

2024 Capital Project Detail Report

Project Title: Heavy Extrication Equipment Replacement - Forecast

Project Number: 001032

Department: Barrie Fire & Emergency Service

Summary: Replacement of heavy extrication tools.

Rationale: The existing heavy extrication tools are at the end of their useful life due to age, level of service (technology and safety), and financial efficiency. The proposed equipment is battery operated which reduces trip hazards, is easier to transport and may be used indoors. The new tools are also more cost-effective, more versatile, and safer to operate.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$45
Forecast	\$0	\$0	\$45	\$45	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$140
Total	\$0	\$45	\$45	\$45	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$185

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$45	\$45	\$45	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$185
Total	\$0	\$45	\$45	\$45	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$185

2024 Capital Project Detail Report

Project Title: Mobile Repeater Replacement

Project Number: 000029

Department: Barrie Fire & Emergency Service

Summary: Purchase of a mobile Astro Repeaters.

Rationale: A communications system directly impacts on the ability to provide effective fire protection and contributes to a safer working environment for emergency responders. Coroner's Jury recommendations into fatalities of firefighters emphasize the need for effective communication devices and procedures as a critical component in emergency operations. The Ministry of Labour and Ontario Fire Service Section 21 Committee state that fire departments should take into consideration the needs for effective fireground communications, the need for radio interoperability with other emergency agencies as well as the need for in-building radio coverage. Departments should consider the potential need for mobile repeater solutions. Radio tower infrastructure is very expensive and will never give us 100% in-building coverage. One way to enhance the in-building coverage is to provide a mobile repeater that will be mounted in a fire apparatus and used when required. Each portable used by Barrie Firefighters currently has the ability to transmit and receive on the mobile repeater. The use of this mobile repeater being located directly on the site of the emergency would increase the ability for portable radios to have both transmit and receive capabilities both in a building or outside.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Forecast	\$0	\$0	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Total	\$0	\$40	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$40	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80
Total	\$0	\$40	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80

2024 Capital Project Detail Report

Project Title: Portable/Mobile Radio Replacement

Project Number: BF1037

Department: Barrie Fire & Emergency Service

Summary: Replacement of portable and mobile radio equipment that has reached the end of their useful life and should no longer be used in emergency conditions. The project duration is 3 years.

Rationale: Replacement of portable and mobile radios used by emergency responders. Equipment will be at life cycle and not reliable.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$245	\$210	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$665
Total	\$245	\$210	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$665

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$245	\$210	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$665
Total	\$245	\$210	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$665

2024 Capital Project Detail Report

Project Title: Asset Management Plan Updates - Regulatory Compliance and Program Advancement

Project Number: EN1470

Department: Corporate Asset Management

Summary: Preparing and updating asset management plans for the City's assets in accordance with O. Reg 588/17 and good practice. The asset management plans focus on documenting existing asset inventory, condition and level of service information, as well as capital and operating cost requirements to meet proposed levels of service. Asset management plans are increasingly incorporated into the City's operation, planning and other activities, and are critical for long range financial planning.

The focus for 2023-2025 is to develop an asset management plan that establishes proposed levels of service for the City's assets and identifies the lifecycle activities and funding needed to achieve them.

Rationale: In 2017 the Province passed O. Reg. 588/17 – Asset Management Planning for Municipal Infrastructure, which requires municipalities to have proposed levels of service outlined in asset management plans (AMPs) for all assets by July 1, 2025. The plans are required to be updated on a five year cycle.

Updating the AMPs will help the City better understand current and long-range investment needs for the City's asset portfolio, and plan for renewal and growth more effectively. Advancing asset management planning will give staff and Council a better understanding of how service is impacted by changing infrastructure performance and needs, as well as the risks associated with different scenarios. This is key to effective decision making related to investment in and management of assets - in particular, in the development of capital and operating programs. It is also important to understand the investment required in newer assets so that they continue to support service delivery at an acceptable level of risk into the future.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$489	\$225	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$814
Total	\$489	\$225	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$814

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$39	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$39
Tax Capital Reserve	\$450	\$225	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$775
Total	\$489	\$225	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$814

2024 Capital Project Detail Report

Project Title: Big Bay Point Watermain Lining and Saddle Replacement

Project Number: 001293

Department: Corporate Asset Management

Summary: This project is to line the 500 mm diameter watermain on Big Bay Point Road between Bayview and Huronia, and to replace saddles at all active tap locations.

Rationale: This watermain connects the Surface Water Treatment Plant to the Harvie Reservoir and is a critical link providing water supply to the southern part of the City.

Soon after construction this pre-stressed concrete pipe was tapped to provide local servicing. This has put the watermain at risk of failure due to pre-stressed wires being cut during service tapping, and from exposure to corrosive soils at the tapping locations. A condition assessment of the pipe has been completed, including a variety of tests and analysis to assess the structural integrity of the pipe. This analysis recommended repair as soon as possible.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$750	\$5,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,250
Total	\$0	\$750	\$5,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,250

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water Capital Reserve	\$0	\$750	\$5,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,250
Total	\$0	\$750	\$5,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,250

2024 Capital Project Detail Report

Project Title: Capital Purchase - New Vehicles from Intake Forms

Project Number: RP1168

Department: Corporate Asset Management

Summary: This project is used administratively to capture the funding for vehicles which are approved through various operating intake forms (typically new positions and service level change requests). The vehicles are additional fleet complement, and not replacement.

Rationale: The justification for the various vehicles is included in multiple operating intake forms from prior years. The specific request for 2024 is additional funding due to increased costs in the fleet industry; additional budget is required to purchase the remaining vehicles (four 1 ton pickup trucks with mini dump, one 1/2 ton pick up and one 3/4 ton pickup truck).

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$2,070	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,445
Total	\$2,070	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,445
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$1,923	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,298
WW Capital Reserve	\$147	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$147
Total	\$2,070	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,445

2024 Capital Project Detail Report

Project Title: Ferndale Drive South Watermain Replacement – Tiffin to Ardagh

Project Number: EN1395

Department: Corporate Asset Management

Summary: This project will assess the best way to repair or replace the existing 600mm HDPE watermain along Ferndale Drive from Tiffin Street to Ardagh Road. In 2023 leak detection work is underway and the project will continue to determine the best long term approach for this asset.

Rationale: This water main has been out of service for a few years due to leakage/operational issues. Putting the Ferndale HDPE watermain back into service would provide additional water supply into pressure zone 3S and 2S in the south end of Barrie. This would provide redundancy to the supply from the Surface Water Treatment Plant (which has been disrupted a few times in recent years), and may allow deferral of plant expansion as the City grows.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$155	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335
Total	\$155	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water Capital Reserve	\$155	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335
Total	\$155	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335

2024 Capital Project Detail Report

Project Title: Fleet Replacement Program (Active)

Project Number: RP1188

Department: Corporate Asset Management

Summary: This program consolidates the fleet replacement needs for all areas of the organization with the exception of Transit. The program will fund the replacement of end-of-life light, medium, and heavy-duty vehicles, specialized equipment, and trailers. The program will address existing fleet units only and does not include fleet expansion to service growth or other service level changes.

Rationale: A significant percentage of the City's fleet is in poor condition. The City is incurring excessive repair and maintenance costs as a result of a failure to replace aging fleet assets. This program will bring fleet replacements in line with the economic life of each asset, minimizing expensive and reactive repairs, and keeping vehicles and equipment available to the business units delivering front line service for the City.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$6,450	\$7,450	\$2,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,400
Forecast	\$0	\$0	\$2,100	\$4,920	\$4,700	\$650	\$0	\$0	\$0	\$0	\$0	\$12,370
Total	\$0	\$6,450	\$9,550	\$7,420	\$4,700	\$650	\$0	\$0	\$0	\$0	\$0	\$28,770

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Fleet Management Reserve	\$0	\$6,450	\$9,550	\$7,420	\$4,700	\$650	\$0	\$0	\$0	\$0	\$0	\$28,770
Total	\$0	\$6,450	\$9,550	\$7,420	\$4,700	\$650	\$0	\$0	\$0	\$0	\$0	\$28,770

2024 Capital Project Detail Report

Project Title: Infrastructure Master Plans 2051

Project Number: EN1506

Department: Corporate Asset Management

Summary: This project is for the Master Plan updates for Drainage, Water, Wastewater and Transportation infrastructure. These studies will identify infrastructure needs to accommodate growth to 2051 as identified in the Provincial Growth Plan, and will provide input to future capital and operating budgets, long range financial planning, and the next update of the Development Charge Bylaw.

Rationale: Master plans serve as the City's roadmap in identifying the infrastructure required to service growth and provide tools to project required timelines for implementing those projects. The last set of infrastructure master plans evaluated growth needs to 2031 and 2041. The City now has population and employment projections for growth to 2051, and recently has a new Official Plan which describes where growth will occur and at what densities. This impacts the location and size of required infrastructure, and therefore the old master plans must be updated to align with the growth projections to the 2051 planning horizon. Having updated and comprehensive master plans allow staff at the City to support development, deliver projects and assist in keeping the City financially sustainable.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,058	\$752	\$2,369	\$1,184	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,363
Total	\$1,058	\$752	\$2,369	\$1,184	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,363

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$577	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$577
Tax Capital Reserve	\$243	\$409	\$1,211	\$592	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,454
WW Capital Reserve	\$143	\$206	\$695	\$355	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,399
Water Capital Reserve	\$95	\$137	\$463	\$237	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$933
Total	\$1,058	\$752	\$2,369	\$1,184	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,363

2024 Capital Project Detail Report

Project Title: Infrastructure Standards Technical Expertise Program (Active)

Project Number: 001246

Department: Corporate Asset Management

Summary: Annual program to obtain technical expertise that will support the continuous improvement of City infrastructure standards including: drinking water, sanitary waste water, storm water, rights of way and parks.

Rationale: This project ensures that technical experts not otherwise employed by the City are available to the infrastructure standards team. Technical expertise provides insight into options for designing and building infrastructure that may improve the economic, operation and lifecycle performance of infrastructure assets managed by the City. While larger projects exist to update standards as a whole every several years, this project will allow staff to be more reactive and flexible to incorporate smaller changes in a less time than a larger update.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60
Forecast	\$0	\$0	\$80	\$85	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$165
Total	\$0	\$60	\$80	\$85	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$60	\$80	\$85	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225
Total	\$0	\$60	\$80	\$85	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225

2024 Capital Project Detail Report

Project Title: Marta Crescent and SWMF BR09 Drainage Study

Project Number: EN1513

Department: Corporate Asset Management

Summary: This project will include field work and specialized engineering study with the overall objective of recommending solutions to existing standing water issues and restoring the functionality of the City's storm water management facility known as BR09.

Rationale: The rear property line of several residential lots is adjacent to the portion of the Bear Creek Wetland which is designated as a Provincially Significant Wetland. Changes to the wetland have impacted the Marta Crescent rear yards and several properties on Marta Crescent have experienced standing water at the rear of their properties for the past few years. Additionally the City owned storm water management facility in the area is not functioning as required, and City staff require specialized expertise from a qualified consultant to conduct an assessment of both situations and provide recommendations in the form of a short-term and long-term action plan.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$425	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500
Total	\$425	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$425	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$425
Tax Funded Stormwater Capital Reserve	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
Total	\$425	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500

2024 Capital Project Detail Report

Project Title: New Roll-off Truck - Wastewater Collections

Project Number: EN1502

Department: Corporate Asset Management

Summary: The requested vehicle, when outfitted with the proper bin, will function as a dump truck. The multi purpose vehicle will support both the Sanitary Lateral Repair and Replacement Program (SLRRP), and the WwTF grit and screening waste removal process.

Rationale: A new roll-off truck, fitted with a dump truck bin, will allow the WWOB to bring a significant amount of contracted services in-house, that will create cost savings.

Without this vehicle, the WWOB branch relies on other City departments to loan vehicles to the team to allow them to fulfill the requirements of the SLRRP. If other City vehicles are not available, staff use rental vehicles or outsource the work completely.

Additionally, WWOB currently relies on contracted services to remove the grit and screenings waste bins from the facility and transport it to the City's Landfill. The requested roll-off truck will allow staff to bring this contracted service in-house, reducing operational costs and ensuring the required level of service is provided.

Having the vehicle on site will allow staff to be more flexible and responsive, and provide more services directly to the residents, in the form of sanitary lateral repair and replacement, ensuring that service levels will not only be maintained but potentially elevated.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$200	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350
Total	\$200	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Fleet Management Reserve	\$200	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350
Total	\$200	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350

2024 Capital Project Detail Report

Project Title: Parks & Forestry Operations New Fleet to Service Growth

Project Number: RP1179

Department: Corporate Asset Management

Summary: Additional Parks & Forestry Equipment & Vehicles to maintain existing service levels for new assets delivered through development and redevelopment activities. Specifically the funding is for new pick up trucks, trailers and lawn mowers.

Rationale: To meet existing service levels, maintenance capability must keep up with the addition of new assets (parks, playgrounds, trees, trails). Without adequate resources to achieve minimum maintenance requirements there will be a reduction in service levels, creating increased risk through the inability to meet minimum legislated inspections and maintenance, increasing exposure to claims and decreasing customer/resident satisfaction.

As the City grows and develops, additional parks and open space (environmental protection) lands will become the maintenance responsibility of the Parks and Forestry Operations Branch. In addition to parks in the Salem and Hewitts Secondary Plan Areas, new parks are being built within existing subdivisions within the built boundary, including Little Lake Park, Baywood/Mapleview Dr E Park, Pineview Park and Painswick Park.

Between 2020 and the end of 2022 in the built boundary there is anticipated to be an increase in maintained parkland of 19 hectares , 7 new playgrounds, 29 new shrub/perennial beds, 2,700 new street and park trees and 23 hectares of assumed forested / natural areas. Salem and Hewitts development is anticipated to add an additional 34 hectares of managed parkland, 161 hectares of natural heritage area, 8,300 street trees 15 km of primary trails, 100 new shrub/flower beds and 7 new playgrounds by 2026.

Growing the fleet inventory along with the infrastructure inventory will ensure the City can continue to provide service to existing residents and meet minimum maintenance standards.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$133	\$530	\$350	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,013
Forecast	\$0	\$0	\$605	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$605
Total	\$133	\$530	\$955	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,617
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$133	\$530	\$955	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,617
Total	\$133	\$530	\$955	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,617

2024 Capital Project Detail Report

Project Title: Pavement Condition Assessment

Project Number: EN1511

Department: Corporate Asset Management

Summary: A complete network level pavement condition assessment. The project will inspect and collect data on the City's road network and parking lot portfolio, and deliver a database of the inspection results, modeling and reporting, as well as pavement management recommendations based on the inspection results.

Rationale: The City owns about \$1 billion worth of pavement assets, and City staff use pavement condition data on a daily basis to manage this major asset class. Accurate and up-to-date pavement condition data is required to make cost effective decisions that maximize the life of pavement assets at the lowest overall life-cycle cost. The data is used to evaluate options and determine priorities and timing for all pavement management projects.

Road condition data is also used for annual reporting and is used as a Key Performance Indicator (KPI) to measure and report to City Council on how effectively the City is maintaining its road network and ensuring adequate service levels.

Road condition assessments are typically undertaken every four years. The last assessment was undertaken in 2019.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250
Forecast	\$0	\$0	\$0	\$0	\$200	\$50	\$0	\$0	\$200	\$250	\$0	\$700
Total	\$0	\$250	\$0	\$0	\$200	\$50	\$0	\$0	\$200	\$250	\$0	\$950
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$250	\$0	\$0	\$200	\$50	\$0	\$0	\$200	\$250	\$0	\$950
Total	\$0	\$250	\$0	\$0	\$200	\$50	\$0	\$0	\$200	\$250	\$0	\$950

2024 Capital Project Detail Report

Project Title: Roads Operations New Fleet to Service Growth

Project Number: RP1180

Department: Corporate Asset Management

Summary: Three new combination plow/sander units to provide winter control to new routes in the Secondary Plan Areas. Two new sidewalk plows and 3 light duty trucks to maintain road and stormwater assets as they come online in the Secondary Plan Areas.

Rationale: The new vehicles are required to operate and maintain new infrastructure in the Secondary Plan Areas. As part of the Winter Maintenance Route Optimization Project completed in early 2020, residential routes were adjusted to re-balance routes and find efficiencies. After optimization and using the forecasts for new development coming online, it is recommended to add three (3) additional residential road plowing routes and 3 additional sidewalk plowing routes to service an additional 130 lane km of roads and 105 km of sidewalk. This infrastructure also requires maintenance outside of the winter season, and associated stormwater infrastructure must be maintained.

Growing the fleet inventory along with the infrastructure inventory will ensure the City can continue to provide service to existing residents and meet minimum maintenance standards.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,068	\$680	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,748
Total	\$1,068	\$680	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,748

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$1,068	\$680	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,748
Total	\$1,068	\$680	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,748

2024 Capital Project Detail Report

Project Title: Sanitary Lateral Replacement Grant Program Vehicle

Project Number: EN1352

Department: Corporate Asset Management

Summary: Purchase of a cube van to support the City's Sanitary Sewer Lateral Replacement Grant program. The van will house sewer inspection camera equipment which was approved and funded separately on intake form EN1527 Wastewater Collection System Inspection Camera. This equipment will be used to deliver the sanitary lateral replacement grant program.

The equipment will allow staff to:

- Determine location and cause of lateral blockages without entering residences.
- Reduce the number of costly exploratory excavations required to diagnose and remedy issues within the system.
- Supplement CCTV, in-situ repair, and capital replacement programs by producing sewer assessment videos.
- Investigate potential sources of inflow & infiltration and cross connections with storm system.
- Allow staff to perform QA/QC of new development after connection to sanitary system.

Rationale: In 2018 Council approved a grant program to offset the costs of sanitary sewer lateral repairs to homeowners. The program approval included funding for a crew and vehicle. Subsequently, staff have identified efficiencies and staff safety improvements to the program, by bringing sanitary lateral inspection services in house. There are additional capital costs associated with purchasing a cube van rather than a regular crew vehicle, however this is expected to be offset by a reduction in costs to retain contractors to perform the same services. The camera equipment/van will be used to investigate and resolve issues within the wastewater collection system, eliminating the need for staff to enter resident's homes.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
Total	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
Total	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100

2024 Capital Project Detail Report

Project Title: Sophia Creek Storm Investigation - Dunlop and Toronto Streets

Project Number: EN1510

Department: Corporate Asset Management

Summary: Field work and project planning phase to develop a strategy for the culvert located between Toronto St and Mary St north of Dunlop St.

Rationale: There is uncertainty around the risks associated with an abandoned culvert. There is a need to gather data in the field about the exact location and condition of the pipe, and whether or not it continues to function through a number of connections. Through techniques such as CCTV, smoke/dye testing and Ground Penetrating Radar, staff will be able assess the current risk, and assess options to address it. Development of a strategy for next steps will be included.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$100	\$200	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350
Total	\$100	\$200	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
Tax Funded Stormwater Capital Reserve	\$0	\$200	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250
Total	\$100	\$200	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350

2024 Capital Project Detail Report

Project Title: Stormwater Infrastructure Standard - Review and Update

Project Number: EN1509

Department: Corporate Asset Management

Summary: Review and updating of the City of Barrie Stormwater Infrastructure Standards to ensure consistency and alignment with regulation, industry best practice and City policy and strategic initiatives.

Rationale: The City of Barrie's Infrastructure Standards are intended to be reviewed every 5 years to ensure they are aligned to regulatory requirements, industry best practices and City strategic initiatives and policies. The City of Barrie Stormwater Infrastructure Standards have existed with only minor changes made since 2009 therefore this review is overdue.

Over the past 12 years the City has introduced a Climate Change Adaptation Strategy, Asset Management Policy, Active Transportation priorities and a new Official Plan. Low Impact Development has been introduced by the City's regulators and from an industry best practice numerous industry technologies and techniques have been developed. While the City does provide for some requirements around these topics it does not do so comprehensively enough to ensure that infrastructure is realizing opportunities to more effectively balance risk, cost and level of service.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$60	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$180
Total	\$60	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$180

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$60	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$180
Total	\$60	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$180

2024 Capital Project Detail Report

Project Title: Wastewater Inflow/Infiltration Reduction Action Plan (Active)

Project Number: EN1539

Department: Corporate Asset Management

Summary: A project to develop and implement Inflow and Infiltration (I&I) reduction measures for the City. Project involves compilation of all current data and the creation of a specific, actionable plan that has metrics and deliverables and is fiscally responsible. It also includes identifying and actioning repairs in the wastewater collection system and developing policies and procedures to reduce I&I.

Rationale: I&I is rainwater and groundwater which gets into the sanitary collection system and to the Wastewater Treatment Facility (WwTF). This effectively increases costs to treat groundwater/rainwater which has been combined with raw sewage.

Significant I&I flows are currently being experienced at the WwTF. This increases the volume of water requiring treatment, which in turn increases the risk of WwTF overflows and effluent quality regulation exceedances. Furthermore, high I&I flows reduce the available plant and sewer capacity and may trigger the need for upsizing earlier than otherwise required. This project will save operating money in the short term and defer larger capital investments.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Forecast	\$0	\$0	\$410	\$410	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$820
Total	\$0	\$200	\$410	\$410	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,020

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
WW Capital Reserve	\$0	\$200	\$410	\$410	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,020
Total	\$0	\$200	\$410	\$410	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,020

2024 Capital Project Detail Report

Project Title: Annual Park and Open Space Parking Lot Renewal and Construction Program (Active)

Project Number: 001239

Department: Development Services

Summary: Year two of the Annual Parking Lot Improvement Program includes the expansion, upgrading, rehabilitation, and replacement of existing parking lot surfaces at City of Barrie parklands. The program aims to improve capacity issues, promote park and recreation activities, and improve deteriorating surfaces to better accommodate City of Barrie residents.

The approved 2019 Parks Condition Assessment identified a backlog to 2022 of \$1.2 million in park parking lot rehabilitation needs and a total recommended rehabilitation requirement up to 2026 of \$1.8 million to maintain the current level of service and safety standards. The majority of park parking lots inspected were rated to be in poor to fair condition in 2019.

Rationale: The approved 2019 Parks Condition Assessment identified a backlog to 2022 of \$1.2 million in park parking lot rehabilitation needs and a total recommended rehabilitation requirement up to 2026 of \$1.8 million to maintain the current level of service and safety standards. The majority of park parking lots were rated in poor to fair condition in 2019.

With the continued growth of the City's population and on-going intensification plans, the use of recreational and public parks continues to increase. As such, current parking lot conditions no longer meet the physical condition or capacity requirements to provide residents with the levels of service they desire and also restrict City park and recreation activities because of this. The program aims to increase the quality and capacity of City owned parking lots which benefits the City socially through resident satisfaction while increasing revenues via the accommodation and promotion of outdoor recreation programs. As the City prioritizes and implements outdoor park sports fields and other amenities, future parking needs will continue to be investigated.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Forecast	\$0	\$0	\$35	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$285
Total	\$0	\$150	\$35	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$435

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$150	\$35	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$435
Total	\$0	\$150	\$35	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$435

2024 Capital Project Detail Report

Project Title: Annual Playground Revitalization Program (Active)

Project Number: EN1538

Department: Development Services

Summary: The Annual Playground Revitalization Program identifies and addresses aging and worn-out playground infrastructure and related site works that pose safety concerns to the general public and liability risks to the City. The program also emphasizes upgrading existing parks to meet current accessibility and inclusivity standards.

Rationale: Deteriorating playground equipment and parkland result in decreased play-value and may result in the playground becoming unsafe or unusable. The Annual Playground Revitalization Program reduces the likelihood of these risks as well as operation and maintenance costs. Additionally, many of the City's playgrounds do not meet current accessibility standards for people with disabilities. This program also includes upgrades to address this gap and increase the accessibility of the City's parks during revitalization work.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$880	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$880
Forecast	\$0	\$0	\$750	\$775	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,525
Total	\$0	\$880	\$750	\$775	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,405

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Cash-In-Lieu Parkland Reserve	\$0	\$880	\$750	\$775	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,405
Total	\$0	\$880	\$750	\$775	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,405

2024 Capital Project Detail Report

Project Title: Ceremonial Fire Pit

Project Number: EN1312

Department: Development Services

Summary: The Ceremonial Fire Pit is proposed to be used for indigenous ceremonial events and other local community events.

Rationale: As per motion 18-G-108, In the spirit of reconciliation and partnership with Barrie's Indigenous community, the City of Barrie supports projects which can advance these aims. The City is matching the project funding provided by the Rotary Club of Barrie-Kempfenfelt.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$90	\$0	\$15	\$170	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$275
Total	\$90	\$0	\$15	\$170	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$275

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Donations - Specific Purpose	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Reinvestment Reserve	\$50	\$0	\$15	\$170	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$235
Total	\$90	\$0	\$15	\$170	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$275

2024 Capital Project Detail Report

Project Title: Cycling Retrofits Program (Active)

Project Number: EN1265

Department: Development Services

Summary: The Cycle Barrie Infrastructure Program (CBIP) is a coordinated effort focused on developing a 'quick win' cycling network by leveraging existing infrastructure, which includes road right-sizing (narrowing or removing travel lanes and parking to create space for dedicated cycling lanes), on-road bicycle routes and the assessment of network gaps (for future capital programming) to create a connected cycling network in the short to mid-term apart from large capital projects.

Rationale: The City's current active transportation modal share is 5% walking and less than 1% cycling; the City has set an aggressive active transportation target of 12% in the Council approved TMP. This represents a 200% increase of the active transportation modal share.

This modal target relies on an increased cycling modal share as the City's sidewalk network is generally built-out. To achieve this target; the City must focus on implementation of cycling infrastructure within the built boundary (cycling infrastructure is being constructed in the secondary plan areas as part of arterial road widening projects and through development approval).

The focus of this program will be the development of an achievable and cost effective plan that provides active transportation linkages and enhanced mobility equity for the residents of the City of Barrie. This study will generally focus on examining solutions that can be implemented in the near term as the current approach of generally linking implementation of AT infrastructure with major road reconstruction projects is resulting in a very low rate of implementation; this will be further exacerbated as financial challenges limit the City's ability to undertake major road projects in the City's built boundary.

Although measurable change will take many years, implementation of an active transportation network with connectivity is critical to help promote and get residents used to using active transportation as well as practically making active transportation a viable alternative. Furthermore; with infill occurring within the built boundary, active transportation is critical to support planned intensification.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$2,781	\$425	\$325	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,781
Total	\$2,781	\$425	\$325	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,781
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Province of Ontario Grant Revenue	\$1,014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,014
Canada Community-Building Reserve	\$0	\$80	\$80	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$240
DC Reserves	\$602	\$266	\$201	\$153	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,222

Tax Capital Reserve	\$1,166	\$79	\$44	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,306
Total	\$2,781	\$425	\$325	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,781

2024 Capital Project Detail Report

Project Title: Heritage Park Redevelopment

Project Number: 001126

Department: Development Services

Summary: The redevelopment of Heritage Park in accordance with the June 6, 2022 Council approved Heritage Park Master Plan (22-G-110, Staff Report DEV012-22) will allow the park to continue to be a key four-season waterfront destination for the City which:

- ensures public safety and continued service by replacing or rehabilitating the deteriorated park assets including the site services, utilities, pathways, lighting, shade structures, shoreline, site amenities, and water features,
- responds to current and future social, cultural, and environmental needs and trends including universal access, social inclusion, community wellness, and climate change adaption,
- provide rich four-season experiences and opportunities for people to reconnect with nature and each other, and
- complements Meridian Place to further attract residents and visitors to the waterfront and city centre for longer and repeat visits.

Rationale: A new Master Plan was completed in 2022 and approved on June 6, 2022 through Council Motion 22-G-110 further to Staff Report DEV012-22. The Master Plan undertook a detailed review of the park's future rehabilitation including its current and future programming as a major year-round waterfront park while determining the role and uses as a landscaped park with floral displays, a gateway to the North Shore Trail, the site of our only waterfront water feature/splash pad, a location to host arts and culture programming and how the park will function with its role connecting the waterfront to the downtown core, Memorial Square and Meridian Place with its outdoor stage. The plan also addresses environmental sustainability and improved accessibility, and is designed to respond to increasing urban use over the next thirty years.

Heritage Park is a significant and landmark waterfront park that is heavily used by the general public, visitors, event promoters and community partners year-round for a wide-range of activities. Currently up to 50 large events, festivals and activities use Heritage Park on an annual basis throughout all four seasons, not including the larger downtown BIA events and the new events held at Meridian Place. The infrastructure has reached, or is reaching, the end of its useful life and can no longer be sustained by routine maintenance and repairs. The resulting risk of failure and to public safety is also advancing year over year and some components of the park are closed to the public due to unsafe conditions (E.g. waterplay feature).

The park was constructed in two phases in the early to mid 1990s and has not had any significant reinvestment since that time. The programming and intense use of the park has far exceeded the original design and maintenance capacity of the space, resulting in the advanced deterioration or failure of a range of park assets including the water feature/splash pad, electrical systems, mechanical systems, irrigation, site furnishings, lighting, specimen plantings, buildings and grand lawn area. The opening of Meridian Place has also increased the demand on Heritage Park with the ability to hold events which simultaneously use both spaces (e.g. large concerts).

The resulting deterioration of the park infrastructure has resulted in the City having to resolve and pay out liability claims for such incidents as slip and falls and trip hazards.

The following twelve (12) goals in the approved Master Plan are targeted to create a sustainable regenerative urban oasis that will support resident and visitor use over the next thirty years:

- a) Infrastructure: Upgraded or new park infrastructure including the electrical, water, and storm water servicing.
- b) Gathering Opportunities: Enhanced social cohesion and equity through social spaces;
- c) Programming: Spaces that promote multigenerational interaction and all-ages programming;
- d) Movement: Improved pedestrian connections and active modes of transportation;
- e) Accessibility: Universal and inclusive design standards to ensure accessibility and barrier-free access;
- f) Connections: Connected waterfront open spaces and natural heritage systems;
- g) Year Round Interest: Four-season passive and events-based programming incorporating "Winter City" design principles;
- h) Green Parkland: Restorative landscapes that assist to support urban wellness and community health;
- i) Environmentally Strategic: Resilient and ecologically-driven design using native species;

- j) Water Access: Direct and diverse water access and views to enhance the visitor experience and park programming;
- k) Education: Opportunities for natural heritage education and interpretation;
- l) Multipurpose Spaces: Flexible spaces to meet the needs of an increasing downtown population, evolving downtown and region.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$300	\$570	\$7,940	\$2,790	\$0	\$0	\$0	\$0	\$0	\$0	\$11,600
Total	\$0	\$300	\$570	\$7,940	\$2,790	\$0	\$0	\$0	\$0	\$0	\$0	\$11,600

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$300	\$570	\$7,940	\$2,790	\$0	\$0	\$0	\$0	\$0	\$0	\$11,600
Total	\$0	\$300	\$570	\$7,940	\$2,790	\$0	\$0	\$0	\$0	\$0	\$0	\$11,600

2024 Capital Project Detail Report

Project Title: Hewitts Gate Subdivision New Park Development - Hewitts Park 5H - Village Square

Project Number: 000881

Department: Development Services

Summary: New subdivision development adding a Village Square (Park) within the Hewitt's Secondary Planning Area.

Rationale: The Developer is required to fulfill their development obligation through the development approval process. The Developer is required to deliver the completed park, for public use, in 2024. This will ensure that there are no service gaps for new residents. If the park is not delivered within the first year of development construction, the City will not be fulfilling our obligation to provide adequate parkland, for the local residents.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$706
Total	\$0	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$706

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$0	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$706
Total	\$0	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$706

2024 Capital Project Detail Report

Project Title: Lockhart Subdivision New Park Development - Hewitts Park 15H - Village Square

Project Number: 000897

Department: Development Services

Summary: New subdivision development adding a Village Square (Park) within the Hewitt's Secondary Planning Area. Please note that this is a trail head and is not a traditional Village Square.

Rationale: The Developer is required to fulfill their development obligation through the development approval process. The Developer is required to deliver the completed park for public use in 2023. This will ensure that there are no service gaps for new residents. If the park is not delivered within the first year of development construction, the City will not be fulfilling our obligation to provide adequate parkland, for the local residents.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$71	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$71
Total	\$0	\$71	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$71

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$0	\$71	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$71
Total	\$0	\$71	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$71

2024 Capital Project Detail Report

Project Title: Lockmaple Development New Park Development - Hewitts Park 3H - Village Square

Project Number: 000887

Department: Development Services

Summary: New subdivision development adding a Village Square (Park) within the Hewitt's Secondary Planning Area.

Rationale: The Developer is required to fulfill their development obligation through the development approval process. The Developer is required to deliver the completed park for public use in 2023. This will ensure that there are no service gaps for new residents. If the park is not delivered within the first year of development construction, the City will not be fulfilling our obligation to provide adequate parkland, for the local residents.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$706
Total	\$0	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$706

<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$0	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$706
Total	\$0	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$706

2024 Capital Project Detail Report

Project Title: North Shore Trail - New Water Access Points, Drainage Improvements and Slope Stabilization Project

Project Number: EN1284

Department: Development Services

Summary: This project is for the design and construction of two (2) additional water access points (Sam Cancilla Park, St. Vincent Sq. or Nelson Sq.) and a ramped connection from Kempenfelt Park to the North Shore Trail. The purpose is to prevent on-going erosion and slope instability that has resulted from public foot traffic caused by desire to reach water's edge, as well as creating a safe connection point from Kempenfelt Park to the North Shore Trail.

The project scope is updated to reflect the trail drainage and critical slope stabilization works approved in motion 23-G-329.

Rationale: The 3.0 kilometer long North Shore Trail is one of the last remaining area of the City that does not have direct public access to the water's edge. Through the recommendations in the Waterfront and Marina Strategic Plan, this access was considered a high priority to prevent indiscriminate access to the shore by the public causing erosion of the slopes, unstable embankments leading to sediment into Kempenfelt Bay and uncontrolled access leading to safety hazards. Through the design and implementation of two (2) proposed access points, the public will have better access the water's edge for passive recreational enjoyment and prevent continual erosion of the existing slopes due to desire line accesses created by trail users.

The project is critical to reverse ongoing damage and risk due to erosion of the sensitive slopes while providing a consistent level of service on the waterfront to the public who access the shorelines. The scope and budget have been increased in 2023 in response to Council Motion 23-G-329:

That staff in the Development Services Department include the recommendations for shoreline erosion mitigation, including ditch outfall improvements in the proposed 2024 Capital Improvement Project for the North Shore Trail as described in paragraphs 16 and 17 of this report and further detailed in Appendix "A" - North Shore Trail Vegetation Management Plan Update attached to Staff Report OPR002-23.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$165	\$1,175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,340
Total	\$0	\$165	\$1,175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,340

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Cash-In-Lieu Parkland Reserve	\$0	\$165	\$1,175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,340
Total	\$0	\$165	\$1,175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,340

2024 Capital Project Detail Report

Project Title: Park Pathway Renewal Program (Active)

Project Number: 001233

Department: Development Services

Summary: New annual rehabilitation and replacement program to address the park asphalt pathways rated to be in poor condition and recommended for replacement in the 2019 Parks Condition Assessment. The project is planned as a multi-year program alternating between design and construction year over year.

Rationale: The city owns and maintains 45,000 linear metres (146,250 square metres) of asphalt pathways in its park system. The average life-cycle for a typical park asphalt pathway is 20 years or for heavier-traffic asphalt pathways it is 15 years. A significant portion of the total park pathway inventory was constructed prior to 2005. Using current market values, the total value of the City's asphalt park pathways is estimated to be \$17,500,000.

The 2019 Parks Condition Assessment identified \$9,500,000 in park asphalt pathways to be replaced across the entire park and open space system based on their poor to fair condition rating during the period of 2020 to 2029. The focus of the project is to address the current backlog from 2020 to 2022 of \$3,485,000 for park pathways that were classified in poor condition.

The pathways included in this program include connecting walkways from streets to, and through parks, internal park circulation routes, maintenance routes, and accessible routes to park outdoor recreation facilities, playgrounds and amenities.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$30	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$280
Forecast	\$0	\$0	\$0	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35
Total	\$0	\$30	\$250	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$315

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$30	\$250	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$315
Total	\$0	\$30	\$250	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$315

2024 Capital Project Detail Report

Project Title: Play Court Construction and Rehabilitation Program (Active)

Project Number: 001231

Department: Development Services

Summary: Rehabilitation of tennis and play courts with a primary focus on full surface asphalt replacement. Where necessary, rehabilitation may also include colour coat resurfacing, perimeter fence repair or replacement, and lighting upgrades or replacement. Program also includes the play court infill program as per the Council approved Outdoor Recreation Facility Study to construct new pickleball, tennis, basketball and multi-use courts into existing parks.

Rationale: The repair or replacement of tennis and play courts are required when physical deterioration results in a much lower quality playing surface or an increased risk of personal injury. Deteriorated courts (uneven, cracked or broken asphalt) are identified during annual surface assessments conducted by the Operations Department and the 2019 Parks Condition Assessment. The risk of lost revenues, eroded public confidence, and reduced community wellness can occur with the loss of court facilities from the City's inventory. The courts also serve a local recreational hub and need for other activities such as pickleball and winter ice rinks. For courts with a colour coat surface, maintenance is required every ten years to continue to provide the expected level of service to residents. The program is now balanced between court rehabilitation and new court infill projects to address the growing need for court facilities in existing neighborhoods.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$660	\$935	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,595
Forecast	\$0	\$0	\$0	\$1,031	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,031
Total	\$0	\$660	\$935	\$1,031	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,626

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Cash-In-Lieu Parkland Reserve	\$0	\$66	\$94	\$103	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$263
Tax Capital Reserve	\$0	\$594	\$842	\$928	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,363
Total	\$0	\$660	\$935	\$1,031	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,626

2024 Capital Project Detail Report

Project Title: Road Safety Assessment - Secondary Planning Areas

Project Number: EN1521

Department: Development Services

Summary: Road safety assessment for roads located in the secondary planning areas.

Rationale: Roads located in the Secondary Planning Areas are formal rural roads. The Road Safety Assessment will undertake a safety review of these roads and provide a repair/rectification plan for identified deficiencies.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Total	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Total	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

2024 Capital Project Detail Report

Project Title: Secondary Plan Area New Trail Development (Developer)

Project Number: EN1442

Department: Development Services

Summary: Recreational and Active Transportation trail development based on development growth in the Secondary Plan Area lands and with implementation and to meet the timing of subdivision development and new residents to the area.

Rationale: Design for the Phase 1 trails ahead of construction implementation by the developer. Projected timelines will be adjusted depending on how fast the Phases 1 and 2 subdivisions are being implemented (partly impacted by market demands and infrastructure implementation).

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$2,801	\$478	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,279
Forecast	\$0	\$0	\$489	\$504	\$519	\$535	\$551	\$567	\$584	\$601	\$630	\$4,979
Total	\$2,801	\$478	\$489	\$504	\$519	\$535	\$551	\$567	\$584	\$601	\$630	\$8,258

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Front Ending (Annex) - Developer Build	\$2,544	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,544
DC Reserves	\$0	\$287	\$293	\$302	\$311	\$321	\$330	\$340	\$350	\$361	\$378	\$3,274
Cash-In-Lieu Parkland Reserve	\$257	\$191	\$196	\$202	\$208	\$214	\$220	\$227	\$234	\$240	\$252	\$2,440
Total	\$2,801	\$478	\$489	\$504	\$519	\$535	\$551	\$567	\$584	\$601	\$630	\$8,258

2024 Capital Project Detail Report

Project Title: Streetlight Infill Program (Active)

Project Number: 001283

Department: Development Services

Summary: Traffic Services have identified several locations from residents, council, and staff observations for small scope, illumination upgrades to improve lighting at corners, crossing and other minor locations that would benefit from lighting upgrades

Rationale: In older neighbourhoods throughout Barrie, the streetlighting levels are based on old standards and are often dimly lit. Traffic Services staff receive requests to review these areas from Mayor and Council or through Service Barrie. Staff consider future renewal and recommend areas that will not be identified for reconstruction for several years, but will benefit from interim lighting upgrades. Staff focus on corner areas, heavily treed areas or short dimly lit stretches of older neighbourhoods.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80
Forecast	\$0	\$0	\$85	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175
Total	\$0	\$80	\$85	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$80	\$85	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255
Total	\$0	\$80	\$85	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255

2024 Capital Project Detail Report

Project Title: Traffic Signal Cabinet Replacement Program (Active)

Project Number: 001285

Department: Development Services

Summary: The traffic signal control cabinets and components identified in this program are close to 30 years old and are from a line of products that have not been supported by the manufacturers for several years. The city has salvaged several units as a back up for replacement parts. These surplus parts have been exhausted and we are unable to replenish them.

Rationale: The intersections within the program have had several minor failures resulting in the intersections being in flash. Our service staff have been able to make repairs with spare supplies, however as noted these parts are no longer available. Technical support from the manufacturer is also unavailable, meaning the next failure of this intersection we will potentially not be able to recover from. A failure of this system for a long duration would result in impacts to the residents in the form of no traffic control, or additional resources from Barrie Police Services to provide onsite paid duty control. The duration of the outage would last until a replacement traffic signal cabinet could be made available. Additionally the identified traffic cabinets are not compatible with our traffic control central system, which means we are unable to remotely monitor or modify signal timings at the intersection.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90
Forecast	\$0	\$0	\$96	\$102	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$198
Total	\$0	\$90	\$96	\$102	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$288

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$90	\$96	\$102	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$288
Total	\$0	\$90	\$96	\$102	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$288

2024 Capital Project Detail Report

Project Title: Waterfront Park Furnishings Program (Active)

Project Number: 001220

Department: Development Services

Summary: Year four of a annual capital program to install a higher quality and amenity of site furnishings for the waterfront to address an overall deficiency in public seating, active transportation support amenities (E.g. bicycle shelters and lockers), public gathering, and accessible seating opportunities.

Rationale: In 2018, Council approved an amendment to the 2018 Business Plan to address a deficiency of high-quality site furnishings on the waterfront. This initial funding was converted into a multi-year capital program starting in 2019. Business Plan. Based on the pilot installation in the summer of 2018 of a small number of new site furnishings in Centennial Park, the City received very positive feedback regarding the style and quality of the furnishings, but also received negative feedback regarding the low number of furnishings throughout the waterfront.

The emphasis of the program is to create improved opportunities for public seating and gathering throughout the waterfront. The focus to date has been to address the deficiency in Centennial Park. This would continue to be the focus through 2021 with future years to begin expand the program to other deficient waterfront parks such as Tyndale Park, The Gables, Minet's Point, Johnson's Beach, etc.

Program will be expanded to now to include active transportation amenities such as bicycle shelters, repair stations and lockers on the waterfront.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Forecast	\$0	\$0	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
Total	\$0	\$75	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Cash-In-Lieu Parkland Reserve	\$0	\$75	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225
Total	\$0	\$75	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$225

2024 Capital Project Detail Report

Project Title: Watersand Subdivision New Park Development - Salem Park 1S - Neighbourhood Park

Project Number: 000903

Department: Development Services

Summary: New subdivision development adding a Neighbourhood Park within the Salem Secondary Planning Area.

Rationale: The Developer is required to fulfill their development obligation through the development approval process. The Developer is required to deliver the completed park for public use in 2024. This will ensure that there are no service gaps for new residents. If the park is not delivered within the first year of development construction, the City will not be fulfilling our obligation to provide adequate parkland, for the local residents.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$2,118	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,118
Total	\$0	\$2,118	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,118

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$0	\$2,118	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,118
Total	\$0	\$2,118	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,118

2024 Capital Project Detail Report

Project Title: Culture Plan Update and Public Art Master Plan

Project Number: EC1000

Department: Economic & Creative Development

Summary: In 2006 the City of Barrie approved its first Culture Plan, "Building a Creative Future - A Plan for Culture." With the 10-year direction for that plan past and progress made in the development and impact of the arts and creative sector it is an opportune time for the City of Barrie to update the plan and set the stage and priorities for the role of the arts and culture sector in the City's next phase of growth. Further, the role of public art in placemaking for the City is growing and its development requires intention and planning to ensure integration of public art across the City and the development of policies and practices that will foster it's continued contribution to community. Funding for a Public Art Master Plan has been established as part of a bundle of community benefits in site plan file: D11-016-2021 in the amount of \$75,000

Rationale: The City has made significant investment in the Arts, Culture and Public Art realm since the inception of the first Culture Plan in 2006 with the intent of animating public spaces in the City, celebrate the heritage, and overall build and engaged, diverse and vibrant City for current residents and attract new residents, investment, and talent. Further, investment in the sector is intended to support the overall capacity and growth of the sector. As the City enters it's next period of significant growth, understanding the impact of the investments made, current market conditions and future growth opportunities, will allow the City to best direct its future investments to maximize return to community and the taxpayer. Further, the Public Art Master Plan has been funded as a community benefit from the development community. As the City does not have a current public art master plan, public art can animate public spaces in the city and give people a sense of belonging, contributing to an engaged, diverse and vibrant city. Similar to the arts and culture sector, public art has a role in how the City can enrich neighbourhoods and foster an environment for creative communities to thrive. Levering this investment alongside the Culture Plan update, will create a robust and comprehensive plan for the City to advance the creative portfolio forward over the next 10 years.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$90	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$165
Total	\$90	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$165

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Reserves	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
Tax Capital Reserve	\$15	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90
Total	\$90	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$165

2024 Capital Project Detail Report

Project Title: Engine 1531 Restoration for Donation to Simcoe County

Project Number: BD1003

Department: Economic & Creative Development

Summary: This funding represents the City's contribution to the restoration of Engine 1531, to complete the donation of the Engine to the Simcoe County Museum.

Since 2010, Engine 1531 and caboose have been displayed at the Museum. The full restoration needs to be completed in order to preserve the integrity and life of both engine and caboose. The total restoration costs are proposed to be undertaken by the Simcoe County Museum at an estimated cost \$319,000, over a three-year period.

Rationale: The City of Barrie accepted the donation of historic train Engine 1531 from CN Rail in 1960. As part of the Lakeshore reconstruction project, in 2008, the City of Barrie and County of Simcoe entered into an agreement to relocate Engine 1531 and caboose to Simcoe County Museum. As part of the agreement, the pieces were to undergo a cosmetic restoration, with City of Barrie providing funding and Simcoe County Museum staff and volunteers completing the work. The restoration works have not been completed. As the engine is the property of the City of Barrie, funds are required to undertake this needed work in order for the piece to be considered for gifting to the Simcoe County Museum and the overall preservation of the asset.

Providing the funding for the restoration of the engine will ensure the piece is restored to a condition that preserves and honours the history of the City.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$250	\$64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$314
Total	\$250	\$64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$314
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Reinvestment Reserve	\$250	\$64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$314
Total	\$250	\$64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$314

2024 Capital Project Detail Report

Project Title: Permanent Market (Market Precinct) Implementation

Project Number: 001107

Department: Economic & Creative Development

Summary: Project funding placeholder for the second stage of the Permanent Market Implementation identified in Council Correspondence Memorandum dated April 4, 2022, A2 220404 in response to Council Direction 22-G-026 regarding the Market Precinct Task Force. Specifically, the intake form establishes the funding needed to establish part b of Phase 1 of the implementation: Creation of the Permanent Market and Barrie Farmers’ Market building space which consists of Project Design and concept plan for Conversion of the Lower Floor of Transit Terminal. The costing associated with this design work, only contemplates the design and continued business case implementation activities. It does not include actual project construction costing. That will be provided to Council once the design concept work is complete.

Rationale: Memo A2 220404 provided to Council on April 4th, 2022, established the implementation plan and associated costing for Phase 1 a, b and c of the implementation plan. Phase 1 includes the assessment of the Permanent Market space and business case which was further broken down into 3 parts.

- a. the conversion of the transit terminal space;
- b. the development of the permanent market business case, and;
- c. the conceptual development of the Farmer’s Market facility.

It is estimated that this phase of the project will total approximately \$425,000 in consultant, architect and staff resourcing costs. Of this estimate, \$100,000 has been approved for 2022 to address part a. Staff are now seeking approval for the remaining funds as part of the 2023 Capital Budget. This initial investment will only support the first phase of the project which will provide a business case with governance recommendations along with the scope and cost of the design and construction services for phase 2.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Total	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Total	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

2024 Capital Project Detail Report

Project Title: Allandale and Downtown Transit Mobility Hubs

Project Number: FC1206

Department: Facilities Department

Summary: In order to facilitate the construction of the Barrie Permanent Market project at the location of the existing Transit Terminal (24 Maple Ave), it is required that a new location for the Transit Terminal be found, and a new Transit Facility constructed. The construction of the new Transit terminal will allow the existing Transit operations to move out of the building at 24 Maple Ave and relocate to a site in close proximity to the Metrolinx Go Station. Following the construction of the new Transit Facility and the relocation of the Transit operations, construction of the Permanent Market and the Farmers Market can start. The construction of the Allandale Transit Hub will consist of a 2 storey transit building to house ticket counters, waiting areas, washrooms, offices and storage areas. Additionally, the site will include bus canopies and heated bus shelters. Additionally, for the Downtown, minor modifications would be made to the existing curbside parking spots at Maple Avenue to accommodate a lay-by bus stop on the east and west side of the road as well as a heated shelter on the west side of Maple Avenue as the Minor Hub. In addition, automatic ticket machines would be located within the future permanent market for quick and convenient sales to all transit riders.

Rationale: As outlined in the Allandale Mobility Hub Study completed in May of 2018 and Staff Report TPS003-18 dated June 11, 2018, moving the Transit Hub to a centralized location at the existing GO Train Station has been strategically planned as the location of the Allandale Transit Hub is situated on a natural crossroads at the head of Kempenfelt Bay. Allandale has been an important transportation hub for over 160 years. The return of rail service to Allandale Station in 2012 represented the beginning of the rejuvenation of the area's historic role in Ontario's transportation network. The start of electrified two-way, all-day service in 2024 will continue this progress by providing a fast, frequent, and reliable rapid transit connection to the rest of the Greater Golden Horseshoe. The site is ideally situated to host travel connections between the GTA, Simcoe County, Muskoka, and cities along the Georgian Bay coast. With its proximity to Barrie's rapidly growing south and designation by the Province as an Urban Growth Centre, Allandale is also well suited to serve as a central transportation hub for the city of Barrie. An expanded central bus terminal at Allandale Station builds on previous and planned strategic investments to advance the community's evolution into a modern intermodal and inter-regional mobility hub.

The relocation of the transit facility creates space in the downtown for a new farmers market and event space while consolidating the transit hub function at the GO Rail station to coincide with the arrival of all-day rail service. Reducing the footprint of the transit facility in the downtown while maintaining high service levels furthers the City's objectives for downtown revitalization. Investing in transportation and public realm amenities in the Allandale area advances the City's preparation for intensification and development in the area in the future. The new terminal further advances transportation plans to coordinate local and regional transit services with seamless connections. In addition, the Allandale Hub Strategy included for a mini hub that would be located at 24 Maple Ave (Current Transit Terminal).

Maintaining a downtown presence is important to the City of Barrie for the following reasons:

- a) Supports local businesses, downtown intensification, and the permanent market project by providing city-wide sustainable mobility.
- b) Enables a place for downtown residence to purchase tickets close to home or work.
- c) Provides a timed transfer location and thus enhanced mobility to downtown residents similar to what is offered today at the existing terminal.
- d) Limits the disruption to existing downtown riders.
- e) Provides a lay-by for routes to terminate downtown resulting in more efficient and flexible transit routing.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$10,235	\$10,470	\$8,908	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,612
Total	\$10,235	\$10,470	\$8,908	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,612

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Province of Ontario Grant Revenue	\$3,376	\$3,171	\$2,701	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,247
Government of Canada Grant Revenue	\$4,091	\$3,784	\$3,223	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,098
DC Reserves	\$535	\$703	\$597	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,834
Tax Capital Reserve	\$2,233	\$2,812	\$2,387	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,432
Total	\$10,235	\$10,470	\$8,908	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,612

2024 Capital Project Detail Report

Project Title: Allandale Historic Train Station Development

Project Number: FC1064

Department: Facilities Department

Summary: The current phase requested for archaeological consulting services at the Allandale Train Station site will have the City's Archaeologist of Record providing services that adhere to the Guidelines for Consultant Archaeologists, including but not limited to processing / inventory of archaeological material and associated documentation, surveying / mapping, liaising with all stakeholders, and presenting / reporting at each milestone / stage of the study.

Rationale: Allandale Train Station has been found to have potential archaeological significance and requires a full archaeological assessment prior to proceeding with any future development.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$6,145	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,895
Total	\$6,145	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,895

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Tax	\$3,046	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,046
Canada Community-Building Reserve	\$922	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$922
Tax Capital Reserve	\$2,178	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,928
Total	\$6,145	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,895

2024 Capital Project Detail Report

Project Title: ARC - Renewal Conceptualization Study & Site Preparations

Project Number: 001252

Department: Facilities Department

Summary: This project will complete the necessary due diligence, background study, programmatic review, and pre-design work required to properly maintain a good state of repair and make informed decisions to move this facility into the future. This work is being requested at the last responsible moment to inform the direction of necessary repairs and programmatic needs, addressing future electrical constraints and energy requirements among other areas.

Rationale: The Allandale Recreation Centre has almost reached the end of its useful life. Costly maintenance items are reoccurring each year without a clear vision for the future state of the arena. With upcoming major maintenance items such as the Electrical Substation Replacement, Roofing Replacement, Refrigeration & Rinks replacements, etc. a holistic vision is required to continuing providing the required programmatic services while properly maintaining the facility.

This work is the precursor to make informed decisions on the future of the Allandale Recreation Centre and ensure that future money invested to repair or replace assets is completed in a consistent and organized manner.

Annual reviews by Wilson High Voltage suggest that the main power substation should be replaced by 2026. Beginning this work now should see this work completed by 2027.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$0	\$0	\$250	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Forecast	\$0	\$0	\$0	\$0	\$0	\$150	\$1,000	\$0	\$0	\$0	\$0	\$1,150
Total	\$0	\$0	\$0	\$250	\$150	\$150	\$1,000	\$0	\$0	\$0	\$0	\$1,550

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$0	\$0	\$250	\$150	\$150	\$1,000	\$0	\$0	\$0	\$0	\$1,550
Total	\$0	\$0	\$0	\$250	\$150	\$150	\$1,000	\$0	\$0	\$0	\$0	\$1,550

2024 Capital Project Detail Report

Project Title: BFES Station 2 Renewal Review

Project Number: 001256

Department: Facilities Department

Summary: Staff require funding to review the options for renewal or relocation of Fire Station 2 on Bell Farm Road.

Rationale: Fire Station 2 requires significant renewal work and replacement of major assets. Based on the City's growth, the current location is no longer ideal for Fire response times to the northeast corner of Barrie. This project will review the service delivery and building condition to evaluate and recommend options for renewal or replacement.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Total	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Total	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50

2024 Capital Project Detail Report

Project Title: BFES Station 6 New Building Development

Project Number: FC1084

Department: Facilities Department

Summary: The development of a new Barrie Fire & Emergency Service Station 6 to serve the Hewitt's Secondary Plan area.

Rationale: The City as per Council direction will strive to develop/provide essential services in advance of build-out of future development areas. Station 6 that is planned to be located in the Mapleview Rd. and Prince William Way area will service the Hewitt's Secondary Plan Area. The Barrie Fire and Emergency Service has to have its services in place prior to the start of building to be able to service the planned developments. The existing stations cannot meet the needs of the annexed land area. Capital costs include obtaining property, design, construction, utilities, and fit-out. The Fire Master Plan - Update 2014- 2023 was prepared in response to the ongoing review of the Plan and due to the 2010 Annexation of southerly lands. One of the Intermediate Term Goals (3-5 Years) 2016-2018 identified is to construct Station 6.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$4,049	\$6,368	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,917
Total	\$4,049	\$6,368	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,917

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$3,993	\$6,368	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,861
Tax Capital Reserve	\$56	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$56
Total	\$4,049	\$6,368	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,917

2024 Capital Project Detail Report

Project Title: City Hall and Fire HQ Generator Replacement

Project Number: FC1297

Department: Facilities Department

Summary:

City Hall:

The existing 2 generator in City Hall are 30+ years old and are well past its life expectancy. The generators requires regular repairs and due to their age, repair parts are difficult to source. Should the generators fail, in the event of an emergency, repair parts could be difficult to attain leaving City Hall without backup power for an extended period of time. It is crucial that the generators at City Hall remain in good repair to ensure that in an emergency, backup power is always available. Required are 3 new 150KW generators.

Fire HQ:

The two (2) generators at Barrie Fire Headquarters have required significant amount of maintenance over the last few years. A generator replacement is required to have the necessary backup power to our Fire Headquarters in the event of an emergency.

Rationale:

City Hall:

The existing 2 generator in City Hall are 30+ years old and are well past its life expectancy. The generators requires regular repairs and due to their age, repair parts are difficult to source. Should the generators fail, in the event of an emergency, repair parts could be difficult to attain leaving City Hall without backup power for an extended period of time. It is crucial that the generators at City Hall remain in good repair to ensure that in an emergency, backup power is always available. Required are 3 new 150KW generators.

Fire HQ:

Fire Headquarters two (2) existing generators have reached the end of their useful lifecycle and have had repeated failures over the recent years. Maintenance has been ongoing to keep the equipment operational but has since exceeded the recommended cost and repair threshold. The generators require immediate replacement. Given the age and deteriorated condition of the generators, other lifecycle strategies (status quo, do nothing/run to failure, operate/maintain differently, and/or rehabilitate/refurbish) are not expected to significantly extend the existing remaining life of the equipment. Operational and maintenance costs are anticipated to increase while service levels are anticipated to remain the same or decrease; at the same time, risk assumed by the City will increase as physical condition continues to deteriorate and probability of failure becomes greater. Replacing the existing two (2) generators with a new more reliable units will result in lower overall operating costs.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$700	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,700
Total	\$700	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,700

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$70	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170
Tax Capital Reserve	\$630	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,530

Total	\$700	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,700
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2024 Capital Project Detail Report

Project Title: City Hall Carpet Replacement

Project Number: Z784

Department: Facilities Department

Summary: Carpet is in poor condition causing a trip hazard to staff and public and is also very odorous.

Rationale: The carpet is approaching the end of its lifecycle and may become a health and safety issue. The first phase will be the 2nd Floor common area and subsequent phasing will be determined based on condition. Staff have done their best to extend the life including patch and repair since this project was originally differed. Large areas are in need of replacement to prevent trips, falls and hazardous working conditions.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$25	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175
Total	\$0	\$25	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$25	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175
Total	\$0	\$25	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175

2024 Capital Project Detail Report

Project Title: City Hall Redevelopment

Project Number: FC1139

Department: Facilities Department

Summary: Complete full floor renovations (floor by floor) at City Hall to increase the occupancy and make more efficient use of each floor to ensure City Hall has the capacity to accommodate the anticipated growth of the City of Barrie and City Hall.

Rationale: The existing City Hall facility is at capacity and does not have space for future growth. A proactive approach will ensure that the corporation is able to optimize service delivery to the residents of Barrie by supporting functionality and growth accommodations for staff and the public.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,232	\$2,121	\$1,170	\$1,196	\$1,222	\$0	\$0	\$0	\$0	\$0	\$0	\$6,941
Total	\$1,232	\$2,121	\$1,170	\$1,196	\$1,222	\$0	\$0	\$0	\$0	\$0	\$0	\$6,941

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$491	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$491
Voluntary Contributions Reserve	\$88	\$274	\$117	\$120	\$122	\$0	\$0	\$0	\$0	\$0	\$0	\$721
Tax Capital Reserve	\$652	\$1,847	\$1,053	\$1,076	\$1,100	\$0	\$0	\$0	\$0	\$0	\$0	\$5,728
Total	\$1,232	\$2,121	\$1,170	\$1,196	\$1,222	\$0	\$0	\$0	\$0	\$0	\$0	\$6,941

2024 Capital Project Detail Report

Project Title: Climate Change Mitigation and Energy Efficiency Action Fund (Phase 2)

Project Number: 001188

Department: Facilities Department

Summary: The Climate Change Mitigation and Energy Efficiency Action program (Phase 2) will fund energy efficiency and greenhouse gas (GHG) emissions mitigation activities. The funding will support energy efficiency projects to assist in achieving the targets outlined in the Conservation and Demand Management (CDM) Plan and Community Energy & Greenhouse Gas Emission Reduction Plan. Additionally, the program will support the delivery of GHG emission reduction projects in an effort to meet federal reduction targets and soon to be established corporate reduction targets. The funding will also be utilized to support capacity building and finance feasibility studies and strategy development that further climate change mitigation, energy efficiency and sustainability objectives of the corporation. This funding will generate operational cost savings from the implementation of energy efficiency projects and GHG emission reduction through the delivery of climate change mitigation initiatives.

The first phase of the fund was anticipated to operate over a three-year period (2022 - 2024). However, accelerated project delivery for corporate and community mitigation program implementation utilized phase 1 funding early. As a benefit, Staff were able to successfully apply and receive \$325,000 in funding associated with these projects almost equal to the initial phase 1 request of \$350,000.

Rationale: The phase 2 funding will support energy efficiency projects to assist in achieving the targets outlined in the Conservation and Demand Management (CDM) Plan and Community Energy & Greenhouse Gas Emission Reduction Plan. Staff are developing a corporate net zero emissions strategy and the program will support the delivery of GHG emission reduction projects in an effort to meet federal reduction targets and soon to be established corporate reduction targets. The funding will also be utilized to support capacity building and finance feasibility studies and strategy development that further climate change mitigation, energy efficiency and sustainability objectives of the corporation and community. This funding will generate operational cost savings from the implementation of energy efficiency projects and GHG emission reduction through the delivery of climate change mitigation initiatives.

As a whole the Energy Management Branch provided a return of investment (ROI) of 12% to the corporation through the delivery period of the first CDM plan (2014 - 2018). These energy savings were in part driven by multi-year capital funding projects that allowed Staff to target energy efficiency projects that had a minimum ROI of 10%. For this funding program, projects targeting energy efficiency will continue to require a minimum ROI of 10%, while initiatives that reduce GHG emissions will utilize a cost per tonne of GHG emissions metric. Utilizing these metrics to identify and implement projects allows staff to target initiatives that provide the greatest payback and largest GHG emission reduction.

Capital investment in energy efficiency activities provide a return on investment and are known to reduce operating costs. This fund will continue to support Energy Management conservation activities to reduce the operating impact of utility inflationary cost pressures and moderate the effect of growth in the City's infrastructure and building portfolios. Funding from this program that targets energy efficiency will require a minimum ROI of 10%.

This program will also fund climate change mitigation action to reduce greenhouse gas emissions. The introduction of the federal carbon tax is increasing fossil fuel sourced energy dramatically. In the case of natural gas, the commodity price is scheduled to increase 123% between 2020 and 2030. Investing in projects that reduce the reliance of fossil fuels will reduce greenhouse gas emissions, but also buffer against the impact of rising carbon prices. Furthermore, significant government funding streams have recently been introduced that support the delivery of climate mitigation measures for municipalities. These grants often require matching funding, and this program will allow the City to maximize these revenue streams to offset the cost of project implementation.

PROJECT EXPENDITURE AND FUNDING**Expenditure (in 000's):**

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Total	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Canada Community-Building Reserve	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Total	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200

2024 Capital Project Detail Report

Project Title: Corporate High Security

Project Number: 001225

Department: Facilities Department

Summary: Annual program to improve the state of security across Corporate Facility Assets.

Rationale: Program will include Security Review, infrastructure updates, camera improvements, facility upgrades to improve overall physical security to improve base building and staff safety.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Forecast	\$0	\$0	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$0	\$200	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$600

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$200	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$600
Total	\$0	\$200	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$600

2024 Capital Project Detail Report

Project Title: Downtown Theatre- Security & Fire Safety Upgrades

Project Number: 001208

Department: Facilities Department

Summary: This project is to improvement the security and fire safety elements of the building.

Rationale: City staff and event staff utilize rear entrances to load and unload equipment, prepare for events and maintain the facility. Theft and public disturbance issues cause impacts to City events and day to day operations. This project will improve the existing functionality by integrating fire and life safety elements as well as providing both proactive and reactive security measures to the facility.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$115
Total	\$0	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$115

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$115
Total	\$0	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$115

2024 Capital Project Detail Report

Project Title: EBCC - Gymnasium Floor Rehabilitation

Project Number: 000255

Department: Facilities Department

Summary: East Bayfield Community Centre gymnasium floor refurbishment.

Rationale: The gym floor at EBCC has passed the end of its useful life. Without a complete refurbishment, this program area will need to be shutdown due to its condition.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80
Total	\$0	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80
Total	\$0	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80

2024 Capital Project Detail Report

Project Title: EMS Campus - Solar PV Installation

Project Number: FC1312

Department: Facilities Department

Summary: Installation of a roof-top solar PV system at the EMS Campus to generate renewable energy in the form of electricity, offset hydro expenses and reduce greenhouse gas emission.

Rationale: Renewable energy generation is a key component for the City's efforts to achieve carbon neutrality. Installation of a solar PV system provides an economic return by reducing operating costs (\$80K+ annually) greenhouse gas emissions, while producing a return on investment for the corporation.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$225	\$1,275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500
Total	\$225	\$1,275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$23	\$128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Tax Capital Reserve	\$203	\$1,148	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,350
Total	\$225	\$1,275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500

2024 Capital Project Detail Report

Project Title: Facilities Forecasted Needs

Project Number: 000474

Department: Facilities Department

Summary: Facilities Rolled Up Forecasted Needs (2022 - 2026)

Rationale: Roll-up of forecasted facility renewal needs for future cashflow / planning purposes.

In the interests of Corporate affordability, the Facilities Planning and Development branch have reduced the amount of renewal requests for 2024 and future years. All critical projects have unique project requests but for less critical assets that have reach the end of their useful life, this project will provide critical funding to act quickly and prevent major downtime.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$3,557	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,557
Forecast	\$0	\$0	\$7,810	\$10,016	\$4,785	\$4,893	\$3,200	\$3,400	\$3,600	\$3,800	\$0	\$41,504
Total	\$0	\$3,557	\$7,810	\$10,016	\$4,785	\$4,893	\$3,200	\$3,400	\$3,600	\$3,800	\$0	\$45,061

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$0	\$1,570	\$586	\$422	\$326	\$0	\$0	\$0	\$0	\$0	\$0	\$2,904
Marina Reserve	\$0	\$0	\$54	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$54
Tax Capital Reserve	\$0	\$1,709	\$6,667	\$9,594	\$4,394	\$4,861	\$3,200	\$3,400	\$3,600	\$3,800	\$0	\$41,225
WW Capital Reserve	\$0	\$258	\$436	\$0	\$29	\$32	\$0	\$0	\$0	\$0	\$0	\$755
Water Capital Reserve	\$0	\$20	\$68	\$0	\$36	\$0	\$0	\$0	\$0	\$0	\$0	\$123
Total	\$0	\$3,557	\$7,810	\$10,016	\$4,785	\$4,893	\$3,200	\$3,400	\$3,600	\$3,800	\$0	\$45,061

2024 Capital Project Detail Report

Project Title: Facility Condition Assessment (Active)

Project Number: FC1276

Department: Facilities Department

Summary: A Facility Condition Assessment (FCA) Program is required to develop and maintain accurate information of the condition, and capital repair costs of the City's facility assets. The goal of the assessments are to determine the condition of the building elements and to provide information to gain an understanding of the twenty (20) year capital requirements, Current Replacement Value (CRV) and Facility Condition Index (FCI) in order to continue to operate the building in a good state of repair.

Rationale: The FCA's will be completed on an annual basis, focusing on a group of facilities within a specific portfolio (Recreation, Emergency Services, Environmental, Operations, Corporate, Marina, Library). The information summarized in these FCA's is critical in informing the Capital plan and forecasting anticipated replacements and their cost.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$225	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$525
Total	\$225	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$525

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Canada Community-Building Reserve	\$169	\$113	\$113	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$394
DC Reserves	\$19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19
Tax Capital Reserve	\$38	\$38	\$38	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$113
Total	\$225	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$525

2024 Capital Project Detail Report

Project Title: Fire HQ - Roofing Replacement

Project Number: 001255

Department: Facilities Department

Summary: Design and construction to replace the existing TPO roofing system.

Rationale: The existing TPO roofing system has failed. With access required to the building rooftop for routine maintenance on the building envelope and equipment, the TPO roofing system wore much faster than anticipated. Understanding the maintenance and wear patterns, a built-up roofing system will be design and installed to better suit this type of facility.

Without full replacement, leaks will lead to additional issues such as indoor environmental and mold concerns or downtime to emergency services with limited or no backup.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$100	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000
Total	\$0	\$100	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$100	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000
Total	\$0	\$100	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000

2024 Capital Project Detail Report

Project Title: Furniture and Space Upgrades (Active)

Project Number: FC1277

Department: Facilities Department

Summary: This Capital Program is intended to support unplanned furniture and space upgrades throughout the City.

Rationale: As the City continues to grow, its services and spaces must evolve as well. This program will support furniture and space upgrades required for aging furniture and redesign of office space to create required efficiencies for new and existing staff.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$250	\$200	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$850
Total	\$250	\$200	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$850

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$18	\$20	\$20	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$78
Tax Capital Reserve	\$233	\$180	\$180	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$773
Total	\$250	\$200	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$850

2024 Capital Project Detail Report

Project Title: Hewitt's Community Centre New Building Development

Project Number: FC1085

Department: Facilities Department

Summary: Development and construction of a new community centre in the Hewitt's Creek Secondary Plan area that is based on the Holly Community Centre model as per the 2013 Parks & Recreation Growth Strategy (July 9, 2013).

Rationale:

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$102	\$39,750	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$41,352
Forecast	\$0	\$0	\$30,000	\$50,000	\$50,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$150,000
Total	\$102	\$39,750	\$31,500	\$50,000	\$50,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$191,352
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$92	\$22,383	\$31,500	\$50,000	\$50,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$173,975
Cash-In-Lieu Parkland Reserve	\$0	\$17,367	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,367
Tax Capital Reserve	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10
Total	\$102	\$39,750	\$31,500	\$50,000	\$50,000	\$20,000	\$0	\$0	\$0	\$0	\$0	\$191,352

2024 Capital Project Detail Report

Project Title: MacLaren Art Center Window Replacement

Project Number: FC1275

Department: Facilities Department

Summary: The large windows at the McClaren Art Center are at the end of their life cycle. Many of the seals on the windows have failed and the windows require replacing. Staff are requesting funds for a window replacement project to replace windows on an as needed basis over 4 years starting in 2022.

Rationale:

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$100	\$250	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$100	\$250	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$100	\$250	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$100	\$250	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

2024 Capital Project Detail Report

Project Title: Main Library Rear Fire Exit Enclosure

Project Number: 001281

Department: Facilities Department

Summary: Illuminate and enclose the rear steps into the basement of the Main Library.

Rationale: The rear steps into the lower level are wide open for public access. It has become a health and safety issue for staff to use this entrance to complete daily tasks to operate and maintain the building. In order to regain some efficiency and prevent and health and safety issues, staff are requesting funding to illuminate and enclose the rear basement entrance.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$50	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Total	\$0	\$50	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$50	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Total	\$0	\$50	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

2024 Capital Project Detail Report

Project Title: Marina Facility Refurbishment & Expansion

Project Number: FC1233

Department: Facilities Department

Summary: The existing Administration Building along the waterfront serves the Marina and its patrons. It is used during the spring, summer, and fall months as an office and washroom building. There are current health and safety issues and the building is in desperate need of refurbishment. The building does not meet current fire, electrical or AODA standards, nor does it properly serve the Marina Patrons any longer. Replacing the current building with a year round building that meets current codes, standards, and Marina patron needs is required.

Rationale: The Marina Administration Building is used as a location for the operations of the City's Marina. It centralizes operations for the loading and unloading areas, collecting of fees and forms, gas supply and informational booth. Currently it is used for the spring, summer and fall months however there are substantial operation costs and inefficiencies to shutting down for the winter season. A new building is proposed within the same proximity as the existing building however would have additional functions such as year round public washrooms. The Administration building needs to be upgraded to facilitate better accessibility and customer service to the public as well as for health, safety and efficiencies for the Marina. The building does not meet required codes for Fire, Electrical or AODA Standards. It is proposed to construct a building that includes year round office space for the Marina Coordinator, a working area for the Marina staff, washrooms for the Marina patrons and storage. This would replace both the existing gas dock kiosk and the administration/washroom building.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$122	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$922
Total	\$122	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$922

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Marina Reserve	\$122	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$922
Total	\$122	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$922

2024 Capital Project Detail Report

Project Title: Marina Fueling & Pump Out Replacement

Project Number: Z826

Department: Facilities Department

Summary: Replace the parts and components of the fueling systems and pump out for the Marina Gas Dock.

Rationale: The fueling system and pump out is required in order to service the boats and generate revenue in the Marina. Several components have already failed leading to a temporary system being in place currently. This system generates an average of \$100k annually toward the Marina Reserve fund that won't continue unless this project moves forward.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$65
Total	\$0	\$65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$65

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Marina Reserve	\$0	\$65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$65
Total	\$0	\$65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$65

2024 Capital Project Detail Report

Project Title: Marina 'L' Dock Expansion

Project Number: 001259

Department: Facilities Department

Summary: Expansion of the existing Marina docking system.

Rationale: The Marina can generate additional revenue and increase efficiency and organization of the docking system by completing this project. Additionally, this work will reduce the wait list to serve more of Barrie's residents.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550
Total	\$0	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Marina Reserve	\$0	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550
Total	\$0	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550

2024 Capital Project Detail Report

Project Title: Marina Pedestal Replacements

Project Number: 001260

Department: Facilities Department

Summary: Replacement and improvements to the Marina waterfront pedestals.

Rationale: The majority of pedestals at the Marina are over 37 years old and well passed their useful life. Several failures over the last year have led to legislative orders for replacement and significant downtime costing the Marina valuable income. This project will procure and install a consistent utility pedestal, complete improvements, and replacements of the pedestal infrastructure on an annual basis during off seasons.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$100	\$100	\$100	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$500
Total	\$0	\$100	\$100	\$100	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$500

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Marina Reserve	\$0	\$100	\$100	\$100	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$500
Total	\$0	\$100	\$100	\$100	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$500

2024 Capital Project Detail Report

Project Title: Operations Centre Master Plan - Land Purchase

Project Number: FC1262

Department: Facilities Department

Summary: Property purchase for a co-located site of various municipal services and facilities to accommodate for growth, better serve the residents of the secondary plan area and be the catalyst for the realization of operational savings.

Rationale: In 2012 Council adopted motion 12-G-315 to support a ‘Sustainable Waste Management Strategy’. This 20 year strategy dealt with the future growth of the City into the Annexed Lands as well as creating more efficient and environmentally sustainable ways of addressing the City’s solid waste. The approval of this project would allow staff to continue along this path by providing more adequate access to residents in the south end of Barrie as well as expand upon the City’s current recycling and waste diversion programs. In addition, Council adopted a motion in June of 2016 based on Staff Report FCT003-16 to accept an Operational Service Delivery Model that was based on having two centralized locations. While the existing 165 Ferndale Drive site would remain the primary site for Roads, Parks, Fleet and Traffic operations and be redeveloped to more adequately provide services to the North and Downtown areas; a new South End Yard is required to support Roads, Parks, Fleet and Traffic operations in a much closer proximity to where the services are being used. The approval of this project would allow staff to purchase an adequate parcel of land in the south end which will provide the residents with better roads, parks and fleet operational services with a future operational cost savings. Staff have identified a centralized property in the south end that not only meets the size requirements, but is already properly zoned and contains an active waste management Environmental Compliance Approval through the Ministry of the Environment, Conservation and Parks. This property will be listed for sale in 2021 and it is crucial that we are prepared to act when that times comes. Acquiring a property with the appropriate paperwork in order to operate a landfill or waste transfer station would save an abundance of time and the lengthy MOE approval process that would otherwise be required.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$14,000	(\$13,980)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20
Forecast	\$0	\$0	\$13,980	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,980
Total	\$14,000	(\$13,980)	\$13,980	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,000

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$14,000	(\$13,980)	\$13,980	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,000
Total	\$14,000	(\$13,980)	\$13,980	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,000

2024 Capital Project Detail Report

Project Title: Operations Centre Master Plan Implementation

Project Number: FC1124

Department: Facilities Department

Summary: The 50-year-old R.A. Archer Operations Centre requires major redevelopment to replace obsolete infrastructure, maximize operational efficiencies and support expanded Roads, Parks, Fleet and Traffic operations for the Hewitt and Salem lands.

Rationale: The Operations Master Plan Project originated in 2015 with an identified need for growth to accommodate the Hewitt and Salem Secondary Plan lands as well as replace aged, inefficient infrastructure on the current 165 Ferndale Drive site. A Master Plan for the City's Roads, Parks, Fleet and Traffic Operations was undertaken and presented to Council in 2016 (FCT003-16) which established the future service delivery model. In 2017, a subsequent study was completed to identify an appropriate parcel of land in the Salem and Hewitt secondary plan lands to fulfill the proposed service delivery model. In June 2018 a report was delivered to the Infrastructure, Investment and Development Services Committee (IIDSC) with motion 18-G-158 providing approval to continue the implementation of the Operations Master Plan. While the original Master Plan report identified a major renovation of the R.A. Archer Centre, the 2018 IIDSC report updated this to a full replacement following a review of the logistics and cost associated with renovating the existing structure. Subsequent to that report, the City has invested as little as possible on the existing facility.

The existing R.A. Archer Operations Centre was built almost 50 years ago when the city was a fraction of its current size. The master plan completed in 2016 looked at several options available to support city growth and concluded that the Ferndale site itself is well placed geographically for continued operations if supported by an operations yard in the Salem area. Core Roads, Parks and Fleet operations will continue to be based out of Ferndale while the south operations yard will provide a local base to house winter control materials and equipment such as sidewalk plows needed to support the Salem and Hewitt communities.

This year staff have completed the design for a much needed Sand / Salt dome that will also house the City's winter roads control vehicles and materials and the 2020 budget request will fund the construction of this building as well as the reconfiguration of site elements to support future redevelopment. Staff are also in the midst of finalizing an updated Operations Master Plan Feasibility Study that will address operational efficiencies, site logistics, security and propose the phased replacement of failed on site infrastructure while maintaining all essential City services to its residents. This project will carry out the entire Operations Master Plan including both a redevelopment of 165 Ferndale Drive as well as the development of a new campus style, south end yard.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$16,950	\$14,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$31,450
Total	\$16,950	\$14,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$31,450

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$5,185	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,185
Debenture Proceeds - Tax	\$9,361	\$7,654	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,015

DC Reserves	\$2,404	\$6,846	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,250
Total	\$16,950	\$14,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$31,450

2024 Capital Project Detail Report

Project Title: Operations Centre Redevelopment - Phase 2 Implementation

Project Number: 001202

Department: Facilities Department

Summary: This request is to proceed with a Phase 2 for the previously approved project (FC1124) with scheduled Phase 1 to be complete in 2024. This project would include the planning and implementation for additional redevelopment of the RA Archer Operations Centre in an efficient manner with the long-term objectives in mind as well as the initial development of a Satellite Facility in coordination with FC1262. A complete report and supporting documentation are attached for additional information.

Rationale: The Operations Master Plan Project originated in 2015 with an identified need for growth to accommodate the Hewitt and Salem Secondary Plan lands as well as replace aged, inefficient infrastructure on the current 165 Ferndale Drive site. A Master Plan for the City's Roads, Parks, Fleet and Traffic Operations was undertaken and presented to Council in 2016 (FCT003-16) which established the future service delivery model. In 2017, a subsequent study was completed to identify an appropriate parcel of land in the Salem and Hewitt secondary plan lands to fulfill the proposed service delivery model. In June 2018 a report was delivered to the Infrastructure, Investment and Development Services Committee (IIDSC) with motion 18-G-158 providing approval to continue the implementation of the Operations Master Plan. While the original Master Plan report identified a major renovation of the R.A. Archer Centre, the 2018 IIDSC report updated this to a full replacement following a review of the logistics and cost associated with renovating the existing structure. Subsequent to that report, the City has invested as little as possible on the existing facility.

The existing R.A. Archer Operations Centre was built over 50 years ago when the city was a fraction of its current size. The master plan completed in 2016 looked at several options available to support city growth and concluded that the Ferndale site itself is well placed geographically for continued operations if supported by an operations yard in the Salem area. Core Roads, Parks and Fleet operations will continue to be based out of Ferndale while the south operations yard will provide a local base to house winter control materials and equipment such as sidewalk plows needed to support the Salem and Hewitt communities.

Phase 2 work will support the much needed replacement of failed and failing assets at 165 Ferndale Drive as well as begin the clearing and development of a Satellite Yard which will help to reduce service times and operational costs by providing operational assets closer to the locations in which they are required.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$500	\$19,000	\$11,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,500
Total	\$0	\$500	\$19,000	\$11,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,500

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$0	\$250	\$9,500	\$5,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,250
Tax Capital Reserve	\$0	\$250	\$9,500	\$5,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,250

Total	\$0	\$500	\$19,000	\$11,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,500
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2024 Capital Project Detail Report

Project Title: Parks Public Washroom Rehabilitation Program (Active)

Project Number: 001237

Department: Facilities Department

Summary: Continuation of the Parks Public Washroom Upgrade Program started in 2020. This program was placed on hold due to COVID but conditions have continued to deteriorate and major upgrades are required to keep this facilities operational.

Rationale: This program was placed on hold due to COVID but conditions have continued to deteriorate and major upgrades are required to keep this facility operational. Without major investment, the facilities will begin to close. This program is intended to maintain safe, operational buildings until a Master Plan and long-term direction can be established by the Parks Planning branch.

Extend the life of washroom facilities that are in much need of replacement. The funds will be used to complete larger capital base building refurbishment in order to extend the life of these assets and hold off the larger replacements for a few more years. Many of these building have only received operational repairs and cleaning to keep them functional and the structures and components which have gone relatively untouched now require replacement or refurbishment.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$250	\$250	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750
Total	\$0	\$250	\$250	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Cash-In-Lieu Parkland Reserve	\$0	\$250	\$250	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750
Total	\$0	\$250	\$250	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750

2024 Capital Project Detail Report

Project Title: Recreation Centres - Refrigeration End of Life Renewals

Project Number: Z827

Department: Facilities Department

Summary: Several components of the refrigeration systems at Eastview Arena, Sadlon Arena, Allandale Recreation Centre and Peggy Hill CC have reached the end of their useful life. Replacement of pumps, piping, valves, etc. are all essential to the operation of the rinks at each of these facilities.

Rationale: Several rink refrigeration components at Eastview Arena, Sadlon Arena, Allandale Recreation Centre and Peggy Hill CC have all reached the end of their useful life or are already being maintained well past their useful life. If any one of these components fail, it would mean downtime for the rinks at each of these facilities including potentially the Barrie Colts hockey season. This project will address the replacement of these critical components also saving the corporation significant funds should a failure lead to an issue with the entire refrigeration system causing multi-million dollar damage.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$0	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$0	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

2024 Capital Project Detail Report

Project Title: SWTP - Flooring Renewal

Project Number: 001257

Department: Facilities Department

Summary: Replace and refurbish flooring throughout the Surface Water Treatment Plant.

Rationale: This request for an annual program will allow staff to refurbish or replace flooring areas most in need. A lot of hard surface and polished concrete is beginning to fail which, if left unaddressed, could lead to structural issues such as premature failure of rebar, or health and safety concerns such as trips and falls, etc. Currently the consequence of failure is low but will increase year over year. In order to maintain a state of good repair and prevent larger expenses in the future, a small capital request is required.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$100	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Total	\$0	\$100	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water Capital Reserve	\$0	\$100	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Total	\$0	\$100	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200

2024 Capital Project Detail Report

Project Title: Transient Marina Security Upgrades

Project Number: 001258

Department: Facilities Department

Summary: Perform upgrades to the physical security equipment and infrastructure.

Rationale: Theft and physical safety occurrences are a significant concern at the transient marina, particularly overnight. This project would install a security gate system similar to those installed on the main marina docks that can be closed and secured overnight when transient marina guests are sleeping. The gates would remain open during the day to allow public access and use.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90
Total	\$0	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Marina Reserve	\$0	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90
Total	\$0	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90

2024 Capital Project Detail Report

Project Title: WWTF Building Envelope & Brick Repair

Project Number: FC1167

Department: Facilities Department

Summary: The Secondary Digester Tank at the Waste Water Treatment Facility has an insulated exterior wall assembly (façade) that has failed. The currently condition of the façade is severely deteriorated which poses a risk to health and safety of workers as well as the process within the tank. An emergency procurement request is underway in 2019 to address the immediate health and safety concern. A Capital Status Request will also be put forth in 2019 to complete a detailed design and cost analysis for a permanent solution. This request is to earmark funding for the full removal and replacement of the insulated exterior wall assembly on the Secondary Digester Tank.

Rationale: The secondary digester was constructed in 1977 (42 years old) and is the only secondary digester on site. The secondary digester tank forms part of the wastewater solids treatment process. The residual solids removed from the municipal wastewater stream are anaerobically digested through a two-stage process in which the material is stabilized by eliminating/reducing pathogens, odour and organic mass. The first stage is the primary step where the primary digesters are heated to approximately 37 degrees C and mixed to initiate a high rate of stabilization and methane gas production. The second step flows through the secondary digester which a sealed unheated quiescent treatment tank where the material completes the stabilization process. The resulting bio-solids are gravity thickened prior to transfer to either agricultural land or the storage facility in Oro-Medonte. The insulated exterior wall assembly is crucial to keeping the sludge at 37 degrees C and maximizing the effectiveness of treatment process, especially during winter months.

The drip edge and methods to prevent water infiltration have failed which has allowed water to penetrate through the insulated exterior wall assembly. The results are completely saturated insulation which will no longer provide an insulating factor, severely deteriorated brick ties and spalling bricks both of which pose a health and safety risk of falling bricks. Infrared scanning of the insulated exterior wall assembly has confirmed that the insulation behind the brick is completely saturated and no longer effective which is why a full removal and replacement is being recommended.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$420	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$620
Total	\$420	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$620
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
WW Capital Reserve	\$420	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$620
Total	\$420	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$620

2024 Capital Project Detail Report

Project Title: WWTF Innovation Center

Project Number: FC1215

Department: Facilities Department

Summary: Replacement of the WWTF Administration building including laboratory and support space away from the plant inlet. This is required to be completed in advance of work scheduled to expand plant capacity, which is necessary to support city growth.

Rationale: The existing Administrative Building at the WWTF site was constructed in 1979 over top of existing concrete tanks at the head end of the wastewater inlet side of the existing treatment facility. It includes a laboratory and administrative space as well as a garage, fabrication and storage space. The existing structure is approximately 14,000 square feet including a temporary site trailer that will be replaced as part of this scope of work. The relocation of the Administrative Building and its functions is required to accommodate the additional capacity and flows of wastewater resulting from city growth. As it is currently anticipated the plant will reach capacity by 2031, not only does this relocation project need to be complete but all process projects dependent on the relocation of the Administrative Building will also need to be complete. The Wastewater Operations branch has legislative requirements for advance wastewater treatment, testing, reporting and process controls that cannot be interrupted. The planning, design and construction of a new Administrative Facility will coincide with many other Engineering and Wastewater Operational activities to prepare to meet new legislation and increase capacity. The timing of this project is crucial and has been aligned for completion prior to 2025 in order to allow for the start of the required hydraulic expansion of the WWTF.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$7,175	\$1,750	\$16,075	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
Total	\$7,175	\$1,750	\$16,075	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$3,840	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,840
DC Reserves	\$728	\$1,120	\$10,288	\$3,200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,336
WW Capital Reserve	\$2,608	\$630	\$5,787	\$1,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,825
Total	\$7,175	\$1,750	\$16,075	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000

2024 Capital Project Detail Report

Project Title: Long Range Financial Plan 2024

Project Number: 001278

Department: Finance Department

Summary: The City's Finance Policy Framework is to be updated with each term of Council through an updated Long Range Financial Plan (LRFP). The inputs for the updated LRFP will include the recently completed Asset Management Plans, Development Charges (DC) by-law, Community Benefits Charges (CBC) by-law, Parkland Dedication by-law and the City's Credit rating.

Rationale: The City continues to grow, both in size and complexity. An important revenue source for growth in the City is Development Charges, which are highly variable as well as Tax revenues which are needed for growth and renewal. The expected collections received drive our reserve levels which dictate the level of the Capital plan for the City.

An updated Development Charges (DC) by-law was passed in June 2023, which incorporated the impacts of Bill 23, as well as a CBC bylaw on the same date and a Parkland bylaw is anticipated in the Fall. Asset Management Plans for most of the infrastructure have also been completed in the last few years.

At this time, the City has the most up-to-date information it requires on the revenue and expense sides to allow for a more informed Long-Range Financial Plan to be undertaken. Having this study performed now will aid in the decision making process for Council and departments

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Total	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140
Water Rate Stabilization Reserve	\$0	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30
WW Rate Stabilization Reserve	\$0	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30
Total	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200

2024 Capital Project Detail Report

Project Title: SAP Finance Sustainment Program (Active)

Project Number: FI1030

Department: Finance Department

Summary: Sustainment of the SAP system by external consultants, when required, to remedy system issues or assist in improving functionality

Rationale: In order to ensure SAP is available, optimally functioning and is configured appropriately there are occasions when external third party consulting companies are engaged to assist.
These companies are awarded contracts based on an RFP process and are engaged on an as needed basis.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$186	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$286
Forecast	\$0	\$0	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Total	\$186	\$100	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$486

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$10	\$10	\$10	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Tax Capital Reserve	\$137	\$90	\$90	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$407
WW Capital Reserve	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17
Water Capital Reserve	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17
Parking Capital Reserve	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4
Total	\$186	\$100	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$486

2024 Capital Project Detail Report

Project Title: Utility Billing Software

Project Number: FI1031

Department: Finance Department

Summary: The City of Barrie is growing City that requires a tax and water billing solution that enables staff to effectively bill and collect payments. As the City of Barrie grows, so does the # of accounts and complexity in billing different property types (mixed-use high-rise properties, etc.). The current systems are outdated and do not meet the needs of residents and staff.

Rationale: One database will drive so many efficiencies as efforts are being duplicated to manage two separate systems. Instead of having to do manual processes and duplication of work, staff can spend more time on proactive customer/account management, collections, analysis and reporting. A more robust and updated system but it will lead to operational efficiencies and cost savings down the road. A new, modernized system will better position staff to provide timely and efficient customer service.

Both utility systems are not integrated with SAP. This requires manual updates and intervention to post transactions. Great Plains is nearing the end of its useful life and requires mapping of General Accounts and Cost Centre to SAP. Customers cannot pay for utility fees using the City’s website. These systems are not integrated with the pin pad terminals to facilitate payments. The utility billing proposal is to issue an RFP by December 2023 for new tax billing software with consideration to include water billing as well.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,007	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,557
Forecast	\$0	\$0	\$800	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000
Total	\$1,007	\$550	\$800	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$2,557

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$55	\$55	\$80	\$10	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$210
Tax Capital Reserve	\$746	\$495	\$720	\$90	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$2,141
WW Capital Reserve	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$91
Water Capital Reserve	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$91
Parking Capital Reserve	\$23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23
Total	\$1,007	\$550	\$800	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$2,557

2024 Capital Project Detail Report

Project Title: HR Software Modernization

Project Number: HR1001

Department: Human Resources

Summary: The modernization of human resources software systems to bring HR Technology at the City of Barrie up to a standard that other municipalities of a similar size are already benefiting from. The lack of these systems causes a significant amount of manual work around the corporation, work that if automated, would save supervisors in all departments time and energy, which in turn could be re-invested towards City goals and improved service delivery for Barrie citizens.

In a study of organizations that have implemented SAP SuccessFactors, the implementation of this integrated software resulted in a reduction of the time that line managers spend on HR administration by an average of 54%. The time required to fill vacant positions decreased an average of 40%, and the time required to onboard new employees was reduced by an average of 75%. These time savings by line management would allow for greater focus on citizen experience and program delivery.

As the City moves forward with the goal of improving citizen experience and ensuring administrative processes are streamlined, having the proper HR technology to be successful in these initiatives is essential.

Rationale: In the Spring of 2022, the Human Resources Department Leadership Team, led by the new Director of Human Resources, held consultations with all senior leaders across the corporation on what they would like to see in terms of the role that the human resources department plays within the corporation. One of the main themes identified in consultation with senior leaders was the need to update HR technologies, in order to create efficiencies, streamline time consuming manual administration and enhance customer service both internally and externally.

This capital project request therefore, is for the dollars to fund costs to bring HR Technology at the City of Barrie up to a standard that other municipalities of a similar size are already benefiting from, and reduce time spent on administrative tasks expected of operations supervisors, increase legislative compliance in terms of policy roll out and adherence, increase levels of productivity of all staff across the corporation and improve customer service both to our own staff as well as Barrie citizens.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$387	\$409	\$471	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,266
Forecast	\$0	\$0	\$150	\$407	\$167	\$0	\$0	\$0	\$0	\$0	\$0	\$724
Total	\$387	\$409	\$621	\$407	\$167	\$0	\$0	\$0	\$0	\$0	\$0	\$1,990

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$19	\$41	\$439	\$41	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$556
Tax Capital Reserve	\$278	\$368	\$182	\$366	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$1,345
WW Capital Reserve	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40

Water Capital Reserve	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Parking Capital Reserve	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10
Total	\$387	\$409	\$621	\$407	\$167	\$0	\$0	\$0	\$0	\$0	\$0	\$1,990

2024 Capital Project Detail Report

Project Title: SAP Payroll Sustainment Program (Active)

Project Number: HR1000

Department: Human Resources

Summary: Capital budget to ensure the City's ERP system (SAP) is maintained with both legislatively required changes that occur each year, as well as software updates required by the software provider to maintain functionality and security. In addition, to cover changes that have been negotiated through the collective bargaining process, or that will result in reduced time by existing City staff on administration, through the automation of work currently done manually.

Rationale: Each year, the City ERP system (SAP) has numerous software updates and changes required in order to maintain the system and allow it to continue to function as per City requirements. These include items such as updating the system with new tax rates and other legislated requirements, as well as software updates from the software company itself that are required to maintain both functionality and security within SAP. They also include items such as the implementation of negotiated collective agreement changes to either process or entitlements or the configuration of system changes to create efficiencies in the use of SAP by operational and support staff.

Many of these changes and updates are complex in nature and require the use of external third-party contractors to ensure they are completed thoroughly and accurately. From 2019 to 2022, funds to cover these expenses were formerly paid for via the Finance SAP budget.

That Finance budget was separated and appropriate portions allocated to the departments that are in charge of overseeing the work completed by these third-party experts.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$361	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$536
Forecast	\$0	\$0	\$175	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350
Total	\$361	\$175	\$175	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$886

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$18	\$0	\$18	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$53
Tax Capital Reserve	\$260	\$175	\$158	\$158	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750
WW Capital Reserve	\$37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37
Water Capital Reserve	\$37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37
Parking Capital Reserve	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9

Total	\$361	\$175	\$175	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$886
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2024 Capital Project Detail Report

Project Title: Corporate Audio-Visual Technology Infrastructure Program (Active)

Project Number: 001314

Department: Information Technology

Summary: The City's Corporate Audio-Visual Technology Infrastructure Program replaces older audio and visual equipment with modern equipment with additional functionality at a lower cost to operate and support.

Rationale: The City utilizes various audio and visual technologies ranging from desktop monitors, projectors, sound systems and presentation equipment. This program supports the replacement of aged visual equipment deployed throughout the City's offices and meeting rooms, with newer more energy efficient, functional, and reliable devices. This program also promotes the expansion of current communications methods like unified communications (instant messaging) and virtual meeting rooms technology reducing traveling time/costs while increasing staff productivity.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$160	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$160
Forecast	\$0	\$0	\$165	\$170	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335
Total	\$0	\$160	\$165	\$170	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$495

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$0	\$16	\$17	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Tax Capital Reserve	\$0	\$144	\$149	\$153	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$446
Total	\$0	\$160	\$165	\$170	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$495

2024 Capital Project Detail Report

Project Title: Corporate PC Infrastructure Program (Active)

Project Number: 001312

Department: Information Technology

Summary: The City's Corporate PC Technology Infrastructure Program is for the workstation computers used by all City Staff.

Rationale: Corporate PC Technology Infrastructure Program was previous managed through a corporate lease agreement paid annually on a three-year cycle. The lease expired in 2020 which provided an opportunity to change to an ownership model that doesn't require a corporate wide PC refresh every year. Corporate wide PC refresh have proven to be IT resource intensive and disruptive to business operations. An ownership model allows the replacement cycle to become a continuous replacement model that minimizes the business disruption. The ownership model also allows PC lifecycles to be extended past 3 years, providing opportunities for savings.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$920	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$920
Forecast	\$0	\$0	\$500	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000
Total	\$0	\$920	\$500	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,920

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$0	\$35	\$19	\$19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$74
Tax Capital Reserve	\$0	\$796	\$433	\$433	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,662
WW Capital Reserve	\$0	\$37	\$20	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$77
Water Capital Reserve	\$0	\$52	\$28	\$28	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$108
Total	\$0	\$920	\$500	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,920

2024 Capital Project Detail Report

Project Title: Corporate Printing Infrastructure Program (Active)

Project Number: 001311

Department: Information Technology

Summary: The City's Corporate Printing Technology Infrastructure Program replaces hardware with current multi-function device solutions that are technically advanced and more efficient to operate and support.

Rationale: Corporate Printing technology infrastructure renewal is required based on the industry standard, 5-year replacement cycle to reduce the risk of failure. Multi-function systems (print, scan, fax, and copy functionality) are used by over 75% of staff to produce a variety of documents in varying formats, colours, and sizes for public distribution, City staff use, reporting, billing, and records management.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$397	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$397
Forecast	\$0	\$0	\$130	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,430
Total	\$0	\$397	\$130	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,827

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$0	\$40	\$13	\$130	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$183
Tax Capital Reserve	\$0	\$357	\$117	\$1,170	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,644
Total	\$0	\$397	\$130	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,827

2024 Capital Project Detail Report

Project Title: Council Chambers A/V Replacement

Project Number: 001159

Department: Information Technology

Summary: This project will replace the existing audio and visual equipment in Council Chambers ahead of anticipated end-of-life. The microphones, speakers, projects, and associated Crestron control system were installed in 2014, and are estimated to have a 10-year useful life. After this time, it may not be possible to obtain required components and replacement parts if failures are experienced.

Rationale: Given the criticality and specialization of the audio-visual equipment that supports meetings in the Council Chambers, it is important to responsibility plan for the renewal of this equipment before failure, and/or replacement parts become difficult to source.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Total	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Total	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200

2024 Capital Project Detail Report

Project Title: Council Chambers Digital Broadcast Upgrade

Project Number: IT1061

Department: Information Technology

Summary: To upgrade the audio and visual equipment within the Council Chambers at City Hall to allow for full broadcast-quality live digital transmission for meetings of City Council, General Committee, and other Committees and events.

Rationale: The upgrade of digital broadcasting capabilities within Council Chambers is prudent, as Rogers TV has explained that their ability to continue broadcasting Council meetings is reliant on the equipment currently in use – equipment which Rogers has described is well beyond expected useful life. Rogers TV has been clear that they cannot guarantee the investment which would be required to replace their current equipment once it fails. Rogers TV has also expressed concern that the CRTC could soon implement mandatory requirements for real-time close captioning on both digital streamed and television broadcasts. This is something that their current equipment does not support, and therefore any such new requirement would also impact their ability to continue broadcasting Barrie City Council meetings.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$20	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170
Total	\$20	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$2	\$15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17
Tax Capital Reserve	\$18	\$135	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$153
Total	\$20	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170

2024 Capital Project Detail Report

Project Title: Cyber Security Controls Certification

Project Number: 001152

Department: Information Technology

Summary: CyberSecure Canada is an accreditation program run by Innovation, Science and Economic Development Canada. The accreditation program is based on the nation standard CAN/CIOSC 104:2021 to ensure a minimum set of cyber security controls are in place.

Rationale: The CyberSecure Canada certification reinforces our commitment to safeguarding sensitive data and maintaining the trust of our residents and business. Achieving this certification demonstrates our dedication to robust cybersecurity practices, compliance with industry standards, and mitigating cyber threats effectively.

Many regulatory agencies are requiring more and more in-depth cyber security information. Each asking questions in their own words, requiring an increasing amount of IT Security resources answering various audit and risk assessment questionnaires and providing evidence of compliance. This accreditation aims to standardize the baseline cyber security controls with independent third-party review and certification. Which both saves IT Security resources time and provides independently verified confirmation of baseline controls are in place.

Much like when purchasing electronics, one looks for the CSA, cUL or cETL certification marks to know the devices conforms to Canadian national safety standards. The CyberSecure Canada accreditation will confirm the City's Cyber Security baseline conforms to the national standard for minimum cyber security controls.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Total	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Total	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50

2024 Capital Project Detail Report

Project Title: Digital Customer Service and Workforce Innovation

Project Number: 001327

Department: Information Technology

Summary: Enhancing the City's Digital Customer Experience to meeting changing expectation of residents.

Rationale: To have a top tier Digital Customer experience, an investment to replace aging systems with modern systems to take advantage of the modern workforce automations to handle the simple and medium complexity tasks. Automating this, not only gets citizens what they need faster, it frees up resources to focus on more complex and value-added tasks. Modernizing the systems alone won't accomplish this. The systems must have a secure integration with other systems, sharing data and handing off workflows seamlessly. Using LEAN Six Sigma framework to evaluate process and Digital Transformational approaches to implementing Human Centre solutions will be a key success factor for this.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$80	\$800	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,680
Total	\$0	\$80	\$800	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,680

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$80	\$800	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,680
Total	\$0	\$80	\$800	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,680

2024 Capital Project Detail Report

Project Title: IT - BFES Technology Infrastructure Program (Active)

Project Number: 001274

Department: Information Technology

Summary: The Barrie Fire and Emergency Services (BFES) Technology Program is intended to modernize the data infrastructure required by BFES to maintain their high level of service to the community. Locations include Fire Stations HQ, 2, 3, 4, 5, and 6.

Rationale: Required to modernize and maintain essential City services provided by the Barrie Fire and Emergency Services. This program is directly required to support critical services and benefits the entire City. Some of existing technical data infrastructure has reached end of lifecycle and is required to ensure dependability.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$429	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$429
Forecast	\$0	\$0	\$50	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Total	\$0	\$429	\$50	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$729

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$429	\$50	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$729
Total	\$0	\$429	\$50	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$729

2024 Capital Project Detail Report

Project Title: IT - Corporate Communications Infrastructure Program (Active)

Project Number: 001272

Department: Information Technology

Summary: Renewal and maintenance of the City's corporate telecommunications infrastructure including hardware upgrades, accessories (handsets, soft phones, headsets), and IP gateways to meet the City's growing voice and data communication needs.

Rationale: Telephony continues to be a critical means of communications for City operations, emergency responses and citizen communications. This program is required to maintaining the secure, resilient, and reliable telecommunication system. This included the call centre system used at Service Barrie and the various other queue-based system residents and business interact with daily.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$165	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$165
Forecast	\$0	\$0	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
Total	\$0	\$165	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$265

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$0	\$17	\$5	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$27
Tax Capital Reserve	\$0	\$149	\$45	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$239
Total	\$0	\$165	\$50	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$265

2024 Capital Project Detail Report

Project Title: IT - Network Infrastructure Program (Active)

Project Number: 001265

Department: Information Technology

Summary: The network technology infrastructure program includes the renewal and deployment of core devices and services associated with network switches, load balancers, firewalls, Wi-Fi access points, and other network hardware across the City's facilities and data centres required for the continued delivery of corporate data and voice communication.

Rationale: Networking infrastructure renewal and improvements are required to meet performance requirements of the existing and upcoming technology projects. This program is based on a 5-year replacement cycle for all networking infrastructure including switches, routers, load balancers, and firewalls to reduce the risk of failure. Should the network infrastructure not be replaced, and a hardware failure occurs, extended outages would be experienced by staff due to their inability to access applications, data, and voice communications via the corporate network.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$1,243	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,243
Forecast	\$0	\$0	\$560	\$970	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,530
Total	\$0	\$1,243	\$560	\$970	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,773

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$1,243	\$560	\$970	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,773
Total	\$0	\$1,243	\$560	\$970	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,773

2024 Capital Project Detail Report

Project Title: IT - Public Safety Communications Program (Active)

Project Number: 001273

Department: Information Technology

Summary: The City's IT Department maintains a public safety radio system used by BFES, Barrie Police and the City's Water Operations.

Rationale: This is required to maintain the City's public safety radio system. This program covers the ongoing support, maintenance, and lifecycling of radio system hardware and software, ensuring this vital communication environment is always available.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$763	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$763
Forecast	\$0	\$0	\$2,000	\$700	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,700
Total	\$0	\$763	\$2,000	\$700	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,463

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$763	\$2,000	\$700	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,463
Total	\$0	\$763	\$2,000	\$700	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,463

2024 Capital Project Detail Report

Project Title: IT - Server & Storage Technology Program (Active)

Project Number: 001271

Department: Information Technology

Summary: The City's computing server and storage technology infrastructure program estimates a 60% growth of electronic files/data annually. Replacing old technology with new increases the City's capacity and ability to manage electronic information.

Rationale: The City's server and storage infrastructure hardware throughout City sites and data centres is renewed based on industry best practices. Replacement and upgrade of server and storage technology infrastructure (including physical and virtual servers) increases capacity and mitigates the risk of failure of the server and storage infrastructure.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$1,370	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,370
Forecast	\$0	\$0	\$746	\$746	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,492
Total	\$0	\$1,370	\$746	\$746	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,862

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$0	\$53	\$29	\$29	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$112
Tax Capital Reserve	\$0	\$1,294	\$704	\$704	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,702
WW Capital Reserve	\$0	\$8	\$4	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17
Water Capital Reserve	\$0	\$15	\$8	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$31
Total	\$0	\$1,370	\$746	\$746	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,862

2024 Capital Project Detail Report

Project Title: Mobility Technology Program (Active)

Project Number: 001325

Department: Information Technology

Summary: Scope of this intake form includes purchase and replacement of all City deployed cellular phones, smartphones, tablets, and licensing of mobile device management software.

Rationale: Moving forward with mobility is mobilizing the City's workforce by providing mobile technology to aid in the delivery of City services to the community. Mobility technology is limited to cellular phones, smartphones, tablets, and laptops. Mobile technology enables secure real time access to City business applications and data available to all City staff management deems beneficial. Mobile device governance has been established through corporate policy; mobile device security is managed through mobile device management (MDM) software supported by the City's IT Department.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$548	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$548
Forecast	\$0	\$0	\$290	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$590
Total	\$0	\$548	\$290	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,138

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$548	\$290	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,138
Total	\$0	\$548	\$290	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,138

2024 Capital Project Detail Report

Project Title: Next Gen ERP Updates - Phase 1

Project Number: IT1060

Department: Information Technology

Summary: Upgrade the city’s ERP to the latest next generation ERP that takes advantage of the latest industry innovations. This latest version also supports an expanded ecosystem of partner add-ons that seamless integrate more self-serve options for staff with streamlined user experiences that are mobile friendly.

In Phase 1, an in-place update of the City's existing ERP will be completed using the existing hardware. This continues to leverage the existing on-premises hardware investment through it planned lifecycle. While still gaining the benefits of latest version.

Phase 2 of the project will consist of a comprehensive review of which technology platform will be used moving forward. Namely decide and recommend whether to invest in new on-premises hardware or move to a cloud model. And implement the recommendation.

Rationale: Upgrading to the next gen ERP makes the latest industry innovations available as the City continues to leverage technology as one means to drive efficient and scalable processes. With an expanded ecosystems of partner add-ons that seamlessly integrate, new feature deployment time is drastically reduced. Coupled with a Self-Serve centric design approach, the streamlined and mobile friendly user experience drastically reduces the change management and staff training time.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$500	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250
Total	\$0	\$500	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$0	\$50	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125
Tax Capital Reserve	\$0	\$450	\$675	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,125
Total	\$0	\$500	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250

2024 Capital Project Detail Report

Project Title: SAP Sustainment Program (Active)

Project Number: IT1059

Department: Information Technology

Summary: This is to bring in specialized expertise as we continue to grow the in-house skillset as we continually refine the City's implementation and take advantage of new features made available through upgrades.

Rationale: Modern ERP systems are very complex and impact many areas of the City's operation. As the City's in-house expertise continue to grow, there is still a need for external specialists to supplement in-house resources. This is to both take advantage of new features that support further process optimizations as well as ensure the City keeps up with evolving best practices and trends.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$166	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$246
Forecast	\$0	\$0	\$80	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$160
Total	\$166	\$80	\$80	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$406

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$8	\$8	\$8	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$32
Tax Capital Reserve	\$119	\$72	\$72	\$72	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335
WW Capital Reserve	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17
Water Capital Reserve	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17
Parking Capital Reserve	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4
Total	\$166	\$80	\$80	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$406

2024 Capital Project Detail Report

Project Title: Server and Desktop Software Program (Active)

Project Number: 001313

Department: Information Technology

Summary: Corporate wide program for the annual licensing renewal of the City's server and desktop software. This program includes a range of Enterprise software applications that require yearly renewal.

Rationale: Server and Desktop Software Program covers a suite of productivity tools and cloud-based solutions based on a subscription models. With subscriptions the city can access the latest innovations in office productivity applications, seamless collaboration, and cloud storage. The licensing ensures enhanced security, regular updates, and mobiles access. The anytime, anywhere, any device access fosters a connected workforce driving streamlined communications and productivity.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$1,350	\$900	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,150
Total	\$0	\$1,350	\$900	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,150

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$0	\$135	\$90	\$90	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$315
Tax Capital Reserve	\$0	\$1,215	\$810	\$810	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,835
Total	\$0	\$1,350	\$900	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,150

2024 Capital Project Detail Report

Project Title: Albert Street New Drainage Outlet

Project Number: EN1283

Department: Infrastructure Department

Summary: Install a storm sewer system on Albert Street at Amelia Street to convey the 100 year storm flows through a storm sewer system to Theresa Street and ultimately to the outlet at Kempenfelt Bay. The storm sewer system will direct major storms flows from Albert Street and Amelia away from the unopened roadway allowance to rectify flooding and erosion issues within the ravine area and the houses fronting Theresa and Berczy Streets.

Rationale: The Albert and Amelia Street road systems west of Dundonald have limited areas with a storm sewer system, therefore drainage is conveyed along the road surface and then into the unopened right-of-way and a ravine with no formal drainage outlet. The properties that front onto Theresa and Berczy Street downstream of the ravine are receiving the storm runoff resulting in flooding, erosion and safety issues. The erosion issue is in proximity to public spaces. Current City Drainage Policies require that a drainage system be designed to accommodate all upstream drainage areas. The current drainage system within Albert, Amelia and Berczy are all deficient in meeting this policy.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$81	\$50	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$331
Total	\$81	\$50	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$331

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Canada Community-Building Reserve	\$80	\$45	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$305
Tax Capital Reserve	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Tax Funded Stormwater Capital Reserve	\$0	\$5	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25
Total	\$81	\$50	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$331

2024 Capital Project Detail Report

Project Title: Anne Street - New 3N Booster Pump Station & 2N Booster Pump Station Reconstruction

Project Number: EN1305

Department: Infrastructure Department

Summary: Construction of a Pressure Zone 3N Booster Pump Station to provide supply redundancy and system reinforcement in the event of a pumping station or discharge watermain failure and the refurbishment of existing Zone 2N Booster Pump Station. The new BPS will be located on the northeast side of the existing reservoir.

Rationale: Pressure Zone 3N currently only has one pumping station and requires a second pumping station with associated transmission watermains to provide supply redundancy and system reinforcement in the event of a pumping station or discharge watermain failure. The 2N BPS was constructed around 1960 and has had several minor upgrades to keep current with regulations however, it is now reaching its end of life and is in need of refurbishment. For construction and operational efficiencies the Booster Pump Stations will be combined into one.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,717	\$0	\$6,000	\$7,000	\$6,230	\$0	\$0	\$0	\$0	\$0	\$0	\$20,947
Total	\$1,717	\$0	\$6,000	\$7,000	\$6,230	\$0	\$0	\$0	\$0	\$0	\$0	\$20,947

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Water	\$750	\$0	\$6,000	\$7,000	\$6,230	\$0	\$0	\$0	\$0	\$0	\$0	\$19,980
Water Rate Capital Holding Reserve	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80
Water Capital Reserve	\$887	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$887
Total	\$1,717	\$0	\$6,000	\$7,000	\$6,230	\$0	\$0	\$0	\$0	\$0	\$0	\$20,947

2024 Capital Project Detail Report

Project Title: Anne Street Right of Way Expansion - Wellington to Edgehill (within CAH limits)

Project Number: EN1322

Department: Infrastructure Department

Summary: The project is the City's contribution toward the Ministry of Transportation's planned reconstruction and widening of the Anne Street Highway 400 crossing within the controlled access highway limits (from Wellington Street to Edgehill Drive). This project is required to occur with EN1323 Anne Street right-of-way Expansion - Wellington to Edgehill (outside of CAH limits).

Rationale: Ministry of Transportation (MTO) is reconstructing the Anne Street crossing to accommodate the planned expansion of Highway 400 to 10 lanes. The City's Master Plan identified the need for an additional turning lane, cycling lanes and sidewalks. The City has committed to build the additional infrastructure with MTO's reconstruction project as a joint effort to achieve economies of scale. This approach results in significant cost avoidance as compared to completing the identified works as a separate project.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$2,072	\$1,423	\$1,650	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,145
Total	\$2,072	\$1,423	\$1,650	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,145

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$1,708	\$925	\$1,452	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,085
DC Reserves	(\$373)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$373)
Tax Capital Reserve	\$738	\$498	\$198	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,434
Total	\$2,072	\$1,423	\$1,650	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,145

2024 Capital Project Detail Report

Project Title: Bayfield Interchange - Watermain and Sanitary Replacement - Coulter Street to Rose Street

Project Number: 001254

Department: Infrastructure Department

Summary: Relocation of watermain and sanitary sewer in advance of MTO reconstruction of Bayfield Street bridge along Coulter Street and Rose Street.

Rationale: The City has watermain and sanitary conflicts in the future location of the reconstructed Bayfield Street bridge. This project is to relocate watermain and sanitary asset conflicts along Coulter Street and Rose Street.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$430	\$2,798	\$2,404	\$1,490	\$4,470	\$0	\$0	\$0	\$0	\$0	\$11,592
Total	\$0	\$430	\$2,798	\$2,404	\$1,490	\$4,470	\$0	\$0	\$0	\$0	\$0	\$11,592

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$410	\$1,100	\$1,554	\$608	\$1,823	\$0	\$0	\$0	\$0	\$0	\$5,494
WW Capital Reserve	\$0	\$10	\$690	\$330	\$355	\$1,065	\$0	\$0	\$0	\$0	\$0	\$2,450
Water Capital Reserve	\$0	\$10	\$1,008	\$520	\$528	\$1,583	\$0	\$0	\$0	\$0	\$0	\$3,648
Total	\$0	\$430	\$2,798	\$2,404	\$1,490	\$4,470	\$0	\$0	\$0	\$0	\$0	\$11,592

2024 Capital Project Detail Report

Project Title: Bayview Drive New Transmission Watermain & Road Expansion - Little Avenue to Big Bay Point Road

Project Number: EN1288

Department: Infrastructure Department

Summary: Reconstruction and widening of Bayview Drive to three (3) lanes including new storm sewer and crossing culverts, new street lights, separated cycle track on both sides, sidewalk on the west side and replacement of an existing transmission watermain between Little Avenue and Big Bay Point Road.

Rationale: The 2013 TMP identified the need to widen the existing two (2) lane rural cross-section to three (3) lanes. Widening of this link will support local businesses and schools with improved traffic flow. The existing 300mm trunk watermain has been identified for replacement due to corrosion and upsizing requirements to 400mm. The crossing culverts are being upsized to reduce flooding risk with stormwater quality and quantity control being provided. Separated cycling facilities are being provided in each direction and a new transit bus layby will be located outside Allandale Rec Centre.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$5,547	\$1,044	\$3,119	\$4,100	\$3,058	\$3,000	\$0	\$0	\$0	\$0	\$0	\$19,868
Total	\$5,547	\$1,044	\$3,119	\$4,100	\$3,058	\$3,000	\$0	\$0	\$0	\$0	\$0	\$19,868

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$3,639	\$554	\$2,484	\$3,396	\$2,844	\$2,790	\$0	\$0	\$0	\$0	\$0	\$15,705
Water Rate Capital Holding Reserve	(\$5)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$5)
Tax Capital Reserve	\$1,647	\$0	\$145	\$214	\$214	\$210	\$0	\$0	\$0	\$0	\$0	\$2,430
WW Capital Reserve	\$10	\$259	\$259	\$259	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$788
Water Capital Reserve	\$256	\$231	\$231	\$231	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950
Total	\$5,547	\$1,044	\$3,119	\$4,100	\$3,058	\$3,000	\$0	\$0	\$0	\$0	\$0	\$19,868

2024 Capital Project Detail Report

Project Title: Bell Farm Road ROW Expansion - St. Vincent to Duckworth

Project Number: EN1164

Department: Infrastructure Department

Summary: Reconstruction and widening of Bell Farm Road to 3-lanes, bike lanes, replace watermain, add stormwater management, and sidewalks between St. Vincent Street to Duckworth Street.

Rationale: The existing 2-lane rural cross-section requires reconstruction to address renewal needs. This corridor has been identified for implementation of sidewalks to enhance pedestrian safety as well as stormwater management to improve drainage and mitigate environmental impacts. The existing watermain is approaching the end of its forecasted service life and is identified for replacement. This corridor is a primary route for both Barrie Fire and Emergency Services and Barrie Police Services. Implementation of cycling lanes and pedestrian facilities will promote the use of Active Transportation by Georgian College students to access student residences and St. Vincent Street.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$8,980	\$613	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,593
Total	\$8,980	\$613	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,593

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Deposits	\$0	\$84	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$84
Debenture Proceeds - DCs	\$3,344	\$424	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,768
DC Reserves	\$2,474	(\$25)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,448
Tax Capital Reserve	\$2,778	\$131	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,909
WW Capital Reserve	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20
Water Capital Reserve	\$364	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$364
Total	\$8,980	\$613	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,593

2024 Capital Project Detail Report

Project Title: Big Bay Point Rd., Painswick Bridge B Rehabilitation- (Metrolinx Corridor)- Ashford to Pine

Project Number: EN1324

Department: Infrastructure Department

Summary: Rehabilitation of Big Bay Point Road (Painswick “B”) Bridge, east of Ashford Drive (above Metrolinx corridor). This project includes removals, repairs, replacement, and upgrades of concrete, asphalt, and structural elements. Conversion and rehabilitation of this bridge in advance of Metrolinx planned electrification of the rail corridor.

Rationale: Structural inspection has shown the Painswick Bridge “B” requires construction rehabilitation and a conversion to semi-integral design to reduce the risk of structural failure. The proposed timing allows for the City's rehabilitation to proceed in advance of Metrolinx’s project to electrify the rail corridor. Proceeding with this proposal will mitigate increases in repair costs. Furthermore, capital expenditures will be reduced by completing the project prior to Metrolinx construction.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$2,182	\$655	\$242	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,079
Total	\$2,182	\$655	\$242	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,079

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$2,182	\$655	\$242	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,079
Total	\$2,182	\$655	\$242	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,079

2024 Capital Project Detail Report

Project Title: Big Bay Point Road Booster Station Upgrade

Project Number: EN1150

Department: Infrastructure Department

Summary: Replace existing pumps with horizontal split-case pumps equipped with Variable Frequency Drives (VFDs), revise SCADA programming, and replace existing electrical components and generator.

Rationale: The existing mechanical equipment is nearing the end of useful service life and this provides an opportunity to evaluate potential upgrades. The recommended upgrades include replacement of current pumps, generator, and electrical components of the station. These proposed upgrades will increase energy efficiency, flow control, and overall booster station operability.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$439	\$0	\$246	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$685
Forecast	\$0	\$0	\$0	\$100	\$1,200	\$1,406	\$91	\$0	\$0	\$0	\$0	\$2,797
Total	\$439	\$0	\$246	\$100	\$1,200	\$1,406	\$91	\$0	\$0	\$0	\$0	\$3,482

<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water Rate Capital Holding Reserve	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7
Water Capital Reserve	\$432	\$0	\$246	\$100	\$1,200	\$1,406	\$91	\$0	\$0	\$0	\$0	\$3,475
Total	\$439	\$0	\$246	\$100	\$1,200	\$1,406	\$91	\$0	\$0	\$0	\$0	\$3,482

2024 Capital Project Detail Report

Project Title: Big Bay Point Road ROW Expansion - Bayview to Huronia

Project Number: EN1286

Department: Infrastructure Department

Summary: Reconstruction and widening of Big Bay Point Road to five (5) lanes, buffered bike lanes and sidewalk on the south side between Bayview Drive and Huronia Road. This link is a critical component of the Harvie Road / Big Bay Point Road Highway Crossing. The Bayview / Big Bay intersection was reconstructed as part of the Harvie Hwy 400 Crossing works.

Rationale: Transportation Master Plan identified the need to construct a highway crossing at Harvie Road / Big Bay Point Road to accommodate existing traffic volumes and planned growth in the Secondary Plan Lands. The construction of this link is needed in conjunction with the Harvie Road / Big Bay Point Road Highway Crossing to provide five (5) lanes continuously on Big Bay Point Road from Bayview Drive (east terminus of crossing project) to Huronia Road.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$12,781	\$140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,921
Total	\$12,781	\$140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,921

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Contributions	\$24	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24
Developer Deposits	\$0	\$24	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24
Sundry Revenue	\$32	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$32
Debenture Proceeds - DCs	\$813	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$813
Province of Ontario Grant Revenue	\$3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3
DC Reserves	\$7,515	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,605
Tax Capital Reserve	\$4,014	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,039
WW Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Water Capital Reserve	\$380	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$380
Total	\$12,781	\$140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,921

2024 Capital Project Detail Report

Project Title: Biosolids Facility Roof Coating Rehabilitation

Project Number: EN1491

Department: Infrastructure Department

Summary: The proposed rehabilitation work is required to maintain and extend the service life of the facility structures and involves various structural repairs and rehabilitation of the roof at the Biosolids Storage Facility.

Rationale: The condition assessment completed in 2021 found that the roof over tanks, pump room and exterior insulation and finish system requires structural repair and rehabilitation for cracks, holes, and spalling of roof slabs, replacement of leaking joint of tunnel roof extension, repair of detached insulation of pump room roof slab, repair of holes in exterior insulation and finish system of biosolids tanks, and waterproofing restoration of roof slabs.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$206	\$2,000	\$2,000	\$351	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,557
Total	\$206	\$2,000	\$2,000	\$351	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,557
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
WW Capital Reserve	\$196	\$2,000	\$2,000	\$351	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,546
Wastewater Rate Cap Holding Reserve	\$11	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11
Total	\$206	\$2,000	\$2,000	\$351	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,557

2024 Capital Project Detail Report

Project Title: Bryne Drive (North) New Road Construction - Harvie Rd to Essa Rd

Project Number: EN1278

Department: Infrastructure Department

Summary: Construction of the unopened portion of Bryne Drive to five (5) lanes, bike lanes and sidewalks between Harvie Road and south of Essa Road. This link will help direct traffic to the new Harvie Crossing of Hwy 400 and away from the Essa and Mapleview Interchanges.

Rationale: Transportation Master Plan identified the need to construct a highway crossing at Harvie Road / Big Bay Point Road to reduce congestion in the south end of Barrie and to accommodate planned growth. The completion of Bryne Drive from Essa to Harvie is needed to reduce traffic congestion at the Essa and Mapleview interchanges by redirecting east / west traffic to the Harvie Road / Big Bay Point Road Highway Crossing.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$3,179	\$0	\$0	\$578	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,757
Forecast	\$0	\$0	\$0	\$0	\$6,505	\$6,505	\$1,681	\$0	\$0	\$0	\$0	\$14,691
Total	\$3,179	\$0	\$0	\$578	\$6,505	\$6,505	\$1,681	\$0	\$0	\$0	\$0	\$18,448

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$870	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$870
Debenture Proceeds - Tax	\$469	\$0	\$0	\$0	\$390	\$390	\$0	\$0	\$0	\$0	\$0	\$1,249
Canada Community-Building Reserve	\$280	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$280
DC Reserves	\$651	\$0	\$0	\$532	\$6,114	\$6,114	\$1,547	\$0	\$0	\$0	\$0	\$14,960
Tax Capital Reserve	\$908	\$0	\$0	\$46	\$0	\$0	\$134	\$0	\$0	\$0	\$0	\$1,089
Total	\$3,179	\$0	\$0	\$578	\$6,505	\$6,505	\$1,681	\$0	\$0	\$0	\$0	\$18,448

2024 Capital Project Detail Report

Project Title: Bryne Drive New Road Construction - Harvie to North of Caplan

Project Number: EN1277

Department: Infrastructure Department

Summary:

This project includes:

- Construction of new urban five (5) lane road between south of Harvie Rd and just north of Caplan Avenue
- Local servicing (water, sanitary, storm)
- Off-road buffered bike lanes
- Sidewalk installation on both sides
- Realigned intersection
- Stormwater management improvements

Rationale:

Transportation Master Plan and Bryne Environmental Assessment identified the need to construct a highway crossing at Harvie Road / Big Bay Point Road to reduce congestion in the south end of Barrie and to accommodate planned growth. The connecting section of Bryne Drive is required to accommodate growth and the increased traffic demand created by the Harvie/Big Bay Point overpass. This link will facilitate more development and alleviate traffic congestion in the City's south end.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$7,500	\$6,953	\$1,297	\$443	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,193
Total	\$7,500	\$6,953	\$1,297	\$443	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,193

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$3,791	\$1,184	\$3,005	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,981
Debenture Proceeds - Tax	\$735	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$735
DC Reserves	\$1,974	\$3,207	(\$3,492)	\$441	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,130
Tax Capital Reserve	\$1,000	\$979	\$1,784	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,764
Tax Funded Stormwater Capital Reserve	\$0	\$1,582	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,582
Total	\$7,500	\$6,953	\$1,297	\$443	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,193

2024 Capital Project Detail Report

Project Title: Bunkers Creek Culverts and Watercourse Improvements - Innisfil to Lakeshore

Project Number: EN1274

Department: Infrastructure Department

Summary: Stormwater conveyance improvements from west of Bradford Street to Lakeshore Drive convey 1:100 year event flows. Rehabilitation of the culvert crossing at Innisfil.

Rationale: Drainage Master Plan recommends replacing the existing culverts at Bradford street to convey the design flood frequency criteria of 1:100 year flows. The scope of this project is to design, acquire and construct a creek channel and floodway across privately owned lands from Bradford Street to Lakeshore Drive. The low flow channel has less capacity than 1:2-year return frequency storm peak flow. The natural watercourse enhancement will increase conveyance capacity, habitat and canopy.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$7,444	\$140	\$1,817	\$3,618	\$2,676	\$0	\$0	\$0	\$0	\$0	\$0	\$15,695
Total	\$7,444	\$140	\$1,817	\$3,618	\$2,676	\$0	\$0	\$0	\$0	\$0	\$0	\$15,695

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$2,829	\$63	\$212	\$803	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,907
DC Reserves	\$299	\$0	\$364	\$477	\$696	\$0	\$0	\$0	\$0	\$0	\$0	\$1,835
Water Rate Capital Holding Reserve	\$23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23
Tax Capital Reserve	\$4,182	\$0	\$1,022	\$954	\$257	\$0	\$0	\$0	\$0	\$0	\$0	\$6,415
Water Capital Reserve	\$111	\$0	\$75	\$92	\$55	\$0	\$0	\$0	\$0	\$0	\$0	\$333
Tax Funded Stormwater Capital Reserve	\$0	\$77	\$144	\$1,293	\$1,669	\$0	\$0	\$0	\$0	\$0	\$0	\$3,183
Total	\$7,444	\$140	\$1,817	\$3,618	\$2,676	\$0	\$0	\$0	\$0	\$0	\$0	\$15,695

2024 Capital Project Detail Report

Project Title: Codrington Booster Pumping Station Upgrades

Project Number: EN1531

Department: Infrastructure Department

Summary: Design and reinstallation of third pump at the Codrington BPS and removal of the pressure reducing valve to mitigate water supply issues in Pressure Zone 2N.

Rationale: The Codrington BPS supplies water from Pressure Zone 1 to Pressure Zone 2 North (2N). With growth pressures and existing operational issues limiting reliable water supply availability into 2N, it is important that the City develop additional reliable supply capacity for 2N. This project will increase 2N water supply capacity and add operational capacity of 63 L/s at minimal cost.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$38	\$0	\$81	\$56	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175
Total	\$38	\$0	\$81	\$56	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water Capital Reserve	\$38	\$0	\$81	\$56	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175
Total	\$38	\$0	\$81	\$56	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175

2024 Capital Project Detail Report

Project Title: Duckworth Street New Transmission Watermain and ROW Expansion - Bell Farm to St. Vincent

Project Number: EN1166

Department: Infrastructure Department

Summary: Reconstruction of Duckworth Street from Bell Farm Road to St. Vincent Street including property acquisition for widening of the right-of-way, utility relocations, road and sidewalk reconstruction, buffered bike lanes, installation of new transmission watermain, replacement of distribution watermain and water services, replacement of sanitary sewer and sanitary laterals, replacement of storm sewer system, upgrades to streetlighting system, replacement of the traffic signal systems at Duckworth/Codrington, at Duckworth/Wellington/Steel, at Duckworth/Grove, and at Duckworth/Rose/Bernick.

Rationale: The existing road surface has failed, and with the increased growth of Georgian College and RVH there will be additional traffic volume on Duckworth Street. Class Environmental Assessment recommendations for road improvements and lane configurations which includes buffered bicycle lanes. Replacement of all existing municipal infrastructure (e.g. watermain, sanitary and storm sewers) is to be undertaken as part of this project in order to bundle the infrastructure components and thereby reduce capital and operating costs in the long term.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$10,906	\$4,070	\$5,231	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,206
Total	\$10,906	\$4,070	\$5,231	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,206

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$2,632	\$2,090	\$2,726	\$1,950	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,397
DC Reserves	\$2,941	\$47	\$313	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,302
Water Rate Capital Holding Reserve	(\$210)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$210)
Tax Capital Reserve	\$3,934	\$591	\$1,223	\$1,050	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,798
WW Capital Reserve	\$672	\$513	\$324	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,509
Water Capital Reserve	\$937	\$404	\$58	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,398
Tax Funded Stormwater Capital Reserve	\$0	\$426	\$587	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,013
Total	\$10,906	\$4,070	\$5,231	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,206

2024 Capital Project Detail Report

Project Title: Dunlop Street Bridge Sanitary - Sarjeant Drive to Anne Street

Project Number: EN1469

Department: Infrastructure Department

Summary: This project is the relocation of the 750mm sanitary sewer as part of the Dunlop Street Interchange Replacement, from Edgehill Drive to Hart Drive via Cedar Pointe Drive and micro tunnel under the Highway 400.

Rationale: The Ministry of Transportation (MTO) is replacing the Dunlop Street Interchange (EN1306); the works will include a wider bridge platform with upgraded infrastructure to accommodate the planned growth to 2041. To facilitate the MTO project, the City is required to relocate the existing trunk sanitary sewer that is currently located at the proposed bridge abutments before 2024. This project will include the design and construction to relocate the 750 mm diameter trunk sewer to cross the highway north of the bridge with the Dunlop Street crossing located east of the proposed bridge and connect to the existing Hart Drive outlet.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$7,218	\$750	\$3,680	\$1,820	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,468
Total	\$7,218	\$750	\$3,680	\$1,820	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,468

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$2,778	\$323	\$1,582	\$1,820	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,503
DC Reserves	\$326	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$326
WW Capital Reserve	\$4,114	\$428	\$2,098	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,639
Total	\$7,218	\$750	\$3,680	\$1,820	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,468

2024 Capital Project Detail Report

Project Title: Dunlop, Poyntz and Berczy New Watermain and ROW Replacement - Codrington to Mulcaster

Project Number: EN1101

Department: Infrastructure Department

Summary: Road reconstruction including watermain, and upgrades to sanitary sewer, storm sewer, streetlights and sidewalk.

Rationale: The Water Storage and Distribution Master Plan identified the need for a transmission watermain which will provide connectivity between pressure Zone 1 and Zone 2N. The project also includes full roadway reconstruction including the replacement of storm and sanitary infrastructure, sidewalk replacement and streetlighting upgrades.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$6,609	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,684
Total	\$6,609	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,684

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Contributions	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13
Developer Deposits	\$0	\$11	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11
DC Reserves	\$391	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$391
Water Rate Capital Holding Reserve	(\$170)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$170)
Tax Capital Reserve	\$4,121	(\$11)	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,186
WW Capital Reserve	\$728	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$728
Water Capital Reserve	\$1,525	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,525
Total	\$6,609	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,684

2024 Capital Project Detail Report

Project Title: Dyments Creek Culvert Expansion - Bradford St.

Project Number: EN1168

Department: Infrastructure Department

Summary: Replacement of the Dyments Creek culvert on Sanford Street. The project will include channel improvements between Sanford Street and Bradford Street, localized utility relocations as well as road and boulevard reinstatement.

Rationale: The existing conveyance capacity of the Dyments Creek at Bradford Street culvert crossing is a 5 year storm event. The Stormwater Master Plan identified the need to upgrade the culvert to ensure conveyance of major storm events and to reduce flooding on private property, the City Wastewater Treatment Facility and the Bradford Street corridor.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$2,301	\$280	\$3,712	\$1,158	\$2,315	\$0	\$0	\$0	\$0	\$0	\$0	\$9,766
Total	\$2,301	\$280	\$3,712	\$1,158	\$2,315	\$0	\$0	\$0	\$0	\$0	\$0	\$9,766
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Canada Community-Building Reserve	\$741	\$154	\$515	\$249	\$28	\$0	\$0	\$0	\$0	\$0	\$0	\$1,687
DC Reserves	\$950	\$126	\$1,143	\$387	\$611	\$0	\$0	\$0	\$0	\$0	\$0	\$3,217
Tax Capital Reserve	\$611	\$0	\$598	\$86	\$802	\$0	\$0	\$0	\$0	\$0	\$0	\$2,097
Water Capital Reserve	\$0	\$0	\$314	\$94	\$189	\$0	\$0	\$0	\$0	\$0	\$0	\$596
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$1,142	\$343	\$685	\$0	\$0	\$0	\$0	\$0	\$0	\$2,170
Total	\$2,301	\$280	\$3,712	\$1,158	\$2,315	\$0	\$0	\$0	\$0	\$0	\$0	\$9,766

2024 Capital Project Detail Report

Project Title: Dyments Creek New Storm Pond - North of Dunlop St. W

Project Number: EN1279

Department: Infrastructure Department

Summary: Construction of a new storm water management facility (pond) on Dyments Creek north west of the Dunlop Street West and Ferndale Drive intersection to provide storm water quantity and quality treatment to mitigate downstream flooding.

Rationale: Dyments Creek currently experiences a variety of issues including flooding through several areas of the watershed resulting in both loss of use of property and property damage, increased sedimentation and erosion problems leading to reduced conveyance capacities, a decline in water quality and the alteration of fish and wildlife habitat. Flooding of approximately 30 buildings and private property throughout the watershed has been identified in the Master Plan.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$634	\$0	\$215	\$1,725	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,574
Forecast	\$0	\$0	\$0	\$0	\$10	\$3,140	\$2,500	\$1,400	\$0	\$0	\$0	\$7,050
Total	\$634	\$0	\$215	\$1,725	\$10	\$3,140	\$2,500	\$1,400	\$0	\$0	\$0	\$9,624

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Tax	\$0	\$0	\$0	\$0	\$7	\$2,324	\$0	\$0	\$0	\$0	\$0	\$2,331
Canada Community-Building Reserve	\$232	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$232
DC Reserves	\$171	\$0	\$97	\$449	\$3	\$816	\$650	\$364	\$0	\$0	\$0	\$2,549
Tax Rate Capital Holding Reserve	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18
Tax Capital Reserve	\$214	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$214
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$118	\$1,277	\$0	\$0	\$1,850	\$1,036	\$0	\$0	\$0	\$4,281
Total	\$634	\$0	\$215	\$1,725	\$10	\$3,140	\$2,500	\$1,400	\$0	\$0	\$0	\$9,624

2024 Capital Project Detail Report

Project Title: Essa Road and Anne Street Intersection Reconstruction

Project Number: EN1353

Department: Infrastructure Department

Summary: Resurfacing and intersection improvements at the Essa Road and Anne Street intersection.

Rationale: Intersection improvements are required to improve traffic operations related to existing congestion and future traffic demands associated with growth. The Ministry of Transportation is planning reconstruction of the Highway 400/Essa Road interchange beginning in 2022; to avoid conflicts with the interchange construction this project should be completed prior to the interchange work taking place.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$14	\$370	\$150	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$634
Total	\$14	\$370	\$150	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$634

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$9	\$326	\$132	\$88	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$554
Tax Capital Reserve	\$5	\$44	\$18	\$12	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$79
Total	\$14	\$370	\$150	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$634

2024 Capital Project Detail Report

Project Title: Essa Road Holding Strategy - Mapleview Drive West to CR27

Project Number: EN1493

Department: Infrastructure Department

Summary: Construction of a pavement holding strategy on Essa Road between Mapleview Drive West and County Road 27 to address the poor condition with separated active transportation lanes between Mapleview to Mayburn and paved shoulders from Mayburn to Salem.

Rationale: Essa Road from Mapleview Drive West to CR27 requires immediate rehabilitation work. The schedule for the proposed expansion, reconstruction and urbanization within the same limits is delayed due to the rate of development within the Salem Secondary Plan area. An asphalt overlay/pulverize and pave strategy will address immediate problems on the surface of the roadway by providing a quality top layer of asphalt pavement. This will be a cost-effective short-term (10-12 year) approach that will improve levels of service.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,626	\$0	\$281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,907
Total	\$1,626	\$0	\$281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,907

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$1,626	\$0	\$281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,907
Total	\$1,626	\$0	\$281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,907

2024 Capital Project Detail Report

Project Title: Essa Road Level Rail Crossing

Project Number: EN1048

Department: Infrastructure Department

Summary: Installation of a new at-grade crossing warning system at the Essa Road ACDC Level railway crossing. The project includes the installation of a warning system consisting of flashing lights and bells, crossing gates, cantilevers and auxiliary signals.

Rationale: A Ralline Crossing Safety Assessment and Preliminary Design Report for the Essa Road at grade rail crossing recommending safety improvements. The design of the improvements is being coordinated with BCRY, Metrolinx and the Allandale Transit Mobility Hub projects.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$186	\$360	\$233	\$1,017	\$1,094	\$0	\$0	\$0	\$0	\$0	\$0	\$2,890
Total	\$186	\$360	\$233	\$1,017	\$1,094	\$0	\$0	\$0	\$0	\$0	\$0	\$2,890

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Sundry Revenue	\$15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15
Canada Community-Building Reserve	\$0	\$0	\$54	\$915	\$985	\$0	\$0	\$0	\$0	\$0	\$0	\$1,954
Tax Capital Reserve	\$171	\$360	\$179	\$102	\$109	\$0	\$0	\$0	\$0	\$0	\$0	\$921
Total	\$186	\$360	\$233	\$1,017	\$1,094	\$0	\$0	\$0	\$0	\$0	\$0	\$2,890

2024 Capital Project Detail Report

Project Title: Essa Road Right of Way Expansion - Bryne to Fairview

Project Number: EN1392

Department: Infrastructure Department

Summary: This project represents the City's portion of the work and costs associated with the Ministry of Transportation's planned reconstruction and widening of the Essa Road/Highway 400 interchange, within and outside the Ministry's controlled access highway (CAH) limits. The objective is to extend improvements to the Essa Road/Ardagh Drive and Essa Road/Fairview Road intersections.

Improvements include:

- Widening Essa Road from 4 lanes to 6 from Bryne/Ardagh to Fairview
- Sidewalk on the south side and multiuse trail on the north side
- Improved drainage infrastructure
- Street lighting
- Traffic Signals

Rationale: The Ministry of Transportation (MTO) plans to reconstruct the Highway 400/Essa Road interchange beginning in 2022. The City's Transportation Master Plan identifies the need for additional lanes on Essa Road, and sidewalks. The City is collaborating with MTO to build the additional infrastructure as part of MTO's reconstruction project as a joint effort to achieve economies of scale while ensuring improvements are extended to logical termination points. This approach results in significant cost avoidance as compared to completing the identified works as a separate project.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$5,501	\$0	\$5,264	\$1,075	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,840
Total	\$5,501	\$0	\$5,264	\$1,075	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,840

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$2,131	(\$5)	\$4,079	\$794	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,999
DC Reserves	\$1,445	\$5	\$3	\$74	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,527
Tax Capital Reserve	\$1,925	\$0	\$1,182	\$207	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,314
Total	\$5,501	\$0	\$5,264	\$1,075	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,840

2024 Capital Project Detail Report

Project Title: Essa Road ROW Expansion - Coughlin to Mapleview

Project Number: EN1170

Department: Infrastructure Department

Summary: Reconstruction and widening of Essa Road from Coughlin Road to Mapleview Drive West. The scope of work includes complete road reconstruction and widening to five (5) lanes with a multi-use trail and sidewalk. The existing 200mm watermain is not continuous in the section of road, part of this work will be to replace the watermain with a 300mm and connect the gaps to increase capacity and fire flows. The existing watercourse crossing culvert is to be replaced to account for the development needs at Mapleview and Essa.

Rationale: Class Environmental Assessment recommended the widening to five (5) lanes to accommodate traffic growth which will otherwise result in poor level of service (congestion). The project will also address the lack of active transportation infrastructure in this priority corridor and poor condition of the existing pavement.
The existing 200mm watermain is not continuous in the section of road, part of this work will be to replace the watermain with a 300mm and connect the gaps to increase capacity and fire flows. The existing watercourse crossing culvert is to be replaced to account for the development needs at Mapleview and Essa.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$375	\$0	\$80	\$42	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$707
Forecast	\$0	\$0	\$0	\$0	\$290	\$4,000	\$4,000	\$1,000	\$1,865	\$0	\$0	\$11,155
Total	\$375	\$0	\$80	\$42	\$500	\$4,000	\$4,000	\$1,000	\$1,865	\$0	\$0	\$11,863

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$182	\$0	\$74	\$36	\$403	\$3,680	\$3,680	\$920	\$1,716	\$0	\$0	\$10,691
Tax Capital Reserve	\$185	\$0	\$6	\$6	\$97	\$226	\$220	\$32	\$130	\$0	\$0	\$902
WW Capital Reserve	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8
Water Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$50	\$20	\$8	\$1	\$0	\$0	\$79
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$44	\$80	\$40	\$19	\$0	\$0	\$183
Total	\$375	\$0	\$80	\$42	\$500	\$4,000	\$4,000	\$1,000	\$1,865	\$0	\$0	\$11,863

2024 Capital Project Detail Report

Project Title: Eugenia Street ROW Reconstruction and New Transmission Watermain - Berczy to St. Vincent

Project Number: EN1319

Department: Infrastructure Department

Summary: Reconstruction of Eugenia Street including: road reconstruction, transmission watermain installation, sanitary sewer replacement and upgrading to current City standards, sanitary lateral and water service replacement to property line, storm sewer replacement and installation, sidewalk replacement and installation, and streetlight upgrades.

Rationale: There are two primary drivers for this project - the need to replace subsurface infrastructure, and the requirement for a transmission watermain. The subsurface infrastructure along Eugenia St. (and surrounding neighbourhoods) is approaching the end of its life and experiencing age-related deterioration and failure. Subsurface assets beneath Eugenia St. are rated fair to poor and do not meet current design standards for capacity, safety, and performance. The road surface is rated poor to very poor and there are no sidewalks along Eugenia St. Future growth and intensification forecasting has shown the need to increase the water capacity and supply network security of pressure zone 2N. Installing a 300mm transmission watermain along Eugenia St. will better connect the 2N pressure zone to the existing network, meet the potable water and fire flow capacity requirements for safe growth, and provide the level of service residents expect.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$688	\$715	\$3,136	\$2,956	\$3,068	\$300	\$0	\$0	\$0	\$0	\$0	\$10,863
Total	\$688	\$715	\$3,136	\$2,956	\$3,068	\$300	\$0	\$0	\$0	\$0	\$0	\$10,863

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$448	\$715	\$1,947	\$1,467	\$1,722	\$300	\$0	\$0	\$0	\$0	\$0	\$6,600
WW Capital Reserve	\$113	\$0	\$409	\$559	\$463	\$0	\$0	\$0	\$0	\$0	\$0	\$1,544
Water Capital Reserve	\$127	\$0	\$391	\$541	\$443	\$0	\$0	\$0	\$0	\$0	\$0	\$1,502
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$389	\$389	\$440	\$0	\$0	\$0	\$0	\$0	\$0	\$1,217
Total	\$688	\$715	\$3,136	\$2,956	\$3,068	\$300	\$0	\$0	\$0	\$0	\$0	\$10,863

2024 Capital Project Detail Report

Project Title: Ferndale Water Tower - Repairs and Upgrades

Project Number: EN1487

Department: Infrastructure Department

Summary: The Ferndale Water Tower, located at 434 Ferndale Drive North, requires cleaning of the exterior surfaces; sanding and solvent wiping of entire surface of tower; finish coat installation to the entire tower; replacing of the City of Barrie logo, and replacing the existing cathodic protection system.

Rationale: The Ferndale Water Tower painting is original (2003). During a recent inspection (2020), it was found that the exterior of the tank requires a maintenance overcoat consisting of power washing at 5,000 psi, mechanically clean (grind, power tool), local touch-up any rust spots followed by a complete overcoat of epoxy /polyurethane finish and replacing of the City of Barrie logo. Also, the existing cathodic protection requires to be replaced. The purpose of the project is to improve the exterior protective coating to ensure the long term integrity of the water tower.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$635	\$0	\$383	\$95	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,113
Total	\$635	\$0	\$383	\$95	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,113

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water Capital Reserve	\$635	\$0	\$383	\$95	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,113
Total	\$635	\$0	\$383	\$95	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,113

2024 Capital Project Detail Report

Project Title: Foster, Merrett, Garson, MacLaren and Yeates New Sanitary and Watermain and ROW Replacement

Project Number: EN1254

Department: Infrastructure Department

Summary: The driver for the project is to installed new sanitary servicing throughout the area. The scope of work would include full street reconstruction to urban standards including sanitary, storm sewers and a sidewalk on one side. This scope of work would also include watermain replacement.

Rationale: The existing neighborhood does not have sanitary servicing and is on septic systems. The septic systems are approximately 50 years old and can be considered to be at the end of their lifespan. It is City policy to implement full municipal servicing within its boundaries to provide equitable levels of service to all residents.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$57	\$145	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$202
Forecast	\$0	\$0	\$0	\$712	\$712	\$772	\$5,795	\$4,595	\$4,595	\$0	\$0	\$17,181
Total	\$0	\$57	\$145	\$712	\$712	\$772	\$5,795	\$4,595	\$4,595	\$0	\$0	\$17,383

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Contributions	\$0	\$0	\$0	\$0	\$0	\$6	\$0	\$0	\$0	\$0	\$0	\$6
Debenture Proceeds - Tax	\$0	\$0	\$0	\$269	\$269	\$273	\$0	\$0	\$0	\$0	\$0	\$811
Tax Capital Reserve	\$0	\$57	\$145	\$6	\$6	\$56	\$2,979	\$1,779	\$1,779	\$0	\$0	\$6,807
WW Capital Reserve	\$0	\$0	\$0	\$153	\$153	\$153	\$985	\$985	\$985	\$0	\$0	\$3,414
Water Capital Reserve	\$0	\$0	\$0	\$134	\$134	\$134	\$866	\$866	\$866	\$0	\$0	\$3,000
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$0	\$150	\$150	\$150	\$965	\$965	\$965	\$0	\$0	\$3,345
Total	\$0	\$57	\$145	\$712	\$712	\$772	\$5,795	\$4,595	\$4,595	\$0	\$0	\$17,383

2024 Capital Project Detail Report

Project Title: Grove Street East Watermain Replacement and Road Renewal – Duckworth to Fletcher

Project Number: EN1355

Department: Infrastructure Department

Summary: Watermain replacement and full-depth asphalt replacement on Grove Street East, between Duckworth St. and Johnson St.
Phase 1 - Nelson to Johnson (incl. Sylvia - Grove to Bernick and Nelson - Grove to Colleen)
Phase 2 - Duckworth to Nelson

Rationale: The watermains along Grove Street East, from Duckworth St. to Davies Cres. and from Cook St. to Fletcher Dr. are in poor condition, resulting in operational challenges and a high risk of failure and service disruptions. The pavement on Grove Street East is within a window where full-depth asphalt removal and replacement is expected to be an effective strategy to renew the road surface and defer more costly reconstruction. Timely renewal of the watermain and road is recommended to ensure adequate levels of service.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$3,173	\$2,188	\$229	\$211	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,802
Total	\$3,173	\$2,188	\$229	\$211	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,802

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water Rate Capital Holding Reserve	\$644	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$644
Tax Capital Reserve	\$760	\$1,017	\$95	\$107	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,979
Water Capital Reserve	\$1,769	\$1,171	\$134	\$104	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,179
Total	\$3,173	\$2,188	\$229	\$211	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,802

2024 Capital Project Detail Report

Project Title: Harvie Road and Big Bay Point Road New Crossing - Highway 400

Project Number: EN1161

Department: Infrastructure Department

Summary: The new Highway 400 crossing at Harvie Road and Big Bay Point Road is complete. Additional funding is required to address outstanding property negotiations.

Rationale: The City expropriated property to facility the construction of the new bridge. Negotiations around compensation have now concluded and this funding is required to address the final terms of the settlement.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$7,900	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,900
Total	\$7,900	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,900

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Deposits	\$0	\$128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$128
DC Reserves	\$5,188	\$1,970	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,158
Tax Capital Reserve	\$2,712	\$902	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,614
Total	\$7,900	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,900

2024 Capital Project Detail Report

Project Title: Hewitt's Creek New Trunk Sanitary Sewer - Maplevue to Lockhart (Developer)

Project Number: EN1137

Department: Infrastructure Department

Summary: Construction of a trunk sanitary sewer to extend from current termination of Hewitt's Trunk Sanitary Sewer (North) from Maplevue Drive south to Lockhart via Collector Road (Lally Terrace) within Crisdawn's Hewitt's Gate East Subdivision.

Rationale: The City of Barrie Growth Studies identified the need for the installation of a new trunk sanitary sewer in the Hewitt's Secondary Plan area to service growth. Installation of a sanitary sewer is included in both the Infrastructure Implementation Plan and the MOU with developers in Phase 1 of the secondary plan area. Funding for this project is partially front-ended by Developers to provide servicing required for Phase 1 of growth-related development in the secondary plan area.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,954	\$880	\$345	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,179
Forecast	\$0	\$0	\$165	\$2,358	\$633	\$0	\$0	\$0	\$0	\$0	\$0	\$3,157
Total	\$1,954	\$880	\$510	\$2,358	\$633	\$0	\$0	\$0	\$0	\$0	\$0	\$6,336

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Contributions	\$463	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$463
Developer Front Ending (Annex) - Developer Build	\$855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$855
DC Reserves	\$17	\$880	\$510	\$2,358	\$633	\$0	\$0	\$0	\$0	\$0	\$0	\$4,399
WW Capital Reserve	\$619	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$619
Total	\$1,954	\$880	\$510	\$2,358	\$633	\$0	\$0	\$0	\$0	\$0	\$0	\$6,336

2024 Capital Project Detail Report

Project Title: Hotchkiss Creek Storm Ponds at Wood Street and Associated Culvert Improvements

Project Number: EN1396

Department: Infrastructure Department

Summary: Construction of a new stormwater attenuation facility, and associated culvert and watercourse improvements on Hotchkiss Creek in the vicinity of Wood Street. The project includes replacement of the culvert passing under the Barrie-Collingwood Railway.

Rationale: Construction of a new stormwater attenuation facility, and associated culvert improvements is required to attenuate stormwater flows. This will reduce the risk of flooding downstream including at the Wastewater Treatment Facility. By attenuating the flows the size of the downstream culverts can be reduced, this in turn reduces costs of infrastructure.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,276	\$100	\$1,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,776
Forecast	\$0	\$0	\$185	\$2,550	\$3,260	\$2,500	\$4,800	\$0	\$0	\$0	\$0	\$13,295
Total	\$1,276	\$100	\$1,585	\$2,550	\$3,260	\$2,500	\$4,800	\$0	\$0	\$0	\$0	\$16,071
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Tax	\$0	\$0	\$0	\$1,480	\$1,850	\$1,480	\$0	\$0	\$0	\$0	\$0	\$4,810
DC Reserves	\$574	\$45	\$412	\$663	\$848	\$650	\$1,248	\$0	\$0	\$0	\$0	\$4,440
Tax Capital Reserve	\$702	\$0	\$0	\$407	\$562	\$370	\$740	\$0	\$0	\$0	\$0	\$2,781
Tax Funded Stormwater Capital Reserve	\$0	\$55	\$1,173	\$0	\$0	\$0	\$2,812	\$0	\$0	\$0	\$0	\$4,040
Total	\$1,276	\$100	\$1,585	\$2,550	\$3,260	\$2,500	\$4,800	\$0	\$0	\$0	\$0	\$16,071

2024 Capital Project Detail Report

Project Title: Johnson Beach Sewage Pumping Station Upgrade

Project Number: EN1460

Department: Infrastructure Department

Summary: Upgrading the existing Johnson Beach Sewage Pumping Station including: new concrete wet well structure, installation of two pumps (1 duty + 1 standby), isolation and check valves and a flow meter, and upgrades to the pump control panel.

Rationale: Johnson Beach Sewage Pumping Station requires immediate upgrade in order for operations to access the pump for maintenance. The upgrade includes new concrete wet well structure, installation of two pumps (1 duty + 1 standby), isolation and check valves and a flow meter, and upgrades to the pump control panel. The proposed upgrades will improve the operation and maintenance of this pump station, which minimizes service disruption to the Johnson's Beach Washrooms and other users.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$155	\$40	\$239	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$434
Forecast	\$0	\$0	\$100	\$725	\$1,100	\$127	\$0	\$0	\$0	\$0	\$0	\$2,052
Total	\$155	\$40	\$339	\$725	\$1,100	\$127	\$0	\$0	\$0	\$0	\$0	\$2,487

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
WW Capital Reserve	\$155	\$40	\$339	\$725	\$1,100	\$127	\$0	\$0	\$0	\$0	\$0	\$2,487
Total	\$155	\$40	\$339	\$725	\$1,100	\$127	\$0	\$0	\$0	\$0	\$0	\$2,487

2024 Capital Project Detail Report

Project Title: Kidd's Creek marina sediment removal

Project Number: EN1474

Department: Infrastructure Department

Summary: Removal of sediment within the Marina at the mouth of Kidd's creek required for Environmental Compliance Approval compliance. The sediment removal includes the Kidd's Creek channel and culvert between Bradford Street and Toronto Street.

Rationale: Removal of sediment within the Marina at the mouth of Kidd's creek. Sediment is blocking fish passage, impacting the marina operations. The project is required for Environmental Compliance Approval compliance. The sediment removal will include the sediment removal in the Kidd's Creek channel and culvert between Bradford Street and Toronto Street.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$2,933	\$128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,061
Total	\$2,933	\$128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,061
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$2,933	\$128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,061
Total	\$2,933	\$128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,061

2024 Capital Project Detail Report

Project Title: Little Lake Sew Pump Station Upgrade

Project Number: EN1122

Department: Infrastructure Department

Summary: New valves, flowmeters, and appurtenances to be installed in the existing wet well. The non-operating twinned 450mm forcemain will be unplugged, cleaned out and tied-in to the wet well. Provision for future swab ports will be installed outside the wet well.

Rationale: This project requires moving the valve chamber to the wet well, as there was sufficient space in the wet well to relocate the valves, flowmeters, and other components to the wet well. This change to the design will result in significant savings to the project.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$2,852	\$0	\$1,767	\$201	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,820
Total	\$2,852	\$0	\$1,767	\$201	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,820

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Tax	\$1,038	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,038
DC Reserves	\$691	\$0	\$522	\$52	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,265
WW Capital Reserve	\$1,123	\$0	\$1,245	\$149	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,517
Total	\$2,852	\$0	\$1,767	\$201	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,820

2024 Capital Project Detail Report

Project Title: LT04 Storm Pond repairs and retrofit

Project Number: EN1473

Department: Infrastructure Department

Summary: The storm pond requires maintenance, repair and some minor design changes to construct a new inlet and outlet structure which have already started to fail. The proposed work is intended to bring the storm pond in compliance with the City's Environmental Compliance Approval.

Rationale: The storm pond requires maintenance, and repair to bring the storm pond in compliance with the City's Environmental Compliance Approval.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$325	\$650	\$947	\$560	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,482
Total	\$325	\$650	\$947	\$560	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,482

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$325
Tax Funded Stormwater Capital Reserve	\$0	\$650	\$947	\$560	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,157
Total	\$325	\$650	\$947	\$560	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,482

2024 Capital Project Detail Report

Project Title: LT14 (JC Massie Way) Emergency Storm Water Pond Repair

Project Number: EN1472

Department: Infrastructure Department

Summary: This storm water pond requires emergency repair due to a failure of the existing pond liner as well as significant storm damage to the pond berm wall. The pond is currently out of compliance with the City Environmental Compliance Approval.

Rationale: Full retrofit of the pond including the removal and replacement of the pond liner, removal and repair of the berm wall as well as some minor volume improvements and slope repairs is recommended. This is deemed an emergency repair.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,540	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,550
Total	\$1,540	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,550

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Canada Community-Building Reserve	\$302	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$302
Tax Capital Reserve	\$1,238	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,238
Tax Funded Stormwater Capital Reserve	\$0	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10
Total	\$1,540	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,550

2024 Capital Project Detail Report

Project Title: Mapleview Dr E New Sanitary Sewer & Road Expansion - Prince William to Phase 1 Boundary (Developer)

Project Number: EN1270

Department: Infrastructure Department

Summary: Installation of a sanitary sewer from Terry Fox (collector 11). Design of the five(5) lane roadway to be included under this project, with construction of the road under separate project number.

Rationale: Different sanitary servicing alternatives were examined in the Wastewater Collection Master Plan for the Salem Secondary Plan area. The preferred alternative was to drain this sewer shed to the Hewitt's Trunk Sewer because this sewer has spare capacity. Anticipated increases in traffic volumes and active transportation resulting from growth in the Secondary Plan area justifies urbanizing Mapleview Drive east of Prince William Way. Funding for this project is partially front-ended by Developers to provide servicing required for Phase 1 of growth-related development in the secondary plan area.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$7,466	\$192	\$260	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,919
Total	\$7,466	\$192	\$260	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,919

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Front Ending (Annex) - Developer Build	\$7,460	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,460
DC Reserves	\$0	\$163	\$221	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$385
Tax Capital Reserve	\$6	\$29	\$39	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$74
Total	\$7,466	\$192	\$260	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,919

2024 Capital Project Detail Report

Project Title: Mapleview Dr E Road Expansion - East of Yonge to Prince William (City)

Project Number: EN1271

Department: Infrastructure Department

Summary: Widening of Mapleview Drive East from Yonge to Prince William to five (5) lanes with buffered bike lanes, sidewalk on the south side, multi-use trail on the north side, local servicing and safety upgrades to the at-grade railway crossing.

Rationale: Transportation Master Plan identified the need to widen Mapleview to five (5) lanes between Yonge and Prince William with a grade separated railway crossing. The grade separated crossing has been deferred and is subject to funding from Metrolinx. The road widening will initially be implemented with an at-grade crossing with enhanced safety features.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$11,055	\$0	\$4,950	\$4,950	\$5,867	\$5,700	\$0	\$0	\$0	\$0	\$0	\$32,522
Total	\$11,055	\$0	\$4,950	\$4,950	\$5,867	\$5,700	\$0	\$0	\$0	\$0	\$0	\$32,522

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$1,491	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,491
DC Reserves	\$8,383	\$0	\$4,809	\$4,809	\$5,696	\$5,529	\$0	\$0	\$0	\$0	\$0	\$29,226
Tax Capital Reserve	\$1,181	\$0	\$141	\$141	\$171	\$171	\$0	\$0	\$0	\$0	\$0	\$1,805
Total	\$11,055	\$0	\$4,950	\$4,950	\$5,867	\$5,700	\$0	\$0	\$0	\$0	\$0	\$32,522

2024 Capital Project Detail Report

Project Title: Marina Tiffin Boat Launch Rehabilitation

Project Number: EN1530

Department: Infrastructure Department

Summary: Initial studies to determine rehabilitation or replacement of Tiffin Boat Launch to increase user safety and decrease future maintenance costs.

Rationale: The Tiffin Boat Launch is showing signs of disrepair resulting in increased maintenance costs. Temporary mitigation measures have been put in place but a holistic assessment of the problem is required to determine a sustainable solution will ensure this asset continues to function well into the future.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$50	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250
Total	\$50	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$50	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250
Total	\$50	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250

2024 Capital Project Detail Report

Project Title: Mary Street ROW Replacement - Ross to Dunlop

Project Number: EN1484

Department: Infrastructure Department

Summary: Full reconstruction of Mary Street from Ross St. to 80m north of Dunlop St. W. Full depth asphalt removal and replacement from 80m north of Dunlop St. W to Dunlop St. W.

Rationale: Infrastructure on Mary Street is in poor condition, and approaching the end of their useful lives. This is coupled with capacity deficiencies, out-dated construction standards, and related work in the immediate area; Mary Street was identified for full right-of-way reconstruction. This renewal strategy is expected to be the most effective and cost efficient to restore and improve level of service to the area.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$255	\$0	\$21	\$74	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$368
Forecast	\$0	\$0	\$1	\$102	\$3,677	\$862	\$0	\$0	\$0	\$0	\$0	\$4,642
Total	\$255	\$0	\$22	\$177	\$3,694	\$862	\$0	\$0	\$0	\$0	\$0	\$5,010

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Tax	\$0	\$0	\$0	\$100	\$2,216	\$545	\$0	\$0	\$0	\$0	\$0	\$2,861
Tax Capital Reserve	\$195	\$0	\$4	\$48	\$195	\$42	\$0	\$0	\$0	\$0	\$0	\$484
WW Capital Reserve	\$30	\$0	\$0	\$0	\$401	\$91	\$0	\$0	\$0	\$0	\$0	\$523
Water Capital Reserve	\$30	\$0	\$12	\$29	\$418	\$91	\$0	\$0	\$0	\$0	\$0	\$581
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$6	\$0	\$463	\$92	\$0	\$0	\$0	\$0	\$0	\$561
Total	\$255	\$0	\$22	\$177	\$3,694	\$862	\$0	\$0	\$0	\$0	\$0	\$5,010

2024 Capital Project Detail Report

Project Title: McKay Road Improvements, Sanitary and Watermain works - Hwy 400 to Huronia (City)

Project Number: EN1256

Department: Infrastructure Department

Summary: Road reconstruction from east of the future McKay interchange to the Huronia Road construction limits. Trunk sanitary installation via microtunneling from the McKay and Veterans project limits to the Huronia Road construction limits. Watermain installation via microtunneling from the McKay and Veterans project limits to east of the highway 400.

Rationale: Transportation Master Plan identified McKay Road as a rural road in poor condition, with no current subsurface infrastructure. Road reconstruction will improve the safety and drivability. The sanitary and watermain works are needed to support the growth within the Salem Secondary Plan.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$792	\$0	\$0	\$570	\$1,650	\$500	\$0	\$0	\$0	\$0	\$0	\$3,512
Forecast	\$0	\$0	\$0	\$2,004	\$427	\$2,650	\$700	\$6,400	\$6,000	\$6,000	\$6,000	\$30,180
Total	\$792	\$0	\$0	\$2,574	\$2,077	\$3,150	\$700	\$6,400	\$6,000	\$6,000	\$6,000	\$33,693

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Tax	\$0	\$0	\$0	\$240	\$51	\$300	\$0	\$0	\$0	\$0	\$0	\$592
Canada Community-Building Reserve	\$45	\$0	\$0	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
DC Reserves	\$731	\$0	\$0	\$2,259	\$1,828	\$2,790	\$700	\$6,400	\$6,000	\$6,000	\$6,000	\$32,708
Tax Capital Reserve	\$16	\$0	\$0	\$44	\$198	\$60	\$0	\$0	\$0	\$0	\$0	\$318
Total	\$792	\$0	\$0	\$2,574	\$2,077	\$3,150	\$700	\$6,400	\$6,000	\$6,000	\$6,000	\$33,693

2024 Capital Project Detail Report

Project Title: McKay Road ROW Expansion - Reid Drive to West of Highway 400 (Developer)

Project Number: EN1257

Department: Infrastructure Department

Summary: Construction of a trunk sanitary sewer and watermain from Highway 400 westerly. Expansion of the McKay Road right-of-way, with the construction of a five (5) lane urban road from Reid Drive to west of Highway 400.

Rationale: Transportation Master Plan noted increases in traffic volume, and with construction of the proposed McKay Interchange necessitates an expansion from two lanes to three (west of Reid) and five (Reid to Highway 400) lanes. Installation of a sanitary sewer, trunk watermain and associated transportation improvements are included in both the Infrastructure Implementation Plan and the MOU with developers in Phase 1 of the secondary plan area. Funding for this project is partially front-ended by Developers to provide servicing required for Phase 1 of growth-related development in the secondary plan area.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$36,015	\$4,470	\$3,967	\$1,819	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$46,270
Total	\$36,015	\$4,470	\$3,967	\$1,819	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$46,270

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Front Ending (Annex) - Developer Build	\$32,964	\$3,449	\$2,962	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$39,375
Fees and Service Charges	\$15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15
Canada Community-Building Reserve	\$691	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$691
DC Reserves	\$466	\$538	\$687	\$1,694	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,385
Water Rate Capital Holding Reserve	(\$1)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$1)
Tax Capital Reserve	\$1,881	\$342	\$279	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,626
WW Capital Reserve	(\$2)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$2)
Tax Funded Stormwater Capital Reserve	\$0	\$140	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$180
Total	\$36,015	\$4,470	\$3,967	\$1,819	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$46,270

2024 Capital Project Detail Report

Project Title: NRP- HNS Allandale A Neighbourhood Reconstruction

Project Number: EN1282

Department: Infrastructure Department

Summary: Reconstruction of right-of-way assets in the HNS Allandale A Neighbourhood, including Jacobs Terrace (Innisfil to Alfred), Marcus Street (Jacobs to Campbell), Alfred Street (Jacobs to Campbell), Campbell Street (Anne to End), Wood Street (Alfred to End), Centre Street (Anne to Caroline), and Caroline Street (Alfred to Innisfil). This incorporates road reconstruction, watermain replacement, sanitary sewer replacement, sanitary lateral replacement, storm sewer replacement and upgrades, local drainage improvement, major creek channel improvements, large diameter culvert replacement and upgrade, sidewalk replacement/installation, traffic signal replacement, and streetlighting upgrades.

Rationale: Most of the infrastructure in this neighbourhood was constructed in the early to mid 1950s and is at or approaching the end of its maximum potential life. It has experienced age-related deterioration or physical failure (watermain breaks, etc.), and is in need of replacement. Identified as a candidate for full right-of-way reconstruction based on aggregated risk associated with surface and subsurface infrastructure. Full reconstruction will reduce capital and operating costs in the long term, minimize disruption to the community, and limit environmental damages from construction.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$2,577	\$0	\$0	\$256	\$11	\$284	\$0	\$0	\$0	\$0	\$0	\$3,129
Forecast	\$0	\$0	\$0	\$10	\$443	\$7,119	\$4,500	\$4,500	\$4,500	\$2,504	\$6,151	\$29,727
Total	\$2,577	\$0	\$0	\$266	\$454	\$7,403	\$4,500	\$4,500	\$4,500	\$2,504	\$6,151	\$32,856

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Contributions	\$0	\$0	\$0	\$0	\$0	\$2	\$5	\$5	\$7	\$8	\$0	\$27
Developer Deposits	\$0	\$0	\$0	\$0	\$1	\$20	\$0	\$0	\$0	\$0	\$0	\$22
Debenture Proceeds - Tax	\$0	\$0	\$0	\$10	\$200	\$4,853	\$0	\$0	\$0	\$0	\$0	\$5,063
Tax Rate Capital Holding Reserve	(\$257)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$257)
Tax Capital Reserve	\$2,265	\$0	\$0	\$256	\$21	\$474	\$2,650	\$2,650	\$2,648	\$1,469	\$3,629	\$16,063
WW Capital Reserve	\$297	\$0	\$0	\$0	\$73	\$650	\$585	\$585	\$585	\$326	\$800	\$3,900
Water Capital Reserve	\$272	\$0	\$0	\$0	\$73	\$650	\$585	\$585	\$585	\$326	\$800	\$3,875
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$0	\$0	\$85	\$755	\$675	\$675	\$675	\$376	\$923	\$4,163

Total	\$2,577	\$0	\$0	\$266	\$454	\$7,403	\$4,500	\$4,500	\$4,500	\$2,504	\$6,151	\$32,856
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2024 Capital Project Detail Report

Project Title: NRP- HNS Allandale B Neighbourhood Reconstruction

Project Number: EN1281

Department: Infrastructure Department

Summary: Reconstruction of right of way assets in the HNS Allandale B Neighbourhood which includes Holgate Street (Innisfil St. to Bayview Dr.), William Street (Burton Ave. to Baldwin Lane), and Granville Street (Burton Ave. to Holgate St.). The proposed solution includes road reconstruction, watermain, sanitary sewer, storm sewer, sidewalk, traffic signal and streetlighting replacement/upgrading.

Rationale: Much of the infrastructure in this area is approaching the end of its useful life and needs to be replaced. This neighbourhood was identified as a candidate for full Right of Way reconstruction based on aggregated risk associated with surface and subsurface infrastructure. Given the age and deteriorated condition of infrastructure, other lifecycle strategies (status quo, do nothing/run to failure, operate/maintain differently, and/or rehabilitate/refurbish) are not expected to significantly extend the existing remaining life of current assets or deliver expected service levels. In addition, numerous assets in the project area are undersized based on current City standards.

Full reconstruction of the Right of Ways in this neighbourhood will improve service levels to the community and reduce the risk of asset failures and service disruptions. This will reduce capital and operating costs in the long term, minimize disruption to the community, and limit environmental damage from construction.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$673	\$0	\$0	\$1,318	\$810	\$0	\$0	\$0	\$0	\$0	\$0	\$2,801
Forecast	\$0	\$0	\$0	\$500	\$5,000	\$5,000	\$3,500	\$3,500	\$6,068	\$0	\$0	\$23,570
Total	\$673	\$0	\$0	\$1,818	\$5,811	\$5,000	\$3,500	\$3,500	\$6,068	\$0	\$0	\$26,371

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Contributions	\$0	\$0	\$0	\$0	\$1	\$3	\$4	\$1	\$0	\$0	\$0	\$9
Debenture Proceeds - Tax	\$0	\$0	\$0	\$500	\$1,500	\$1,500	\$0	\$0	\$0	\$0	\$0	\$3,500
Canada Community-Building Reserve	\$54	\$0	\$0	\$226	\$2,732	\$2,530	\$2,529	\$2,292	\$4,391	\$0	\$0	\$14,755
Tax Capital Reserve	\$414	\$0	\$0	\$793	\$606	\$161	\$161	\$400	\$279	\$0	\$0	\$2,814
WW Capital Reserve	\$101	\$0	\$0	\$170	\$533	\$451	\$451	\$451	\$782	\$0	\$0	\$2,940
Water Capital Reserve	\$105	\$0	\$0	\$128	\$438	\$355	\$355	\$355	\$616	\$0	\$0	\$2,353

Total	\$673	\$0	\$0	\$1,818	\$5,811	\$5,000	\$3,500	\$3,500	\$6,068	\$0	\$0	\$26,371
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2024 Capital Project Detail Report

Project Title: NRP- HNS Brock Park B Neighbourhood Reconstruction

Project Number: EN1437

Department: Infrastructure Department

Summary: This project is a pavement holding strategy to address very poor pavement condition throughout the neighbourhood, until full reconstruction is affordable.

- Vespra (Anne Street S to Innisfil Street);
- Victoria Street (Anne Street S to Innisfil Street);
- Dufferin Street (Robert Street to Innisfil Street);
- John Street (Anne Street S to Innisfil Street);
- Robert Street (Vespra Street to John Street)
- Boys Street (Vespra to Bunkers Creek)
- Innisfil Street (Vespra Street to Victoria Street)

Rationale: Most of the subsurface infrastructure in this neighbourhood was constructed between the 1930s and 1960 and needs replacement. The pavement condition in this neighbourhood is poor, very poor, or failed. This neighbourhood has been identified as requiring full Right of Way reconstruction.

While the subsurface infrastructure needs are important, the pavement condition is critical and it will take a number of years to design and construct the full reconstruction project. It is recommended to complete a holding strategy on the road in 2024 and address the full project scope in future capital plans.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$2,700	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,700
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350	\$350
Total	\$0	\$2,700	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350	\$3,050

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Canada Community-Building Reserve	\$0	\$2,430	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,430
Tax Capital Reserve	\$0	\$270	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350	\$620
Total	\$0	\$2,700	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350	\$3,050

2024 Capital Project Detail Report

Project Title: NRP- HNS Brock Park Neighbourhood Reconstruction

Project Number: EN1318

Department: Infrastructure Department

Summary: Reconstruction of right-of-way assets:

Phase 1: John St. (Innisfil to Bradford), Frederick St. (Innisfil to end), Innisfil St. (John to 100 m south of Frederick)

Phase 2: Sanford St. (Vespra to Brock), Vespra St. (Innisfil to Bradford), Victoria St. (Innisfil to Bradford), and Innisfil St. (Vespra to John) in the Brock Park Neighbourhood.

This includes; road reconstruction, watermain replacement/ upgrade, sanitary sewer replacement/ upgrade, sanitary lateral replacement (to property line), storm sewer replacement/ upgrade, large diameter culvert replacement/ upgrade, sidewalk replacement/installation, and street light upgrades.

Rationale: Most of the infrastructure in this neighbourhood was constructed in the early to mid 1950s and is at or approaching the end of its maximum potential life. It has experienced age-related deterioration or physical failure (watermain breaks, etc.), and is in need of replacement. This neighbourhood was identified as a candidate for full right-of-way reconstruction based on aggregated risk associated with all surface and subsurface infrastructure in the right of way. Full reconstruction will improve service levels to the community and reduce the risk of asset failures and service disruptions.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$6,156	\$0	\$2,500	\$307	\$260	\$758	\$0	\$0	\$0	\$0	\$0	\$9,981
Forecast	\$0	\$0	\$0	\$100	\$6,400	\$5,455	\$4,139	\$2,826	\$0	\$0	\$0	\$18,920
Total	\$6,156	\$0	\$2,500	\$407	\$6,660	\$6,213	\$4,139	\$2,826	\$0	\$0	\$0	\$28,901

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Tax	\$0	\$0	\$0	\$100	\$3,650	\$2,705	\$0	\$0	\$0	\$0	\$0	\$6,455
Water Rate Capital Holding Reserve	\$151	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$151
Tax Capital Reserve	\$3,449	\$0	\$2,500	\$273	\$490	\$757	\$2,153	\$1,470	\$0	\$0	\$0	\$11,092
WW Capital Reserve	\$1,533	\$0	\$0	\$11	\$840	\$917	\$662	\$452	\$0	\$0	\$0	\$4,415
Water Capital Reserve	\$1,024	\$0	\$0	\$11	\$840	\$917	\$662	\$452	\$0	\$0	\$0	\$3,906
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$0	\$11	\$840	\$917	\$662	\$452	\$0	\$0	\$0	\$2,882

Total	\$6,156	\$0	\$2,500	\$407	\$6,660	\$6,213	\$4,139	\$2,826	\$0	\$0	\$0	\$28,901
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2024 Capital Project Detail Report

Project Title: NRP- HNS Grove B2 Neighbourhood Reconstruction

Project Number: 000725

Department: Infrastructure Department

Summary: This project is a pavement holding strategy to address very poor pavement condition throughout the neighbourhood, until full reconstruction is affordable, including: Oak Street, Northpark Road, and Parkdale Crescent.

Rationale: Most of the subsurface infrastructure in this neighbourhood was constructed between the 1950s and 1960s and needs replacement. The pavement condition in this neighbourhood is poor, very poor, or failed. This neighbourhood has been identified as requiring full Right of Way reconstruction.

While the subsurface infrastructure needs are important, the pavement condition is critical and it will take a number of years to design and construct the full reconstruction project. It is recommended to complete a holding strategy on the road in 2024 and address the full project scope in future capital plans.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$1,900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,900
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$301	\$540	\$1,003	\$1,844
Total	\$0	\$1,900	\$0	\$0	\$0	\$0	\$0	\$0	\$301	\$540	\$1,003	\$3,744

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Canada Community-Building Reserve	\$0	\$1,710	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,710
Tax Capital Reserve	\$0	\$190	\$0	\$0	\$0	\$0	\$0	\$0	\$301	\$235	\$436	\$1,161
WW Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$117	\$216	\$333
Water Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$66	\$123	\$189
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$123	\$228	\$351
Total	\$0	\$1,900	\$0	\$0	\$0	\$0	\$0	\$0	\$301	\$540	\$1,003	\$3,744

2024 Capital Project Detail Report

Project Title: NRP- HNS Queens Park A1 Neighbourhood Reconstruction

Project Number: EN1280

Department: Infrastructure Department

Summary: This project includes the reconstruction and upgrading of pavement, watermain, sanitary sewer, storm sewer, sidewalk and street lights of the HNS Queens Park A1 neighbourhood. It also includes the relocation of the Sophia Creek culvert into the Sophia Street right-of-way. This project area encompasses approximately half of the HNS Queens Park A1 neighbourhood, which contains some of the oldest infrastructure in the City. This includes Mary Street (Wellington St. W to Sophia St. W), Maple Avenue (Wellington St. W to Sophia St. W), Sophia St. W. (Ross St. to Bayfield St.), and Wellington St. (Mary St. to Maple St.).

Rationale: Sophia Creek runs just north of Sophia St. W, and flow is directed southwest toward Toronto Street via two box culverts installed between 1920 and 1950. Both are in poor to very poor condition, and pose significant flooding and safety risks. Other buried infrastructure in the neighbourhood, including watermains, sanitary sewers, and storm sewers, is in poor to very poor physical condition and much of it is undersized. This neighbourhood was identified as a candidate for full right-of-way reconstruction based on aggregated risk associated with surface and subsurface infrastructure. Full reconstruction will reduce capital and operating costs in the long term, minimize disruption to the community, and limit environmental damage from construction.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$7,158	\$0	\$2,156	\$1,331	\$212	\$0	\$0	\$0	\$0	\$0	\$0	\$10,857
Total	\$7,158	\$0	\$2,156	\$1,331	\$212	\$0	\$0	\$0	\$0	\$0	\$0	\$10,857

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$4,825	\$0	\$2,156	\$859	\$212	\$0	\$0	\$0	\$0	\$0	\$0	\$8,052
WW Capital Reserve	\$949	\$0	\$0	\$134	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,083
Water Capital Reserve	\$1,384	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,384
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$0	\$337	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$337
Total	\$7,158	\$0	\$2,156	\$1,331	\$212	\$0	\$0	\$0	\$0	\$0	\$0	\$10,857

2024 Capital Project Detail Report

Project Title: NRP Wellington D1

Project Number: EN1238

Department: Infrastructure Department

Summary: Reconstruction of Berczy, Amelia, Theresa, and Worsley in the Wellington D neighbourhood. The project includes: road reconstruction, watermain replacement, sanitary sewer replacement and upgrading to current City standards, sanitary lateral replacement to property line, storm sewer replacement and installation, sidewalk replacement, and streetlight upgrades.

Rationale: This neighbourhood contains some of the City’s oldest subsurface infrastructure outside of the downtown core. Identified as a candidate for full right-of-way reconstruction based on aggregated risk associated with all surface and subsurface infrastructure in the right of way. Full reconstruction will improve service levels to the community and reduce the risk of asset failures and service disruptions.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$2,642	\$3,308	\$3,230	\$3,314	\$3,080	\$0	\$0	\$0	\$0	\$0	\$0	\$15,574
Total	\$2,642	\$3,308	\$3,230	\$3,314	\$3,080	\$0	\$0	\$0	\$0	\$0	\$0	\$15,574
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Sundry Revenue	\$22	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22
Tax Capital Reserve	\$2,243	\$1,251	\$1,230	\$2,714	\$1,985	\$0	\$0	\$0	\$0	\$0	\$0	\$9,423
WW Capital Reserve	\$201	\$565	\$600	\$300	\$381	\$0	\$0	\$0	\$0	\$0	\$0	\$2,047
Water Capital Reserve	\$176	\$687	\$600	\$300	\$434	\$0	\$0	\$0	\$0	\$0	\$0	\$2,197
Tax Funded Stormwater Capital Reserve	\$0	\$806	\$800	\$0	\$279	\$0	\$0	\$0	\$0	\$0	\$0	\$1,885
Total	\$2,642	\$3,308	\$3,230	\$3,314	\$3,080	\$0	\$0	\$0	\$0	\$0	\$0	\$15,574

2024 Capital Project Detail Report

Project Title: Orchard Drive ROW Replacement - St. Vincent to End

Project Number: EN1528

Department: Infrastructure Department

Summary: Replacement of the road and subsurface infrastructure on Orchard Drive from St. Vincent Street to the end of the street, including watermain, sanitary sewers, storm sewers, sidewalk and streetlight upgrades.

Rationale: The infrastructure on Orchard Drive is in poor condition, and approaching the end of their useful lives. This is coupled with infiltration and inflow risks, known capacity deficiencies, outdated construction standards, and related work in the immediate area; Orchard Drive was identified for full right-of-way reconstruction. This renewal strategy is expected to be the most effective and cost efficient to restore and improve level of service to the area.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$50	\$186	\$149	\$198	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$584
Forecast	\$0	\$0	\$50	\$1,908	\$576	\$0	\$0	\$0	\$0	\$0	\$0	\$2,534
Total	\$50	\$186	\$199	\$2,106	\$576	\$0	\$0	\$0	\$0	\$0	\$0	\$3,118

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$50	\$107	\$120	\$1,062	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$1,639
WW Capital Reserve	\$0	\$22	\$22	\$296	\$78	\$0	\$0	\$0	\$0	\$0	\$0	\$419
Water Capital Reserve	\$0	\$21	\$21	\$276	\$73	\$0	\$0	\$0	\$0	\$0	\$0	\$391
Tax Funded Stormwater Capital Reserve	\$0	\$36	\$36	\$472	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$669
Total	\$50	\$186	\$199	\$2,106	\$576	\$0	\$0	\$0	\$0	\$0	\$0	\$3,118

2024 Capital Project Detail Report

Project Title: Pavement Management Program (Active)

Project Number: 001216

Department: Infrastructure Department

Summary: The Pavement Management Program focuses on doing the right thing to the right road, at the right time. Various resurfacing techniques will be applied to achieve program goals of improving service to the public, maximizing the life of the road assets at the lowest overall life-cycle cost, and reducing reactive maintenance costs.

Rationale: The City owns and maintains over 1600 lane km of roads all of which require renewal activities at various points in their life-cycle to ensure that service levels to the public are met in the most financially efficient way possible. Resurfacing roads using well-timed and appropriate preservation strategies is substantially less expensive than the full reconstruction of a road. By completing treatments at the appropriate time the City can extend the life of a road, and reduce the total investment over the long term, while providing a high level of service and safety. This program will address roads that are in various stages of their lifecycle, but that are still within appropriate windows of opportunity to benefit from resurfacing techniques that are available.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$9,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,000
Forecast	\$0	\$0	\$9,198	\$9,373	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,571
Total	\$0	\$9,000	\$9,198	\$9,373	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$27,571

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Canada Community-Building Reserve	\$0	\$7,763	\$7,918	\$8,076	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,756
Tax Capital Reserve	\$0	\$1,238	\$1,280	\$1,297	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,815
Total	\$0	\$9,000	\$9,198	\$9,373	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$27,571

2024 Capital Project Detail Report

Project Title: Preliminary Design Innisfil BPS – Well 3a – Well 4a – Well 19 & 20

Project Number: EN1532

Department: Infrastructure Department

Summary: Preliminary design study to assess feasibility and cost associated with increasing the pump capacity of Innisfil Booster Pumping Station into Zone 2S. Consider putting Wells 3a and 4a back into service in Zone 1 and construction of Well 19 and 20 buildings in Zone 1.

Rationale: The purpose of this preliminary design is to assess additional ways to increase water supply in Pressure Zone 1 and 2S.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$45	\$125	\$180	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$45	\$125	\$180	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$19	\$54	\$77	\$22	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$172
Water Capital Reserve	\$26	\$71	\$103	\$29	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$228
Total	\$45	\$125	\$180	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

2024 Capital Project Detail Report

Project Title: Primary Digester 1 - Condition Assessment & Gas Proofing Replacement

Project Number: EN1529

Department: Infrastructure Department

Summary: A condition assessment of PD1 is required to assess the condition of the gas proofing liner.

Rationale: The existing equipment in primary digester 1 and 2 has reached the end of its useful life and is in need of replacement.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$75	\$30	\$200	\$219	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$524
Forecast	\$0	\$0	\$0	\$0	\$375	\$595	\$488	\$0	\$0	\$0	\$0	\$1,458
Total	\$75	\$30	\$200	\$219	\$375	\$595	\$488	\$0	\$0	\$0	\$0	\$1,982

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
WW Capital Reserve	\$75	\$30	\$200	\$219	\$375	\$595	\$488	\$0	\$0	\$0	\$0	\$1,982
Total	\$75	\$30	\$200	\$219	\$375	\$595	\$488	\$0	\$0	\$0	\$0	\$1,982

2024 Capital Project Detail Report

Project Title: PRV Chamber Replacement Program (Active)

Project Number: EN1535

Department: Infrastructure Department

Summary: A program to annually upgrade existing Pressure Reducing Valves in the water distribution system to the new standard.

Rationale: Pressure Reducing Valves (PRVs) and chambers are deficient and require significant maintenance to keep running, and do not have SCADA capabilities. The City has also adopted a new standard for PRV chambers, which the older assets do not meet. Staff recently completed a condition assessment and strategic plan for its existing PRVs and chambers to determine their current condition, remaining useful life, major maintenance and/or replacement needs. This will minimize risk of PRV and chamber failure, and ensure safe and adequate drinking water and fire protection supplies for the community.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$471	\$836	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,307
Forecast	\$0	\$0	\$910	\$1,071	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,981
Total	\$0	\$471	\$1,746	\$1,071	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,288

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water Capital Reserve	\$0	\$471	\$1,746	\$1,071	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,288
Total	\$0	\$471	\$1,746	\$1,071	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,288

2024 Capital Project Detail Report

Project Title: Puget Street ROW Replacement and Drainage Upgrades - Steel to End

Project Number: EN1485

Department: Infrastructure Department

Summary: Complete reconstruction of Puget Street from Steel Street to Shanty Bay Road along with storm sewer upgrades and sidewalk installation from Shanty Bay Road to the end.

Rationale: Infrastructure on Puget Street is in poor condition, and approaching the end of their useful lives. This is coupled with capacity deficiencies and out-dated construction standards. Puget Street was identified for full right-of-way reconstruction. This renewal strategy is expected to be the most effective and cost efficient to restore and improve level of service to the area.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$165	\$0	\$176	\$292	\$277	\$271	\$0	\$0	\$0	\$0	\$0	\$1,180
Forecast	\$0	\$0	\$0	\$0	\$50	\$4,385	\$3,910	\$2,200	\$0	\$0	\$0	\$10,545
Total	\$165	\$0	\$176	\$292	\$327	\$4,656	\$3,910	\$2,200	\$0	\$0	\$0	\$11,725
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Tax	\$0	\$0	\$0	\$0	\$50	\$2,180	\$0	\$0	\$0	\$0	\$0	\$2,230
Tax Capital Reserve	\$165	\$0	\$64	\$131	\$144	\$523	\$2,073	\$1,100	\$0	\$0	\$0	\$4,199
WW Capital Reserve	\$0	\$0	\$30	\$54	\$40	\$586	\$551	\$330	\$0	\$0	\$0	\$1,591
Water Capital Reserve	\$0	\$0	\$30	\$54	\$40	\$586	\$551	\$330	\$0	\$0	\$0	\$1,591
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$52	\$53	\$53	\$781	\$735	\$440	\$0	\$0	\$0	\$2,114
Total	\$165	\$0	\$176	\$292	\$327	\$4,656	\$3,910	\$2,200	\$0	\$0	\$0	\$11,725

2024 Capital Project Detail Report

Project Title: Sanitary Sewer Renewal Program (Active)

Project Number: 001214

Department: Infrastructure Department

Summary: Rehabilitation of sanitary sewers using trenchless technologies such as cured-in-place pipe lining, slip lining, and other approaches as appropriate. Sewers to be rehabilitated through this program are selected annually based on criticality and available budget.

Rationale: Throughout the City there are many sanitary sewers that require rehabilitation. This program uses trenchless technologies and will minimize capital costs by reducing road restoration requirements and will also reduce future operational costs and staff time associated with repeated maintenance activities or emergency repairs.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$325
Forecast	\$0	\$0	\$325	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$650
Total	\$0	\$325	\$325	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$975

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
WW Capital Reserve	\$0	\$325	\$325	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$975
Total	\$0	\$325	\$325	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$975

2024 Capital Project Detail Report

Project Title: Secondary Plan Area New Bulk Water Filling Station

Project Number: ES1038

Department: Infrastructure Department

Summary: New bulk water station required for the development and growth activities in the secondary plan area.

Rationale: Installation of an additional Bulk Water Filling Station in the south end of the City will ensure that 24/7 access to bulk water is available near the area of development through a safe, reliable and efficient means.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$254	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$329
Total	\$254	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$329

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$127	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$202
Water Capital Reserve	\$127	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$127
Total	\$254	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$329

2024 Capital Project Detail Report

Project Title: Sidewalk Infill Program (Active)

Project Number: EN1536

Department: Infrastructure Department

Summary: As part of the City’s objective of growing the active transportation modal share from 6% to 12%; the sidewalk infill program forms part of an overall effort in conjunction with the Cycle Barrie Infrastructure Program and major road reconstruction projects to implement active transportation on a broad basis. The sidewalk infill program focuses on the elimination of mid-block sidewalk terminations and sidewalk implementation where no sidewalks exists.

Rationale: Sidewalks are an integral part of the community and allow people of all abilities to safely traverse the right-of-way. Under the Accessibility for Ontarians with Disabilities Act, specifically the Integrated Accessibility Standards Regulation (Ontario Regulation 191/11), municipalities are required to improve accessibility in both new and existing areas. The secondary significant benefit of this program is that these projects are relatively low cost allowing numerous projects throughout the City to be completed on a yearly basis. The infill program will also generate operational efficiencies in snow removal, and will reduce public health and safety risks by providing well-connected active transportation networks.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$531	\$252	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$783
Forecast	\$0	\$0	\$1,546	\$1,225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,771
Total	\$0	\$531	\$1,798	\$1,225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,554

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$0	\$478	\$1,079	\$735	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,292
Tax Capital Reserve	\$0	\$53	\$719	\$490	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,262
Total	\$0	\$531	\$1,798	\$1,225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,554

2024 Capital Project Detail Report

Project Title: Sophia Creek New Storm Pond - MacMorrison Park

Project Number: EN1242

Department: Infrastructure Department

Summary: Construction of a new stormwater attenuation facility in MacMorrison Park to reduce flooding downstream.

Rationale: The construction of a stormwater attenuation facility in MacMorrison Park will result in approximately 30,000 cubic metres of storage for storm water. The resulting reduction in the flows downstream of the facility during a 100-year storm will be approximately 17%. Reducing peak flows will mitigate flooding through residential areas and the downtown core during storm events. The existing baseball diamond within the park will be relocated to another location in the City, through a separate capital project.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$205	\$0	\$31	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$286
Forecast	\$0	\$0	\$130	\$268	\$1,550	\$4,366	\$2,380	\$0	\$0	\$0	\$0	\$8,694
Total	\$205	\$0	\$161	\$318	\$1,550	\$4,366	\$2,380	\$0	\$0	\$0	\$0	\$8,980

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Tax	\$0	\$0	\$0	\$198	\$1,147	\$3,231	\$0	\$0	\$0	\$0	\$0	\$4,576
DC Reserves	\$92	\$0	\$42	\$83	\$403	\$1,135	\$619	\$0	\$0	\$0	\$0	\$2,374
Tax Capital Reserve	\$113	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$113
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$119	\$37	\$0	\$0	\$1,761	\$0	\$0	\$0	\$0	\$1,917
Total	\$205	\$0	\$161	\$318	\$1,550	\$4,366	\$2,380	\$0	\$0	\$0	\$0	\$8,980

2024 Capital Project Detail Report

Project Title: Sophia Creek Owen Tributary storm outlet from Memorial Square

Project Number: EN1463

Department: Infrastructure Department

Summary: Sophia Creek Owen Street tributary storm sewer trunk outlet 3500 mm x 1800 mm concrete box culvert extension from Memorial Square to Kempenfelt Bay.

Rationale: The Sophia Creek Master Drainage Plan identified downstream of Peel Street, runoff from minor and major storm events will surcharge the trunk storm sewer and flood private and municipal property along Sophia Street from Peel to Bayfield, Owen, Clapperton and Bayfield Street from Sophia Street to Kempenfelt Bay. Master Plan is recommending the addition of tributary trunk storm sewers along Clapperton and Owen Streets to supplement the Bayfield Street trunk sewer. These drainage works support the storm trunk sewer works constructed in Memorial Square 2018 (EN1111), Dunlop Street renewal 2019 (EN1167) and future Development and renewal works along Owen Street from Dunlop to Sophia Street including renewal project HNS The Grove A1 Neighbourhood Reconstruction. Projects 000798, 000046, and 000864 depend on this project being completed first.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$2,075	\$1,700	\$3,279	\$2,011	\$500	\$3,000	\$0	\$0	\$0	\$0	\$0	\$12,565
Total	\$2,075	\$1,700	\$3,279	\$2,011	\$500	\$3,000	\$0	\$0	\$0	\$0	\$0	\$12,565

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$657	\$480	\$852	\$523	\$130	\$780	\$0	\$0	\$0	\$0	\$0	\$3,423
Tax Capital Reserve	\$1,417	\$370	\$1,686	\$1,110	\$370	\$2,220	\$0	\$0	\$0	\$0	\$0	\$7,173
Tax Funded Stormwater Capital Reserve	\$0	\$850	\$740	\$378	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,968
Total	\$2,075	\$1,700	\$3,279	\$2,011	\$500	\$3,000	\$0	\$0	\$0	\$0	\$0	\$12,565

2024 Capital Project Detail Report

Project Title: Sophia Trunk Storm Sewers - Owen & Sophia (Dunlop to Peel)

Project Number: EN1464

Department: Infrastructure Department

Summary: Construction of new trunk storm sewers to convey the 100 year controlled storm flows from Sophia Creek at Peel Street along Sophia St. and south along Owen to Dunlop. In addition to addressing the storm conveyance needs, aging infrastructure within the project limits will be replaced and will account for the intensification zone within the downtown core and as part of this project. As such, the entire right of way will be reconstructed.

Rationale: Under existing conditions there is significant flooding through downtown Barrie during major rainfall events. Currently, rainfall events greater than the 1:5 year storm are conveyed overland to Lake Simcoe. The proposed storm sewer will convey the 1:100 year return interval rain event to Lake Simcoe, mitigating the risk of future flooding through downtown Barrie. In addition to the storm conveyance needs, a large portion of the infrastructure within these streets is approaching or past its anticipated useful life.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,042	\$1,542	\$3,100	\$4,675	\$5,775	\$6,507	\$0	\$0	\$0	\$0	\$0	\$22,640
Total	\$1,042	\$1,542	\$3,100	\$4,675	\$5,775	\$6,507	\$0	\$0	\$0	\$0	\$0	\$22,640

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$22	\$0	\$101	\$725	\$821	\$910	\$0	\$0	\$0	\$0	\$0	\$2,579
Tax Capital Reserve	\$843	\$1,423	\$2,075	\$1,550	\$1,550	\$1,348	\$0	\$0	\$0	\$0	\$0	\$8,789
WW Capital Reserve	\$115	\$77	\$500	\$250	\$600	\$1,400	\$0	\$0	\$0	\$0	\$0	\$2,942
Water Capital Reserve	\$62	\$41	\$300	\$250	\$650	\$259	\$0	\$0	\$0	\$0	\$0	\$1,562
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$124	\$1,900	\$2,154	\$2,590	\$0	\$0	\$0	\$0	\$0	\$6,768
Total	\$1,042	\$1,542	\$3,100	\$4,675	\$5,775	\$6,507	\$0	\$0	\$0	\$0	\$0	\$22,640

2024 Capital Project Detail Report

Project Title: Sunnidale Road Hwy 400 Crossing Reconstruction (within CAH limits)

Project Number: EN1316

Department: Infrastructure Department

Summary: The City's contribution toward the Ontario Ministry of Transportation's planned reconstruction of the Sunnidale Road Highway 400 crossing within the controlled access highway limits. This project includes construction of a new sanitary sewer to replace the existing sewer crossing Highway 400 at this location.

Rationale: The Province is widening the Highway 400 crossing at Sunnidale Road to support the planned expansion of Highway 400 to 10 lanes and address life-cycle requirements. The City has also identified additional improvements as per the Active Transportation Master Plan including bicycle lanes, sidewalks on both sides and wider sidewalks, which will be constructed as part of MTO's project.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$502	\$50	\$1,486	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,338
Total	\$502	\$50	\$1,486	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,338

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$90	\$33	\$966	\$845	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,934
Tax Capital Reserve	\$265	\$18	\$520	\$455	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,257
WW Capital Reserve	\$147	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$147
Total	\$502	\$50	\$1,486	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,338

2024 Capital Project Detail Report

Project Title: Sunnidale: Letitia-Wellington Transmission Watermain

Project Number: EN1013

Department: Infrastructure Department

Summary: Installation of a new transmission watermain to join the existing watermain sections at Wellington Street and at Letitia Street, crossing Highway 400. In addition, the relocation of the domestic watermain and sanitary sewer and the relocation of the storm sewer.

Rationale: The new 600mm transmission watermain will provide security of supply to and from the Sunnidale Road reservoir to downtown Barrie. There are existing 500mm diameter watermain sections at Wellington and at Letitia ready to be interconnected. The domestic watermain, storm and sanitary sewers require relocation around the proposed new highway structure.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$8,954	\$229	\$359	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,542
Total	\$8,954	\$229	\$359	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,542

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$172	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$172
DC Reserves	\$3,298	\$98	\$155	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,550
Water Rate Capital Holding Reserve	\$61	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$61
Tax Capital Reserve	\$224	\$130	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$354
WW Capital Reserve	\$279	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$279
Water Capital Reserve	\$4,921	\$0	\$205	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,126
Tax Funded Stormwater Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$8,954	\$229	\$359	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,542

2024 Capital Project Detail Report

Project Title: SWTP Control System Upgrade

Project Number: EN1468

Department: Infrastructure Department

Summary: Replacement of the control system at the Surface Water Treatment Plant to align with industry standards and replace obsolete components.

Rationale: The Surface Water Treatment Plant as with all membrane filtration plants, is reliant on computerized programmable logic controllers (PLCs) to continually control and actively assess the high level of treatment needed for the City’s potable water supply. The PLCs, as with all computerized systems, have a limited life due to obsolescence, technological advancements, software improvements and diminishing technology service supports. Replacement of these systems is required by 2025 when the PLCs are expected to reach their end-of-life.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$3,078	\$513	\$1,419	\$1,000	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$6,220
Total	\$3,078	\$513	\$1,419	\$1,000	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$6,220

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water Capital Reserve	\$3,078	\$513	\$1,419	\$1,000	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$6,220
Total	\$3,078	\$513	\$1,419	\$1,000	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$6,220

2024 Capital Project Detail Report

Project Title: Tiffin Street - Ferndale to Anne Street

Project Number: EN1016

Department: Infrastructure Department

Summary: Transmission watermain installation from Ferndale to Anne Street including roadway resurfacing.

Rationale: The transmission watermain is required to provide adequate fire flows as well as increase domestic supply. The proposed solution also improves the existing roadway condition and will be a cost-effective long-term approach that will help increase levels of service.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$6,636	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,136
Total	\$6,636	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,136

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$2,666	\$215	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,881
DC Reserves	\$213	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$213
Water Rate Capital Holding Reserve	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4
Tax Capital Reserve	\$1,254	\$171	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,425
Water Capital Reserve	\$2,498	\$114	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,612
Total	\$6,636	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,136

2024 Capital Project Detail Report

Project Title: Transportation Safety and Pavement Holding Strategies

Project Number: EN1482

Department: Infrastructure Department

Summary: Installation of asphalt pavement holding strategy to provide medium term pavement improvements for Salem Road from CR27 to Norris Drive, Lockhart Road from Yonge St to 20th Sideroad and Big Bay Point from Prince William Way to 20th Sideroad, as well as minor safety improvements in the same locations.

Rationale: Salem Road, Lockhart and Big Bay Point require rehabilitation work in advance of the proposed full reconstruction/expansion of these roads. The schedule for the proposed reconstruction/expansion work has been deferred in the Capital Plan due to financial constraints as well as slower than expected growth. Many of these roads are in poor condition, and the City has been holding off on much repair because they were planned for reconstruction/widening. This will be a cost-effective short-term approach that will maintain levels of service and decrease the risk assumed by the City.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,700	\$1,400	\$2,604	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,704
Total	\$1,700	\$1,400	\$2,604	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,704

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$1,190	\$1,190	\$2,326	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,706
Tax Capital Reserve	\$510	\$210	\$278	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$998
Total	\$1,700	\$1,400	\$2,604	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,704

2024 Capital Project Detail Report

Project Title: Veterans Drive New Trunk Watermain - Salem to McKay (Developer)

Project Number: EN1258

Department: Infrastructure Department

Summary: Construction of a trunk watermain from Salem Road southerly to McKay Road.

Rationale: Master Planning recommends the installation of a trunk watermain along with the associated local wastewater collection and transportation improvements recommended. These infrastructure elements are included in the Infrastructure Implementation Plan and the MOU with developers in the secondary plan area. This project only includes the watermains required to provide potable water and fire flow in Phase 1 of the Salem Secondary Plan area. Funding for this project is partially front-ended by Developers to provide servicing required for Phase 1 of growth-related development in the secondary plan area.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$5,480	\$250	\$416	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,146
Total	\$5,480	\$250	\$416	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,146

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Front Ending (Annex) - Developer Build	\$4,145	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,395
DC Reserves	\$1,105	\$0	\$416	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,521
Tax Capital Reserve	\$230	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$230
Total	\$5,480	\$250	\$416	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,146

2024 Capital Project Detail Report

Project Title: Veterans Drive Road Expansion - Salem to McKay (Developer)

Project Number: EN1457

Department: Infrastructure Department

Summary: Expansion of Veterans Drive right-of-way, urbanization and widening of the road from two to five lanes, with buffered bike lanes (Salem to McKay)

Rationale: The Growth Studies and Transportation Master Plan identified Veterans Drive as a rural road in poor condition, with no current City subsurface infrastructure.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$734	\$134	\$2,123	\$1,234	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,225
Forecast	\$0	\$0	\$23	\$1,231	\$4,925	\$6,532	\$6,500	\$4,500	\$0	\$0	\$0	\$23,711
Total	\$734	\$134	\$2,146	\$2,465	\$4,925	\$6,532	\$6,500	\$4,500	\$0	\$0	\$0	\$27,936

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Developer Front Ending (Annex) - Developer Build	(\$12)	(\$12)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$24)
Debenture Proceeds - Tax	\$110	\$21	\$300	\$222	\$443	\$588	\$0	\$0	\$0	\$0	\$0	\$1,685
DC Reserves	\$636	\$124	\$1,844	\$2,243	\$4,482	\$5,944	\$5,915	\$4,095	\$0	\$0	\$0	\$25,282
Tax Rate Capital Holding Reserve	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Tax Capital Reserve	\$0	\$0	\$2	\$0	\$0	\$0	\$585	\$405	\$0	\$0	\$0	\$992
Total	\$734	\$134	\$2,146	\$2,465	\$4,925	\$6,532	\$6,500	\$4,500	\$0	\$0	\$0	\$27,936

2024 Capital Project Detail Report

Project Title: Wastewater Peak Flow Attenuation Facility

Project Number: EN1390

Department: Infrastructure Department

Summary: Implementation of a peak flow attenuation facility to capture, temporarily store, and reduce peak flows entering the Wastewater Treatment Facility.

Rationale: The wet weather flows to the Wastewater Treatment Facility (WwTF) have been steadily increasing over the last few years. The sewer surcharge capacity has been reducing due to the additional hydraulic loads, especially during intense storm events and rapid snow melts. If the WwTF is not properly protected then the biological treatment processes would be affected, causing operational and compliance challenges.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,191	\$846	\$2,466	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,504
Forecast	\$0	\$0	\$0	\$2,862	\$4,862	\$4,600	\$2,771	\$4,000	\$5,966	\$2,746	\$0	\$27,807
Total	\$1,191	\$846	\$2,466	\$2,862	\$4,862	\$4,600	\$2,771	\$4,000	\$5,966	\$2,746	\$0	\$32,311

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$392	\$347	\$1,306	\$2,862	\$4,862	\$4,600	\$2,771	\$4,000	\$5,966	\$2,746	\$0	\$29,852
WW Capital Reserve	\$799	\$499	\$1,160	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,459
Total	\$1,191	\$846	\$2,466	\$2,862	\$4,862	\$4,600	\$2,771	\$4,000	\$5,966	\$2,746	\$0	\$32,311

2024 Capital Project Detail Report

Project Title: Water Meter Replacement Program (Active)

Project Number: 001240

Department: Infrastructure Department

Summary: Annual program to replace water meters and Smartpoints that send the meter readings via radio frequency and require replacement due to battery life.

Rationale: The City of Barrie currently has 46,358 water meters. Of these 23,119 are beyond their expected life cycle of 20 years. Once a water meter has gone beyond its recommended life cycle, the accuracy of the water meter as a measuring device drops significantly to upwards of 40% "under registration" of volumes resulting in under billing. This program would include addressing the current need for the replacement of expired water meters and the scheduling of water meter replacements as required into the future. Smartpoints will need to be replaced as they reach their end of life.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$729	\$792	\$855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,375
Total	\$0	\$729	\$792	\$855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,375

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water Capital Reserve	\$0	\$729	\$792	\$855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,375
Total	\$0	\$729	\$792	\$855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,375

2024 Capital Project Detail Report

Project Title: Watermain Renewal Program (Active)

Project Number: EN1537

Department: Infrastructure Department

Summary: Renewal of high risk, aging, deteriorated watermains.

Rationale: While the City continues to address water main replacement through neighbourhood or stand-alone reconstruction projects, the need still exists to address specific failing and aging watermains throughout the City which are not part of larger projects. This program specifically targets high risk watermains which need renewal in order to prevent disruption of service through breaks and costly reactive repairs.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$1,230	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,480
Forecast	\$0	\$0	\$4,985	\$6,671	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,656
Total	\$0	\$1,230	\$5,235	\$6,671	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,136

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Water Capital Reserve	\$0	\$1,230	\$5,235	\$6,671	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,136
Total	\$0	\$1,230	\$5,235	\$6,671	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,136

2024 Capital Project Detail Report

Project Title: Whiskey Creek Culvert and Channel Improvements - The Blvd to Brennan Ave

Project Number: EN1486

Department: Infrastructure Department

Summary: Improved conveyance capacity of Whiskey Creek from The Boulevard to Brennan Avenue to reduce frequency of flooding. Project includes design and construction of the two culverts and watercourse improvements between the culverts.

Rationale: The lower section of Whiskey Creek, from The Boulevard to Lake Simcoe has limited stormwater flow conveyance capacity and is prone to flooding. This project upgrades the two culverts and links the watercourse to reduce the probability and consequence of flooding for both small frequent and large events.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$437	\$210	\$525	\$1,711	\$546	\$0	\$0	\$0	\$0	\$0	\$0	\$3,429
Forecast	\$0	\$0	\$0	\$0	\$715	\$3,068	\$3,094	\$825	\$0	\$0	\$0	\$7,702
Total	\$437	\$210	\$525	\$1,711	\$1,261	\$3,068	\$3,094	\$825	\$0	\$0	\$0	\$11,131
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Tax	\$0	\$0	\$0	\$0	\$0	\$521	\$0	\$0	\$0	\$0	\$0	\$521
DC Reserves	\$197	\$93	\$215	\$445	\$328	\$798	\$804	\$215	\$0	\$0	\$0	\$3,094
Tax Capital Reserve	\$240	\$52	\$115	\$53	\$0	\$360	\$881	\$344	\$0	\$0	\$0	\$2,046
Tax Funded Stormwater Capital Reserve	\$0	\$65	\$194	\$1,214	\$933	\$1,389	\$1,408	\$266	\$0	\$0	\$0	\$5,470
Total	\$437	\$210	\$525	\$1,711	\$1,261	\$3,068	\$3,094	\$825	\$0	\$0	\$0	\$11,131

2024 Capital Project Detail Report

Project Title: WwTF 96 MLD Expansion Program, Comprehensive Site Strategy Plan & ESR

Project Number: EN1431

Department: Infrastructure Department

Summary: Planning, design and construction to increase the plant capacity to meet the projected average daily wastewater flow to 2071. The expansion stage will include upgrades and capacity expansion to the Raw Sewage Pumping Station and Headworks, Primary Treatment, Secondary Treatment, Biosolids Treatment and the Co-Generation Facility. The technical studies and the Class Environmental Assessment will consist of gap analyses, capacity assessments, process deficiencies, site planning, operational work space planning and an optimized implementation plan.

Rationale: The City is expected to reach a combined population of 460,000 in 2071 resulting in an increase of wastewater flow to the Wastewater Treatment Facility (WwTF) to 96 MLD by 2041 and 115 MLD. The initial planning step would meet the Class Environmental Assessment requirements and develop an efficient strategy to implement the subsequent expansion following the membrane bioreactor project.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$258	\$558	\$242	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,058
Forecast	\$0	\$0	\$800	\$800	\$500	\$1,512	\$0	\$0	\$0	\$0	\$0	\$3,612
Total	\$258	\$558	\$1,042	\$800	\$500	\$1,512	\$0	\$0	\$0	\$0	\$0	\$4,670

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	(\$282)	\$0	\$1,042	\$800	\$500	\$1,512	\$0	\$0	\$0	\$0	\$0	\$3,571
WW Capital Reserve	\$540	\$558	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,099
Total	\$258	\$558	\$1,042	\$800	\$500	\$1,512	\$0	\$0	\$0	\$0	\$0	\$4,670

2024 Capital Project Detail Report

Project Title: WwTF Digester Capacity Expansion

Project Number: EN1438

Department: Infrastructure Department

Summary: Wastewater sludge digestion capacity expansion by adding a new Primary Digester (PD4).

Rationale: Wastewater Treatment Master Plan analyzed the sludge digestion capacity. Based on the analysis of the historical and projected sludge production rates, it was concluded that Wastewater Treatment Facility needs two (2) additional primary digesters by 2041. Currently, there are three (3) primary digesters which are part of the overall biosolids treatment process. This project proposes a fourth primary digester (PD4) to be implemented as part of the overall program upgrades.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,077	\$746	\$2,566	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,390
Forecast	\$0	\$0	\$388	\$2,691	\$7,657	\$9,882	\$5,308	\$6,000	\$4,281	\$0	\$0	\$36,207
Total	\$1,077	\$746	\$2,954	\$2,691	\$7,657	\$9,882	\$5,308	\$6,000	\$4,281	\$0	\$0	\$40,597

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$1,077	\$746	\$2,954	\$2,691	\$7,657	\$9,882	\$5,308	\$6,000	\$4,281	\$0	\$0	\$40,597
Total	\$1,077	\$746	\$2,954	\$2,691	\$7,657	\$9,882	\$5,308	\$6,000	\$4,281	\$0	\$0	\$40,597

2024 Capital Project Detail Report

Project Title: WwTF Electrical Substation and Transformer Upgrade

Project Number: EN1297

Department: Infrastructure Department

Summary: At the Wastewater Treatment Facility , the project will replace the existing electrical infrastructure, including substation and transformers, and provide for the new electrical requirements associated with the Membrane Bio-Reactor project. The new electrical infrastructure is to be designed and constructed as part of the program of projects.

Rationale: Existing electrical substation and transformers were installed in 1984 and have a typical lifespan of 25 to 30 years. The membrane bioreactor will require additional power requirements above what is existing to run the plant resulting in the eventual upgrade of the electrical substation and transformers. The substation and transformer replacements are needed to keep the equipment in a state of good repair. The Wastewater Treatment Facility is dependent upon this equipment to remain in compliance with the Environmental Protection Act and in particular, the Environmental Compliance Approval.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,143	\$805	\$3,521	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,469
Forecast	\$0	\$0	\$1,526	\$3,800	\$3,807	\$5,000	\$1,260	\$0	\$0	\$0	\$0	\$15,393
Total	\$1,143	\$805	\$5,047	\$3,800	\$3,807	\$5,000	\$1,260	\$0	\$0	\$0	\$0	\$20,862

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$650	\$515	\$3,230	\$2,432	\$2,436	\$3,200	\$807	\$0	\$0	\$0	\$0	\$13,270
WW Capital Reserve	\$494	\$290	\$1,817	\$1,368	\$1,370	\$1,800	\$454	\$0	\$0	\$0	\$0	\$7,592
Total	\$1,143	\$805	\$5,047	\$3,800	\$3,807	\$5,000	\$1,260	\$0	\$0	\$0	\$0	\$20,862

2024 Capital Project Detail Report

Project Title: WwTF New Advanced Nutrient Removal

Project Number: EN1091

Department: Infrastructure Department

Summary: The membrane bioreactor process implementation will address the phosphorous effluent limits as required under the Lake Simcoe Phosphorus Reduction Strategy. The system would be designed and implemented for 76 MLD capacity, with process upgrades to allow for future expansion.

Rationale: Implementation of the membrane bioreactor process and associated upgrades is essential to meeting the requirements of Lake Simcoe Protection Act and servicing future growth. The effluent quality must be maintained during construction while treatment processes are replaced. Electrical power system upgrades and flow attenuation tank are also required to implement the MBR system. The entire program of capital works will be delivered using Integrated Project Delivery.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$9,126	\$2,785	\$3,615	\$4,000	\$4,410	\$0	\$0	\$0	\$0	\$0	\$0	\$23,936
Forecast	\$0	\$0	\$4,410	\$10,646	\$10,539	\$17,128	\$20,458	\$24,892	\$14,910	\$34,432	\$21,000	\$158,414
Total	\$9,126	\$2,785	\$8,025	\$14,646	\$14,948	\$17,128	\$20,458	\$24,892	\$14,910	\$34,432	\$21,000	\$182,350

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - DCs	\$3,910	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,910
DC Reserves	(\$3,720)	\$1,152	\$5,136	\$9,373	\$9,567	\$10,962	\$13,093	\$15,931	\$9,543	\$22,036	\$13,440	\$106,513
WW Capital Reserve	\$8,936	\$1,633	\$2,889	\$5,273	\$5,381	\$6,166	\$7,365	\$8,961	\$5,368	\$12,396	\$7,560	\$71,926
Total	\$9,126	\$2,785	\$8,025	\$14,646	\$14,948	\$17,128	\$20,458	\$24,892	\$14,910	\$34,432	\$21,000	\$182,350

2024 Capital Project Detail Report

Project Title: WwTF New Cogeneration and Biogas Treatment System

Project Number: EN1477

Department: Infrastructure Department

Summary: The existing flare is in poor condition needing immediate replacement. The existing flare cannot be repaired since it is under TSSA variance and its current location does not meet updated building setback requirements. Retrofitting the existing flare is not feasible as it is continually in use at the WwTF. Upgrading to a new flare with an enclosed system achieves lower emissions and eliminates visibility of the flare on Lakeshore Drive.

Rationale: A study completed in 2020 evaluated options for the optimization of the cogeneration and biogas treatment system at the WwTF. Among other recommendations, the flare was identified as needing an immediate replacement to meet current codes and standards.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$432	\$150	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$632
Forecast	\$0	\$0	\$1,401	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,401
Total	\$432	\$150	\$1,451	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,033
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$432	\$150	\$1,451	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,033
Total	\$432	\$150	\$1,451	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,033

2024 Capital Project Detail Report

Project Title: WwTF New HEX - PD1 & PD2

Project Number: 001148

Department: Infrastructure Department

Summary: Equipment approaching its end of life in the primary digestion process at the Wastewater Treatment Facility is in need of replacement. This necessary equipment will ensure that the plant continues to be in compliance.

Rationale: The existing equipment required for sludge processing through primary digestion, have reached the end of its useful life and is in need of replacement.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$30	\$100	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250
Forecast	\$0	\$0	\$0	\$0	\$275	\$750	\$375	\$0	\$0	\$0	\$0	\$1,400
Total	\$0	\$30	\$100	\$120	\$275	\$750	\$375	\$0	\$0	\$0	\$0	\$1,650

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
WW Capital Reserve	\$0	\$30	\$100	\$120	\$275	\$750	\$375	\$0	\$0	\$0	\$0	\$1,650
Total	\$0	\$30	\$100	\$120	\$275	\$750	\$375	\$0	\$0	\$0	\$0	\$1,650

2024 Capital Project Detail Report

Project Title: WwTF Sodium Hypo Temporary Relocation

Project Number: EN1245

Department: Infrastructure Department

Summary: This project is to relocate sodium hypochlorite storage from the existing Chemical Building at the Wastewater Treatment Facility to address health and safety requirements.

Rationale: Achieving regulatory compliance is increasingly difficult given the aging asset portfolio. The obligations include requirements related to fire and life safety requirements, hazardous substances, and environmental protection. Within the context of managing assets, the existing chemical building currently houses (on different levels) two incompatible chemicals without a scrubber for the off gases, and there is no odour control. The proposed study will recommend preferred location where one of the chemicals could be stored until the future MBR project is fully implemented.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,290	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,440
Total	\$1,290	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,440

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$771	\$0	\$96	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$867
WW Capital Reserve	\$519	\$0	\$54	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$573
Total	\$1,290	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,440

2024 Capital Project Detail Report

Project Title: Yonge Street ROW Expansion - Mapleview to Lockhart (City)

Project Number: EN1261

Department: Infrastructure Department

Summary: Reconstruction, urbanization and widening of Yonge Street to 5 lanes, including a multiuse trail and sidewalks between Mapleview Drive and Lockhart Road. Work also includes sanitary sewer, watermains and storm sewers along Yonge St and St. Paul's Cred.

Rationale: The Transportation Master Plan identified the need to widen Yonge Street to accommodate planned growth in the Secondary Plan lands, which will support the proposed mixed-use development that is identified for this corridor in the Hewitt's Secondary Plan.

The existing 2 lane rural cross-section is not sufficient to accommodate traffic volumes associated with planned growth. The preferred alternative identified the need to widen Yonge Street to 5 lanes and include buffered bike lanes and sidewalks.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$1,993	\$0	\$0	\$237	\$224	\$0	\$0	\$0	\$0	\$0	\$0	\$2,454
Forecast	\$0	\$0	\$0	\$826	\$6,745	\$6,500	\$6,656	\$0	\$0	\$0	\$0	\$20,727
Total	\$1,993	\$0	\$0	\$1,063	\$6,969	\$6,500	\$6,656	\$0	\$0	\$0	\$0	\$23,181

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Debenture Proceeds - Tax	\$0	\$0	\$0	\$99	\$630	\$601	\$0	\$0	\$0	\$0	\$0	\$1,330
DC Reserves	\$1,700	\$0	\$0	\$935	\$6,312	\$5,899	\$5,857	\$0	\$0	\$0	\$0	\$20,704
Tax Capital Reserve	\$292	\$0	\$0	\$28	\$27	\$0	\$799	\$0	\$0	\$0	\$0	\$1,146
Total	\$1,993	\$0	\$0	\$1,063	\$6,969	\$6,500	\$6,656	\$0	\$0	\$0	\$0	\$23,181

2024 Capital Project Detail Report

Project Title: Peggy Staite-Wong Pavilion Roof Structural Repair

Project Number: 001339

Department: Operations

Summary: The Peggy Staite-Wong Pavilion at the Wyman Jacques Arboretum in Sunnidale Park requires replacement of the glulam beams due to structural decay as a result of water damage. The pavilion was donated by Barrie Metals and dedicated to Peggy Staite-Wong.

A full structural assessment and engineering design was completed in 2022 for the repair of the pavilion roof. Repair would include removal of the roof, replacement of the beams and select rafters. The existing roof materials could be reused and replaced along with flashing and cover over all beams and rafters to ensure the problem does not reoccur.

Failure to fix the beams will result in collapse of the roof and damage to the roofing and rafters increasing the future cost of replacement by two-fold.

Rationale: Deterioration of the beams was noted in 2017 and follow up inspections and full engineering design has noted it as a high risk of failure. A complete engineering design including cost estimates was completed in 2022. The project to replace the roof and rectify the water damage and renew this asset for future use. The Pavilion is a popular location for tourists, wedding parties and photographers. The repair reduces the risk of a structural failure and allows the community to enjoy its use.

The pavilion is past its life expectancy and requires major repair to ensure it does not have a roof failure requiring it to be fully rebuilt, increasing the cost many times over from simple replacement of the beams and repair of the roof.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
Total	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Tax Capital Reserve	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100
Total	\$0	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100

2024 Capital Project Detail Report

Project Title: County of Simcoe Capital Program - Long Term Care & Senior Services (Active)

Project Number: 001307

Department: County of Simcoe

Summary: Capital Plan for Long Term Care & Senior Services delivered by the County of Simcoe. The costs included are the City of Barrie's share.

Rationale: The City of Barrie is party to an agreement with the County of Simcoe that requires the City to contribute funding toward the County's capital plan on a prescribed basis. This project reflects the first 3 years of the County's 10-year Capital Plan, as it relates to Long Term Care & Senior Services, at the time of budget preparation. The plan is subject to change.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$1,551	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,551
Forecast	\$0	\$0	\$2,284	\$2,294	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,578
Total	\$0	\$1,551	\$2,284	\$2,294	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,130

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$0	\$280	\$458	\$452	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,190
Simcoe County Capital Reserve	\$0	\$1,272	\$1,826	\$1,842	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,940
Total	\$0	\$1,551	\$2,284	\$2,294	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,130

2024 Capital Project Detail Report

Project Title: County of Simcoe Capital Program - Paramedic Services (Active)

Project Number: 001294

Department: County of Simcoe

Summary: Capital Plan for Paramedic Services delivered by the County of Simcoe. The costs included are the City of Barrie's share.

Rationale: The City of Barrie is party to an agreement with the County of Simcoe that requires the City to contribute funding toward the County's capital plan on a prescribed basis. This project reflects the first 3 years of the County's 10-year Capital Plan, as it relates to Paramedic Services, at the time of budget preparation. The plan is subject to change.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$3,407	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,407
Forecast	\$0	\$0	\$2,848	\$2,657	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,505
Total	\$0	\$3,407	\$2,848	\$2,657	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,911

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$0	\$384	\$451	\$510	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,345
Simcoe County Capital Reserve	\$0	\$3,022	\$2,396	\$2,148	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,567
Total	\$0	\$3,407	\$2,848	\$2,657	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,911

2024 Capital Project Detail Report

Project Title: County of Simcoe Capital Program - Social Housing & Community Services (Active)

Project Number: 001309

Department: County of Simcoe

Summary: Capital Plan for Social Housing & Community Services delivered by the County of Simcoe. The costs included are the City of Barrie's share.

Rationale: The City of Barrie is party to an agreement with the County of Simcoe that requires the City to contribute funding toward the County's capital plan on a prescribed basis. This project reflects the first 3 years of the County's 10-year Capital Plan, as it relates to Social Housing & Community Services, at the time of budget preparation. The plan is subject to change.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$7,325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,325
Forecast	\$0	\$0	\$8,348	\$9,711	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,060
Total	\$0	\$7,325	\$8,348	\$9,711	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25,384

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Simcoe County Capital Reserve	\$0	\$7,325	\$8,348	\$9,711	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25,384
Total	\$0	\$7,325	\$8,348	\$9,711	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25,384

2024 Capital Project Detail Report

Project Title: Lake Simcoe Regional Airport Program (Active)

Project Number: FI1028

Department: Lake Simcoe Regional Airport

Summary: Capital Plan for the Lake Simcoe Regional Airport delivered by the County of Simcoe. The costs included are the City of Barrie's share.

Rationale: The City of Barrie is party to an agreement with the County of Simcoe that requires the City to contribute funding toward the County's capital plan on a prescribed basis. This project reflects the first 3 years of the County's 10-year Capital Plan, as it relates to the Lake Simcoe Regional Airport, at the time of budget preparation. The plan is subject to change.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$163	\$956	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,119
Forecast	\$0	\$0	\$132	\$484	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$616
Total	\$163	\$956	\$132	\$484	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,735

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Airport Infrastructure Reserve	\$163	\$956	\$132	\$484	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,735
Total	\$163	\$956	\$132	\$484	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,735

2024 Capital Project Detail Report

Project Title: Lake Simcoe Regional Airport Runway Expansion

Project Number: FI1026

Department: Lake Simcoe Regional Airport

Summary: Capital Plan for the Lake Simcoe Regional Airport Runway Expansion delivered by the County of Simcoe. The costs included are the City of Barrie's share.

Rationale: The City of Barrie is party to an agreement with the County of Simcoe that requires the City to contribute funding toward the County's capital plan on a prescribed basis. This project reflects the first 3 years of the County's 10-year Capital Plan, as it relates to the Lake Simcoe Regional Airport Runway Expansion, at the time of budget preparation. The plan is subject to change.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$345	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$436
Total	\$345	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$436

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Airport Infrastructure Reserve	\$345	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$436
Total	\$345	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$436

2024 Capital Project Detail Report

Project Title: Bus Stop Infrastructure Replacements & Improvements Program (Active)

Project Number: 001298

Department: Transit & Parking Strategy

Summary: Implementation of the On-Street Transit Infrastructure Improvement Plan

Rationale: The implementation of the on-street transit infrastructure plan is intended to improve comfort and safety, improve the users experience, and meet accessibility guidelines. This program will replace existing bus stop infrastructure, enhance active transportation coordination, add and replace shelters, improve signage, comply with regulations, and support the growth of the transit system.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$610	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$610
Forecast	\$0	\$0	\$140	\$126	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$266
Total	\$0	\$610	\$140	\$126	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$876

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Province of Ontario Grant Revenue	\$0	\$201	\$46	\$42	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$289
Government of Canada Grant Revenue	\$0	\$244	\$56	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$351
Tax Capital Reserve	\$0	\$165	\$38	\$34	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$237
Total	\$0	\$610	\$140	\$126	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$876

2024 Capital Project Detail Report

Project Title: Conventional Transit Bus - Growth Program (Active)

Project Number: 001300

Department: Transit & Parking Strategy

Summary: Conventional Transit Bus - Growth

Rationale: The City has experienced growth in Salem and Hewitts area, which requires additional resources in 2024 and 2025 to service the residents in this area. In order to maintain current service standards, support the new service areas, and meet the City's transit mode share targets, growth of the fleet is required. The purchase of this fleet in 2024 and 2025 is directly related to the operating hours required as presented in the Transit Service Growth - Salem and Hewitts operating intake form.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$588	\$303	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$891
Forecast	\$0	\$0	\$0	\$0	\$1,598	\$0	\$0	\$0	\$0	\$0	\$0	\$1,598
Total	\$0	\$588	\$303	\$0	\$1,598	\$0	\$0	\$0	\$0	\$0	\$0	\$2,489

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
DC Reserves	\$0	\$500	\$257	\$0	\$1,358	\$0	\$0	\$0	\$0	\$0	\$0	\$2,116
Tax Capital Reserve	\$0	\$88	\$45	\$0	\$240	\$0	\$0	\$0	\$0	\$0	\$0	\$373
Total	\$0	\$588	\$303	\$0	\$1,598	\$0	\$0	\$0	\$0	\$0	\$0	\$2,489

2024 Capital Project Detail Report

Project Title: Conventional Transit Bus Replacement Program (Active)

Project Number: TR1039

Department: Transit & Parking Strategy

Summary: Replacement of conventional buses.

Rationale: Barrie Transit's current 20-year contract with MVT Barrie Bus Inc. identifies minimum maintenance requirements based on a fleet management strategy. Barrie Transit's fleet has a prescribed life cycle expectancy for each of its type of assets. By the end of its anticipated useful life the probability of failure on this in service asset is high and would cause significant impact on the service level provided to the residents. As such the transit bus replacement program identifies the annual requirements that will result in the retirement of the existing assets which have reached its expected life.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$1,468	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,468
Forecast	\$0	\$0	\$1,468	\$1,644	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,112
Total	\$0	\$1,468	\$1,468	\$1,644	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,580

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Province of Ontario Grant Revenue	\$0	\$0	\$0	\$543	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$543
Government of Canada Grant Revenue	\$0	\$0	\$0	\$658	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$658
Tax Capital Reserve	\$0	\$1,468	\$1,468	\$444	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,380
Total	\$0	\$1,468	\$1,468	\$1,644	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,580

2024 Capital Project Detail Report

Project Title: Municipal Paid Parking Lots Renewal Program (Active)

Project Number: TR1041

Department: Transit & Parking Strategy

Summary: Rehabilitation or reconstruction of Municipal Paid Parking Lots throughout the City of Barrie.

Rationale: Municipal Parking Lots provide a vital supporting service as a part of the transportation network. The Municipal Paid Parking Lot Renewal Program was designed to highlight and address the renewal needs associated with maintaining these parking lots and providing a higher level of service to parking users. Historically, renewal activities for parking lots have not been proactive or consistent resulting in the poor condition of nearly half of the paid lots in the City. Rehabilitation or reconstruction of physically deteriorated lots will increase customer level of service, improve safety, and generate additional parking supply and revenue; while meeting current City standards and AODA compliance.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$1,042	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,042
Forecast	\$0	\$0	\$600	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200
Total	\$0	\$1,042	\$600	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,242

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Parking Capital Reserve	\$0	\$1,042	\$600	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,242
Total	\$0	\$1,042	\$600	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,242

2024 Capital Project Detail Report

Project Title: Parking Payment Device Renewal Program (Active)

Project Number: TR1040

Department: Transit & Parking Strategy

Summary: Replacement and/or installation of new parking payment devices to service on and off street Municipal Paid Parking throughout the City of Barrie.

Rationale: This project is required to provide an acceptable level of service to users of the parking network through the renewal of payment devices that no longer meet industry standards and best practice. These payment devices have reached the end of their estimated service life and continue to act as a financial burden due to the increase of expenditures to repair, operate, and maintain their aging components. Replacement of these devices with those that are compliant with the Payment Card Industry and Europay, Mastercard, and Visa standards; will relieve the City of Barrie from full liability of fraudulent and illegal activity that it currently assumes with the existing network of magstripe only payment card options.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$184	\$173	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$357
Forecast	\$0	\$0	\$0	\$112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$112
Total	\$0	\$184	\$173	\$112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$469

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Parking Capital Reserve	\$0	\$184	\$173	\$112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$469
Total	\$0	\$184	\$173	\$112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$469

2024 Capital Project Detail Report

Project Title: Specialized Transit Bus Replacement Program (Active)

Project Number: TR1042

Department: Transit & Parking Strategy

Summary: Replacement of specialized buses.

Rationale: Barrie Transit's current 20-year contract with MVT Barrie Bus Inc. identifies minimum maintenance requirements based on a fleet management strategy. Barrie Transit's fleet has a prescribed life cycle expectancy for each of its type of assets. By the end of its anticipated useful life the probability of failure on this in service asset is high and would cause significant impact on the service level provided to the residents.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$220
Forecast	\$0	\$0	\$682	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,388
Total	\$0	\$220	\$682	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,608

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Province of Ontario Grant Revenue	\$0	\$73	\$225	\$233	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$531
Government of Canada Grant Revenue	\$0	\$88	\$273	\$282	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$643
Tax Capital Reserve	\$0	\$59	\$184	\$191	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$434
Total	\$0	\$220	\$682	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,608

2024 Capital Project Detail Report

Project Title: Blue Box Transition Planning

Project Number: BP1003

Department: Waste Management and Environmental Sustainability

Summary: Municipalities will begin transitioning their Blue Box programs to the new extended producer responsibility under a new legislated regulatory framework for resource recovery starting July 1, 2023, with the City of Barrie's transition commencing on May 1, 2024. On that same date (May 1, 2024) the city will also transition to a new waste collection contract and begin to implement system changes that are aligned with Barrie's circular economy framework. The City's Blue Box program is to be fully transitioned on January 1, 2026 and curbside waste collection system changes will continue into 2025 with the implementation of automated cart collection. Funding is required over the next 3 years to support the implementation of both the Blue Box and Waste Collection contract transition initiatives and to adjust existing policies (i.e. by-laws) and system standards, monitor program success and resolve related service delivery challenges.

Rationale: Leveraging the approved 2023/2024 project funds and adding additional funding in 2025 and 2026 to secure long-term project scoped internal temporary staff in both Communications and Environmental Sustainability is an effective and defensible approach to control and limit risks with sufficient confidence to deliver the critical project components such as planning, updating policies and standards, communications, implementation, monitoring, education, adjustments, reporting, and program maintenance. The need to procure external resources and provide staff time for contract oversight is eliminated.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$300	\$0	\$225	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$775
Total	\$300	\$0	\$225	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$775

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$30	\$0	\$23	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$78
Tax Capital Reserve	\$270	\$0	\$203	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$698
Total	\$300	\$0	\$225	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$775

2024 Capital Project Detail Report

Project Title: Future Solid Waste Disposal Option

Project Number: BP1004

Department: Waste Management and Environmental Sustainability

Summary: The outcome of this project will be the implementation of a solid waste disposal option, post landfill closure. Given that the studies conducted in 2022-2023 will identify options for Council consideration and approval with associated funding estimates, those inputted into the capital plan are very loose estimates for this project but will extend into 2035. Future construction costs are to be determined.

Rationale: The City of Barrie Landfill Site is forecasted to no longer have the capacity to accept waste in 2035. The feasibility of various options for alternative waste disposal will need to be analyzed to assist with deciding on a preferred option which would also take into account the Circular Economy approach. Currently, ten to fifteen (10 -15) years has been the estimated average time to obtain compliance approvals. Delaying the project any further may result in an increased cost as waste would need to be transported and disposed of off-site at an escalating cost. There would also be a time delay in obtaining approvals for this interim solution.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

Funding (in 000's):

	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$20	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Tax Capital Reserve	\$180	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$360
Total	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

2024 Capital Project Detail Report

Project Title: Groundwater Management Project

Project Number: BP1002

Department: Waste Management and Environmental Sustainability

Summary: This project will result in the development an overarching resource management framework, and updates to various the groundwater management tools to make informed decisions that are aligned.

Rationale: Many departments across the IGM Division and corporation as a whole interact and make decisions with respect to groundwater resource management. Currently, there is no overarching strategy on resource management. This project will result in the development an overarching groundwater resource management framework, and updates to various the groundwater management tools to make informed decisions that are aligned.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$100	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$100	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Voluntary Contributions Reserve	\$10	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Tax Capital Reserve	\$90	\$270	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$360
Total	\$100	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

2024 Capital Project Detail Report

Project Title: Purge Well 5 Infrastructure Tie In

Project Number: 001288

Department: Waste Management and Environmental Sustainability

Summary: Supply and install all infrastructure, electrical, and controls for Purge Well 5 (currently being installed) required to discharge leachate-impacted water to existing sanitary infrastructure.

Rationale: The current purge well configuration along the south side of the Landfill Site consists of four (4) purge wells which capture and discharge impacted groundwater to the City's sanitary sewer. Purge Well 3 is currently experiencing age-related deterioration and mechanical failure. A replacement purge well (Purge Well 5) is required to maintain compliance with existing approval issued by the Ministry of the Environment, Conservation and Parks (MECP).

Testing results of Purge Well 3 in the Spring of 2020 indicate that current performance represents a 49% decrease in the specific capacity and a 75% decline in well yield since the original construction in 2007. To maintain performance, Purge Well 3 is cleaned and rehabilitated on a more frequent basis than the other three purge wells. Over time, cleaning and rehabilitation becomes cost prohibitive to maintain the current well production.

As such, Purge Well 5 will be crucial in controlling the migration of impacted groundwater long-term as it is located down gradient the landfill cells and upstream the Site's boundary compliance wells. Without properly functioning environmental control systems in this area of the landfill, impacted groundwater will begin to migrate and reach the Site's boundary compliance wells. It is necessary to install the required Purge Well 5 infrastructure to enable effective capture of impacted groundwater, replacing Purge Well 3.

Purge Well 5 drilling and well construction will be completed in Q4 of 2023 as part of the approved 2023 Capital Plan.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
Request	\$0	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500
Total	\$0	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500
<u>Funding (in 000's):</u>												
	Prior Approvals	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total
WW Capital Reserve	\$0	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500
Total	\$0	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500