,208,727 |
| OCIF Decrease | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) | (548,545) |
| Debt Payment Decrease Tax Levy Increase Required (1.2%) | 0 90,213 | 0 181,485 | 0 273,828 | 0 367,253 | 0 461,775 | 0 557,406 | 167,095 654,159 | 167,008 752,047 | 167,087 851,083 | 167,299 951,281 | 166,648 1,052,654 | 167,126 1,155,217 | 331,838 1,258,983 | 332,597 1,363,967 | 332,418 1,470,182 | 332,379 1,577,643 | 432,483 1,686,365 | 432,483 1,796,362 | 432,483 1,907,650 | 432,483 2,020,244 |
| Total Funding | 2,750,395 | 2,841,667 | 2,934,010 | 3,027,435 | 3,121,957 | 3,217,588 | 3,481,436 | 3,579,236 | 3,678,351 | 3,778,761 | 3,879,484 | 3,982,525 | 4,251,003 | 4,356,745 | 4,462,781 | 4,570,204 | 4,779,030 | 4,889,027 | 5,000,315 | 5,112,908 |