

# 2023 INFRASTRUCTURE REPORT CARD

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# Executive Summary

## Purpose

The Infrastructure Report Card is a key reporting document that is produced annually and highlights the condition of Town-owned assets. As owners of more than \$3 billion of infrastructure, the Town of Newmarket is continually focused on the cost and quality of the services the Town's infrastructure provides. The sustainability of Town infrastructure depends on effective management, maintaining a state of good repair, and ensuring the optimal use of limited funds.



Roads



Bridges



Water



Wastewater



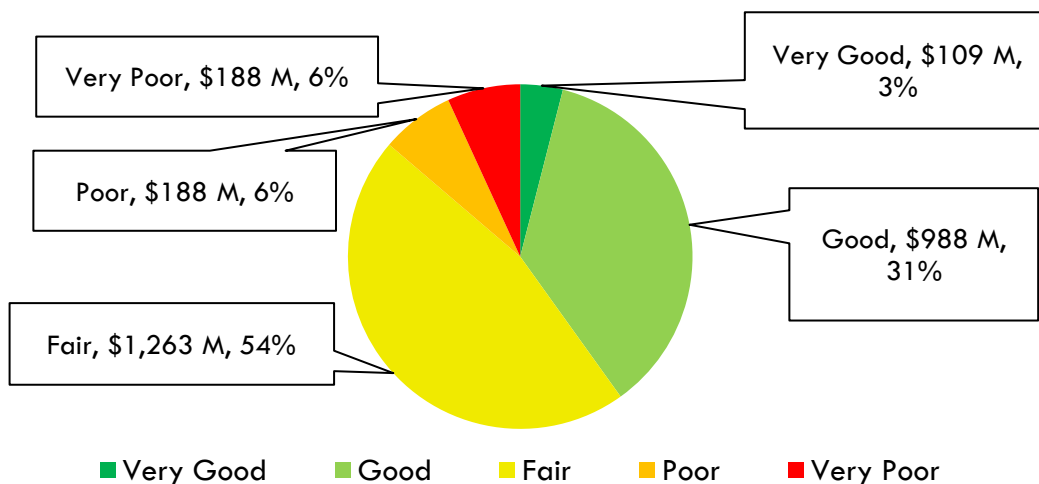
Stormwater

## What Would Our Asset Cost to Replace?

Summary of Replacement Cost	
2021 Valuation	\$2,016,658,000
Updated Cost	\$660,656,000
Growth	\$58,879,000
<b>2023 Valuation</b>	<b>\$2,736,192,000</b>

## What Conditions Are Our Assets?

Executive Summary of Conditions for Core Assets



# What Has Changed Since I Last Saw This Information?

## Infrastructure Changes Since 2021



Very Good / Good / Fair  
From 92% to 88%



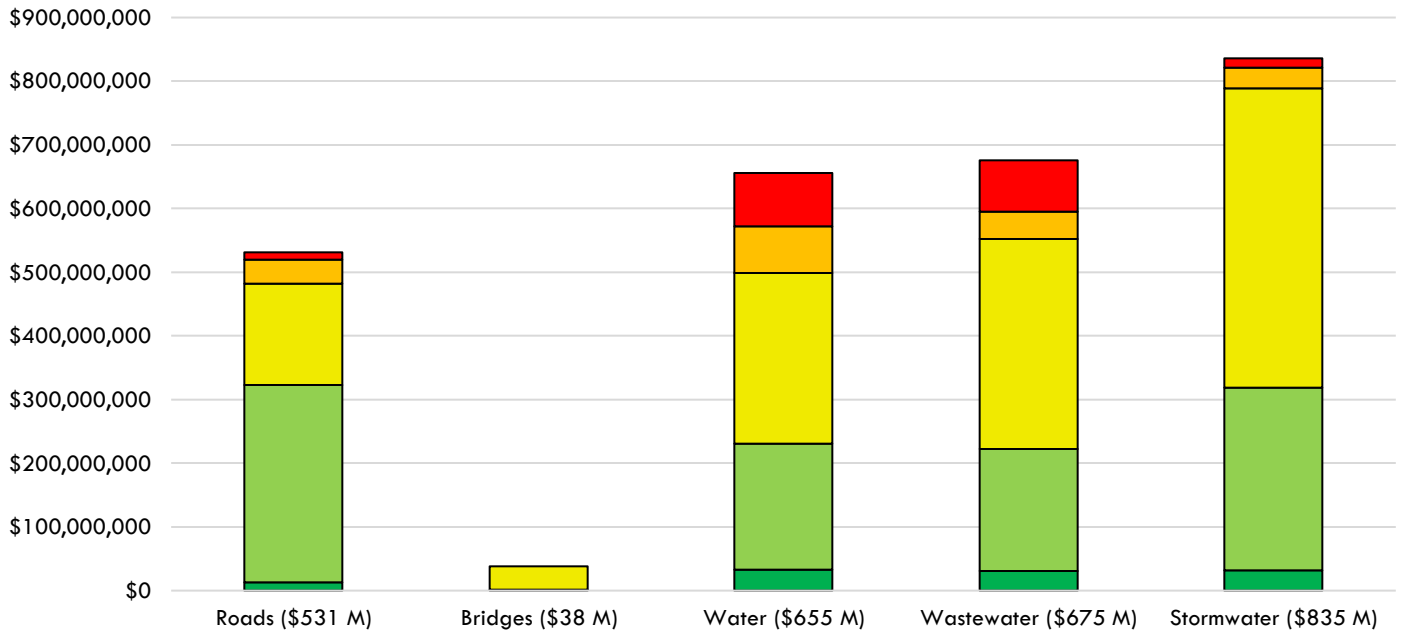
Poor / Very Poor  
From 8% to 12%

## Comparing Conditions of Core Assets from 2021 to 2023

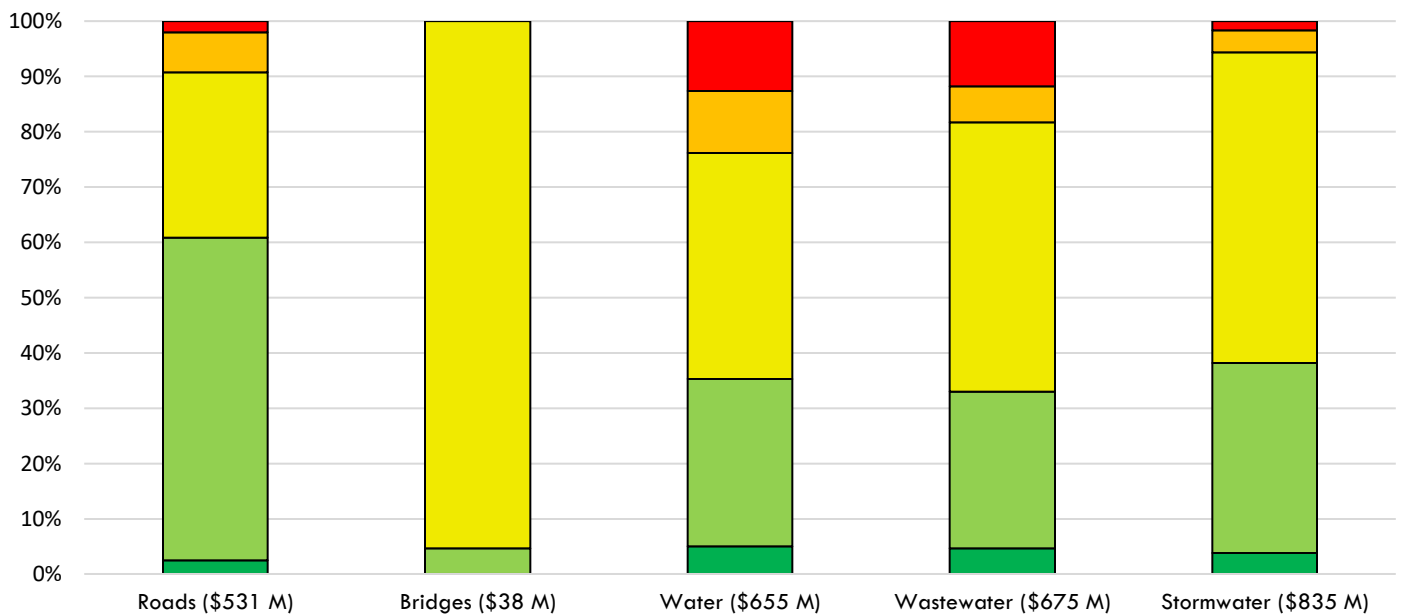


# How Do Service Areas Compare?

## Service Area Comparison (\$) of Core Asset Conditions



## Service Area Comparison (%) of Core Asset Conditions



## Does Our Budgeting and Spending Maintain Our Infrastructure?

Asset Management Plans (AMP)			
Year	Annual AMP Target	ARF Contribution	Town Capital Delivery Rate
All Core Assets			
50 Year Avg. Target 1.62%			
2021	0.51%	0.43%	0.17%
2022	0.57%	0.37%	0.48%
Tax Supported			
50 Year Avg. Target 2.12%			
2021	0.45%	0.43%	0.49%
2022	1.14%	0.20%	1.20%
Rate Supported			
50 Year Avg. Target 1.48%			
2021	0.52%	0.43%	0.08%
2022	0.42%	0.42%	0.29%



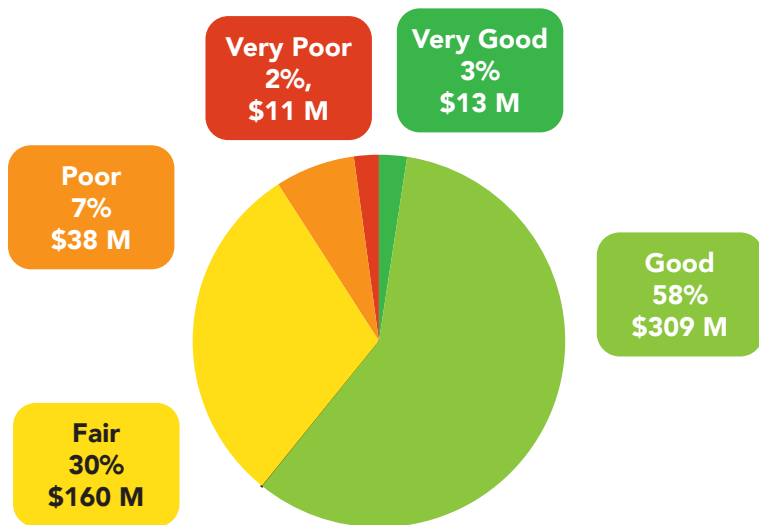
# Roads Network Infrastructure Report Card

## WHAT CONDITION ARE OUR ASSETS IN?



**AVERAGE NETWORK CONDITION:**

**GOOD**



## INFRASTRUCTURE CONDITION CHANGES SINCE 2021



Very Good/Good/Fair  
From 94% to 91%

Poor/Very Poor  
From 6% to 9%



## WHAT WOULD OUR ASSETS COST TO REPLACE?



**REPLACEMENT COST:**  
\$531 Million

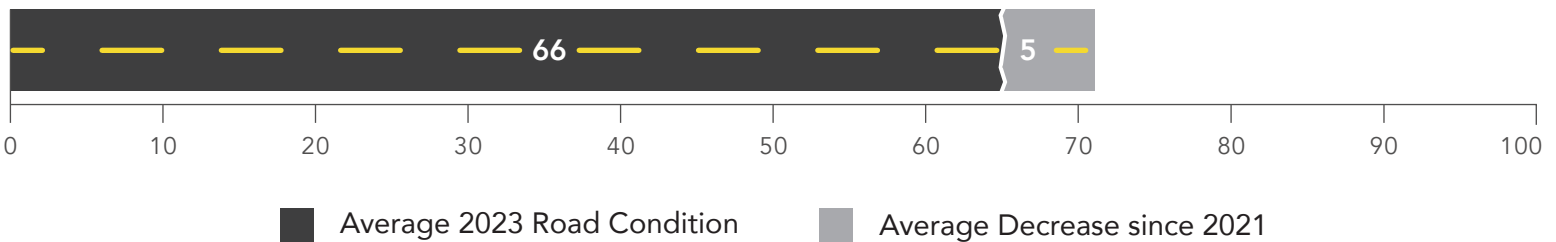
Replacement Cost Summary	
2021 Replacement Cost	\$396 M
Updated Cost	\$123 M
Growth	\$12 M
<b>Updated 2023 Replacement Cost</b>	<b>\$531 M</b>

# WHAT ARE WE SAVING & SPENDING TO RENEW OUR ASSETS?

Financial Performance in Roads Assets						
Year	5 Year Average	2018	2019	2020	2021	2022
Asset Replacement Fund Contribution	0.35%	0.66%	0.18%	0.30%	0.40%	0.18%
Capital Delivery Reinvestment	0.87%	0.99%	1.07%	0.52%	0.53%	1.25%
Asset Management Plan Annual Targets for Reporting Years					0.44%	1.12%
Asset Management Plan 2021 - 2070 Average Target to Maintain Service Levels					2.08%	

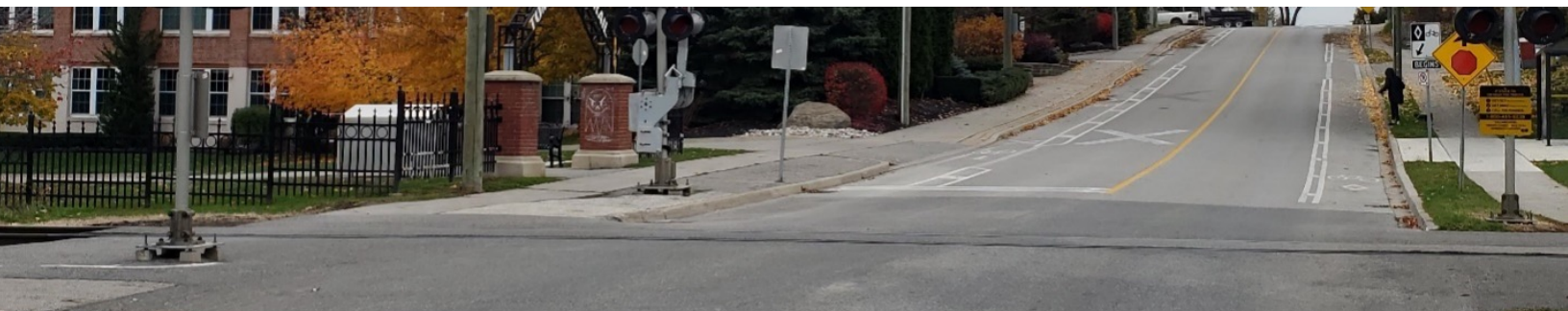
## AGE & USEFUL LIFE EXPECTANCY OF ASSETS

### Average Road Network Condition



## FUTURE OUTLOOK

The Town's reserve contributions are **below** the levels needed to maintain service levels. In the next 10 years, capital delivery requirements are expected to **steadily increase** due to aging roads. Over the next 50 years, the 2021 Asset Management Plans showed an annual required reinvestment of **2.08%** to maintain existing service levels – significantly **higher** than the current average of **0.87%**.





# Bridge Infrastructure Report Card



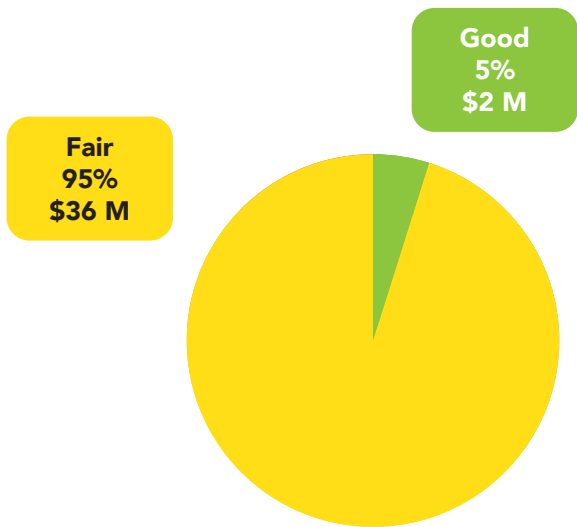
## WHAT CONDITION ARE OUR ASSETS IN?



**AVERAGE NETWORK\*  
CONDITION:**

**FAIR**

\*Bridge network no longer reports pedestrian bridges, reporting transferred to Parks.



## INFRASTRUCTURE CONDITION CHANGES SINCE 2021



**Very Good/Good/Fair**  
From 100% to 100%\*



**Poor/Very Poor**  
From 0% to 0%\*

\*On average, no change in condition category.

## WHAT WOULD OUR ASSETS COST TO REPLACE?



**REPLACEMENT  
COST:**  
\$39 Million

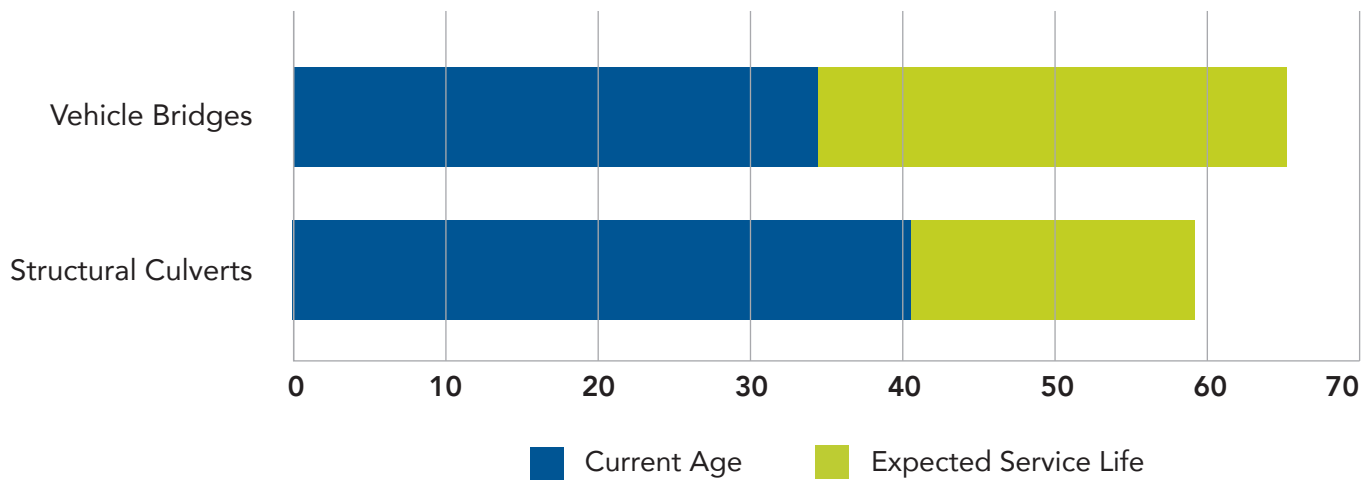
Replacement Cost Summary	
2021 Replacement Cost	\$30 M
Updated Cost	\$9 M
Growth	\$0 M
<b>Updated 2023 Replacement Cost</b>	<b>\$39 M</b>



# WHAT ARE WE SAVING & SPENDING TO RENEW OUR ASSETS?

Financial Performance in Bridge Assets						
Year	5 Year Average	2018	2019	2020	2021	2022
Asset Replacement Fund Contribution	0.51%	0.82%	0.22%	0.38%	0.76%	0.36%
Capital Delivery Reinvestment	0.88%	0.75%	2.41%	0.80%	0.00%	0.44%
Asset Management Plan Annual Targets for Reporting Years					0.56%	1.45%
Asset Management Plan 2021 - 2070 Average Target to Maintain Service Levels					2.69%	

## AGE & USEFUL LIFE EXPECTANCY OF ASSETS



## FUTURE OUTLOOK

The Town's reserve contributions are **below** the levels needed to maintain service levels. In the next 10 years, capital delivery requirements are expected to **steadily increase** due to aging assets. Over the next 50 years, the 2021 Asset Management Plans showed an annual required reinvestment of **2.69%** to maintain existing service levels – significantly higher than the current average of **0.88%**.





# Water Distribution Infrastructure Report Card

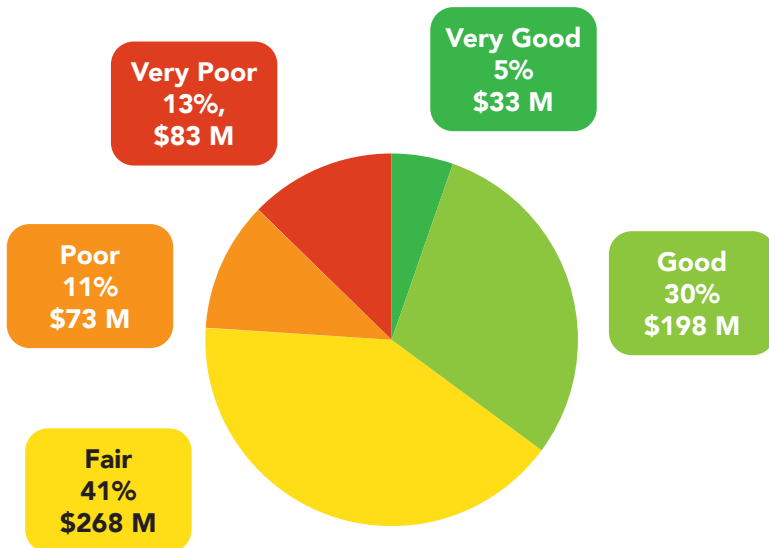


## WHAT CONDITION ARE OUR ASSETS IN?



**AVERAGE NETWORK CONDITION:**

**FAIR**



### INFRASTRUCTURE CONDITION CHANGES SINCE 2021



Very Good/Good/Fair  
From 81% to 76%

Poor/Very Poor  
From 19% to 24%



## WHAT WOULD OUR ASSETS COST TO REPLACE?



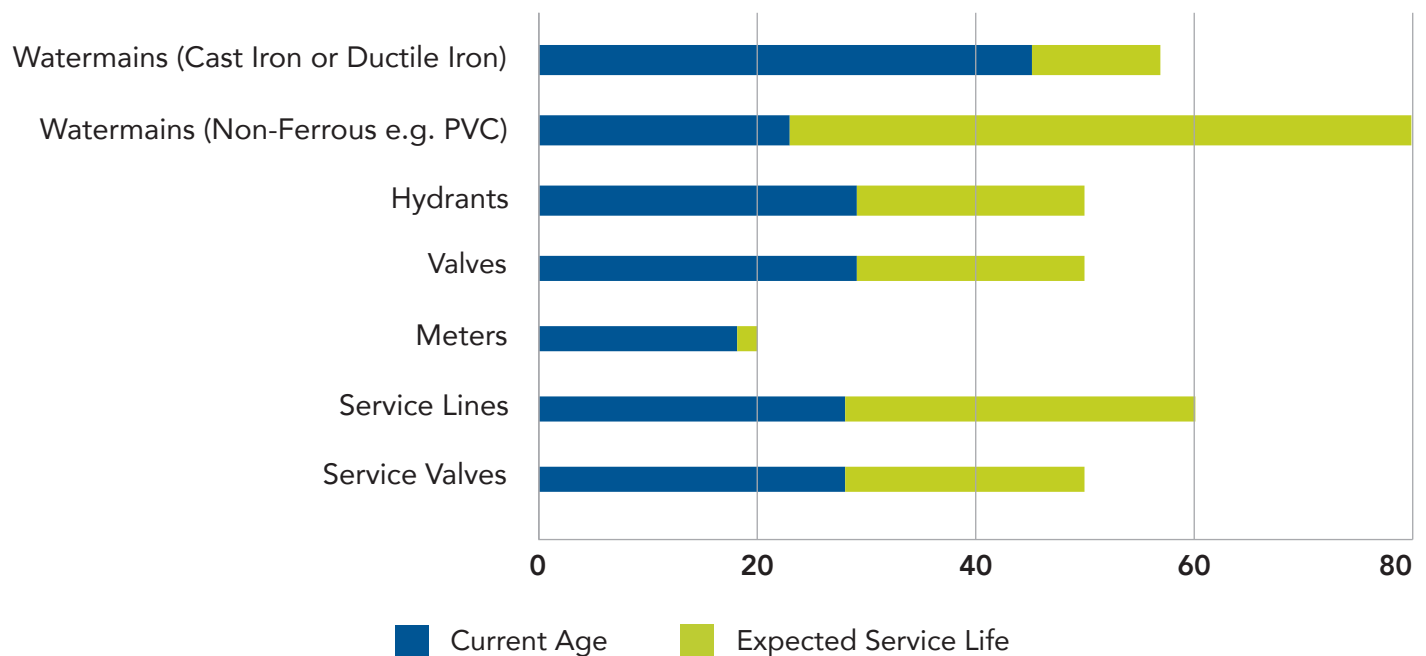
**REPLACEMENT COST:**  
\$655 Million

Replacement Cost Summary	
2021 Replacement Cost	\$487 M
Updated Cost	\$149 M
Growth	\$19 M
<b>Updated 2023 Replacement Cost</b>	<b>\$655 M</b>

# WHAT ARE WE SAVING & SPENDING TO RENEW OUR ASSETS?

Financial Performance in Water Assets						
Year	5 Year Average	2018	2019	2020	2021	2022
Asset Replacement Fund Contribution	0.58%	0.66%	0.55%	0.53%	0.53%	0.62%
Capital Delivery Reinvestment	0.36%	0.36%	0.89%	0.07%	0.21%	0.25%
Asset Management Plan Annual Targets for Reporting Years					1.11%	1.35%
Asset Management Plan 2021 - 2070 Average Target to Maintain Service Levels					1.58%	

## AGE & USEFUL LIFE EXPECTANCY OF ASSETS



## FUTURE OUTLOOK

The Town's reserve contributions are **below** the levels needed to maintain service levels. In the next 10 years, capital delivery requirements are expected to **significantly increase** due to aging cast iron watermains. Over the next 50 years, the 2021 Asset Management Plans showed an annual required reinvestment of **1.58%** to maintain existing service levels – significantly **higher** than the current average of **0.36%**.



# Wastewater Collection Infrastructure Report Card

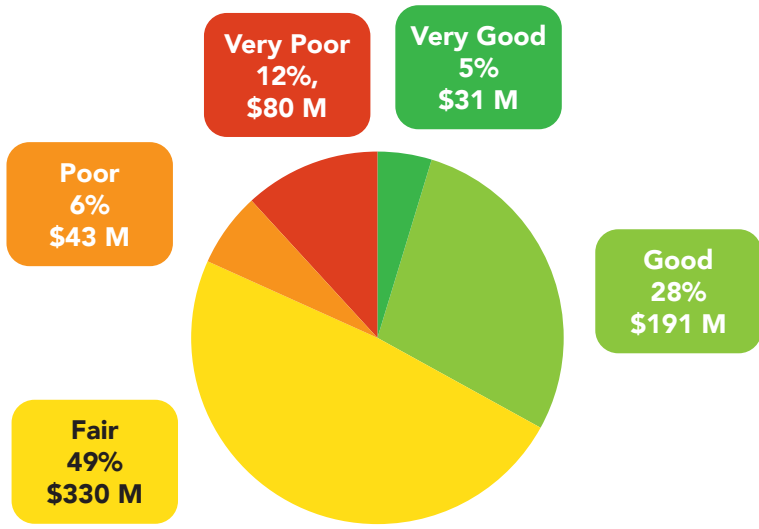


## WHAT CONDITION ARE OUR ASSETS IN?



**AVERAGE NETWORK CONDITION:**

**FAIR**



### INFRASTRUCTURE CONDITION CHANGES SINCE 2021



Very Good/Good/Fair  
From 82% to 82%



Poor/Very Poor  
From 18% to 18%

\*On average, no change in condition category.

## WHAT WOULD OUR ASSETS COST TO REPLACE?



**REPLACEMENT COST:**  
\$675 Million

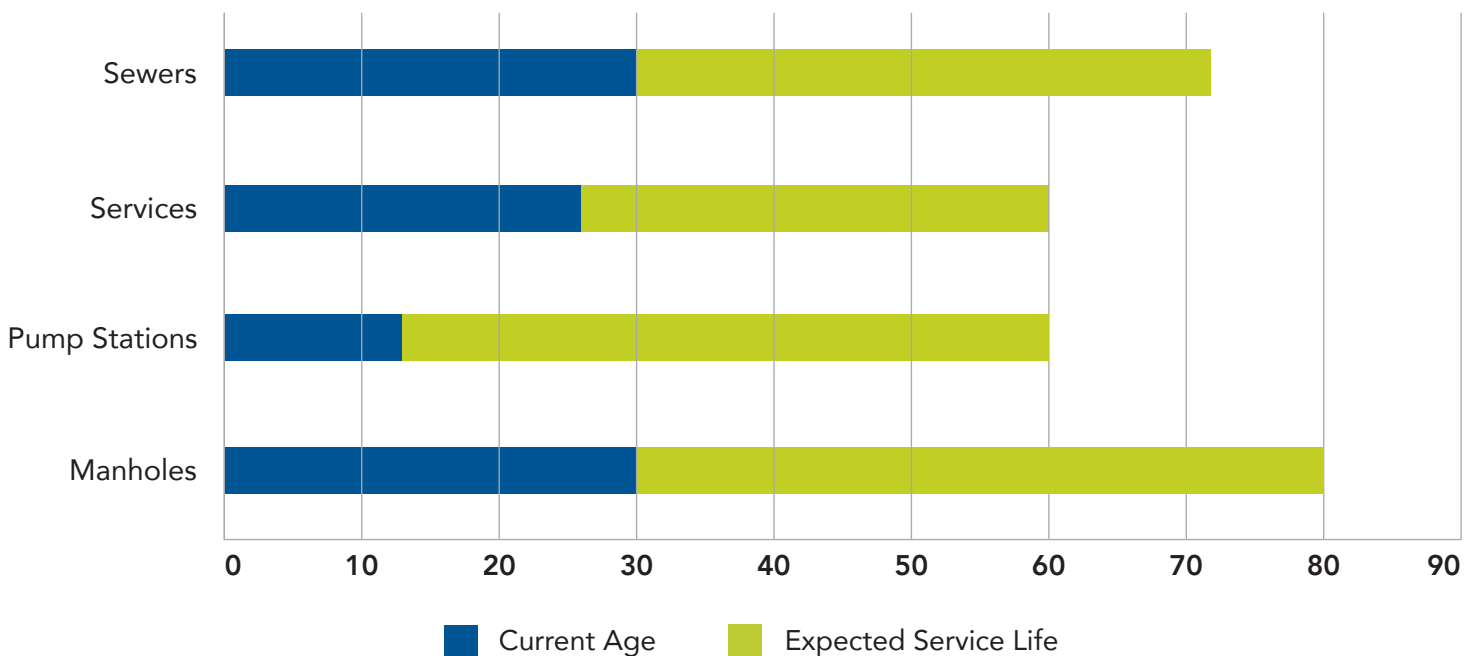
Replacement Cost Summary	
2021 Replacement Cost	\$475 M
Updated Cost	\$187 M
Growth	\$14 M
Updated 2023 Replacement Cost	\$675 M

# WHAT ARE WE SAVING & SPENDING TO RENEW OUR ASSETS?

## Financial Performance in Wastewater Assets

Year	5 Year Average	2018	2019	2020	2021	2022
Asset Replacement Fund Contribution	0.75%	0.83%	0.79%	0.86%	0.69%	0.60%
Capital Delivery Reinvestment	0.13%	0.14%	0.15%	0.00%	0.00%	0.35%
Asset Management Plan Annual Targets for Reporting Years					0.22%	0.05%
Asset Management Plan 2021 - 2070 Average Target to Maintain Service Levels					1.13%	

## AGE & USEFUL LIFE EXPECTANCY OF ASSETS



## FUTURE OUTLOOK

The Town's reserve contributions are **below** the levels needed to maintain service levels. In the next 10 years, capital delivery requirements are expected to **steadily increase** due to aging assets. Over the next 50 years, the 2021 Asset Management Plans showed an annual required reinvestment of **1.13%** to maintain existing service levels – significantly higher than the current average of **0.13%**.



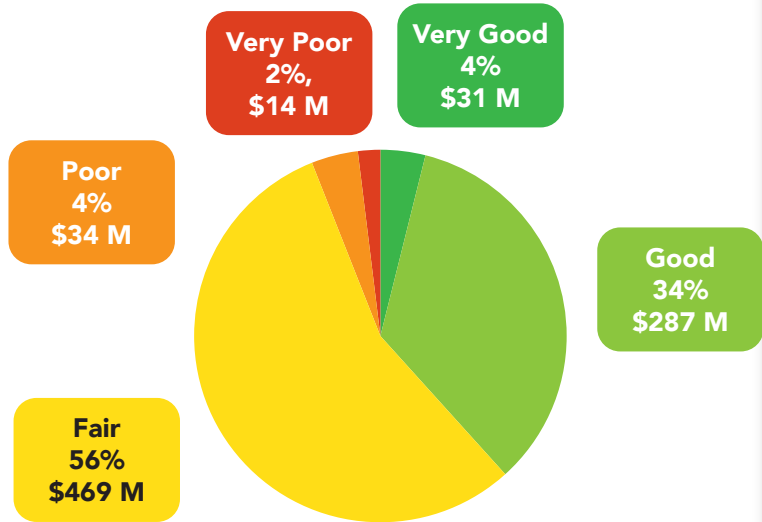
# Stormwater System Infrastructure Report Card

## WHAT CONDITION ARE OUR ASSETS IN?



**AVERAGE NETWORK CONDITION:**

**FAIR**



### INFRASTRUCTURE CONDITION CHANGES SINCE 2021



Very Good/Good/Fair  
From 97% to 94%

Poor/Very Poor  
From 3% to 6%



## WHAT WOULD OUR ASSETS COST TO REPLACE?



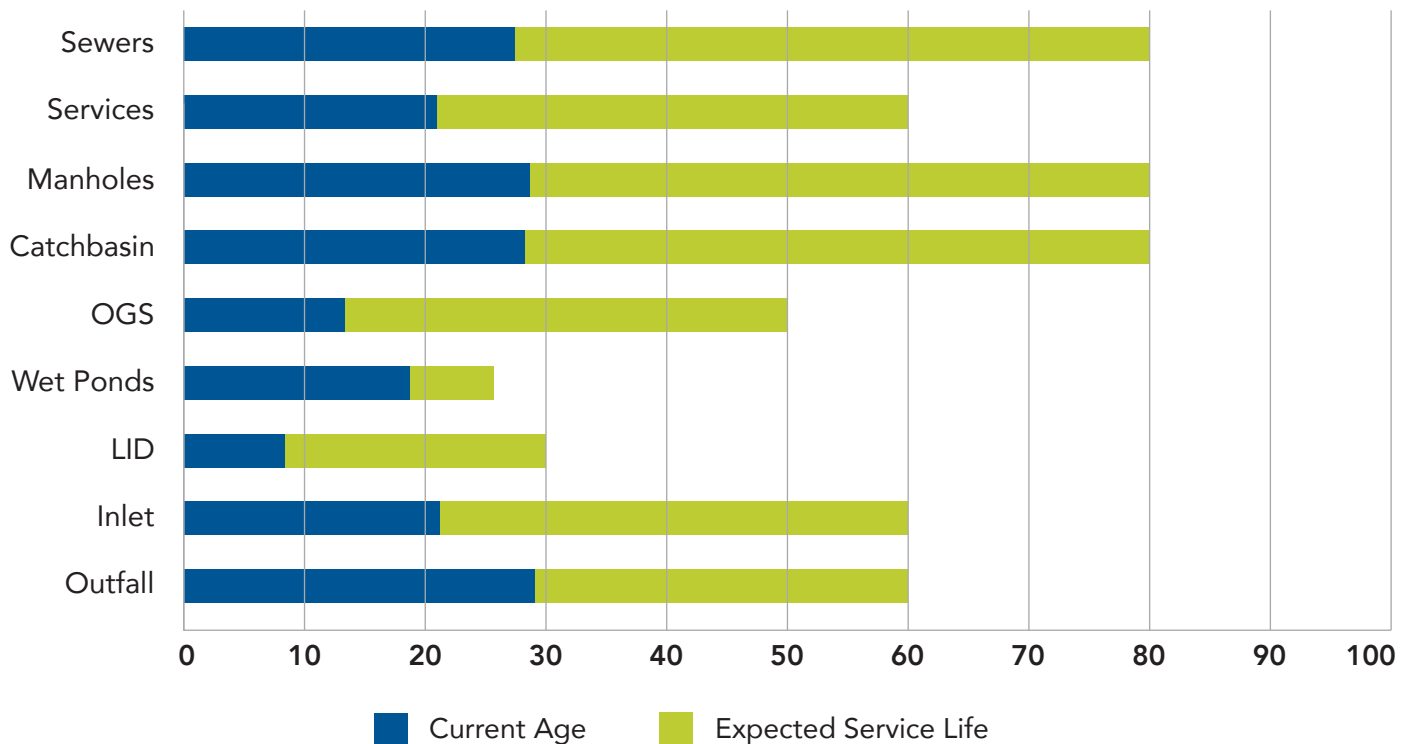
**REPLACEMENT COST:**  
\$835 Million

Replacement Cost Summary	
2021 Replacement Cost	\$629 M
Updated Cost	\$193 M
Growth	\$14 M
Updated 2023 Replacement Cost	\$835 M

# WHAT ARE WE SAVING & SPENDING TO RENEW OUR ASSETS?

Financial Performance in Stormwater Assets						
Year	5 Year Average	2018	2019	2020	2021	2022
Asset Replacement Fund Contribution	0.09%	0.05%	0.07%	0.07%	0.14%	0.12%
Capital Delivery Reinvestment	0.09%	0.01%	0.09%	0.03%	0.05%	0.28%
Asset Management Plan Annual Targets for Reporting Years					0.31%	0.00%
Asset Management Plan 2021 - 2070 Average Target to Maintain Service Levels					1.69%	

## AGE & USEFUL LIFE EXPECTANCY OF ASSETS



## FUTURE OUTLOOK

The Town's reserve contributions are **below** the levels needed to maintain service levels. In the next 10 years, capital delivery requirements are expected to **steadily increase** due to aging assets. Over the next 50 years, the 2021 Asset Management Plans showed an annual required reinvestment of **1.69%** to maintain existing service levels – significantly higher than the current average of **0.09%**.