# ENVIRONMENTAL SERVICES

2019 to 2022 Budget

Erin Mahoney | Commissioner, Environmental Services February 14, 2019

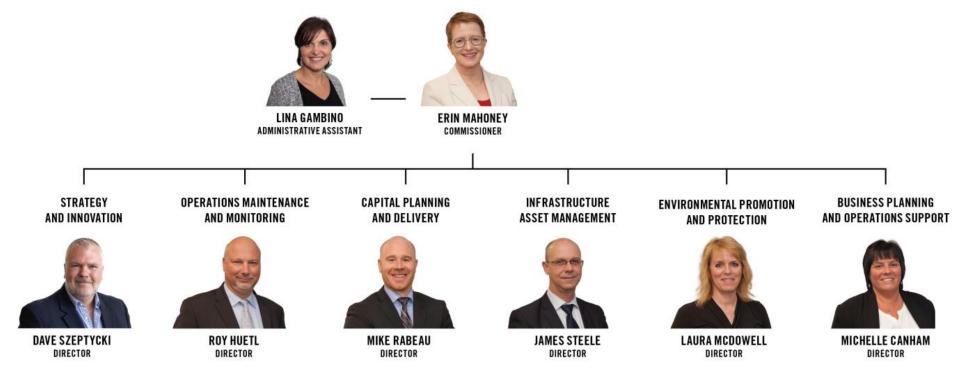
York Region



## PROVIDING EVERYDAY SERVICES THROUGH COMPLEX OPERATIONS



## DRIVING EXCELLENCE THROUGH OUR PEOPLE



## PROTECTING DRINKING WATER



### **ASSETS - \$2.1 Billion**

- 3 Treatment Plants
- 40 Groundwater Wells
- 29 Elevated Tanks
- 22 Pumping Stations
- 16 Storage Reservoirs
- 360 km of Transmission Mains



#### **ACCOMPLISHMENTS**

- Achieved some of highest water quality scores in province
- Embraced the One Water concept to improve sustainability and manage costs
- Approved water and wastewater rate structure focusing on full cost recovery pricing in 2021

#### **BUDGET ADDRESSES PRESSURES & RISKS**

Proactive asset management to manage aging and growing asset base

## COLLECTING, PUMPING AND TREATING WASTEWATER



### **ASSETS - \$4.2 Billion**

- 6 Water Resource Recovery Facilities
- 1 Treatment Lagoon
- 1 Treatment Plant
- 2 Equalization Tanks
- 8 Odour Control Facilities
- 21 Pumping Stations
- 132 km of Forcemains
- 225 km of Trunk Sewers

#### **ACCOMPLISHMENTS**

- "Infra-stretching" unlocks wastewater capacity and helps to reduce spending on new capacity-related infrastructure
- Region received \$34.8 million in Clean Water and Wastewater Funding approval for 29 projects
- Completed the Phosphorus Reduction Action Plan in 2018 to optimize Duffin Creek plant performance

### **BUDGET ADDRESSES PRESSURES & RISKS**

 \$23M included in budget for Interim Servicing Solutions while awaiting advancement of the Upper York project

## PROCESSING AND MANAGING WASTE



### **ASSETS - \$153 Million**

- 5 Household Hazardous Waste Depots
- 2 Community
   Environmental Centres
- 1 Transfer Station
- 1 Material Recovery Facility
- 1 Energy from Waste Facility

#### **ACCOMPLISHMENTS**

- Ranked number one in Ontario for waste diversion
- Diverted over 90% of household waste from landfill
- Provided "one-stop-drop" at Community Environmental Centres

#### **BUDGET ADDRESSES PRESSURES & RISKS**

- Capital upgrades to Material Recovery Facility to manage volatility of global fibre market
- Actively working to shift management of blue box program and costs from tax levy to full producer responsibility

## BUILDING, PROTECTING AND ENHANCING FORESTRY



### **ASSETS - \$488 Million**

- 65,000 Street Trees
- 2,400 hectares of York Regional Forest
- Land integral to York Regional Forest
- Forest Stewardship and Education Centre

#### **ACCOMPLISHMENTS**

- 1.5 million trees planted since 2001
- Secured 170 hectares of environmental land through partnerships
- Endorsed Green Infrastructure Asset Management Plan

#### **BUDGET ADDRESSES PRESSURES & RISKS**

- Ensure compliance with soil specs, watering and tree maintenance activities to increase street tree survival
- Proactive asset management to manage climate change impacts
- Future commissioning of Enhanced Streetscaping projects

## MANAGING CORPORATE ENERGY AND ASSETS



### **ASSETS - \$2 Million**

- 21 Solar Arrays
- 7 EV Charging Locations
- 11 Hybrid Vehicles

#### **ACCOMPLISHMENTS**

- First Regional Asset Management Plan approved by Council
- Installed and commissioned 16 new solar photovoltaic projects
- Awarded \$570K in funding for ambulance anti-idling project from Federation of Canadian Municipalities

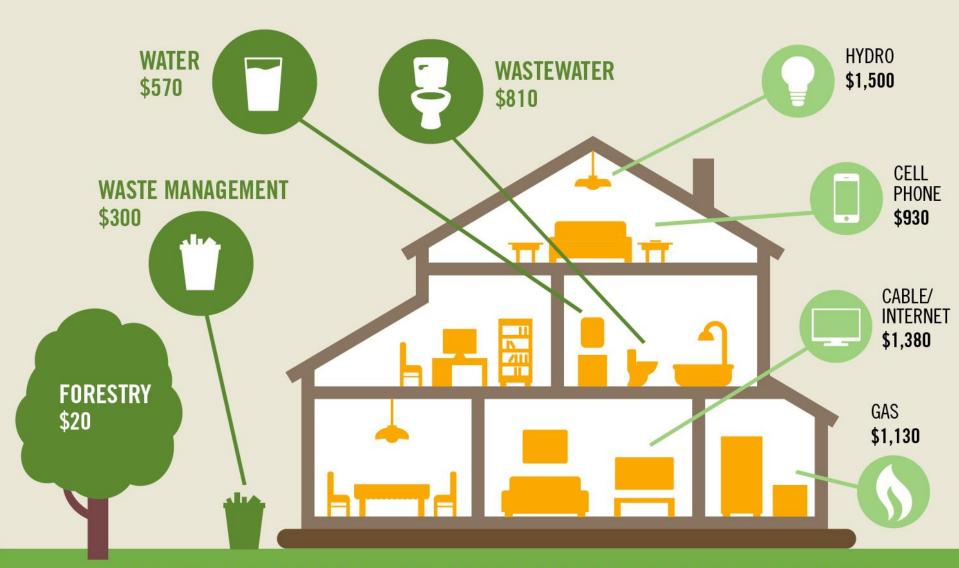
#### **BUDGET ADDRESSES PRESSURES & RISKS**

- Assess emerging technologies to reduce energy use
- Building internal staff capacity to ensure leading edge asset management

## **INVESTING FOR THE FUTURE**



## **ENSURING AFFORDABLE SERVICES**



PROVIDING QUALITY ENVIRONMENTAL SERVICES FOR LESS THAN \$5/DAY PER HOUSEHOLD

\*Annual Costs

## HOW DO WE MEASURE UP?

# WATER AND WASTEWATER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME

Peel (0.38%)

Halton (0.60%)

York Region (0.71%)

Hamilton (0.71%)

Toronto (0.72%)

Durham (0.78%)

Ottawa (0.78%)

Waterloo (0.97%)

Niagara (1.05%)

Windsor (1.64%)



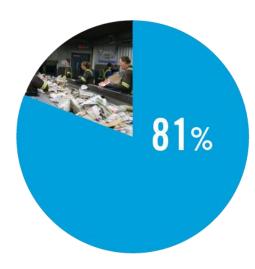
## LEVERAGING PRIVATE AND PUBLIC SECTOR EXPERTISE IN DELIVERY

### WATER/WASTEWATER



of direct costs are related to purchased water and treatment costs

### **WASTE**



of waste management costs are third party contracts

### **FORESTRY**



of direct costs are contracted services for planting, maintenance and partnerships

# **DRIVING INNOVATION**









## DRIVING BUDGET EFFICIENCIES



**CUTTING COSTS** 

2019 - \$1.2M

- \$436K in Water and Wastewater
- \$664K in Waste Management
- \$81K in Forestry



**INCREASING REVENUE** 

2019 - \$0.9M

 \$0.9M in increased revenue through increase in fees and charges at Community Environmental Centres



## **OPTIMIZING PROCESSES**

- Automated Drinking Water Compliance Reporting
- Implementation of improved asset management tools
- Gravity Sewer inspections through latest technology

## THE BUDGET SUPPORTS THE 2019 TO 2023 STRATEGIC PLAN

The focus and activities of Environmental Services align with the Community Result areas of "Sustainable Environment", "Healthy Communities" and "Good Government" in the Strategic Plan through its core services:

- Water and Wastewater
- Waste Management
- Forestry
- Energy

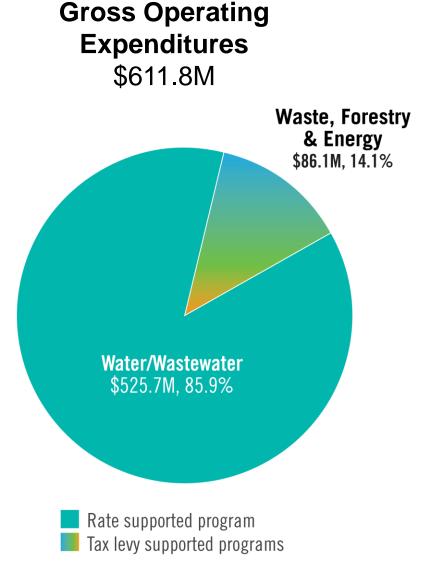




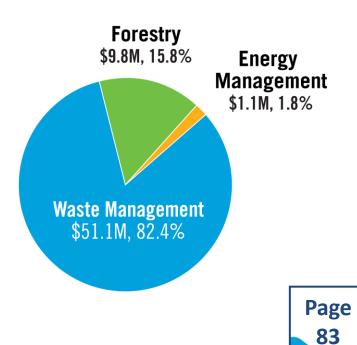


# **BUDGET OVERVIEW**

## 2019 OPERATING EXPENDITURES



### Net Tax Levy \$62.0M

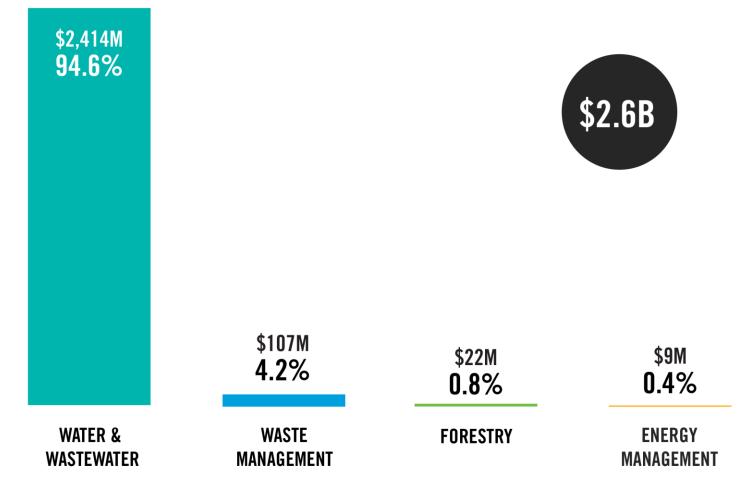


## 2019 CAPITAL BUDGET

### WATER AND WASTEWATER ACCOUNTS FOR NEARLY 95% OF CAPITAL SPENDING

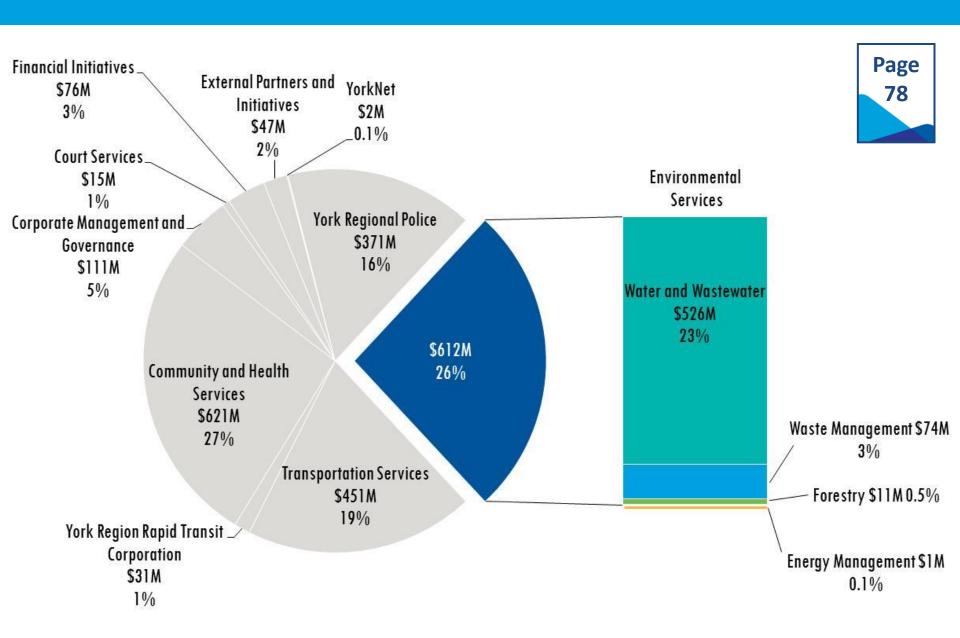
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## **10-YEAR CAPITAL PLAN**

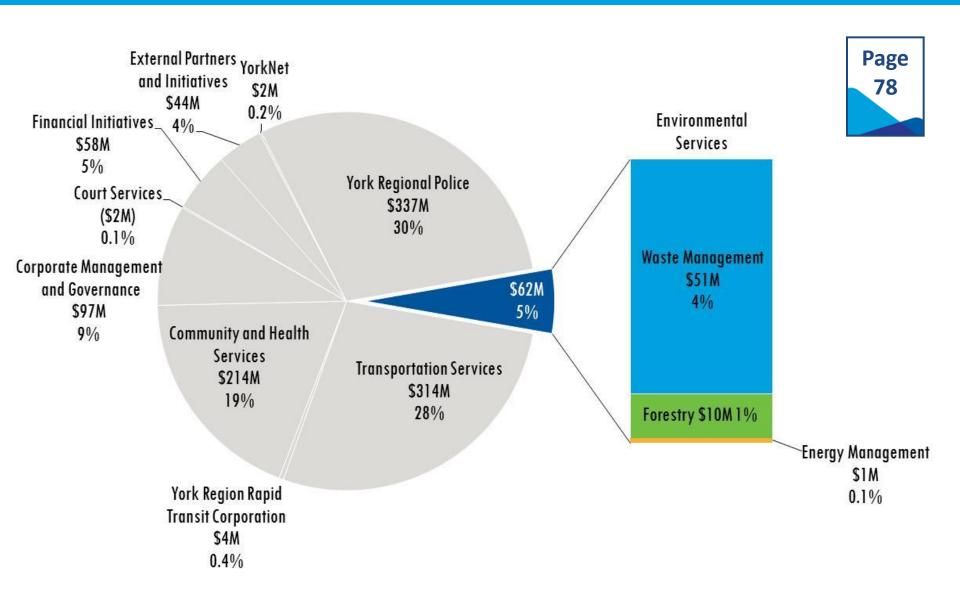


# **OPERATING BUDGET**

## DEPARTMENTAL SHARE OF GROSS EXPENDITURES



## DEPARTMENTAL SHARE OF NET TAX LEVY



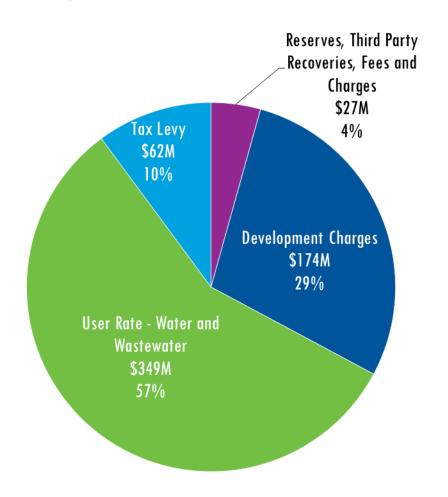
## FOUR-YEAR OPERATING BUDGET OVERVIEW

	APPROVED PROPOSED				
	2018	2019	2020	2021	2022
Gross Expenditures (\$M):					
Water and Wastewater	504.0	525.7	561.1	579.8	601.6
Waste Management	72.8	73.7	75.7	79.0	82.3
Forestry	10.3	10.9	11.6	12.2	13.6
Energy Management	1.4	1.5	1.5	1.5	1.6
	588.5	611.8	649.9	672.5	699.1
Non-Tax Revenues (\$M)	(526.1)	(549.8)	(585.3)	(603.8)	(626.9)
Net Expenditures (\$M)	62.5	62.0	64.6	68.7	72.1
Increase/(Decrease)		-0.8%	4.2%	6.3%	5.1%
FTEs - Total	412.0	428.0	444.0	459.0	474.0
- New		16.0	16.0	15.0	15.0



## THE BUDGET IS FUNDED MOSTLY BY USER RATES

Environmental Services' gross spending of \$612M in 2019 is funded through user rates, development charges, tax levy and non-tax revenues





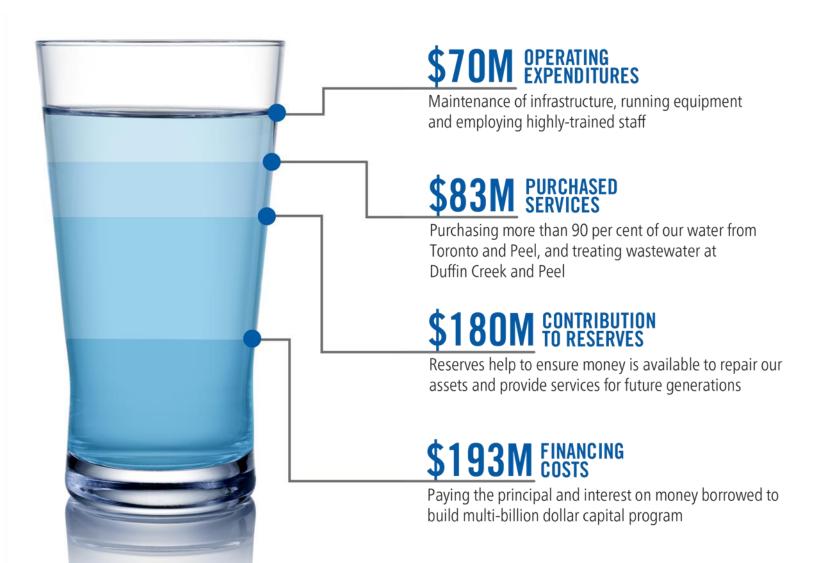
## INCREMENTAL ANNUAL BUDGET CHANGES

\$M	PROPOSED OUTLOOK			
IVI	2019	2020	2021	2022
Status Quo	(14.4)	(21.8)	(11.1)	(9.4)
Efficiencies & Program Reductions	(2.1)	-	(0.1)	_
Capital Reserves & Debt Servicing	(0.4)	0.4	(0.6)	0.1
Fiscal Strategy	14.5	21.4	13.4	9.8
Maintaining Service Levels for Growth	2.0	2.7	2.1	3.0
Enhancement and Transformation	_	_	0.2	_
Budget Change	(0.5)	2.6	4.1	3.5

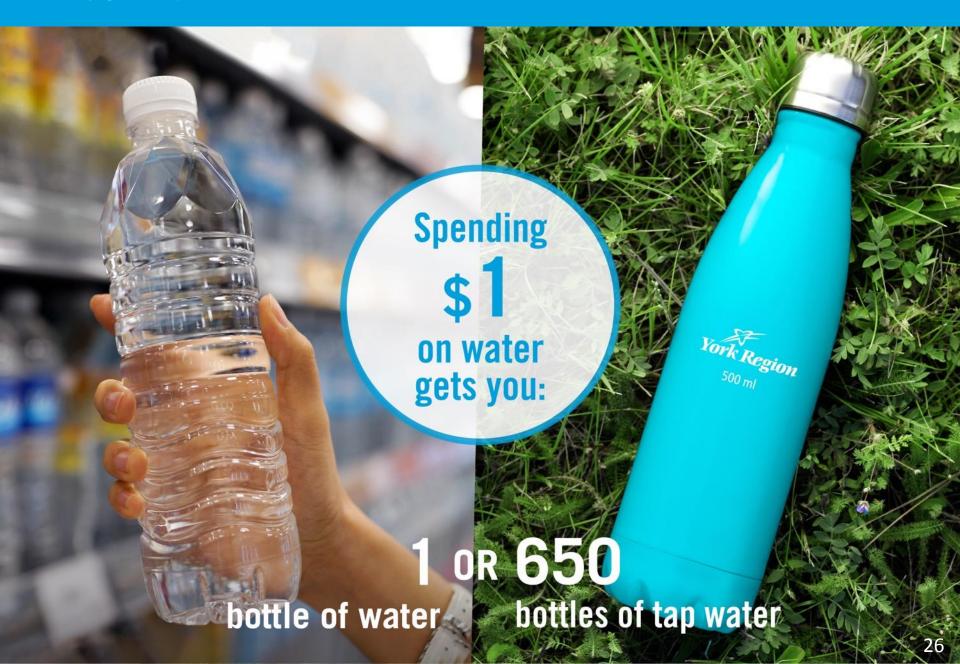


## WATER AND WASTEWATER COSTS

### WHAT DOES \$526 MILLION PAY FOR IN 2019?

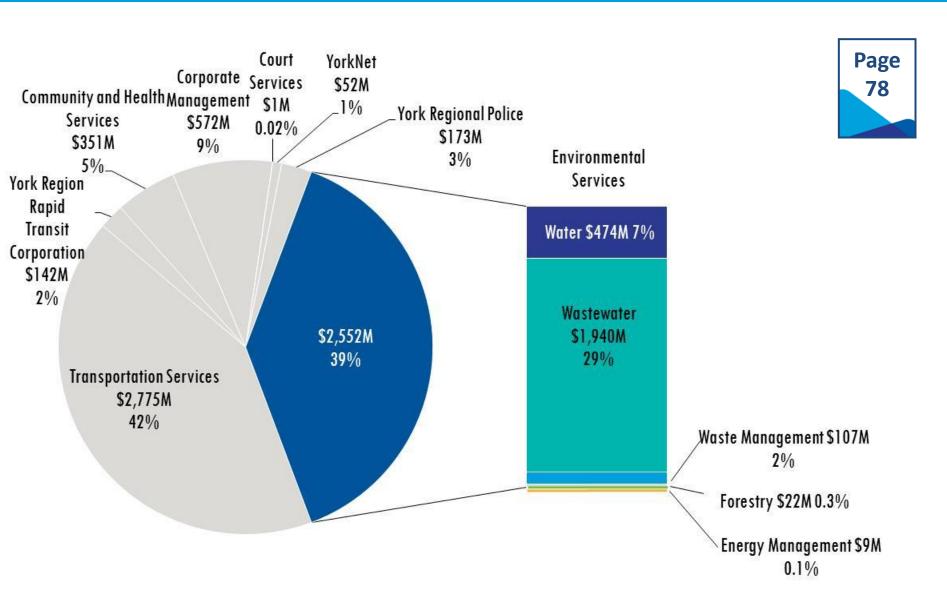


## **ENSURING AFFORDABLE WATER**

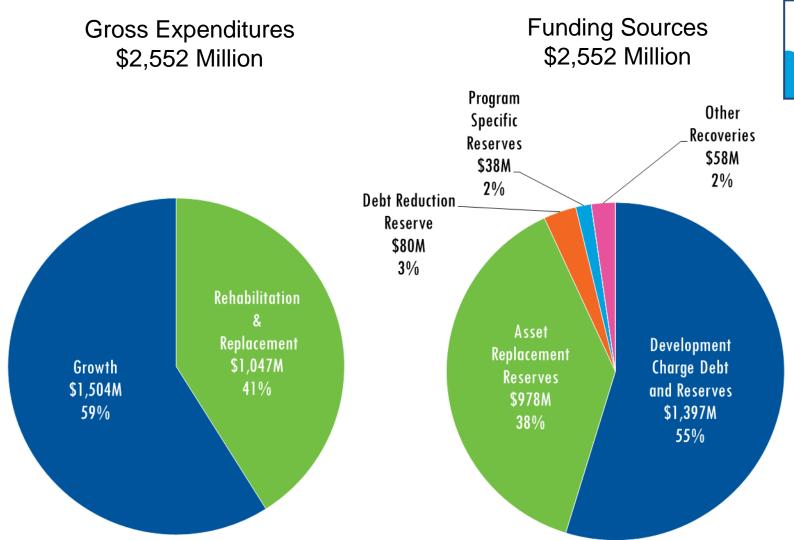


# **CAPITAL BUDGET**

## TEN-YEAR CAPITAL IS 39% OF THE REGION'S PLAN



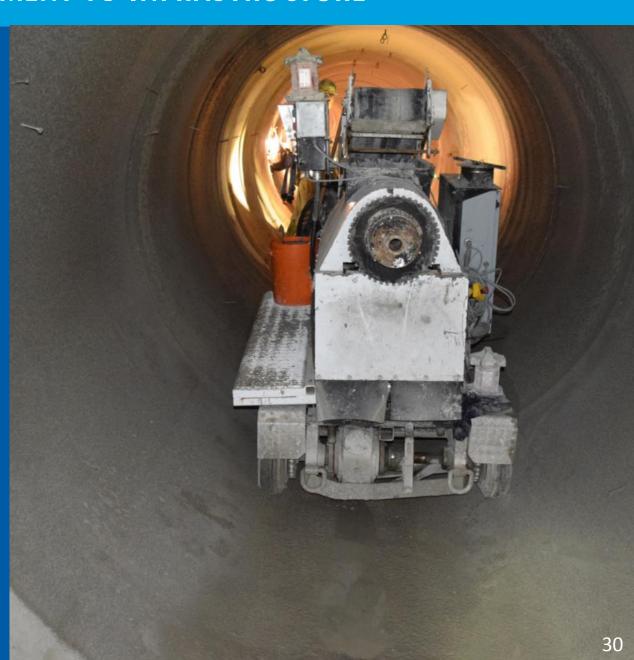
## CAPITAL EXPENDITURES AND FUNDING



# PROACTIVE COMMITMENT TO INFRASTRUCTURE







## **2019 TO 2028 CAPITAL PLAN**

# **WATER \$474M**

Rehabilitation & Replacement **\$276M** 

North-East Vaughan **\$91M** 

Toronto and Peel Cost Shared \$57M

# **\$1,940M**

Rehabilitation & Replacement **\$739M** 

Upper York *\$600M* 

West Vaughan \$246M

North-East Vaughan **\$161M** 

# **\$107M**

Rehabilitation & Replacement **\$17M** 

Source Separated Organics Facility \$80M

Markham HHW Relocation *\$7M* 

# **\$22M**

Street Tree Planting **\$14M** 

Regional Forest Property Upgrade **\$5M** 

Asset
Management
Rehabilitation **\$1M** 

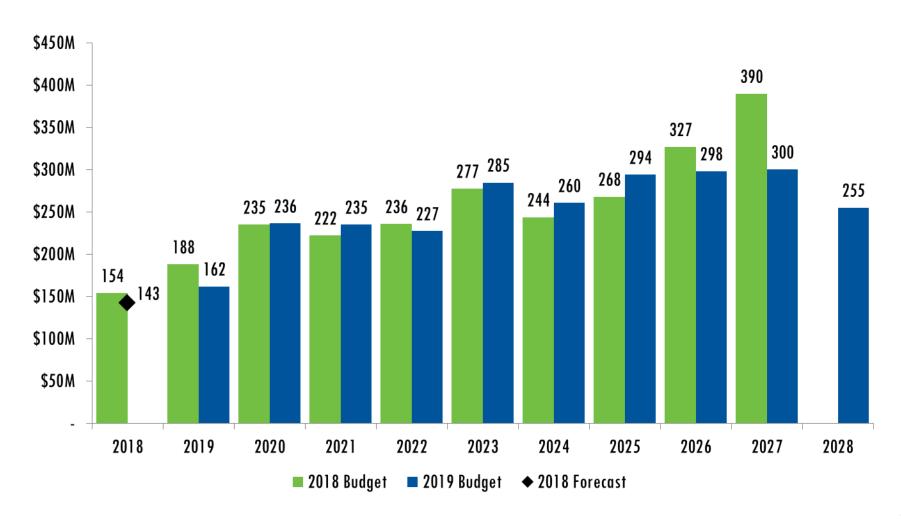
# **\$9M**

Energy
Retrofits –
Various
Existing
Buildings
\$9M



## 2019 PROPOSED BUDGET COMPARED TO 2018 BUDGET

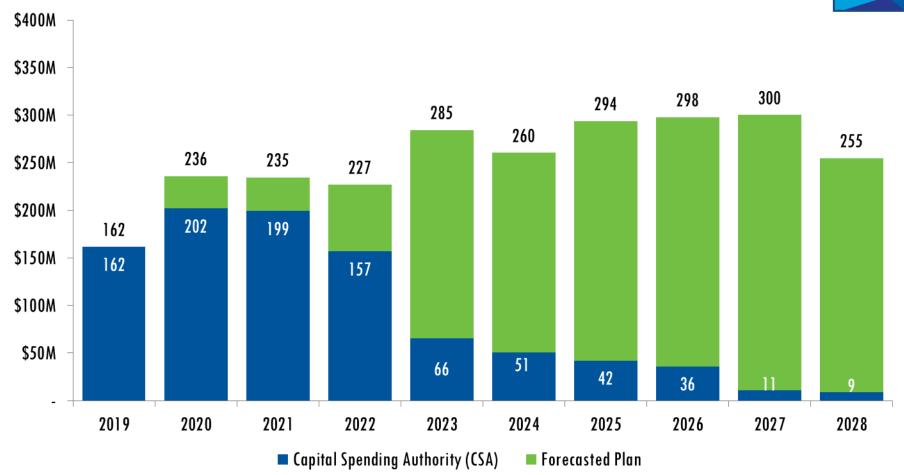
Environmental Services 2019 ten-year capital budget is \$2,552M which is \$13M more than the 2018 ten-year capital budget of \$2,539M



## CAPITAL SPENDING AUTHORITY (CSA)

Capital Spending Authority \$934M Ten-Year Capital Expenditures \$2,552M





# WRAP UP

## THE BUDGET SUPPORTS THE 2019 TO 2023 STRATEGIC PLAN

### TOP 5 INITIATIVES IN BUDGET ALIGNED WITH 2019 TO 2023 STRATEGIC PLAN:

- Ensuring 100% of drinking water samples meet Ontario Drinking Water Standards
- Ensuring 100% of wastewater receives treatment
- Diverting over 90% of residential solid waste from landfill
- Planting 70,000 trees and shrubs annually through the Regional Greening Strategy
- Maintaining 100% of ENV assets with a condition assessment of fair or better condition







## **MULTI-YEAR BUDGET OVERVIEW**

OPERATING BUDGET	APPROVED	PROPOSED	OUTLOOK				
	2018	2019	2020	2021	2022		
Gross Expenditures (\$M)	588.5	611.8	649.9	672.5	699.1		
Non-Tax Revenues (\$M)	(526.1)	(549.8)	(585.3)	(603.8)	(626.9)		
Net Tax Levy (\$M)	62.5	62.0	64.6	68.7	72.1		
FTEs - Total	412.0	428.0	444.0	459.0	474.0		
- New		16.0	16.0	15.0	15.0		
CAPITAL BUDGET							
2019 Capital Expenditures (\$M)							
Total Capital Spending Authority (\$M)							

## SERVICES DELIVERED FOR LESS THAN \$5 A DAY

**Operating & maintaining** 

**\$6.5 BILLION** in assets

Providing over
120 MILLION
cubic metres of safe
drinking water

Proactively managing over 140 CAPITAL PROJECTS

Over 41,000 hectares of woodlands across the Region

Harvesting solar energy from long-term contracts

Managing 365,000 TONNES of waste

## **BUDGET RECOMMENDATION**

- 1. Committee of the Whole recommends the budget as submitted for Environmental Services as follows:
  - a. The 2019 operating budget and 2020 to 2022 operating outlook as summarized in Attachment 1
  - b. The 2019 capital expenditures and the 2019 Capital Spending Authority, as summarized in Attachment 2.
- 2. The recommended budget be consolidated by the Commissioner of Finance and Regional Treasurer for consideration for Council approval on February 28, 2019.