

2023 Capital Project Detail Report

Project Title: Mobile Response Technology Replacement

Project Number: BF1039

Department: Barrie Fire & Emergency Services

Summary: Mobile response technology replacement project.

Rationale: Replacement of mobile response technology that is past life cycle.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$20	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20	\$0	\$20
Total	\$20	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20	\$0	\$60

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$20	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20	\$0	\$60
Total	\$20	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20	\$0	\$60

2023 Capital Project Detail Report

Project Title: Portable/Mobile Radio Replacement

Project Number: BF1037

Department: Barrie Fire & Emergency Services

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$35	\$210	\$210	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$665
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$35	\$210	\$210	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$665

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$35	\$210	\$210	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$665
Total	\$35	\$210	\$210	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$665

2023 Capital Project Detail Report

Project Title: Blue Box Transition Planning

Project Number: 001145

Department: Business Perform & Enviro 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. The City's program is to be fully transitioned on January 1, 2026. Funding is required over the next 3 years to support the transition, the implications of new Waste Collection Contract (also commencing on May 1, 2024) and future waste management planning and program implementation.

Rationale: There are still a number of unknowns related to transition and what the City's role will be in the transition years (starting May 1, 2024) and beyond, as well as the resulting impacts to the City and Barrie residents. Funding is required to continue to investigate, analyze, consult, make decisions and educate based on this new legislation, the upcoming commencement of the new Waste Collection contract and the City's overall sustainable Waste Management Strategy.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Forecast	\$0	\$0	\$300	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$700
Total	\$0	\$300	\$300	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$30	\$30	\$20	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$100
Contribution from Tax Capital Reserve	\$0	\$270	\$270	\$180	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$900
Total	\$0	\$300	\$300	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000

2023 Capital Project Detail Report

Project Title: Environmental Obligations Program

Project Number: 001143

Department: Business Perform & Enviro Sustainability

Summary: The environmental obligations programs will shape our operational environmental policies and procedures to ensure co-ordination of effort and purpose. The program will establish the assurance framework to sustainably achieve environmental obligations across the corporation.

Rationale: The number of initiatives directed towards the environment has grown and evolved significantly over the last decade, as has the associated legislation, requirements for new program developments, public expectations and need for long term strategies. Greater coordination on objectives and alignment with outcomes is needed to address uncertainty with compliance risk, operational risk and environmental risk. The environmental obligations program will establish the environmental assurance framework and manage operational compliance facilitated through a continuous improvement culture.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15
Contribution from Tax Capital Reserve	\$0	\$135	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$135
Total	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

2023 Capital Project Detail Report

Project Title: Future Solid Waste Disposal Option

Project Number: 001146

Department: Business Perform & Enviro 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$0	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$20	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Contribution from Tax Capital Reserve	\$0	\$180	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$360
Total	\$0	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

2023 Capital Project Detail Report

Project Title: Groundwater Management Project

Project Number: 001144

Department: Business Perform & Enviro 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$100	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$0	\$100	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
<u>Funding (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$10	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Contribution from Tax Capital Reserve	\$0	\$90	\$270	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$360
Total	\$0	\$100	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

2023 Capital Project Detail Report

Project Title: North Barrier Wall Contamination & Infrastructure Condition Assessment

Project Number: 001149

Department: Business Perform & Enviro Sustainability

Summary: A fulsome assessment will be conducted on the methods being used to continue preventing contaminated groundwater from entering Kempenfelt Bay from the historical Coal Gasification Site contamination.

Rationale: The flow of contaminated groundwater, due to a historical coal gasification site, is currently being mitigated with a barrier wall system, with Environmental Compliance monitoring the levels of contamination within the groundwater. The fulsome review and assessment of the system assets and monitoring program will assist in ensuring the City's due diligence actions.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$45
Forecast	\$0	\$0	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30
Total	\$0	\$45	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$45	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
Total	\$0	\$45	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75

2023 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 existing and 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 2023 focus is corporate and recreational facilities, parks and fleet. Additional work will include investigation into systems to hold data, automate analysis and support decision making.

Rationale: In 2017 the Province passed O. Reg. 588/17 – Asset Management Planning for Municipal Infrastructure, which requires municipalities to have proposed level of services 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 \$6 billion 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 risk associated with asset failure. This is key to effective decision making related to investment in and management of assets - in particular, in the development of capital and operating and maintenance 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$389	\$100	\$225	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$814
Forecast	\$0	\$0	\$122	\$303	\$243	\$274	\$454	\$305	\$303	\$243	\$274	\$2,521
Total	\$389	\$100	\$347	\$403	\$243	\$274	\$454	\$305	\$303	\$243	\$274	\$3,335

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Administration Reserve	\$39	\$10	\$35	\$40	\$24	\$27	\$45	\$31	\$30	\$24	\$27	\$334
Contribution from Tax Capital Reserve	\$350	\$90	\$312	\$363	\$219	\$247	\$409	\$275	\$273	\$219	\$247	\$3,002
Total	\$389	\$100	\$347	\$403	\$243	\$274	\$454	\$305	\$303	\$243	\$274	\$3,335

2023 Capital Project Detail Report

Project Title: City Standards Improvements – Technical Expertise

Project Number: EN1492

Department: Corporate Asset Management

Summary: A two year pilot project to obtain consultant expertise to assist the Standards team in evaluating new and emerging options of building City infrastructure (roads, watermains, sewers etc).

Rationale: Staff do not have the expertise not the time to keep the City's infrastructure standards current; consulting expertise is required. Standards are essential to ensure that the City assumes and builds infrastructure that delivers services as intended, can be operated cost effectively, and meet regulatory obligations. Keeping the City's standards current ensures that the City is benefiting from new and emerging trends in infrastructure and materials design. Standards can impact the City's ability to adapt and mitigate for climate change and other risks. Making changes to standards must be done thoughtfully with full evaluation of cost, risk and performance expectations. While many staff have very specific expertise, they are fully allocated to other projects and operational activities. In addition, there are many areas of infrastructure where the City does not have expertise in house. The consultant expertise provided through this project will assist the Standards team in the evaluation of new and emerging infrastructure options. By applying consultant expertise and combining the output with existing processes the City will maximize it's ability to make informed and justified decisions that directly influence how all City infrastructure can be built.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$50	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125
Total	\$50	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$50	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125
Total	\$50	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125

2023 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, which has been out of service for a few years due to leakage/operational issues. 2022 leak detection work is underway and the project will continue to determine the best long term approach for this asset.

Rationale: 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 in case the supply from the Surface Water Treatment Plant is disrupted which has happened a few times in recent years. Also, it will delay expansion of the SwTP as identified in the 2019 Water Supply Master Plan, thereby deferring additional investment.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$100	\$55	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$100	\$55	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Water Capital Reserve	\$100	\$55	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335
Total	\$100	\$55	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335

2023 Capital Project Detail Report

Project Title: Fleet Replacement Program

Project Number: RP1156

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, 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 and incurring excessive repair and maintenance costs as a result of a failure to replace fleet assets within a reasonable time after exceeding the asset's economic useful life. This program will bring fleet replacements in line with the economic life of each asset, thereby avoiding the greater escalation of costs that will otherwise be required to keep the City's fleet in operation.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$17,807	\$200	\$3,350	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,357
Forecast	\$0	\$0	\$0	\$3,250	\$3,200	\$4,300	\$3,200	\$3,000	\$4,200	\$4,100	\$4,500	\$29,750
Total	\$17,807	\$200	\$3,350	\$4,250	\$3,200	\$4,300	\$3,200	\$3,000	\$4,200	\$4,100	\$4,500	\$52,107

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - Tax	\$9,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,000
Cont fr Fleet Management Reserve	\$8,807	\$200	\$3,350	\$4,250	\$3,200	\$4,300	\$3,200	\$3,000	\$4,200	\$4,100	\$4,500	\$43,107
Total	\$17,807	\$200	\$3,350	\$4,250	\$3,200	\$4,300	\$3,200	\$3,000	\$4,200	\$4,100	\$4,500	\$52,107

2023 Capital Project Detail Report

Project Title: Infrastructure Master Plans 2051

Project Number: EN1506

Department: Corporate Asset Management

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

Rationale: The province has released population and employment projections for the City to 2051. The last set of master plans evaluated growth needs to 2031 and 2041, and must now be updated to reflect the 2051 numbers. The master plans serve as the City's roadmap in implementing infrastructure to serve its future needs. The master plans need to be updated to reassess changes in needs / growth forecasts, so that they can be used to update the DC bylaw and for budgeting purposes. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$577	\$481	\$1,155	\$1,483	\$1,068	\$0	\$0	\$0	\$0	\$0	\$0	\$4,764
Total	\$577	\$481	\$1,155	\$1,483	\$1,068	\$0	\$0	\$0	\$0	\$0	\$0	\$4,764

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Administration Reserve	\$577	\$481	\$1,155	\$1,483	\$1,068	\$0	\$0	\$0	\$0	\$0	\$0	\$4,764
Total	\$577	\$481	\$1,155	\$1,483	\$1,068	\$0	\$0	\$0	\$0	\$0	\$0	\$4,764

2023 Capital Project Detail Report

Project Title: Marta Crescent and SWMF BR09 Drainage Study

Project Number: 001142

Department: Corporate Asset Management

Summary: Several properties on Marta Crescent have experienced standing water along the rear of their properties for the past few years. This project will include field work and specialized engineering study to recommend solutions to the issues in the area with the overall objective of addressing the issues and restoring the functionality of BR09 SWM Facility.

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. City staff require additional expertise from a qualified consultant to conduct an assessment of the situation 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Total	\$0	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Stormwater Capital Reserve	\$0	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Total	\$0	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

2023 Capital Project Detail Report

Project Title: NRP- HNS Grove B1 Neighbourhood Reconstruction

Project Number: 000724

Department: Corporate Asset Management

Summary: This neighbourhood reconstruction project includes right-of-way reconstruction of all assets in the right of way (road, watermain, sanitary sewer, storm sewer, culverts, streetlights, sidewalks, etc.), including replacement to current design standards and capacity requirements in the HNS Grove B neighbourhood; specifically the roadways of Berczy Street, Newton Street, and Davidson Street.

Rationale: Most of the subsurface infrastructure in this neighbourhood was constructed in the late 1940's through the 1950's and has experienced age-related deterioration or physical failure (watermain breaks, sanitary intrusions, sewer breaks, etc.), and needs replacement. Rights of way in this area were identified as candidates for full reconstruction based on aggregated risk associated with surface and subsurface infrastructure. Although the MPL for roadways in this area should generally be acceptable, they have a history of potholes forming and recent holding strategies applied in 2012 are nearing the end of their expected life. 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.

Full reconstruction of the rights of way will improve service levels to the community and 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$1,100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,100
Forecast	\$0	\$0	\$0	\$330	\$959	\$784	\$100	\$5,262	\$775	\$2,301	\$3,452	\$13,964
Total	\$0	\$1,100	\$0	\$330	\$959	\$784	\$100	\$5,262	\$775	\$2,301	\$3,452	\$15,064

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$1,100	\$0	\$330	\$259	\$212	\$100	\$5,262	\$775	\$622	\$932	\$9,592
Contribution from WW Capital Reserve	\$0	\$0	\$0	\$0	\$149	\$122	\$0	\$0	\$0	\$357	\$535	\$1,162
Contribution from Water Capital Reserve	\$0	\$0	\$0	\$0	\$124	\$102	\$0	\$0	\$0	\$299	\$448	\$973
Contribution from Stormwater Capital Reserve	\$0	\$0	\$0	\$0	\$427	\$349	\$0	\$0	\$0	\$1,025	\$1,537	\$3,338
Total	\$0	\$1,100	\$0	\$330	\$959	\$784	\$100	\$5,262	\$775	\$2,301	\$3,452	\$15,064

2023 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 a reduction in service levels result 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 are that 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$133	\$0	\$380	\$350	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$863
Forecast	\$0	\$0	\$0	\$515	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$515
Total	\$133	\$0	\$380	\$865	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,377

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Parks and Recreation Reserve	\$0	\$0	\$380	\$865	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,244
Cont fr DC Public Works Fac & Fleet Res	\$133	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$133
Total	\$133	\$0	\$380	\$865	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,377

2023 Capital Project Detail Report

Project Title: Pavement Condition Assessment

Project Number: 001136

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 \$700 million worth of pavement assets, and City staff use pavement condition data on a daily basis to manage this major asset class. This includes analysis related to infrastructure maintenance and renewal, levels of service, and forecasting financial needs.

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 with regards to the Road Resurfacing Program, reconstruction projects, major right of way renewal and expansion activities.

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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$200	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450
Forecast	\$0	\$0	\$0	\$0	\$0	\$200	\$250	\$0	\$0	\$200	\$250	\$900
Total	\$0	\$200	\$250	\$0	\$0	\$200	\$250	\$0	\$0	\$200	\$250	\$1,350

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$200	\$250	\$0	\$0	\$200	\$250	\$0	\$0	\$200	\$250	\$1,350
Total	\$0	\$200	\$250	\$0	\$0	\$200	\$250	\$0	\$0	\$200	\$250	\$1,350

2023 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.

The vehicles are required in 2023 or 2024, but extensive lead time for vehicle purchases requires budget approvals in advance.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$900	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$900	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Public Works Fac & Fleet Res	\$900	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500
Total	\$900	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500

2023 Capital Project Detail Report

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

Project Number: 001128

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$100	\$200	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350
Total	\$0	\$100	\$200	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Stormwater Capital Reserve	\$0	\$100	\$200	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350
Total	\$0	\$100	\$200	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350

2023 Capital Project Detail Report

Project Title: Stormwater Infrastructure Standard - Review and Update

Project Number: 001112

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 (~12 years), therefore this review is 7 years 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. Furthermore the City is introducing new concepts to the Standards such as performance based requirements and standardized requirements writing process to produce standards that better enable design flexibility while still providing for the desired levels of service expected of stormwater infrastructure.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$60	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$180
Total	\$0	\$60	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$180

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Stormwater Capital Reserve	\$0	\$60	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$180
Total	\$0	\$60	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$180

2023 Capital Project Detail Report

Project Title: Wastewater Inflow/Infiltration Reduction Action Plan

Project Number: EN1465

Department: Corporate Asset Management

Summary: A project to develop an Inflow and Infiltration (I&I) reduction program and activities for the City. The project involves compilation of all current data and the creation of a specific, actionable plans that are achievable 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). Significant I&I flows are currently being experienced at the WwTF and therefore increase the volume of water requiring treatment. Increased flows into the WwTF also use available capacity, advancing the need for plant expansion. In addition, higher than expected flows increase the risk of spills to the natural environment.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$350	\$375	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$925
Forecast	\$0	\$0	\$175	\$410	\$410	\$410	\$410	\$410	\$410	\$410	\$410	\$3,455
Total	\$350	\$375	\$375	\$410	\$410	\$410	\$410	\$410	\$410	\$410	\$410	\$4,380

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from DC Reserves Wastewater	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cont fr DC WW Collection FMB Reserve	\$151	\$161	\$161	\$176	\$176	\$176	\$176	\$176	\$176	\$176	\$176	\$1,883
Contribution from WW Capital Reserve	\$200	\$214	\$214	\$234	\$234	\$234	\$234	\$234	\$234	\$234	\$234	\$2,497
Total	\$350	\$375	\$375	\$410	\$410	\$410	\$410	\$410	\$410	\$410	\$410	\$4,380

2023 Capital Project Detail Report

Project Title: Watercourse Erosion Repair Program

Project Number: 001140

Department: Corporate Asset Management

Summary: This program intends to address small to medium watercourse erosion issues in areas not currently captured in the Capital Plan or in the Operating Budget and are candidates for creek rehabilitation. Projects will be selected on an annual basis to proceed to design and construction based on a multitude of factors including risk of property damage, mitigating sources of degraded water quality, and reducing ongoing maintenance issues of culverts and storm conveyance systems.

Rationale: Watercourse erosion has traditionally been addressed on a project-by-project basis and is typically sparked by culvert cleanouts, culvert replacement projects or based on an observed issue or a property owner complaint. Watercourse erosion puts property and infrastructure at risk. Status quo for addressing this problem is reactive and lets some smaller problems worsen to become larger more expensive problems. This program will allow the City to be more pro-active and strategic in addressing the issues and managing our watercourse assets.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$85	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$85
Forecast	\$0	\$0	\$140	\$195	\$195	\$195	\$195	\$195	\$195	\$195	\$195	\$1,700
Total	\$0	\$85	\$140	\$195	\$195	\$195	\$195	\$195	\$195	\$195	\$195	\$1,785

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Stormwater Capital Reserve	\$0	\$85	\$140	\$195	\$195	\$195	\$195	\$195	\$195	\$195	\$195	\$1,785
Total	\$0	\$85	\$140	\$195	\$195	\$195	\$195	\$195	\$195	\$195	\$195	\$1,785

2023 Capital Project Detail Report

Project Title: 2023 Accessible Pedestrian Pushbuttons

Project Number: 001130

Department: Development Services

Summary: Additional locations identified under this program have been delayed due to COVID-19. It is expected that the prior to 2023 the AAC will have met and identified 4 locations for implementation.

Rationale: We are requesting funds within the 2023 Capital Budget each installation is \$16,500. Due to COVID-19 locations will be identified at a later date.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70
Total	\$0	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70
Total	\$0	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70

2023 Capital Project Detail Report

Project Title: 2023 Central Traffic System Expansion

Project Number: 001133

Department: Development Services

Summary: Expansion of the existing 50 intersection Central Traffic System license to 100 intersection licenses. Additional arterials will benefit from signal coordination, remote monitoring, alarms and reporting provided by a Central Traffic System. The project would include the cellular connection of each traffic control cabinet at the intersection to the Central Traffic System at Ferndale Operations Centre.

Rationale: An expansion of the existing 50 intersection Central Traffic System to 100 intersections across several majors corridors to provide traffic signal progression and traffic demand management. Embedded reporting and diagnostic support will reduce down time and assist with in field troubleshooting at these additional locations.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125
Total	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125
<u>Funding (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125
Total	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125

2023 Capital Project Detail Report

Project Title: 2023 Permanent Traffic Calming

Project Number: 001129

Department: Development Services

Summary: Each ward will be evaluated for permanent measures consisting of a combination of permanent speed cushions or the potential for other forms of permanent traffic calming.

Rationale: Each ward will be evaluated for permanent measures consisting of permanent speed cushions or other potential traffic calming measures that will expand onto the existing permanent program with providing year round traffic calming.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Total	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Total	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

2023 Capital Project Detail Report

Project Title: 2023 PXO Sidewalk connectivity

Project Number: 001135

Department: Development Services

Summary: Implementation of minor sidewalk connections between a roadway and the existing sidewalk when new traffic right of way control is needed and not part of an existing project to improve pedestrian connectivity.

Rationale: Staff have recently began implementing pedestrian crossovers across the City and are finding that additional small sections of sidewalk bays or curb cuts are needed to connect the adjacent roadway to the existing sidewalk for pedestrians to access the sidewalks. There are currently not funds identified for these small modifications that staff have to request funding within staff reports when recommending projects. Staff anticipate approximately 5 installs a year @\$10,000 per installation and an additional \$5,000 for curb cuts at existing locations that currently have barrier curb in place preventing ease of access from the roadway to the sidewalk for strollers and pedestrians. The curb cuts will also provide ease of access for snow removal equipment when the machines are at intersections without curb cuts in place.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from 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

2023 Capital Project Detail Report

Project Title: 2023 School Zone Flasher Replacement

Project Number: 001134

Department: Development Services

Summary: Replacement of the School Zone Flashers for a reduced speed limit at 23 school zones, consisting of 46 individual units. The existing equipment has reached its end of life and salvaged or repaired parts are no longer available.

Rationale: Replacement of the School Zone Flashers for a reduced speed limit as the existing units have reached the end of life. Procurement and installation of a new system at each location would ensure the time of day speed limit would be active and enforceable under the Highway Traffic Act by Barrie Police Services..

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from 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

2023 Capital Project Detail Report

Project Title: 2023 Streetlight Infill Program

Project Number: 001131

Department: Development Services

Summary: Due to COVID-19, Traffic Services have not received any requests for 2023, however it is expected that by 2023 construction season it would be reasonable to expect 4-5 locations to be requested.

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60
Total	\$0	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60
Total	\$0	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60

2023 Capital Project Detail Report

Project Title: 2023 Traffic Signal Cabinet Replacement Program

Project Number: 001132

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.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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
<u>Funding (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital 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

2023 Capital Project Detail Report

Project Title: Annual Park and Open Space Parking Lot Renewal Program

Project Number: EN1266

Department: Development Services

Summary: 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.

Rationale: 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Request	\$555	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$580
Forecast	\$0	\$0	\$100	\$25	\$100	\$25	\$150	\$30	\$200	\$0	\$0	\$630
Total	\$555	\$25	\$100	\$25	\$100	\$25	\$150	\$30	\$200	\$0	\$0	\$1,210

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Cash-In-Lieu Parkland Reserve	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Contribution from Tax Capital Reserve	\$405	\$25	\$100	\$25	\$100	\$25	\$150	\$30	\$200	\$0	\$0	\$1,060
Total	\$555	\$25	\$100	\$25	\$100	\$25	\$150	\$30	\$200	\$0	\$0	\$1,210

2023 Capital Project Detail Report

Project Title: Annual Playground Revitalization Program

Project Number: EN1117

Department: Development Services

Summary: The Annual Playground Revitalization Program identifies and addresses aging and worn-out playground infrastructure that poses safety concerns to the general public and liability risks to the City. The program also emphasizes upgrading existing parks to meet current accessibility 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,130	\$590	\$610	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,330
Forecast	\$0	\$0	\$0	\$670	\$1,355	\$616	\$635	\$641	\$654	\$667	\$681	\$5,919
Total	\$2,130	\$590	\$610	\$670	\$1,355	\$616	\$635	\$641	\$654	\$667	\$681	\$9,249

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Government of Canada Grant Revenue	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Contribution from Cash-In-Lieu Parkland Reserve	\$1,667	\$590	\$610	\$670	\$1,355	\$616	\$635	\$641	\$654	\$667	\$681	\$8,786
Contribution from Tax Capital Reserve	\$413	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$413
Total	\$2,130	\$590	\$610	\$670	\$1,355	\$616	\$635	\$641	\$654	\$667	\$681	\$9,249

2023 Capital Project Detail Report

Project Title: Bayfield Street Right of Way Expansion - Cundles to Coulter

Project Number: EN1498

Department: Development Services

Summary: The MTO is replacing the Bayfield Street interchange with construction starting in 2025 and continuing for 3 to 4 years. MTO's scope includes widening Bayfield Street to 6 through lanes from Grove Street to Coulter Street. To align with MTO's improvements, Bayfield Street requires widening from MTO's north project limit to Cundles Road to 6 through lanes.

Rationale: Bayfield Street requires widening from 4-lanes to 6-lanes to align with MTO's proposed improvements on Bayfield Street at the Highway 400 interchange. The existing 4-lane section does not have sufficient capacity resulting in significant congestion and delays for residents during peak periods.

In consideration of the full depth rehabilitation completed in 2018 and property constraints, the EA Study will examine opportunities for phased implementation.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Request	\$950	\$1,283	\$1,310	\$1,540	\$950	\$0	\$0	\$0	\$0	\$0	\$0	\$6,033
Forecast	\$0	\$0	\$250	\$750	\$0	\$2,800	\$6,890	\$6,900	\$3,500	\$3,490	\$2,930	\$27,510
Total	\$950	\$1,283	\$1,560	\$2,290	\$950	\$2,800	\$6,890	\$6,900	\$3,500	\$3,490	\$2,930	\$33,543

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Developer Contributions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1	\$0	\$0	\$0	\$1
Cont fr DC Roads Reserve	\$488	\$514	\$631	\$1,105	\$618	\$1,820	\$4,297	\$4,121	\$1,658	\$1,398	\$1,398	\$18,044
Cont fr DC Stormwater FMB Reserve	\$0	\$77	\$153	\$153	\$0	\$0	\$0	\$0	\$176	\$351	\$351	\$1,260
Cont fr DC Water Dist FMB Reserve	\$130	\$130	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$260
Cont fr DC WW Collection FMB Reserve	\$0	\$53	\$108	\$108	\$0	\$0	\$120	\$241	\$241	\$241	\$0	\$1,111
Contribution from Tax Capital Reserve	\$263	\$277	\$340	\$595	\$333	\$980	\$2,314	\$2,219	\$893	\$753	\$753	\$9,716
Contribution from WW Capital Reserve	\$0	\$70	\$143	\$143	\$0	\$0	\$160	\$319	\$319	\$319	\$0	\$1,472

Contribution from Water Capital Reserve	\$70	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140
Contribution from Stormwater Capital Reserve	\$0	\$94	\$187	\$187	\$0	\$0	\$0	\$0	\$215	\$429	\$429	\$1,540
Total	\$950	\$1,283	\$1,560	\$2,290	\$950	\$2,800	\$6,890	\$6,900	\$3,500	\$3,490	\$2,930	\$33,543

2023 Capital Project Detail Report

Project Title: Bullut Subdivision New Park Development - Hewitts Park 10H - Village Square

Project Number: RP1183

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 2022. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$499	\$112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$611
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$499	\$112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$611

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Developer Front Ending (Annex) - Developer Build	\$499	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$499
Cont fr DC Parks and Recreation Reserve	\$0	\$112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$112
Total	\$499	\$112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$611

2023 Capital Project Detail Report

Project Title: Cycle Barrie Infrastructure Program

Project Number: EN1265

Department: Development Services

Summary: The Cycle Barrie Infrastructure Program (CBIP) is 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Request	\$2,465	\$275	\$225	\$125	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$3,140
Forecast	\$0	\$0	\$200	\$200	\$200	\$250	\$250	\$0	\$0	\$0	\$0	\$1,100
Total	\$2,465	\$275	\$425	\$325	\$250	\$250	\$250	\$0	\$0	\$0	\$0	\$4,240

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Province of Ontario Grant Revenue	\$1,014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,014

Cont fr DC Roads Reserve	\$397	\$179	\$276	\$211	\$163	\$163	\$163	\$0	\$0	\$0	\$0	\$1,550
Contribution from Tax Capital Reserve	\$1,055	\$96	\$149	\$114	\$88	\$88	\$88	\$0	\$0	\$0	\$0	\$1,676
Total	\$2,465	\$275	\$425	\$325	\$250	\$250	\$250	\$0	\$0	\$0	\$0	\$4,240

2023 Capital Project Detail Report

Project Title: Hewitts Gate Subdivision New Park Development - Hewitts Park 7H - Neighbourhood Park

Project Number: 000890

Department: Development Services

Summary: New subdivision development adding a Neighbourhood 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 2025. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$764	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$764
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$764	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$764

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Parks and Recreation Reserve	\$0	\$764	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$764
Total	\$0	\$764	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$764

2023 Capital Project Detail Report

Project Title: LM Barrie Subdivision New Park Development - Hewitts Park 13H - Neighbourhood Park

Project Number: 000895

Department: Development Services

Summary: New subdivision development adding a Neighbourhood 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 2026. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$1,850	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,850
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$1,850	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,850

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Parks and Recreation Reserve	\$0	\$1,850	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,850
Total	\$0	\$1,850	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,850

2023 Capital Project Detail Report

Project Title: Lockhart Subdivision New Park Development - Hewitts Park 16H - Village Square

Project Number: 000898

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 2026. 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. Staff are confident that the park construction will be well used by residents with the potential for year round activities.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$612	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$612
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$612	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$612

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Parks and Recreation Reserve	\$0	\$612	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$612
Total	\$0	\$612	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$612

2023 Capital Project Detail Report

Project Title: Lockmaple Development New Park Development - Hewitts Park 2H - Neighbourhood Park

Project Number: 000886

Department: Development Services

Summary: New subdivision development adding a Neighbourhood 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 2022. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$1,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$1,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Parks and Recreation Reserve	\$0	\$1,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400
Total	\$0	\$1,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,400

2023 Capital Project Detail Report

Project Title: MacMorrison Park Sports Program Replacement Plan

Project Number: EN1301

Department: Development Services

Summary: The relocation of a lit softball baseball diamond and 14 lit horseshoe pits from MacMorrison Park into another park is required before the entire decommissioning of the existing park takes place so that sport programming and service levels are not severely impacted. The removal of all the park facilities (with the exception of the park's playground) was recommended in the Sophia Creek Master Drainage Study.

Rationale: This request is in direct response to the design and construction of the storm water management pond that will completely remove the lit softball diamond and lit horseshoe pits in MacMorrison Park. In addition, the SWM Pond preliminary design also notes the removal of the existing washroom building and parking lot but retains the existing playground for neighbourhood use.

Based on the current information available for the Lampman Lane site, the design drawings are expected to be produced in-house with the \$50,000 budget projected for staff time, sub-consultant procurement (electrical lighting, etc.), agency review (LSRCA), survey and any additional testing requirements, permits and fees. The construction costs are based on DC values for baseball diamond retrofits and an approximate cost to reconstruct the horseshoe pits to match the current site design (wooden structure and sand surface). Both facilities will require LED lighting designs.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$180	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$505
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$180	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$505

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Cash-In-Lieu Parkland Reserve	\$180	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$505
Total	\$180	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$505

2023 Capital Project Detail Report

Project Title: Outdoor Racquet Sport Strategy

Project Number: 001113

Department: Development Services

Summary: The Outdoor Court Sports Strategy will set the strategic direction for the delivery of services and facilities for outdoor tennis and pickleball over the next 10 years.

The aim of the strategy is to support the City in forecasting the reconstruction, conversion and maintenance of existing tennis and pickleball outdoor courts and planning for additional facilities, while ensuring resources are directed towards facilities and projects that have the greatest impact.

A key outcome of the study is to provide direction to the City and its partners in ensuring a suitable mix of outdoor play court opportunities, planning for growth, justifying needs, identifying priorities for the revitalization of existing infrastructure and development of new courts to meet the needs of the entire community.

Rationale: The 2019 Council approved Outdoor Recreation Facility Strategy provided recommendations for the provision of courts for both tennis and pickleball based on user data and trends that have changed significantly in the last three years with the rapid expansion and advocacy of pickleball play throughout the City, provincially and nationally and across a much broader range of age groups participating in the sport. Tennis is further experiencing a resurgence in the growth of the sport nationally and locally that has continued since the time of the study.

The City requires an updated outdoor court strategy informed by a focused public consultation process to ensure a clear understanding of user demand, best practices, and trends to better position the City to plan for the long-term delivery of facilities, services, development of partnerships, and the identification of outdoor court priorities that benefit the entire community. The focus on outdoor play for this study is due to the current level of outdoor participation, limited existing amenity availability, and the increasing participation being experienced by both sports.

The public consultations will focus on assessment of participation rates, current challenges, consideration of potential partnership opportunities, building capacity for league/club play and planning for future demands to tennis and pickleball. Additionally, research of the trends and best practices from national, provincial, and municipal sources will be completed. A key outcome of the study is to ensure The City has the data needed to plan and deliver a suitable mix of opportunities, plan for growth, justify needs, and identify priorities for the revitalization of existing infrastructure and development of new courts to meet the needs of the entire community.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
Total	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total

Contribution from Tax Capital Reserve	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
Total	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75

2023 Capital Project Detail Report

Project Title: Play Court Construction and Rehabilitation

Project Number: EN1140

Department: Development Services

Summary: Rehabilitation of tennis and play court 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.

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 Roads, Parks, and Fleet department. Recreation Services loses approximately \$1,000 per tennis court per season in lost revenue from bookings when this occurs. The courts also serve a local recreational 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,456	\$475	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,931
Forecast	\$0	\$0	\$560	\$560	\$580	\$400	\$0	\$75	\$0	\$0	\$0	\$2,175
Total	\$2,456	\$475	\$560	\$560	\$580	\$400	\$0	\$75	\$0	\$0	\$0	\$5,106

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Federal Gas Tax Reserve	\$2,317	\$428	\$504	\$504	\$522	\$360	\$0	\$68	\$0	\$0	\$0	\$4,702
Contribution from Cash-In-Lieu Parkland Reserve	\$132	\$48	\$56	\$56	\$58	\$40	\$0	\$8	\$0	\$0	\$0	\$397
Contribution from Tax Capital Reserve	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7
Total	\$2,456	\$475	\$560	\$560	\$580	\$400	\$0	\$75	\$0	\$0	\$0	\$5,106

2023 Capital Project Detail Report

Project Title: Road Safety Assessment - Secondary Planning Areas

Project Number: 000961

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$80	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$380
Total	\$80	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$380

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Roads Annex Reserve	\$0	\$128	\$128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255
Contribution from Tax Capital Reserve	\$0	\$23	\$23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$45
Total	\$0	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

2023 Capital Project Detail Report

Project Title: Road Safety Program - Vision Zero & Traffic Calming Policy Development

Project Number: EN1488

Department: Development Services

Summary: Development of a Vision Zero policy and a new traffic calming policy to increase road safety for all users across the City.

Rationale: Vision Zero is a multi-national road traffic safety project that aims to achieve a highway system with no fatalities or serious injuries involving road traffic. New road safety policies are required to provide a safer environment for all road users in consideration of industry best practices, population growth and intensification.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Forecast	\$0	\$0	\$50	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Total	\$150	\$150	\$50	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$150	\$150	\$50	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450
Total	\$150	\$150	\$50	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450

2023 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 Annexed Lands and with implementation and to meet the timing of subdivision development.

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Request	\$1,960	\$841	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,801
Forecast	\$0	\$0	\$424	\$437	\$450	\$463	\$477	\$491	\$506	\$521	\$0	\$3,769
Total	\$1,960	\$841	\$424	\$437	\$450	\$463	\$477	\$491	\$506	\$521	\$0	\$6,570

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Developer Front Ending (Annex) - Developer Build	\$1,829	\$715	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,544
Cont fr DC Roads Annex Reserve	\$0	\$0	\$403	\$415	\$427	\$440	\$453	\$467	\$481	\$495	\$0	\$3,580
Contribution from Cash-In-Lieu Parkland Reserve	\$131	\$126	\$21	\$22	\$22	\$23	\$24	\$25	\$25	\$26	\$0	\$446
Total	\$1,960	\$841	\$424	\$437	\$450	\$463	\$477	\$491	\$506	\$521	\$0	\$6,570

2023 Capital Project Detail Report

Project Title: Transportation Tomorrow Survey

Project Number: EN1489

Department: Development Services

Summary: The City's contribution to the MTO Transportation Tomorrow Survey (TTS). The TTS is a cooperative effort by local and provincial government agencies to collect information about urban travel in southern Ontario. The survey has been undertaken every five years since 1986. The data collected helps local and regional governments, as well as the province and its agencies make transportation planning and investment decisions.

Rationale: All municipalities within the GGHA participate in the TTS. The City's share is 0.7% of the total project cost. This effort provides valuable transportation planning information that is used in the development of the Transportation Master Plan as well as traffic impact studies submitted to the City as part of development applications.

Municipalities that participated in the previous 2016 TTS include:

- City of Barrie
- City of Brantford
- City of Guelph
- City of Hamilton
- City of Kawartha Lakes
- City of Peterborough
- City of Toronto
- County of Brant
- County of Dufferin
- County of Peterborough
- County of Simcoe
- County of Wellington
- Metrolinx
- Ministry of Transportation Ontario
- Regional Municipality of Durham
- Regional Municipality of Halton
- Regional Municipality of Niagara
- Regional Municipality of Peel
- Regional Municipality of Waterloo
- Regional Municipality of York
- Toronto Transit Commission
- Town of Orangeville

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$32	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48
Total	\$32	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$32	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48
Total	\$32	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48

2023 Capital Project Detail Report

Project Title: Waterfront Park Furnishings Program

Project Number: RP1169

Department: Development Services

Summary: Year three of a capital program to install a higher quality and amenity of site furnishings for the waterfront to address an overall deficiency in public seating, 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$39	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$89
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$39	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$89

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Cash-In-Lieu Parkland Reserve	\$39	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$89
Total	\$39	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$89

2023 Capital Project Detail Report

Project Title: Culture Plan Update and Public Art Master Plan

Project Number: 001156

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 its 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 its 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$90	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$165
Total	\$0	\$90	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$165

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Reserves	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
Contribution from Tax Capital Reserve	\$0	\$15	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$90
Total	\$0	\$90	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$165

2023 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$175	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$325
Total	\$0	\$175	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$325

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$175	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$325
Total	\$0	\$175	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$325

2023 Capital Project Detail Report

Project Title: 5 Points Theatre Security System Expansion

Project Number: 001175

Department: Facilities Department

Summary: Expand upon the current CCTV system at the Five Points Theatre by adding additional exterior cameras as well as current locations inside the theatre that are not currently monitored, such as: Outside the front entrance doors on Dunlop St, The Bar in the Lower Lobby, the vestibule via the main entrance doors, and the upper lobby. The current system is prone to failure and is currently not functional.

Rationale: The safety of patrons and staff is important and there is a deficit of cameras at this location which poses a safety concern. Staff work into the evening and shows are typically in the evening and the exterior of the facility is not well monitored by CCTV cameras currently and this poses a risk to safety.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$59	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$59
Total	\$0	\$59	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$59

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6
Contribution from Tax Capital Reserve	\$0	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$53
Total	\$0	\$59	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$59

2023 Capital Project Detail Report

Project Title: 5th Floor Data Air Cooling Replacement

Project Number: FC1261

Department: Facilities Department

Summary: Replacement of the end-of-life air conditioning system in the city's central IT server room.

Rationale: The City's central data centre requires a dedicated server room air conditioning system for cooling. The existing server room A/C unit has reached end of its life and failures are occurring more and more often. Given the critical nature of the network equipment to the City's continued operation replacement of the unit is warranted at this time. Furthermore, there is currently only one computer room A/C unit installed in the data centre. This project would replace the end of life A/C unit with a pair of A/C units to provide cooling system redundancy going forward.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$40	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$190
Total	\$40	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$190

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$40	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$190
Total	\$40	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$190

2023 Capital Project Detail Report

Project Title: 79 Bell Farm Facility Refurbishment

Project Number: FC1268

Department: Facilities Department

Summary: This project involves the replacement and restoration of several exterior base building components of 79 Bell Farm Road.

Rationale: 79 Bell Farm Road houses Barrie Police Service training and support services. These services were intended to be relocated at the new Barrie Simcoe Emergency Services Campus (BSESC). This understanding meant 79 Bell Farm would be a surplus facility, and as a result required maintenance was deferred. However, due to budget constraints, the portion of the project to house these services at the BSESC was eliminated from scope. As a result of this new direction and deferred maintenance, the facility requires much needed refurbishment to mechanical, building controls system, electrical and building finishes components. Multiple exterior Air Handling Units (AHU) are at the end of their useful life and in need of replacement. A more efficient hybrid heat pump model will be installed. Additionally, the original sloped metal roof is in need of replacement. The panel finish is extensively worn with significant corrosion. Several leaks occur throughout the year which requires continuous patching and repairs. The roof insulation will also be upgraded to meet current basic building code requirements.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$550	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950
Total	\$550	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$550	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950
Total	\$550	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$10,235	\$0	\$10,470	\$8,908	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,612
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$10,235	\$0	\$10,470	\$8,908	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,612

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Province of Ontario Grant Revenue	\$3,376	\$0	\$3,171	\$2,701	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,247
Government of Canada Grant Revenue	\$4,091	\$0	\$3,784	\$3,223	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,098
Cont fr DC Transit Reserve	\$535	\$0	\$703	\$597	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,834
Contribution from Tax Capital Reserve	\$2,233	\$0	\$2,812	\$2,387	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,432
Total	\$10,235	\$0	\$10,470	\$8,908	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$29,612

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$3,800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,800
Request	\$1,000	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$4,800	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,300

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - Tax	\$3,046	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,046
Contribution from Federal Gas Tax Reserve	\$755	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$755
Contribution from Tax Capital Reserve	\$1,000	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500
Total	\$4,800	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,300

2023 Capital Project Detail Report

Project Title: Allandale Recreation Centre Large Pool Heating System Replacement

Project Number: FC1238

Department: Facilities Department

Summary: Design funding for the replacement of the end of life pool heating system and related components at the Allandale Recreation Centre.

Rationale: The Allandale Recreation Centre large pool heating systems are now over 15 years old and require replacement due to decreased functionality and increased maintenance costs. Technological and energy efficiency updates available through this replacement will provide probable savings to the Corporation in the long term. A detailed design and performance plan will be completed in 2021 and construction requested in 2022 with the appropriate dollar value.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$653	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$753
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$653	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$753

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Cash-In-Lieu Parkland Reserve	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500
Contribution from Tax Capital Reserve	\$153	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$253
Total	\$653	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$753

2023 Capital Project Detail Report

Project Title: Allandale Recreation Centre Mech. Renewal

Project Number: 001189

Department: Facilities Department

Summary: Intake #209, 211, 231, 338, 339, and 356. Renewal work identified in these intakes are being requested as a facility renewal project and would be procured as one project to reduce costs associated with design, construction and staff time.

Rationale: Due to the age of the facility the existing mechanical systems are at the end of their useful life. Key mechanical systems require replacement to ensure that the mechanical systems do not fail causing interruption to the services of the facility.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$950	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950
Total	\$0	\$950	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$950	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950
Total	\$0	\$950	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$950

2023 Capital Project Detail Report

Project Title: ARC Red Ice Plant Heat Exchanger Gasket Replacement

Project Number: 001182

Department: Facilities Department

Summary: Re-gasket the chiller heat exchanger plates. A heat exchanger is a series of alloy plates that allow the exchange/removal of heat from the refrigeration system. The plates are separated by gaskets that prevent leakage. The gaskets have a life span of 15 years, and the current gaskets are due for replacement in 2023.

Rationale: Refrigeration equipment require maintenance at specified timed intervals. Heat exchanger gaskets are required to be replaced every 15 years to avoid failure and leakage of refrigerant (ammonia) which is a significant safety risk to staff and contractors. The ice plant cannot operate without the heat exchanger so failure results in loss of access to the ice surface for our users and lost revenue.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Total	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
<u>Funding (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Total	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40

2023 Capital Project Detail Report

Project Title: Barrie Community Sports Complex Scoreboard(s) Replacement

Project Number: 000971

Department: Facilities Department

Summary: Remove and replace the scoreboards at the main Stadium and Field No. 3

Rationale: The main scoreboard and scoreboard at Field No. 3 were installed back in 2000 and have a 20-year life expectancy. These are due for replacement.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$111	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$111
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$111	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$111

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$111	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$111
Total	\$0	\$111	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$111

2023 Capital Project Detail Report

Project Title: Barrie Fire Station 1 Apparatus Bay Floor Resurfacing

Project Number: FC1248

Department: Facilities Department

Summary: The Apparatus Bay floor at Fire Station 1 is deteriorating faster than expected and remedial measures are required to maintain the integrity of the floor. Salt and brine off the Fire Trucks lower the resistance of concrete to water erosion and delamination causing premature wear. This project is intended to fix any prematurely worn areas and install a traffic coating to protect the concrete floor, thereby increasing its life expectancy.

Rationale: Fire Station 1 is now more than 10 years old and beginning to show its age. If left untreated, the apparatus bay floor will prematurely fail and need complete replacement at a significant capital cost. This project is being proposed to make minor repairs to the concrete, provide additional control joints and a new traffic coating that will protect the existing concrete floor. The traffic coating is expected to provide 10-15 years of protection from salt, brine, water and traffic that would otherwise wear on the concrete floor. This solution will greatly extend the life expectancy of the concrete Apparatus Bay floor at Fire Station 1.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from 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

2023 Capital Project Detail Report

Project Title: Barrie Fire Station 3 Partial Driveway Replacement

Project Number: 000860

Department: Facilities Department

Summary: After an 2018 inspection, the main driveway and parking lot at Fire Station 3 is beginning to fail. A shave and pave solution could be offered in the next few years to prolong the life of the asphalt or a full replacement will be required.

Rationale: The hard surface driveways at the Fire Stations help to protect the Fire Fleet assets from premature failure and increased maintenance. As the paved concrete and asphalt driveways begin to fail, cracks and holes can cause increased wear and tear on the Fire Fleet leading to additional expense and downtime.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from 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

2023 Capital Project Detail Report

Project Title: Barrie Fire Station 4 Partial Driveway Replacement

Project Number: 000861

Department: Facilities Department

Summary: After a 2018 inspection, the main driveway and parking lot at Fire Station 4 is beginning to fail. A shave and pave solution could be offered in the next few years to prolong the life of the asphalt or a full replacement will be required.

Rationale: The hard surface driveways at the Fire Stations help to protect the Fire Fleet assets from premature failure and increased maintenance. As the paved concrete and asphalt driveways begin to fail, the cracks and holes can cause increased wear and tear on the Fire Fleet leading to additional expense and downtime.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125
Total	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125

2023 Capital Project Detail Report

Project Title: Barrie Sports Dome Facility Improvements

Project Number: 001176

Department: Facilities Department

Summary: Various mechanical and electrical components of the Sports Dome require significant repairs or replacement to ensure the systems run as intended. Primarily it is the Sanitary drainage requiring work to improve the function of the system.

Rationale: Should the sanitary drainage backup the facility would not be able to function therefore causing a disruption to programming and residents use of the facility.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$173	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$173
Total	\$0	\$173	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$173

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17
Contribution from Tax Capital Reserve	\$0	\$155	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$155
Total	\$0	\$173	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$173

2023 Capital Project Detail Report

Project Title: BFES Permanent Training Facility Development

Project Number: Z268

Department: Facilities Department

Summary: The proposed solution will raise the level of necessary safety training of the Firefighters as recommended in the Fire Underwriters Survey and Fire Master Plan.

Rationale:

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Protection Reserve	\$0	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9
Contribution from Tax Capital Reserve	\$0	\$42	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$42
Total	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50

2023 Capital Project Detail Report

Project Title: BFES Station 3 Interior Renovations

Project Number: FC1059

Department: Facilities Department

Summary: 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 Short Term Goals (1-3 Years) 2014-2016 identified is to undertake renovations at Fire Station 3 to increase the functionality and increase capacity for multiple crews. As identified in the Fire Master Plan - Update 2014-2023, the following renovations are required:
 - Increasing the kitchen and lounge area to accommodate 2 crews of up to 10 firefighters
 - Increasing the sleeping quarters and locker rooms / bunker gear / fitness to accommodate more than 2 crews
 - Renovating to improve / expand female quarters

Rationale:

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140
Request	\$811	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$811
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$951	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$951
<u>Funding (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - Tax	\$914	(\$167)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$748
Cont fr Tax Rate Capital Holding Reserve	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Contribution from Tax Capital Reserve	\$36	\$167	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$202
Total	\$951	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$951

2023 Capital Project Detail Report

Project Title: BFES Station 4 Renovation

Project Number: FC1147

Department: Facilities Department

Summary: Interior renovation of BFES Station 4.

Rationale: Interior renovations at Station 4 are required to meet recommendations from the Fire Master Plan, and provide adequate female quarters space for BFES staff. Work will include reconfiguration of existing male quarters, locker area, and offices, to accommodate space needs and ensure accessibility and current code standards are implemented. This renovation also includes required renewal work that was identified in the Facility Condition Assessment studies completed in 2017, which will include replacement of HVAC units and electrical upgrades.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Request	\$1,080	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,080
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$1,080	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,080

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - Tax	\$1,019	(\$137)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$882
Cont fr Tax Rate Capital Holding Reserve	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Contribution from Tax Capital Reserve	\$60	\$137	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$197
Total	\$1,080	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,080

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,526	\$1,448	\$4,548	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,522
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$2,526	\$1,448	\$4,548	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,522

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$1,500	(\$1,500)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cont fr DC Protection Reserve	\$1,000	\$2,948	\$4,548	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,496
Contribution from Tax Capital Reserve	\$26	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26
Total	\$2,526	\$1,448	\$4,548	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,522

2023 Capital Project Detail Report

Project Title: Circle at the Center Ice Plant Chiller Replacement

Project Number: 001183

Department: Facilities Department

Summary: The current chiller will be 25 years old in 2023 and requires replacement based on end of life.

Rationale: A chiller must be replaced at the 25 year mark per TSSA. Extending the life of a chiller is not permitted by the TSSA because it is a sealed unit and the interior condition cannot be assessed properly. The consequence of a chiller failure to result in significant injury to staff and contractors or death as was the case in Fernie B.C.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$98	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$98
Total	\$0	\$98	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$98

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$98	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$98
Total	\$0	\$98	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$98

2023 Capital Project Detail Report

Project Title: City Hall and Fire HQ Generator Replacement

Project Number: 001036

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$700	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,700
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$700	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,700

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$70	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170

Contribution from Tax Capital Reserve	\$0	\$630	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,530
Total	\$0	\$700	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,700

2023 Capital Project Detail Report

Project Title: City Hall Parking Garage Ramp Waterproofing Below Exterior Stairs

Project Number: 001163

Department: Facilities Department

Summary: The parking garage waterproofing membrane above the garage and on each floor level was replaced in 2018, however leaking is occurring in southwest corner in the fenced/caged area. This area is below the exterior southwest concrete staircase which is not waterproofed. An investigation into the ingress of water and repairs are required to stop the ingress of water which will deteriorate the structure over time.

Rationale: In order to avoid structural deterioration and future costly repairs, investigating and repairing the cause of the leak is imperative.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from 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

2023 Capital Project Detail Report

Project Title: City Hall Parking Garage Sprinkler

Project Number: 001173

Department: Facilities Department

Summary: The City Hall parking garage sprinkler system is aging and end of it's life cycle. In the last 3 years all sprinkler heads have been replaced however key components such as pumps and piping require replacement to ensure the system functions as it should.

Rationale: The fire sprinkler system within the parking garage is part of the life safety system of the building. Ensuring that all life safety systems are operational, it affects the occupancy of City Hall.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax 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

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,552	\$880	\$2,340	\$1,170	\$1,196	\$1,222	\$0	\$0	\$0	\$0	\$0	\$8,360
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$1,552	\$880	\$2,340	\$1,170	\$1,196	\$1,222	\$0	\$0	\$0	\$0	\$0	\$8,360

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Public Works Fac & Fleet Res	\$491	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$491
Cont fr Voluntary Contr Annex Reserve	\$0	\$88	\$234	\$117	\$120	\$122	\$0	\$0	\$0	\$0	\$0	\$681
Contribution from Tax Capital Reserve	\$1,060	\$792	\$2,106	\$1,053	\$1,076	\$1,100	\$0	\$0	\$0	\$0	\$0	\$7,187
Total	\$1,552	\$880	\$2,340	\$1,170	\$1,196	\$1,222	\$0	\$0	\$0	\$0	\$0	\$8,360

2023 Capital Project Detail Report

Project Title: City Hall Retaining Wall Replacement

Project Number: 001169

Department: Facilities Department

Summary: The retaining walls below the south face of 56 Mulcaster are in poor shape. The retaining walls retain the earth below 56 Mulcaster therefore are an essential structural component of the building. Furthermore, the stairs at the southeast corner of the building are in poor shape and require replacement as the existing steps present tripping hazards.

Rationale: The existing steps are blocked off as they are tripping hazard.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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
<u>Funding (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from 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

2023 Capital Project Detail Report

Project Title: City Hall Rotunda Window Replacement

Project Number: 001161

Department: Facilities Department

Summary: As noted in past condition assessments, many windows at City Hall have been replaced as an operational need. Currently a significant number of windows have lost their seal or are leaking air or moisture. Once a window has failed the thermal resistance is reduced significantly causing an increased cost in building heating and cooling.

Rationale: Replacing failed windows is imperative to the associated cost of heating and cooling of city hall.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$255	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255
Total	\$0	\$255	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$255	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255
Total	\$0	\$255	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$255

2023 Capital Project Detail Report

Project Title: Collier Street Parkade Sprinkler Replacement Program

Project Number: FC1260

Department: Facilities Department

Summary: Replacement of cast iron sprinkler system piping in the Collier Street parkade with galvanized piping.

Rationale: Over the last several years, sections of the existing sprinkler piping and sprinkler heads have been replaced on an as required basis. Because the building is an exposed building with all levels open to the elements, and salt is imported into the building via vehicle traffic, deterioration of the building elements is accelerated. In addition, the piping of the sprinkler system consists of iron pipe which is to be replaced every 15 years. Replacing the piping with galvanized piping would greatly increase the life of the system, require much less repair and maintenance. This project would replace the remainder of the cast iron sprinkler piping with galvanized pipe along with associated heads and trace heating equipment.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$250	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$800
Total	\$250	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$800

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Parking Capital Reserve	\$250	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$800
Total	\$250	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$800

2023 Capital Project Detail Report

Project Title: Eastview Arena Sloped Roof Replacement

Project Number: 001178

Department: Facilities Department

Summary: The sloped roof section is 27,250 ft² and is comprised of a coated modified bituminous membrane applied over a wood sub-deck. The roof is showing a significant amount of blisters which indicates a combination of air and moisture trapped within. This has led to deterioration and leaking. Furthermore, there is significant de-bonding of the roof membrane, and this includes along the parapet walls which will contribute to further leaks.

Rationale: The sloped roof, over the arena floor/ice pad, was inspected by a consultant in 2021 and it revealed that the sloped roof from 1996 was in very poor condition. It has met its useful life and is failing. Failure to replace the roof could lead to closure and downtime of the facility and loss of access for the community which also has negative impacts on revenue.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$845	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$845
Total	\$0	\$845	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$845
<u>Funding (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$845	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$845
Total	\$0	\$845	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$845

2023 Capital Project Detail Report

Project Title: EMS Campus - Solar PV Installation

Project Number: 001186

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 (\$130K+ annually) greenhouse gas emissions, while producing a return on investment for the corporation.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$225	\$1,275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500
Total	\$0	\$225	\$1,275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$23	\$128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Contribution from Tax Capital Reserve	\$0	\$203	\$1,148	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,350
Total	\$0	\$225	\$1,275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500

2023 Capital Project Detail Report

Project Title: Facility Condition Assessment Program

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$75	\$150	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$525
Total	\$75	\$150	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$525

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Federal Gas Tax Reserve	\$56	\$113	\$113	\$113	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$394
Cont fr DC Administration Reserve	\$0	\$19	\$19	\$19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$56
Cont fr DC Public Works Fac & Fleet Res	\$19	\$19	\$19	\$19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
Total	\$75	\$150	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$525

2023 Capital Project Detail Report

Project Title: Furniture and Space Upgrades Program

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$75	\$175	\$175	\$175	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$775
Total	\$75	\$175	\$175	\$175	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$775

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$18	\$18	\$18	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$70
Contribution from Tax Capital Reserve	\$75	\$158	\$158	\$158	\$158	\$0	\$0	\$0	\$0	\$0	\$0	\$705
Total	\$75	\$175	\$175	\$175	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$775

2023 Capital Project Detail Report

Project Title: MacLaren Art Center Window Replacement Program

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 bases over 4 years starting in 2022.

Rationale:

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$50	\$50	\$250	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$50	\$50	\$250	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$400
<u>Funding (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$50	\$50	\$250	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$50	\$50	\$250	\$0	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$400

2023 Capital Project Detail Report

Project Title: MacLaren Arts Centre RTU Replacement and Roofing

Project Number: FC1272

Department: Facilities Department

Summary: The existing RTU at McClaren Arts Centre has reached the end of its life cycle. The RTU is a 70 ton unit which is 21 years old. Over the last several years, a significant amount of operating dollars have been spent repairing the unit. In addition, it is believed that the unit is oversized for the space that it serves. In combination with a replacement, staff would retain a consultant to verify the required size and look at more efficient options.

Rationale: The RTU is at the end of its life cycle, and to avoid spending a significant amount of operating dollars on replacing or repairing parts, a more efficient system would eliminate the operating dollars spent and save money on the operating costs.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$400	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$400	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$400	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550
Total	\$400	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550

2023 Capital Project Detail Report

Project Title: Marina Administration Building 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$647	\$0	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,447
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$647	\$0	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,447

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Marina Reserve	\$647	\$0	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,447
Total	\$647	\$0	\$0	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,447

2023 Capital Project Detail Report

Project Title: Marina 'I' and 'J' Dock Wood Decking Replacement

Project Number: FC1288

Department: Facilities Department

Summary: The marina I and J docks require new composite decking. The existing decking is at the end of its life cycle and requires replacing.

Rationale: The marina I and J docks require new composite decking. The existing decking is at the end of its life cycle and requires replacing.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Total	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Marina Reserve	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Total	\$75	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$12,950	\$4,000	\$14,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$31,450
Forecast	\$0	\$0	\$500	\$3,000	\$10,000	\$16,500	\$15,500	\$20,000	\$20,000	\$10,300	\$15,000	\$110,800
Total	\$12,950	\$4,000	\$15,000	\$3,000	\$10,000	\$16,500	\$15,500	\$20,000	\$20,000	\$10,300	\$15,000	\$142,250

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$5,185	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,185

Debenture Proceeds - Tax	\$7,765	\$1,596	\$7,904	\$1,500	\$5,000	\$8,250	\$7,750	\$10,000	\$10,000	\$5,150	\$7,500	\$72,415
Cont fr DC Public Works Fac & Fleet Res	\$0	\$2,404	\$7,096	\$1,500	\$5,000	\$8,250	\$7,750	\$10,000	\$10,000	\$5,150	\$7,500	\$64,650
Total	\$12,950	\$4,000	\$15,000	\$3,000	\$10,000	\$16,500	\$15,500	\$20,000	\$20,000	\$10,300	\$15,000	\$142,250

2023 Capital Project Detail Report

Project Title: Painswick Library Parking Lot and Landscaping Repairs

Project Number: FC1281

Department: Facilities Department

Summary: Cracking of the asphalt parking lot has increased. In order to stop the rate of deterioration/cracking, the parking lot should be shaved and repaved.

Rationale: In order to stop the rate of deterioration/cracking, the parking lot should be shaved and repaved. Yearly maintenance of the parking lot will reduce the rate of deterioration therefore prolonging the life of the parking lot and avoiding the cost of early or full replacement

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$10	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$160
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$10	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$160

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Cash-In-Lieu Parkland Reserve	\$10	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$160
Total	\$10	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$160

2023 Capital Project Detail Report

Project Title: Parkview Community Centre Roof Replacement

Project Number: 001179

Department: Facilities Department

Summary: 7200 ft2 of asphalt shingles need to be replaced as they are failing and leaking is occurring during heavy rain events. We do not have a consultant report but staff have noticed the issue and a remedy is required in 2023.

Rationale: This roof section is over the quilt room which is well utilized for seniors activities. The roof requires shingle replacement to avoid further leaking and to prevent damage to the wood sub-deck and insulation.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$85	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$85
Total	\$0	\$85	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$85

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$85	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$85
Total	\$0	\$85	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$85

2023 Capital Project Detail Report

Project Title: Peggy Hill Team Community Centre Roof Replacement

Project Number: FC1230

Department: Facilities Department

Summary: Remove and replace failed sections of the Holly Community Centre modified bitumen roof. Repair damaged insulation, flashing and miscellaneous metals based on destructive investigation and consulting reports.

Rationale: Significant sections of the modified bitumen roofing has failed at the Holly Community Centre. Leaks have become more common with patching required on a regular basis. Roof reviews utilizing thermal imaging have identified areas of roofing that need to be restored or replaced completely. This project will address major roof concerns that could cause future damage and disruption to services if not fixed. This project will only address areas of roof that are in poor condition and have failed.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,650	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,150
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$1,650	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,150

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Cash-In-Lieu Parkland Reserve	\$1,500	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,000
Contribution from Tax Capital Reserve	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Total	\$1,650	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,150

2023 Capital Project Detail Report

Project Title: Performing Arts Centre Redevelopment

Project Number: FC1138

Department: Facilities Department

Summary: Feasibility of redeveloping the Performing Arts Centre at the former Barrie Central Collegiate Institute (BCCI) into a stand-alone city theatre asset

Rationale: Feasibility study work currently underway as directed by council.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,082	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,382
Forecast	\$0	\$0	\$0	\$3,500	\$14,000	\$14,000	\$4,200	\$0	\$0	\$0	\$0	\$35,700
Total	\$1,082	\$300	\$0	\$3,500	\$14,000	\$14,000	\$4,200	\$0	\$0	\$0	\$0	\$37,082

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Province of Ontario Grant Revenue	\$0	\$75	\$0	\$300	\$450	\$600	\$75	\$0	\$0	\$0	\$0	\$1,499
Government of Canada Grant Revenue	\$0	\$100	\$0	\$400	\$600	\$800	\$100	\$0	\$0	\$0	\$0	\$1,999
Contribution from Reinvestment Reserve	\$732	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$858
Contribution from Theatre Reserve	\$0	\$0	\$0	\$2,800	\$12,950	\$12,601	\$4,025	\$0	\$0	\$0	\$0	\$32,376
Cont fr Strategic Priority Reserve	\$350	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$350
Total	\$1,082	\$300	\$0	\$3,500	\$14,000	\$14,000	\$4,200	\$0	\$0	\$0	\$0	\$37,082

2023 Capital Project Detail Report

Project Title: PHTCC Chiller Plates and Gasket Replacement

Project Number: 001184

Department: Facilities Department

Summary: Re-gasket the chiller heat exchanger plates. A heat exchanger is a series of alloy plates that allow the exchange/removal of heat from the refrigeration system. The plates are separated by gaskets that prevent leakage. The gaskets have a life span of 15 years, and the current gaskets are due for replacement in 2023.

Rationale: Refrigeration equipment require maintenance at specified timed intervals. Heat exchanger gaskets are required to be replaced every 15 years to avoid failure and leakage of refrigerant (ammonia) which is a significant safety risk to staff and contractors. The ice plant cannot operate without the heat exchanger so failure results in loss of access to the ice surface for our users and lost revenue.

<u>PROJECT EXPENDITURE AND FUNDING</u>												
<u>Expenditure (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Total	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
<u>Funding (in 000's):</u>												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Total	\$0	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40

2023 Capital Project Detail Report

Project Title: Sadlon Arena - Fire System Replacement

Project Number: FC1251

Department: Facilities Department

Summary: The project involves the removal and replacement of the existing fire alarm system including main annunciation panel, fixtures, and wiring.

Rationale: The existing fire alarm system is original to the 1995 building and has reached its 25 years life expectancy for replacement. Costs to maintain the fire alarm system are increasing and parts are becoming harder to source. Technology, building codes and fire codes have all changed over the past 25 years. Replacing the fire alarm system, including annunciator panel and audible and initiating devices, will also allow the upgrade of existing bells to newer horn/strobe devices, and the relocation of pull stations to meet modern barrier free requirements.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$297	\$95	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$392
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$297	\$95	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$392

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$297	\$95	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$392
Total	\$297	\$95	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$392

2023 Capital Project Detail Report

Project Title: Sadlon Arena Fire Sprinkler System Replacement

Project Number: FC1278

Department: Facilities Department

Summary: This project will replace the existing dry sprinkler system piping at the Sadlon Arena. The dry sprinkler system is the fire protection system serving the ice surface and spectator seating.

Rationale: The existing piping is original to the building and approximately 25 years old. The piping is approaching its end of useful life and in need of replacement. For several years, staff have been patching holes in the dry system, however, a replacement is required in order to maintain an adequate fire protection system for the arenas bowl area which includes the ice surface and spectator seating. There is significant risk to building occupants and City assets should failure of this system occur. Further, a non-functioning fire protection system will require the immediate closure of the facility.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$400	\$220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$620
Total	\$400	\$220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$620

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$400	\$220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$620
Total	\$400	\$220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$620

2023 Capital Project Detail Report

Project Title: Sadlon Arena Sound System Replacement

Project Number: FC1247

Department: Facilities Department

Summary: The Barrie Molson Centre is home to the OHL's Barrie Colts Hockey Team. As part of the lease agreement the BMC is to provide an adequate sound system for the arena and its events. The speakers and sound system is nearing the end of its useful life, and the quality of sound is becoming increasingly poor. A replacement of the sound system is necessary.

Rationale: Over the past few years, the Barrie Molson Centre sound system has been patched and modified in an attempt to maintain its performance and clarity. This project would remove the outdated 22 year old system and replace it with a new modern system capable of hosting a variety of events, most notably the Barrie Colts hockey team. If left as is, the sound system may fail, resulting in reduced enjoyment and potentially reduced attendance until replaced. A failure would also constitute a breach of services agreed to with the building's major tenant.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$375	\$186	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$561
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$375	\$186	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$561

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$375	\$186	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$561
Total	\$375	\$186	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$561

2023 Capital Project Detail Report

Project Title: South Shore Community Centre Electric Heater Replacement

Project Number: Z731

Department: Facilities Department

Summary: Replacement to natural gas will take advantage of energy savings

Rationale:

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30
Request	\$0	\$46	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$46
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$30	\$46	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$76

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$30	\$46	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$76
Total	\$30	\$46	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$76

2023 Capital Project Detail Report

Project Title: SWTP - Roofing Replacement Program

Project Number: 001078

Department: Facilities Department

Summary: This project will start with the inspection and testing of all roofs at the Surface Water Treatment Facility to understand the current condition and probable future capital expenditures required. By 2023 most roofs will be 15 years old and, it is common for roof systems to deteriorate over time so an inspection will lead to the early detection of roof problems, protection of capital assets, and maintenance of safe working environments for building occupants.

Rationale: The surface water treatment plant started construction in 2008 and was commissioned in 2011 and is approximately 150,000 sq/ft in size. These roofs are currently in good to fair condition but in order to accurately plan for future capital investment and prevents major leaks or their consequences, a thorough inspection, some testing and a summary report is required. Any roof repairs not dealt with after the first signs of failure can result in increased damage to the building envelope and interior finishes. This project will determine if the roof system is performing according to its original design, identify signs of weakness, deterioration or hazards and identify the needed repairs or replacement. As a result, a state of good repair program will be developed to identify areas for repair or replacement including a timeline and approximate cost.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Water 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

2023 Capital Project Detail Report

Project Title: Transit Terminal Exterior Door Replacement

Project Number: FC1257

Department: Facilities Department

Summary: Replacement of the exterior doors at the Transit Terminal which have reached the end of their useful life.

Rationale: At almost 30 years of age, the exterior doors at the Barrie Transit Terminal are original to the building and have deteriorated due to wear, age and the use of salt or ice melting materials for winter control purposes and continued localized repairs are not cost effective. This project will replace the doors, weather stripping and, where required, door hardware.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$125	\$275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$125	\$275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$125	\$275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$125	\$275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$400

2023 Capital Project Detail Report

Project Title: WWTF - Roofing Renewal Program

Project Number: 001075

Department: Facilities Department

Summary: This project will see a complete condition assessment for the roofs at the Wastewater Treatment Facility completed for a baseline knowledge along with recommendations for timing and level of restoration to maintain a good state of repair. Once the baseline report is complete in 2023 we will be able to more accurately plan out the future timing and expenses for the upgrade, repair or replacement of the roof assemblies at the Wastewater Treatment Facility.

Rationale: Several roofs at the Wastewater Treatment Facility have not been touched in nearly 20 years. It is anticipated that within the next 5 years, some repairs or replacements will be required. This project is being started with a funding request in 2023 to complete a through condition assessment of all roofs associated with the Wastewater Treatment Facility which will include any testing as required. Several placeholders have also been earmarked but will be updated based on the new information.
The timing for this project will coincide with long term decisions and capital upgrades being made for the plant's process. It is anticipated that a fulsome plan for the future of Barrie's Wastewater Treatment Facility will be known by this time. This will give us the full insight to determine where and how much capital investment is required.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Forecast	\$0	\$0	\$0	\$0	\$2,100	\$2,100	\$0	\$0	\$3,500	\$0	\$0	\$7,700
Total	\$0	\$200	\$0	\$0	\$2,100	\$2,100	\$0	\$0	\$3,500	\$0	\$0	\$7,900

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from WW Capital Reserve	\$0	\$200	\$0	\$0	\$2,100	\$2,100	\$0	\$0	\$3,500	\$0	\$0	\$7,900
Total	\$0	\$200	\$0	\$0	\$2,100	\$2,100	\$0	\$0	\$3,500	\$0	\$0	\$7,900

2023 Capital Project Detail Report

Project Title: WWTF Building Envelope & Brick Repair Program

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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$620	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,020
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$620	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,020

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from WW Capital Reserve	\$620	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,020
Total	\$620	\$200	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,020

2023 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$7,175	\$0	\$10,750	\$10,575	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$28,500
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$7,175	\$0	\$10,750	\$10,575	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$28,500

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$3,840	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,840
Cont fr DC WW Serv Facilities Reserve	\$728	\$0	\$6,880	\$6,768	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,376
Contribution from WW Capital Reserve	\$2,608	\$0	\$3,870	\$3,807	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,285
Total	\$7,175	\$0	\$10,750	\$10,575	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$28,500

2023 Capital Project Detail Report

Project Title: Year Round Downtown Market New Development

Project Number: FC1129

Department: Facilities Department

Summary: Completion of a design-build project for both a new Transit Hub Facility and the Market Precinct Project.

Rationale: Council approved an amendment to the 2017 budget request for completion of a financial and technical study to validate the Downtown Barrie Permanent Public Market Business Plan. Details were presented to Council in Staff Report FCT001-17 on January 23, 2017. The Business Plan was developed by the Market Steering/Working Group, formed by Council direction in 2015 to consider site selection, construction, operation, and programming of a year-round downtown public market. Investigations included a customer survey to seek input, gauge interest levels, and solicit programming suggestions. The survey results positively identified that 77.5% of respondents were 'very likely' to shop downtown if a public market was located there.

The Business Plan identified that the Transit Terminal building was the preferred of two locations. Of five potential options outlined in the Plan, a moderate renovation of the Transit Building site in conjunction with construction of a Farmers' Market structure (Option B) was selected as the move-forward option. Staff has recommended that a financial analysis, as well as a technical study including geotechnical investigations to confirm soil conditions and inform future planning and design, be completed to review the feasibility of Option B.

As identified, the technical and financial validation has been completed and staff recommendations were made in FCT006-17 which resulted in council motion 17-G-325 which approves the project subject to the following:

1. That the Downtown Barrie Permanent Public Market Technical and Financial Validation Study conducted by LETT Architects and attached as Appendix "A" to Staff Report FCT006-17, be received.
2. That Option C as set out in the Downtown Barrie Permanent Public Market Technical and Financial Validation Study, and the phased approach for Barrie Transit through a Multi Modal Transit Hub Study, be endorsed in principle, subject to future capital prioritization and approvals and subject to a report back to General Committee with options to reduce the overall project budget by \$2M and \$4M through design savings, with the proposed transit building being the first priority for reductions, and further, with options to shorten the overall project timelines by at least one year.
3. That funding for the Multi Modal Transit Hub Study that is being requested within the 2018 capital plan totaling \$100,000 to be funded from the Tax Rate Stabilization Reserve, be expedited, and approved to commence immediately, and staff report back to General Committee with the results of the Study. (FCT006-17) (File: R00)

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$133	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$383
Total	\$133	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$383

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25

Contribution from Tax Capital Reserve	\$133	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$358
Total	\$133	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$383

2023 Capital Project Detail Report

Project Title: DC, CBC and CIL of Parkland By-Laws

Project Number: FI1029

Department: Finance Department

Summary: Update to the City's Development Charge and Cash in-lieu of Parkland By-laws and implementation of a new Community Benefits Charges By-law.

Rationale: In order to continue to collect development charges, the City is required to complete a background study and pass an updated development charges by-law at least every 5 years.

The current City-wide by-law 2019-055 expires in June 2024, however per Council motion 21-G-270, in conjunction with the Long Range Financial Plan, the DC and a new CBC by-law are to be completed in 2023. The CIL of Parkland by-law will be updated as well for efficiency purposes. A new DC background study, CBC Strategy and Parkland review must be completed and new by-laws passed.

This work is anticipated to take several months to complete and will involve several meetings with stakeholders in most departments within the City. It is anticipated that the work will start mid-2022 and finish June 2023.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$230	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$430
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$230	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$430

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Administration Reserve	\$230	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$430
Total	\$230	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$430

2023 Capital Project Detail Report

Project Title: SAP Accounting/Procurement Sustainment

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$200
Forecast	\$0	\$0	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$0	\$0	\$700
Total	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$0	\$0	\$900

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$10	\$0	\$0	\$80
Contribution from Tax Capital Reserve	\$55	\$90	\$90	\$90	\$90	\$90	\$90	\$90	\$90	\$0	\$0	\$775
Contribution from WW Capital Reserve	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20
Contribution from Water Capital Reserve	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20
Contribution from Parking Capital Reserve	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5
Total	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$0	\$0	\$900

2023 Capital Project Detail Report

Project Title: Utility Billing Software

Project Number: FI1031

Department: Finance Department

Summary: Utility billing is currently processed in two systems. Great Plains is used to calculate property taxes and Naviline to calculate water billing.

Rationale: 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$457	\$550	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,557
Forecast	\$0	\$0	\$0	\$100	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$300
Total	\$457	\$550	\$550	\$100	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$1,857

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$55	\$55	\$10	\$10	\$10	\$0	\$0	\$0	\$0	\$0	\$140
Contribution from Tax Capital Reserve	\$251	\$495	\$495	\$90	\$90	\$90	\$0	\$0	\$0	\$0	\$0	\$1,511
Contribution from WW Capital Reserve	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$91
Contribution from Water Capital Reserve	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$91
Contribution from Parking Capital Reserve	\$23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23
Total	\$457	\$550	\$550	\$100	\$100	\$100	\$0	\$0	\$0	\$0	\$0	\$1,857

2023 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 could be automated to save supervisors in all departments time and energy, which in turn could be re-invested into their own areas of expertise.

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 and enhance customer service.

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 in terms of reduced administrative tasks expected of operations supervisors, increased legislative compliance in terms of policy roll out and adherence, and higher levels of productivity of all staff across the corporation.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$200	\$187	\$29	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$416
Total	\$200	\$187	\$29	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$416

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$19	\$3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22
Contribution from Tax Capital Reserve	\$110	\$168	\$26	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$304
Contribution from WW Capital Reserve	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Contribution from Water Capital Reserve	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Contribution from Parking Capital Reserve	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10
Total	\$200	\$187	\$29	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$416

2023 Capital Project Detail Report

Project Title: SAP Payroll Sustainment

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. Over the last four years, funds to cover these expenses were formerly paid for via the Finance SAP budget. This budget is now being 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$200	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$375
Forecast	\$0	\$0	\$175	\$175	\$175	\$175	\$175	\$175	\$175	\$0	\$0	\$1,225
Total	\$200	\$175	\$175	\$175	\$175	\$175	\$175	\$175	\$175	\$0	\$0	\$1,600

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$18	\$18	\$18	\$18	\$18	\$18	\$18	\$18	\$0	\$0	\$140
Contribution from Tax Capital Reserve	\$110	\$158	\$158	\$158	\$158	\$158	\$158	\$158	\$158	\$0	\$0	\$1,370
Contribution from WW Capital Reserve	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Contribution from Water Capital Reserve	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$40
Contribution from Parking Capital Reserve	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10
Total	\$200	\$175	\$175	\$175	\$175	\$175	\$175	\$175	\$175	\$0	\$0	\$1,600

2023 Capital Project Detail Report

Project Title: APLI (Applications, Permits, Licenses and Inspections) Expansion - Phase 3

Project Number: CC1003

Department: Information Technology

Summary: Implementation of the planned phase III of the existing Applications, Permits, Licensing, Inspections project (APLI), involving a roll out of the Accela system, and process re-engineering for By-Law, Fire, Environmental Services, Real Estate, Culture and Clerks Services.

Rationale: IT1026

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$340	\$340	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$680
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$340	\$340	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$680

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$34	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$34
Contribution from Tax Capital Reserve	\$340	\$306	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$646
Total	\$340	\$340	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$680

2023 Capital Project Detail Report

Project Title: Barrie Fire and Emergency Services Technology Program

Project Number: IT1044

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 1, 2, 3, 4, and 5.

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$500	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$600
Forecast	\$0	\$0	\$50	\$50	\$50	\$60	\$60	\$60	\$70	\$70	\$70	\$540
Total	\$500	\$100	\$50	\$50	\$50	\$60	\$60	\$60	\$70	\$70	\$70	\$1,140

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$10	\$5	\$5	\$5	\$6	\$0	\$0	\$0	\$0	\$0	\$31
Contribution from Tax Capital Reserve	\$500	\$90	\$45	\$45	\$45	\$54	\$60	\$60	\$70	\$70	\$70	\$1,109
Total	\$500	\$100	\$50	\$50	\$50	\$60	\$60	\$60	\$70	\$70	\$70	\$1,140

2023 Capital Project Detail Report

Project Title: BFES Next Gen 911 Phone System

Project Number: IT1050

Department: Information Technology

Summary: The City of Barrie is required to comply with updating the existing Barrie Fire and Emergency Services (BFES) dispatch phone system to meet compatibility with the Canadian Radio-television and Telecommunications Commission (CRTC) directed Next Gen 911 (NG9-1-1) phone network upgrades.

Rationale: Telephone companies will be responsible for the construction, operation, and maintenance of the NG9-1-1 networks, with CRTC oversight. City of Barrie will be required to update the BFES dispatch phone system to be compatible with NG 911.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,620	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,920
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$1,620	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,920

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$1,620	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,920
Total	\$1,620	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,920

2023 Capital Project Detail Report

Project Title: City of Barrie Facilities Wi-Fi Expansion

Project Number: IT1049

Department: Information Technology

Summary: This project is to provide support to City staff through the city-wide distribution and expansion of the current City of Barrie Wi-Fi technology infrastructure to all City facilities that currently do not provide it.

Rationale: WiFi is a prevalent technology in most workplaces. Providing the agility for staff to move around to different collaboration spaces while maintaining connectivity.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$300	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$330
Forecast	\$0	\$0	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$450
Total	\$300	\$30	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$780

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$3	\$5	\$5	\$5	\$5	\$0	\$0	\$0	\$0	\$0	\$23
Contribution from Tax Capital Reserve	\$300	\$27	\$45	\$45	\$45	\$45	\$50	\$50	\$50	\$50	\$50	\$757
Total	\$300	\$30	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$780

2023 Capital Project Detail Report

Project Title: Corporate Audio Visual Technology Infrastructure

Project Number: IT1029

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$320	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$470
Forecast	\$0	\$0	\$158	\$165	\$174	\$182	\$191	\$201	\$211	\$222	\$233	\$1,737
Total	\$320	\$150	\$158	\$165	\$174	\$182	\$191	\$201	\$211	\$222	\$233	\$2,207

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$15	\$16	\$17	\$17	\$18	\$0	\$0	\$0	\$0	\$0	\$83
Cont fr Building Code Surplus Reserve	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Contribution from Tax Capital Reserve	\$318	\$135	\$142	\$149	\$156	\$164	\$191	\$201	\$211	\$222	\$233	\$2,121
Contribution from WW Capital Reserve	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Contribution from Water Capital Reserve	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Total	\$320	\$150	\$158	\$165	\$174	\$182	\$191	\$201	\$211	\$222	\$233	\$2,207

2023 Capital Project Detail Report

Project Title: Corporate Communications Infrastructure Program

Project Number: IT1013

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: Several components of the existing communication infrastructure are beyond their useful life. Renewal and maintenance of the City's corporate communications infrastructure is required to sustain level of service. Additionally, the opportunity to replace all digital communication infrastructures with an IP based solution will reduce the risk of failure and satisfy the City's future communication needs.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,575	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,625
Forecast	\$0	\$0	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$450
Total	\$1,575	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$2,075

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$5	\$5	\$5	\$5	\$5	\$0	\$0	\$0	\$0	\$0	\$25
Cont fr Building Code Surplus Reserve	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Contribution from Tax Capital Reserve	\$1,533	\$45	\$45	\$45	\$45	\$45	\$50	\$50	\$50	\$50	\$50	\$2,008
Contribution from WW Capital Reserve	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16
Contribution from Water Capital Reserve	\$24	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24
Total	\$1,575	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$50	\$2,075

2023 Capital Project Detail Report

Project Title: Corporate PC Infrastructure Program

Project Number: IT1015

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 expires in 2020 which provides 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$706	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$706
Request	\$3,905	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,205
Forecast	\$0	\$0	\$500	\$600	\$630	\$662	\$695	\$729	\$766	\$804	\$844	\$6,229
Total	\$4,611	\$300	\$500	\$600	\$630	\$662	\$695	\$729	\$766	\$804	\$844	\$11,140

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$30	\$50	\$60	\$63	\$66	\$0	\$0	\$0	\$0	\$0	\$269
Contribution from Reserves	\$9	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9
Contribution from Tax Capital Reserve	\$4,468	\$243	\$405	\$486	\$510	\$536	\$625	\$656	\$689	\$723	\$760	\$10,101
Contribution from WW Capital Reserve	\$67	\$11	\$19	\$23	\$24	\$25	\$29	\$31	\$32	\$34	\$35	\$330
Contribution from Water Capital Reserve	\$66	\$16	\$26	\$32	\$33	\$35	\$41	\$43	\$45	\$47	\$49	\$432
Total	\$4,611	\$300	\$500	\$600	\$630	\$662	\$695	\$729	\$766	\$804	\$844	\$11,140

2023 Capital Project Detail Report

Project Title: Corporate Printing Infrastructure

Project Number: IT1014

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 imaging technology infrastructure renewal is required based on the industry standard, 5 year replacement cycle to reduce the risk of failure. Imaging 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$207	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$207
Request	\$612	\$130	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$742
Forecast	\$0	\$0	\$130	\$130	\$130	\$130	\$130	\$130	\$130	\$130	\$130	\$1,170
Total	\$818	\$130	\$130	\$130	\$130	\$130	\$130	\$130	\$130	\$130	\$130	\$2,118

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$13	\$13	\$13	\$13	\$13	\$0	\$0	\$0	\$0	\$0	\$65
Contribution from Tax Capital Reserve	\$804	\$117	\$117	\$117	\$117	\$117	\$130	\$130	\$130	\$130	\$130	\$2,039
Contribution from WW Capital Reserve	\$6	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6
Contribution from Water Capital Reserve	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8
Total	\$818	\$130	\$130	\$130	\$130	\$130	\$130	\$130	\$130	\$130	\$130	\$2,118

2023 Capital Project Detail Report

Project Title: Council Chambers Digital Broadcast Upgrade

Project Number: 001157

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$20	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170
Total	\$0	\$20	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$2	\$15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17
Contribution from Tax Capital Reserve	\$0	\$18	\$135	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$153
Total	\$0	\$20	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$170

2023 Capital Project Detail Report

Project Title: ITSM System Replacement

Project Number: 001158

Department: Information Technology

Summary: This project would replace the Information Technology Service Management system which is currently in use by the City, to allow for the continued use of this important application. The IT Department currently uses BMC Remedyforce as their IT Service Management solution to manage requests, changes, inventory, knowledgebase, and self-help. It has recently been disclosed that BMC is slowing down production and upgrades of Remedyforce in favour of their primary Helix platform. Since the City is required to go to market for this service in 2024, it makes sense to start the process as early as possible to move to a different system as there are a number of integrations, automations, and approval processes that will have to be rebuilt on a new platform.

Rationale: The IT Service Desk handles over 10,000 requests per year, many of which require input or work to be done by other areas of IT and FSSI. Having an IT Service Management platform is critical to being able to provide this service to the corporation. As our ability to continue to subscribe to this platform is limited by the purchasing by-law and changes to the software pricing and feature sets are imminent, it is recommended that we move forward with an RFP process as quickly as possible to replace the existing service. As procurement could take up to 6 months and implementation for a smooth transition could be an additional 6 to 10 months (depending on the amount of data that is going to be moved over, the complexity of the new system, and the abilities of the integrators), it would be ideal to have this in the 2023 budget. The annual costs associated with this type of system would be upwards of \$50,000 plus the initial implementation fees which could be as much as \$100,000.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from 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

2023 Capital Project Detail Report

Project Title: Mobility Technology Program

Project Number: IT1019

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. Also includes protective casing and screen protectors.

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 (although laptops are not in the funding scope of this intake form covered by PC Replacement Program). 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. The IT Department has recognized the City's growing need for mobile technology supporting mobile office and field workers in delivering services for the community.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$237	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$237
Request	\$1,244	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,394
Forecast	\$0	\$0	\$290	\$305	\$320	\$336	\$352	\$370	\$389	\$408	\$428	\$3,198
Total	\$1,481	\$150	\$290	\$305	\$320	\$336	\$352	\$370	\$389	\$408	\$428	\$4,829

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$15	\$29	\$30	\$32	\$34	\$0	\$0	\$0	\$0	\$0	\$140
Contribution from Tax Capital Reserve	\$1,480	\$135	\$261	\$274	\$288	\$302	\$352	\$370	\$389	\$408	\$428	\$4,688
Total	\$1,481	\$150	\$290	\$305	\$320	\$336	\$352	\$370	\$389	\$408	\$428	\$4,829

2023 Capital Project Detail Report

Project Title: Network Technology Infrastructure Program

Project Number: IT1010

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$750
Request	\$3,852	\$86	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,938
Forecast	\$0	\$0	\$336	\$563	\$961	\$386	\$436	\$486	\$536	\$686	\$486	\$4,876
Total	\$4,602	\$86	\$336	\$563	\$961	\$386	\$436	\$486	\$536	\$686	\$486	\$9,564

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Other Grant Revenues	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$50
Cont fr Voluntary Contr Annex Reserve	\$0	\$9	\$34	\$56	\$96	\$39	\$0	\$0	\$0	\$0	\$0	\$233
Contribution from Tax Capital Reserve	\$4,208	\$0	\$225	\$429	\$788	\$270	\$350	\$400	\$450	\$600	\$400	\$8,120
Contribution from WW Capital Reserve	\$120	\$27	\$27	\$27	\$27	\$27	\$30	\$30	\$30	\$30	\$30	\$405
Contribution from Water Capital Reserve	\$224	\$50	\$50	\$50	\$50	\$50	\$56	\$56	\$56	\$56	\$56	\$756
Total	\$4,602	\$86	\$336	\$563	\$961	\$386	\$436	\$486	\$536	\$686	\$486	\$9,564

2023 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 seamlessly 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-premise hardware investment through its planned lifecycle. While still gaining the benefits of the 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-premise hardware or move to a cloud model. And implement the recommendation. This will be a separate intake from this one.

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 ecosystem 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$0	\$500	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250
Total	\$0	\$0	\$500	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$0	\$50	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125
Contribution from Tax Capital Reserve	\$0	\$0	\$450	\$675	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,125
Total	\$0	\$0	\$500	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250

2023 Capital Project Detail Report

Project Title: Public Safety Communication Program

Project Number: IT1043

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. This program supports the ongoing support, maintenance and lifecycling of radio system hardware and software.

Rationale: This is required to maintain the City's public safety radio system used by BFES, Barrie Police and the City's Water Operations. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,364	\$440	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,804
Forecast	\$0	\$0	\$320	\$300	\$270	\$270	\$300	\$270	\$240	\$240	\$240	\$2,450
Total	\$2,364	\$440	\$320	\$300	\$270	\$270	\$300	\$270	\$240	\$240	\$240	\$5,254

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Local Board Contribution	\$620	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$620
Cont fr Voluntary Contr Annex Reserve	\$0	\$44	\$32	\$30	\$27	\$27	\$0	\$0	\$0	\$0	\$0	\$160
Contribution from Police Capital Reserve	\$320	\$198	\$180	\$162	\$135	\$135	\$150	\$150	\$120	\$120	\$120	\$1,790
Contribution from Tax Capital Reserve	\$1,195	\$198	\$108	\$108	\$108	\$108	\$150	\$120	\$120	\$120	\$120	\$2,455
Contribution from WW Capital Reserve	\$110	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$110
Contribution from Water Capital Reserve	\$118	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$118
Intercompany - General	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$2,364	\$440	\$320	\$300	\$270	\$270	\$300	\$270	\$240	\$240	\$240	\$5,254

2023 Capital Project Detail Report

Project Title: SAP Sustainment

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$100	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$180
Forecast	\$0	\$0	\$80	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$160
Total	\$100	\$80	\$80	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$340

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$8	\$8	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24
Contribution from Tax Capital Reserve	\$55	\$72	\$72	\$72	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$271
Contribution from WW Capital Reserve	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20
Contribution from Water Capital Reserve	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20
Contribution from Parking Capital Reserve	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5
Total	\$100	\$80	\$80	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$340

2023 Capital Project Detail Report

Project Title: Server and Desktop Software Program

Project Number: IT1024

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: Annual renewal of server and desktop software licenses is required in part through an existing contractual obligation with various vendors including Microsoft which require payments in 2017, 2018 and 2019, based on a new 3-year agreement signed in 2017. These license bundles offer volume pricing discounts, timely upgrades, and access to support.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$4,840	\$875	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,715
Forecast	\$0	\$0	\$885	\$895	\$900	\$910	\$920	\$930	\$940	\$950	\$975	\$8,305
Total	\$4,840	\$875	\$885	\$895	\$900	\$910	\$920	\$930	\$940	\$950	\$975	\$14,020

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$88	\$89	\$90	\$90	\$91	\$0	\$0	\$0	\$0	\$0	\$447
Cont fr Building Code Surplus Reserve	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13
Contribution from Tax Capital Reserve	\$4,819	\$788	\$797	\$806	\$810	\$819	\$920	\$930	\$940	\$950	\$975	\$13,552
Contribution from WW Capital Reserve	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5
Contribution from Water Capital Reserve	\$3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3
Contribution from Parking Capital Reserve	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Total	\$4,840	\$875	\$885	\$895	\$900	\$910	\$920	\$930	\$940	\$950	\$975	\$14,020

2023 Capital Project Detail Report

Project Title: Server and Storage Technology Infrastructure Program

Project Number: IT1012

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 every three years aligning with 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$1,100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,100
Request	\$3,761	\$635	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,396
Forecast	\$0	\$0	\$650	\$746	\$746	\$800	\$800	\$900	\$900	\$1,000	\$1,000	\$7,542
Total	\$4,861	\$635	\$650	\$746	\$746	\$800	\$800	\$900	\$900	\$1,000	\$1,000	\$13,038

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Voluntary Contr Annex Reserve	\$0	\$64	\$65	\$75	\$75	\$80	\$0	\$0	\$0	\$0	\$0	\$358
Contribution from Tax Capital Reserve	\$4,650	\$530	\$540	\$630	\$630	\$720	\$800	\$900	\$900	\$1,000	\$1,000	\$12,300
Contribution from WW Capital Reserve	\$76	\$14	\$16	\$14	\$14	\$0	\$0	\$0	\$0	\$0	\$0	\$135
Contribution from Water Capital Reserve	\$135	\$27	\$29	\$27	\$27	\$0	\$0	\$0	\$0	\$0	\$0	\$245
Total	\$4,861	\$635	\$650	\$746	\$746	\$800	\$800	\$900	\$900	\$1,000	\$1,000	\$13,038

2023 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 Sarjeant Drive to Anne Street.

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,468	\$4,250	\$2,570	\$3,680	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,968
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$2,468	\$4,250	\$2,570	\$3,680	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,968

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$1,437	\$1,341	\$1,105	\$1,582	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,465
Cont fr DC WW Collection FMB Reserve	\$168	(\$57)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$111
Contribution from WW Capital Reserve	\$864	\$2,965	\$1,465	\$2,098	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,392
Total	\$2,468	\$4,250	\$2,570	\$3,680	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,968

2023 Capital Project Detail Report

Project Title: Watermain Renewal Program

Project Number: EN1294

Department: Infrastructure Department

Summary: Renewal of watermains that pose a significant risk that otherwise are not apart of larger right-of-way reconstruction projects or that hold a strategic value in relation to other surrounding projects.

Rationale: As the City continues to address major infrastructure needs of some of our oldest infrastructure through stand alone right-of-way reconstruction projects, neighbourhood reconstruction projects, and renewal programs such as road resurfacing, cathodic protection, and sewer rehabilitation, the need still exists to address failing and aging watermains throughout the City. By addressing these watermains through the appropriate renewal efforts, the City will be restoring levels of service, reducing risk, and lower unexpected and costly reactive maintenance and repairs.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$3,975	\$806	\$1,130	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,911
Forecast	\$0	\$0	\$2,450	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,000	\$0	\$10,950
Total	\$3,975	\$806	\$3,580	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,000	\$0	\$16,861

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - Water	\$1,020	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,020
Contribution from Water Capital Reserve	\$2,955	\$806	\$3,580	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,000	\$0	\$15,841
Total	\$3,975	\$806	\$3,580	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,250	\$1,000	\$0	\$16,861

2023 Capital Project Detail Report

Project Title: Albert Street New Drainage Outlet

Project Number: EN1283

Department: Infrastructure Department

Summary: Undertake detailed design to 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 Kempfelt 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$71	\$10	\$50	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$331
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$71	\$10	\$50	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$331

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Federal Gas Tax Reserve	\$71	\$9	\$45	\$180	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$305
Contribution from Stormwater Capital Reserve	\$0	\$1	\$5	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26
Total	\$71	\$10	\$50	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$331

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$967	\$750	\$4,550	\$4,574	\$4,235	\$3,000	\$0	\$0	\$0	\$0	\$0	\$18,076
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$967	\$750	\$4,550	\$4,574	\$4,235	\$3,000	\$0	\$0	\$0	\$0	\$0	\$18,076

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - Water	\$0	\$750	\$4,550	\$4,574	\$4,235	\$3,000	\$0	\$0	\$0	\$0	\$0	\$17,109
Cont fr Water Rate Capital Holding Res	\$80	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$80
Contribution from Water Capital Reserve	\$887	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$887
Total	\$967	\$750	\$4,550	\$4,574	\$4,235	\$3,000	\$0	\$0	\$0	\$0	\$0	\$18,076

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$267	\$2,655	\$3,073	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,995
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$267	\$2,655	\$3,073	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,995

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$0	\$1,708	\$1,998	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,705
Cont fr DC Roads Reserve	\$173	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$173
Contribution from Tax Capital Reserve	\$94	\$947	\$1,076	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,117
Total	\$267	\$2,655	\$3,073	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,995

2023 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, bike lanes, sidewalk on the west side and replacement of an existing transmission watermain between Little Avenue and Big Bay Point Road.

Rationale: Multi-Modal Active Transportation Master Plan identified the need to widen the existing two (2) lane rural cross-section to three (3) lanes. Class Environment Assessment has identified the need for bike lanes and sidewalk as the preferred alternative. Widening of this link will reinforce the transportation network supporting the Harvie Road / Big Bay Point Road Highway Crossing. The existing 300mm trunk watermain has been identified for replacement due to corrosion and upsizing requirements to accommodate intensification and growth in the Secondary Plan Lands.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$4,027	\$1,520	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,547
Forecast	\$0	\$0	\$4,119	\$5,100	\$896	\$0	\$0	\$0	\$0	\$0	\$0	\$10,115
Total	\$4,027	\$1,520	\$4,119	\$5,100	\$896	\$0	\$0	\$0	\$0	\$0	\$0	\$15,662

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from DC Reserves Tax	\$921	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$921
Contribution from DC Reserves Water	\$87	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$87
Cont fr DC Roads Reserve	\$1,579	\$988	\$1,999	\$2,636	\$582	\$0	\$0	\$0	\$0	\$0	\$0	\$7,784
Cont fr DC Stormwater FMB Reserve	(\$338)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$338)
Cont fr DC Water Dist FMB Reserve	\$408	\$0	\$212	\$212	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$832
Cont fr DC WW Collection FMB Reserve	\$0	\$0	\$237	\$237	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$475
Contribution from Tax Capital Reserve	\$1,114	\$532	\$1,076	\$1,420	\$314	\$0	\$0	\$0	\$0	\$0	\$0	\$4,455
Contribution from WW Capital Reserve	\$0	\$0	\$315	\$315	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$629
Contribution from Water Capital Reserve	\$256	\$0	\$280	\$280	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$817
Total	\$4,027	\$1,520	\$4,119	\$5,100	\$896	\$0	\$0	\$0	\$0	\$0	\$0	\$15,662

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$9,625	\$0	\$652	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,277
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$9,625	\$0	\$652	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,277

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$3,775	(\$431)	\$424	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,768
Contribution from Development Charge Reserves	\$54	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$54
Contribution from DC Reserves Tax	\$461	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$461
Cont fr DC Roads Reserve	\$947	\$431	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,378
Cont fr DC Stormwater FMB Reserve	\$281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$281
Cont fr DC Water Dist FMB Reserve	\$648	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$648
Cont fr DC WW Collection FMB Reserve	\$67	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$67
Contribution from Tax Capital Reserve	\$2,968	\$0	\$228	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,196
Contribution from WW Capital Reserve	\$36	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$36

Contribution from Water Capital Reserve	\$387	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$387
Total	\$9,625	\$0	\$652	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,277

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,522	\$660	\$655	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,837
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$1,522	\$660	\$655	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,837

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$1,522	\$660	\$655	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,837
Total	\$1,522	\$660	\$655	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,837

2023 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$332	\$100	\$246	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$678
Forecast	\$0	\$0	\$0	\$800	\$958	\$1,000	\$0	\$0	\$0	\$0	\$0	\$2,758
Total	\$332	\$100	\$246	\$800	\$958	\$1,000	\$0	\$0	\$0	\$0	\$0	\$3,436

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Water Capital Reserve	\$332	\$100	\$246	\$800	\$958	\$1,000	\$0	\$0	\$0	\$0	\$0	\$3,436
Total	\$332	\$100	\$246	\$800	\$958	\$1,000	\$0	\$0	\$0	\$0	\$0	\$3,436

2023 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. The existing 2-lane rural cross-section is not sufficient to accommodate traffic volumes associated with the planned highway crossing.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$10,571	\$3,000	\$140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,711
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$10,571	\$3,000	\$140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,711

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
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
Contribution from DC Reserves Tax	\$814	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$814
Cont fr DC Roads Reserve	\$3,643	\$1,950	\$91	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,684
Cont fr DC Stormwater FMB Reserve	\$913	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$913
Cont fr DC Water Dist FMB Reserve	\$733	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$733
Cont fr DC WW Collection FMB Reserve	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4
Contribution from Tax Capital Reserve	\$3,219	\$1,050	\$49	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,318

Contribution from WW Capital Reserve	(\$2)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$2)
Contribution from Water Capital Reserve	\$399	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$399
Total	\$10,571	\$3,000	\$140	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,711

2023 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$211	\$275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$486
Forecast	\$0	\$0	\$542	\$1,103	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,645
Total	\$211	\$275	\$542	\$1,103	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,130

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from WW Capital Reserve	\$200	\$275	\$542	\$1,103	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,120
Cont fr Wasterwater Rate Cap Holding Res	\$11	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11
Total	\$211	\$275	\$542	\$1,103	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,130

2023 Capital Project Detail Report

Project Title: Bishop Drive Trunk Sanitary Sewer Expansion - Ferndale to Patterson

Project Number: EN1132

Department: Infrastructure Department

Summary: The existing trunk sanitary sewer from Ferndale Drive east located under Bishop Drive through easements to Patterson Road has capacity limitations. Several flow diversions upstream of Bishop Drive provide an economical solution and flow reduction which avoids replacing the sewer on Bishop Drive.

Rationale: The flow diversions need to be completed to minimize the likelihood of sewer back up into residential properties. The upstream flow diversions proposed will be a cost-effective long-term approach that will maintain levels of service and decrease the risk of sewer backups.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$545	(\$200)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$345
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$545	(\$200)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$345

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Development Charge Reserves	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16
Contribution from DC Reserves Wastewater	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2
Cont fr DC WW Collection FMB Reserve	\$111	(\$86)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25
Contribution from WW Capital Reserve	\$415	(\$114)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$301
Total	\$545	(\$200)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$345

2023 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 Maplevue 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 Maplevue 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$10,279	(\$5,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,279
Forecast	\$0	\$0	\$0	\$2,133	\$5,061	\$4,233	\$0	\$0	\$0	\$0	\$0	\$11,426
Total	\$10,279	(\$5,000)	\$0	\$2,133	\$5,061	\$4,233	\$0	\$0	\$0	\$0	\$0	\$16,705

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$5,485	(\$3,250)	\$0	\$1,440	\$3,518	\$2,751	\$0	\$0	\$0	\$0	\$0	\$9,944
Debenture Proceeds - Tax	\$2,954	(\$1,750)	\$0	\$693	\$1,543	\$1,481	\$0	\$0	\$0	\$0	\$0	\$4,920
Contribution from DC Reserves Tax	\$422	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$422
Contribution from Federal Gas Tax Reserve	\$364	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$364
Cont fr DC Roads Reserve	\$198	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$198
Contribution from Tax Capital Reserve	\$855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$855
Total	\$10,279	(\$5,000)	\$0	\$2,133	\$5,061	\$4,233	\$0	\$0	\$0	\$0	\$0	\$16,705

2023 Capital Project Detail Report

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

Project Number: EN1277

Department: Infrastructure Department

Summary: This work includes:

- construction of new urban 5-lane road between south of Harvie Rd and just north of Caplan Avenue
- 4 travel lanes with a centre paved median
- local servicing (water, sanitary, storm)
- On-road buffered bike lanes
- sidewalk installation on both sides
- Realigned intersection with Bryne Drive and old Bryne Dr
- Drainage and 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$6,861	(\$1,479)	\$2,400	\$6,046	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,828
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$6,861	(\$1,479)	\$2,400	\$6,046	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,828

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$1,905	(\$437)	\$1,560	\$3,587	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,616
Contribution from DC Reserves Tax	\$555	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$555
Cont fr DC Roads Reserve	\$2,187	(\$325)	\$0	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,187
Cont fr DC Stormwater FMB Reserve	(\$15)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$15)
Cont fr DC WW Collection FMB Reserve	\$503	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$503
Contribution from Tax Capital Reserve	\$1,725	(\$718)	\$840	\$2,134	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,981
Total	\$6,861	(\$1,479)	\$2,400	\$6,046	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,828

2023 Capital Project Detail Report

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

Project Number: EN1274

Department: Infrastructure Department

Summary: Conveyance improvements from West of Bradford Street to Lakeshore drive convey 1:100-year return 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$3,965	\$3,478	\$4,495	\$1,054	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$14,993
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$3,965	\$3,478	\$4,495	\$1,054	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$14,993

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$1,495	\$1,335	\$1,753	\$386	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$5,868
Contribution from DC Reserves Tax	\$115	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$115
Cont fr DC Roads Reserve	\$4	\$130	\$178	\$54	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$366
Cont fr DC Stormwater FMB Reserve	\$40	\$18	\$57	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$128
Cont fr DC Water Dist FMB Reserve	\$0	\$83	\$35	\$21	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$138
Contribution from Tax Capital Reserve	\$2,302	\$1,396	\$630	\$66	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,395
Contribution from Water Capital Reserve	\$10	\$101	\$42	\$25	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$179
Contribution from Stormwater Capital Reserve	\$0	\$415	\$1,800	\$488	\$1,100	\$0	\$0	\$0	\$0	\$0	\$0	\$3,804
Total	\$3,965	\$3,478	\$4,495	\$1,054	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0	\$14,993

2023 Capital Project Detail Report

Project Title: Codrington Booster Pumping Station Upgrades

Project Number: 001151

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$38	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$38
Forecast	\$0	\$0	\$40	\$58	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$98
Total	\$0	\$38	\$40	\$58	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$136

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Water Capital Reserve	\$0	\$38	\$40	\$58	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$136
Total	\$0	\$38	\$40	\$58	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$136

2023 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 & 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$7,350	\$3,556	\$5,272	\$4,436	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,614
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$7,350	\$3,556	\$5,272	\$4,436	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,614

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$845	\$1,787	\$3,082	\$2,590	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,304
Contribution from Development Charge Reserves	\$204	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$204
Contribution from DC Reserves Tax	\$1,752	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,752
Contribution from DC Reserves Water	\$873	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$873
Cont fr DC Roads Reserve	\$129	\$14	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$142
Contribution from Tax Capital Reserve	\$2,177	\$401	\$1,292	\$1,054	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,924
Contribution from WW Capital Reserve	\$839	\$413	\$285	\$128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,666
Contribution from Water Capital Reserve	\$531	\$405	\$518	\$114	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,568

Contribution from Stormwater Capital Reserve	\$0	\$536	\$96	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,181
Total	\$7,350	\$3,556	\$5,272	\$4,436	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,614

2023 Capital Project Detail Report

Project Title: Dunlop Street Interchange Replacement - Sarjeant Drive to Anne Street

Project Number: EN1306

Department: Infrastructure Department

Summary: Replacement of the Dunlop Street Interchange (City's contribution to the MTO for additional widening), associated road improvement beyond MTO project limits.

Rationale: The Ministry of Transportation (MTO) is replacing the Dunlop Street Interchange; this presents a unique opportunity for the City to cooperatively work with the MTO to construct additional infrastructure required to accommodate planned growth to 2041 in a manner that will reduce costs by pursuing a strategy that only includes key infrastructure elements that must be constructed with the MTO's planned project (wider highway crossing structure), while deferring elements that can be delayed (full corridor widening and intersection improvements at Dunlop Street and Anne Street).

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,667	(\$200)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,467
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$6,000	\$3,113	\$6,000	\$6,000	\$0	\$21,113
Total	\$1,667	(\$200)	\$0	\$0	\$0	\$0	\$6,000	\$3,113	\$6,000	\$6,000	\$0	\$22,580

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Roads Reserve	\$1,084	(\$130)	\$0	\$0	\$0	\$0	\$3,900	\$2,023	\$3,900	\$3,900	\$0	\$14,677
Cont fr Tax Rate Capital Holding Reserve	(\$1)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$1)
Contribution from Tax Capital Reserve	\$585	(\$70)	\$0	\$0	\$0	\$0	\$2,100	\$1,090	\$2,100	\$2,100	\$0	\$7,905
Total	\$1,667	(\$200)	\$0	\$0	\$0	\$0	\$6,000	\$3,113	\$6,000	\$6,000	\$0	\$22,580

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$5,856	\$1,221	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,377
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$5,856	\$1,221	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,377

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Developer Contributions	\$14	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14
Contribution from Development Charge Reserves	\$48	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48
Cont fr DC Water Dist FMB Reserve	\$391	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$391
Contribution from Tax Capital Reserve	\$3,267	\$831	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,398
Contribution from WW Capital Reserve	\$806	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,001
Contribution from Water Capital Reserve	\$1,330	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,525
Total	\$5,856	\$1,221	\$150	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,377

2023 Capital Project Detail Report

Project Title: Dyments Creek Culvert Expansion - Bradford St.

Project Number: EN1168

Department: Infrastructure Department

Summary: Replacement and expansion of the Dyments Creek culvert on Bradford Street. The project will include channel improvements upstream and downstream of the culvert, 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,361	\$25	\$1,749	\$1,336	\$1,368	\$50	\$0	\$0	\$0	\$0	\$0	\$6,888
Forecast	\$0	\$0	\$0	\$601	\$957	\$451	\$1,000	\$0	\$0	\$0	\$0	\$3,009
Total	\$2,361	\$25	\$1,749	\$1,937	\$2,325	\$501	\$1,000	\$0	\$0	\$0	\$0	\$9,897

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Development Charge Reserves	\$212	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$212
Contribution from Federal Gas Tax Reserve	\$755	\$14	\$962	\$961	\$939	\$197	\$550	\$0	\$0	\$0	\$0	\$4,378
Cont fr DC Roads Reserve	\$3	\$0	\$0	\$58	\$190	\$44	\$0	\$0	\$0	\$0	\$0	\$294
Cont fr DC Stormwater FMB Reserve	\$762	\$11	\$787	\$786	\$769	\$162	\$450	\$0	\$0	\$0	\$0	\$3,726
Cont fr DC Water Dist FMB Reserve	\$0	\$0	\$0	\$43	\$140	\$32	\$0	\$0	\$0	\$0	\$0	\$215
Contribution from Tax Capital Reserve	\$630	\$0	\$0	\$31	\$102	\$24	\$0	\$0	\$0	\$0	\$0	\$787
Contribution from Water Capital Reserve	\$0	\$0	\$0	\$57	\$185	\$43	\$0	\$0	\$0	\$0	\$0	\$285
Total	\$2,361	\$25	\$1,749	\$1,937	\$2,325	\$501	\$1,000	\$0	\$0	\$0	\$0	\$9,897

2023 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 northwest 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$634	\$0	\$1,725	\$215	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,574
Forecast	\$0	\$0	\$0	\$0	\$10	\$750	\$2,000	\$3,000	\$732	\$0	\$0	\$6,492
Total	\$634	\$0	\$1,725	\$215	\$10	\$750	\$2,000	\$3,000	\$732	\$0	\$0	\$9,067

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Federal Gas Tax Reserve	\$232	\$0	\$0	\$0	\$0	\$0	\$1,100	\$1,650	\$403	\$0	\$0	\$3,385
Cont fr DC Stormwater FMB Reserve	\$171	\$0	\$776	\$97	\$5	\$338	\$900	\$1,350	\$330	\$0	\$0	\$3,966
Cont fr Tax Rate Capital Holding Reserve	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18
Contribution from Tax Capital Reserve	\$214	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$214
Contribution from Stormwater Capital Reserve	\$0	\$0	\$949	\$118	\$6	\$413	\$0	\$0	\$0	\$0	\$0	\$1,485
Total	\$634	\$0	\$1,725	\$215	\$10	\$750	\$2,000	\$3,000	\$732	\$0	\$0	\$9,067

2023 Capital Project Detail Report

Project Title: End of Life Pavement Replacement Program

Project Number: EN1308

Department: Infrastructure Department

Summary: The End-of-Life Pavement Replacement Program will focus on roads where ride quality is poor or very poor, physical maintenance is trending high, and reconstruction is several years away or not currently planned. Typical candidates will be roads that are too far deteriorated for the Road Resurfacing Program and are not candidates for reconstruction in the short term. The program may act as a holding strategy.

Rationale: The program will address Barrie's worst pavement surfaces by replacing the surfaces or managing localized trouble areas to help reduce continuous operational dependencies. There are many streets that require larger scale asphalt replacements but due to budget constraints, these repairs are usually avoided and left until reconstruction. Reconstruction is often years away or there may be no plans for reconstruction as subsurface infrastructure is still in acceptable condition. These road sections are beyond preservation or rehabilitation and require regular pothole patching and provide poor ride quality.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$3,900	\$655	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,555
Forecast	\$0	\$0	\$655	\$655	\$655	\$655	\$655	\$655	\$655	\$655	\$655	\$5,895
Total	\$3,900	\$655	\$655	\$655	\$655	\$655	\$655	\$655	\$655	\$655	\$655	\$10,450

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Federal Gas Tax Reserve	\$3,525	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$625	\$9,775
Contribution from Tax Capital Reserve	\$375	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$675
Total	\$3,900	\$655	\$655	\$655	\$655	\$655	\$655	\$655	\$655	\$655	\$655	\$10,450

2023 Capital Project Detail Report

Project Title: Essa Road Expansion - Athabaska to Salem (Developer)

Project Number: EN1456

Department: Infrastructure Department

Summary: Road Reconstruction and widening of Essa Road from 2-lanes to 3-lanes, active transportation bike lanes, sanitary sewer, stormwater management, traffic signals and illumination for Mabern intersections. Project includes community Sanitary Trunk sewer to service future development to the south.

Rationale: This project encompasses work that will be completed on the stormwater, wastewater, and road assets. The benefit of this project will result in providing:

- Service to future development of annexed lands as determined in the transportation master plan
- Sanitary services for future development along Salem Road and to the south secondary plan areas.
- An urbanized road cross-section which will convey runoff to storm outlets and draining to Bear Creek Tributary.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$375
Total	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$375

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Developer Front Ending (Annex) - Developer Build	\$319	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$319
Debenture Proceeds - Tax	\$56	(\$56)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from Tax Capital Reserve	\$0	\$56	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$56
Total	\$375	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$375

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$626	\$1,000	\$281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,907
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$626	\$1,000	\$281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,907

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$626	\$1,000	\$281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,907
Total	\$626	\$1,000	\$281	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,907

2023 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. Metrolinx has plans to realign the rail track across Essa Road.

Rationale: A Railline 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 Metrolinx and the Allandale Transit Mobility Hub projects.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$885	(\$699)	\$147	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$333
Forecast	\$0	\$0	\$0	\$60	\$748	\$590	\$0	\$0	\$0	\$0	\$0	\$1,398
Total	\$885	(\$699)	\$147	\$60	\$748	\$590	\$0	\$0	\$0	\$0	\$0	\$1,731

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Sundry Revenue	\$15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15
Contribution from Tax Capital Reserve	\$870	(\$699)	\$147	\$60	\$748	\$590	\$0	\$0	\$0	\$0	\$0	\$1,716
Total	\$885	(\$699)	\$147	\$60	\$748	\$590	\$0	\$0	\$0	\$0	\$0	\$1,731

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,856	\$3,646	\$3,646	\$2,822	\$894	\$0	\$0	\$0	\$0	\$0	\$0	\$12,863
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$1,856	\$3,646	\$3,646	\$2,822	\$894	\$0	\$0	\$0	\$0	\$0	\$0	\$12,863

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	(\$235)	\$2,365	\$2,365	\$1,831	\$581	\$0	\$0	\$0	\$0	\$0	\$0	\$6,908
Cont fr DC Roads Reserve	\$1,441	\$5	\$5	\$3	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,453
Contribution from Tax Capital Reserve	\$649	\$1,276	\$1,276	\$988	\$313	\$0	\$0	\$0	\$0	\$0	\$0	\$4,502
Total	\$1,856	\$3,646	\$3,646	\$2,822	\$894	\$0	\$0	\$0	\$0	\$0	\$0	\$12,863

2023 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.

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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$681	(\$190)	\$0	\$0	\$10	\$210	\$0	\$0	\$0	\$0	\$0	\$712
Forecast	\$0	\$0	\$0	\$0	\$0	\$915	\$4,850	\$5,500	\$2,700	\$381	\$0	\$14,346
Total	\$681	(\$190)	\$0	\$0	\$10	\$1,125	\$4,850	\$5,500	\$2,700	\$381	\$0	\$15,058

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Development Charge Reserves	\$59	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$59
Contribution from DC Reserves Tax	(\$268)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$268)
Cont fr DC Roads Reserve	\$621	(\$124)	\$0	\$0	\$7	\$364	\$2,608	\$3,575	\$163	\$248	\$0	\$7,461
Cont fr DC Stormwater FMB Reserve	(\$27)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,103	\$0	\$0	\$1,076
Cont fr DC Water Dist FMB Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$430	\$0	\$0	\$0	\$0	\$430
Cont fr DC WW Collection FMB Reserve	\$3	\$0	\$0	\$0	\$0	\$367	\$0	\$0	\$0	\$0	\$0	\$370
Contribution from Tax Capital Reserve	\$289	(\$67)	\$0	\$0	\$4	\$196	\$1,243	\$1,925	\$88	\$133	\$0	\$3,811
Contribution from WW Capital Reserve	\$4	\$0	\$0	\$0	\$0	\$198	\$0	\$0	\$0	\$0	\$0	\$202
Contribution from Water Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$570	\$0	\$0	\$0	\$0	\$570
Contribution from Stormwater Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,348	\$0	\$0	\$1,348

Total	\$681	(\$190)	\$0	\$0	\$10	\$1,125	\$4,850	\$5,500	\$2,700	\$381	\$0	\$15,058
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2023 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 first is that the subsurface infrastructure along Eugenia St. (and surrounding neighbourhoods) is approaching its maximum potential life (MPL) and experiencing age-related deterioration, along with physical failure (watermain/sewer breaks, sanitary intrusions, etc.). 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 is a lack of sidewalks along Eugenia St. which poses accessibility concerns for City residents. 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. Secondly, 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$635	\$53	\$3,571	\$2,736	\$0	\$3,068	\$0	\$0	\$0	\$0	\$0	\$10,063
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$635	\$53	\$3,571	\$2,736	\$0	\$3,068	\$0	\$0	\$0	\$0	\$0	\$10,063

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$395	\$53	\$2,382	\$1,547	\$0	\$1,722	\$0	\$0	\$0	\$0	\$0	\$6,100
Contribution from WW Capital Reserve	\$113	\$0	\$409	\$409	\$0	\$463	\$0	\$0	\$0	\$0	\$0	\$1,394
Contribution from Water Capital Reserve	\$127	\$0	\$391	\$391	\$0	\$443	\$0	\$0	\$0	\$0	\$0	\$1,352
Contribution from Stormwater Capital Reserve	\$0	\$0	\$389	\$389	\$0	\$440	\$0	\$0	\$0	\$0	\$0	\$1,217
Total	\$635	\$53	\$3,571	\$2,736	\$0	\$3,068	\$0	\$0	\$0	\$0	\$0	\$10,063

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$635	\$318	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$953
Total	\$0	\$635	\$318	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$953

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Water Capital Reserve	\$0	\$635	\$318	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$953
Total	\$0	\$635	\$318	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$953

2023 Capital Project Detail Report

Project Title: Frozen Water Service Repair

Project Number: ES1022

Department: Infrastructure Department

Summary: Remediation of previously prioritized residential water services throughout the City that have been identified as subject to freezing. This involves excavation and replacement in accordance with current City Standards, including lowering, insulating, and rerouting water services below major infrastructure crossings to ensure they remain protected from freezing. This saves the team from completing emergency work.

Rationale: This project is necessary to ensure continuous delivery of residential Drinking Water during periods of extended cold temperatures. It is in alignment with the Council approved Staff Report ENV003-15, 15-06-22. Following the completion of 2016 remediation works, 180 services in various locations throughout the City still require remediation works to ensure they're adequately protected from freezing.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,225	\$325	\$250	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,800
Forecast	\$0	\$0	\$575	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,075
Total	\$2,225	\$325	\$825	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,875

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Water Capital Reserve	\$2,225	\$325	\$825	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,875
Total	\$2,225	\$325	\$825	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,875

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,549	\$700	\$1,786	\$761	\$511	\$0	\$0	\$0	\$0	\$0	\$0	\$6,307
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$2,549	\$700	\$1,786	\$761	\$511	\$0	\$0	\$0	\$0	\$0	\$0	\$6,307

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$780	\$700	\$1,467	\$557	\$307	\$0	\$0	\$0	\$0	\$0	\$0	\$3,810
Contribution from Water Capital Reserve	\$1,769	\$0	\$319	\$204	\$204	\$0	\$0	\$0	\$0	\$0	\$0	\$2,497
Total	\$2,549	\$700	\$1,786	\$761	\$511	\$0	\$0	\$0	\$0	\$0	\$0	\$6,307

2023 Capital Project Detail Report

Project Title: Gunn Street ROW Replacement - Peel to St. Vincent

Project Number: EN1172

Department: Infrastructure Department

Summary: Replacement of the road and infrastructure on Gunn Street from Peel Street to St. Vincent Street, including road reconstruction, watermain replacement, sanitary sewer replacement, sanitary lateral replacement, storm sewer installation, sidewalk installation and replacement, and streetlight replacement.

Rationale: Gunn Street between Peel Street and St. Vincent Street is in very poor condition. The right-of-way was constructed between 1947 and 1958 and nearly every piece of infrastructure has experienced severe deterioration and no longer provides reliable service. The proposed solution will ensure safe drinking water and adequate fire protection, adequate drainage and reduced risk of flooding, reliable wastewater collection, and improved road safety.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$5,675	\$2,304	\$840	\$757	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,576
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$5,675	\$2,304	\$840	\$757	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,576

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Development Charge Reserves	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18
Contribution from DC Reserves Tax	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18
Contribution from Federal Gas Tax Reserve	\$854	\$488	\$178	\$160	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,680
Cont fr DC Roads Reserve	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10
Cont fr DC Stormwater FMB Reserve	(\$14)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$14)
Cont fr Tax Rate Capital Holding Reserve	(\$8)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$8)
Contribution from Tax Capital Reserve	\$2,713	\$916	\$334	\$302	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,264
Contribution from WW Capital Reserve	\$1,042	\$440	\$161	\$145	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,787
Contribution from Water Capital Reserve	\$1,043	\$460	\$168	\$151	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,822
Total	\$5,675	\$2,304	\$840	\$757	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,576

2023 Capital Project Detail Report

Project Title: Hewitt's Creek New Trunk Sanitary Sewer - Mapleview 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), i.e., from Mapleview 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,937	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,954
Forecast	\$0	\$0	\$834	\$2,153	\$193	\$2,000	\$0	\$0	\$0	\$0	\$0	\$5,181
Total	\$1,937	\$17	\$834	\$2,153	\$193	\$2,000	\$0	\$0	\$0	\$0	\$0	\$7,134

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	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
Contribution from DC Reserves Wastewater (Annex)	\$0	\$17	\$834	\$2,153	\$193	\$2,000	\$0	\$0	\$0	\$0	\$0	\$5,197
Contribution from WW Capital Reserve	\$619	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$619
Total	\$1,937	\$17	\$834	\$2,153	\$193	\$2,000	\$0	\$0	\$0	\$0	\$0	\$7,134

2023 Capital Project Detail Report

Project Title: Hotchkiss Creek Culvert Expansion - Innisfil, 125m North of Tiffin

Project Number: EN1273

Department: Infrastructure Department

Summary: Replace and increase the capacity of the Hotchkiss Creek Culvert crossing Innisfil Street including the replacement and upgrading of subsurface infrastructure (storm sewer, local and trunk sanitary sewer, watermain) within culvert construction limits.

Rationale: The culvert conveying Hotchkiss Creek beneath Innisfil Street has failed and poses a threat to public and environmental safety. Delaying the replacement of the existing culvert exposes the City of Barrie to significant levels of risk and service interruptions; a failure of the road due to the condition of this culvert will result in the closure of Innisfil Street. Operating costs will continue to increase as the culvert structure deteriorates and fails further. Full replacement of the culvert will address the physical failure and inadequate capacity as well as lower operational costs and promote public and environmental safety.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$3,462	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,462
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$3,462	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,462

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$573	(\$222)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$351
Debenture Proceeds - Tax	\$2,294	(\$890)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,404
Contribution from DC Reserves Tax	\$172	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$172
Cont fr DC Roads Reserve	\$0	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35
Cont fr DC Stormwater FMB Reserve	(\$84)	\$187	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$104
Contribution from Tax Capital Reserve	\$299	\$890	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,188
Contribution from WW Capital Reserve	\$83	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$83
Contribution from Water Capital Reserve	\$126	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$126
Total	\$3,462	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,462

2023 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 two new stormwater attenuation facilities, and associated culvert and watercourse improvements on Hotchkiss Creek in the vicinity of Wood Street.

Rationale: Construction of two new stormwater attenuation facilities, 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,276	\$0	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,776
Forecast	\$0	\$0	\$0	\$1,539	\$4,401	\$7,941	\$3,094	\$2,500	\$0	\$0	\$0	\$19,475
Total	\$1,276	\$0	\$1,500	\$1,539	\$4,401	\$7,941	\$3,094	\$2,500	\$0	\$0	\$0	\$22,251

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Stormwater FMB Reserve	\$574	\$0	\$675	\$692	\$1,981	\$3,574	\$1,392	\$1,125	\$0	\$0	\$0	\$10,013
Contribution from Tax Capital Reserve	\$702	\$0	\$825	\$846	\$2,421	\$4,368	\$1,701	\$1,375	\$0	\$0	\$0	\$12,238
Total	\$1,276	\$0	\$1,500	\$1,539	\$4,401	\$7,941	\$3,094	\$2,500	\$0	\$0	\$0	\$22,251

2023 Capital Project Detail Report

Project Title: Huronia Road New Trunk Sanitary Sewer and Road Replacement - Lockhart to McKay (City)

Project Number: EN1255

Department: Infrastructure Department

Summary: Sanitary servicing and transportation improvements to support proposed growth in the Salem Secondary Plan. Installation of trunk sanitary sewer on Huronia Road from Lockhart to McKay.

Rationale: Transportation Master Plan identified the need to widen the existing two (2) lane rural cross-section to three (3) lanes, buffered bike lanes and sidewalks. A Schedule C Class Environmental Assessment (EA) was completed as part of the Annexation Transportation EA Studies. The Wastewater Collection Master Plan identified a trunk sanitary sewer to support growth in the Secondary Plan Lands.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$3,123	\$826	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,949
Forecast	\$0	\$0	\$0	\$1,000	\$5,000	\$5,000	\$9,367	\$4,275	\$0	\$0	\$0	\$24,642
Total	\$3,123	\$826	\$0	\$1,000	\$5,000	\$5,000	\$9,367	\$4,275	\$0	\$0	\$0	\$28,591

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from DC Reserves Tax (Annex)	\$2,282	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,282
Contribution from DC Reserves Wastewater (Annex)	\$336	\$0	\$0	\$0	\$3,000	\$3,000	\$6,117	\$250	\$0	\$0	\$0	\$12,704
Contribution from Federal Gas Tax Reserve	\$532	\$104	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$636
Cont fr DC Stormwater FMB Reserve	(\$42)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$42)
Cont fr DC Roads Annex Reserve	\$83	\$702	\$0	\$850	\$1,700	\$1,700	\$2,763	\$3,421	\$0	\$0	\$0	\$11,219
Contribution from Tax Capital Reserve	(\$122)	\$20	\$0	\$150	\$300	\$300	\$488	\$604	\$0	\$0	\$0	\$1,739
Contribution from WW Capital Reserve	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$53
Total	\$3,123	\$826	\$0	\$1,000	\$5,000	\$5,000	\$9,367	\$4,275	\$0	\$0	\$0	\$28,591

2023 Capital Project Detail Report

Project Title: Kidds and Sophia Creek Storm Pond Upgrades - Irwin (KD03), Ford (KD06), and Ottaway (SP03)

Project Number: EN1269

Department: Infrastructure Department

Summary: Kidds Creek and Sophia Creek Storm Pond expansion and water quality upgrades - Irwin (KD03), Ford (KD06), and Ottaway (SP03)

Rationale: The Sophia Creek Master Drainage Plan, the City Wide Master Drainage Plan as well as the City Growth Stormwater Management study identified several stormwater management facilities that could be expanded and upgraded to minimize flooding, property damage, and safety issues downstream and also reduce phosphorus loading to Lake Simcoe. The Sophia and Kidds Creek watersheds are underserved for water conveyance and water quality controls. The identified stormwater management facilities are critical conveyance peak flow controls and can also provide stream water quality enhancements to support the present and future drainage servicing needs of the City.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Request	\$7,427	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,427
Forecast	\$0	\$0	\$0	\$50	\$1,798	\$3,855	\$2,911	\$2,000	\$0	\$0	\$0	\$10,613
Total	\$7,427	\$0	\$0	\$50	\$1,798	\$3,855	\$2,911	\$2,000	\$0	\$0	\$0	\$18,040

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$1,761	(\$179)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,581
Province of Ontario Grant Revenue	\$462	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$462
Government of Canada Grant Revenue	\$1,849	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,849
Contribution from DC Reserves Tax	\$393	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$393
Cont fr DC Stormwater FMB Reserve	\$2,040	\$179	\$0	\$23	\$809	\$1,735	\$1,310	\$900	\$0	\$0	\$0	\$6,995
Contribution from Tax Capital Reserve	\$922	\$0	\$0	\$28	\$989	\$2,120	\$1,601	\$1,100	\$0	\$0	\$0	\$6,759
Total	\$7,427	\$0	\$0	\$50	\$1,798	\$3,855	\$2,911	\$2,000	\$0	\$0	\$0	\$18,040

2023 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.

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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$835	\$2,100	\$2,320	\$2,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,755
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$835	\$2,100	\$2,320	\$2,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,755

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$835	\$2,100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,935
Contribution from Stormwater Capital Reserve	\$0	\$0	\$2,320	\$2,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,820
Total	\$835	\$2,100	\$2,320	\$2,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,755

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,338	\$514	\$1,400	\$367	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,619
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$2,338	\$514	\$1,400	\$367	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,619

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - Tax	\$1,038	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,038
Cont fr DC WW Collection FMB Reserve	\$470	\$221	\$602	\$158	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,451
Contribution from WW Capital Reserve	\$830	\$293	\$798	\$209	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,130
Total	\$2,338	\$514	\$1,400	\$367	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,619

2023 Capital Project Detail Report

Project Title: Lovers Creek Channel Rehabilitation - Adjacent to Brunton Park

Project Number: EN1285

Department: Infrastructure Department

Summary: Channel realignment with slope stabilization and toe protection of Lover's Creek, adjacent to Brunton Park, is required to prevent erosion of the existing creek bank and siltation in the creek. The project scope includes excavation of the valley slope to a stable inclination, channel realignment, complete armor protection of the channel toe-of slope, and the purchase of land required to accommodate proposed construction and realignment.

Rationale: The Lover's Creek main channel is eroding the toe of the valley slope east of Brunton Park as it moves through a sharp bend. The proposed channel rehabilitation is required to mitigate public safety concerns and prevent further soil instability, slope failure, creek siltation and loss of table lands.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,097	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,847
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$1,097	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,847

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$1,097	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,847
Total	\$1,097	\$750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,847

2023 Capital Project Detail Report

Project Title: Lovers Creek Maplevue LSRCA Compensation

Project Number: EN1467

Department: Infrastructure Department

Summary: The LSRCA permit issued for Lovers Creek at Maplevue (2016-014) included requirements for compensation for tree removal and wetland disturbance. As there was insufficient area within the project area to undertake the offsetting works, the permit was issued with compensation details. LSRCA has agreed to the construction of a pedestrian bridge over a Lovers tributary south of Maplevue Drive as sufficient compensation.

Rationale: In order to meet the conditions of the original LSRCA Permit, the City agreed to provide compensation. The details of the work to satisfy the conditions have been agreed to with LSRCA and funding is required to construct the footbridge.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$87	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$187
Total	\$87	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$187

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Stormwater FMB Reserve	\$39	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$84
Contribution from Tax Capital Reserve	\$48	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$48
Contribution from Stormwater Capital Reserve	\$0	\$55	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$55
Total	\$87	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$187

2023 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: This pond was constructed in 2014/2015. In 2019, the pond failed due to deficiencies with the pond liner and a complete failure of the berm wall. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,700	(\$169)	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,541
Total	\$1,700	(\$169)	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,541

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Federal Gas Tax Reserve	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Contribution from Tax Capital Reserve	\$1,400	(\$169)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,231
Contribution from Stormwater Capital Reserve	\$0	\$0	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10
Total	\$1,700	(\$169)	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,541

2023 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: Expansion of Mapleview Drive East, including installation of a sanitary sewer, and road widening from two lanes to three lanes with adjacent multi-use trail.

Rationale: Different sanitary servicing alternatives were examined in the Wastewater Collection MP 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. The Transportation MP recommended three lanes plus buffered bike lanes. Within former Barrie the existing road is relatively new but the south side has not been urbanized. In consideration of this the project scope was adjusted to include a multi-use trail to retain as much of the existing road as possible. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$9,947	\$2,648	\$415	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,010
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$9,947	\$2,648	\$415	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,010

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Developer Front Ending (Annex) - Developer Build	\$9,428	\$2,251	\$353	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,031
Contribution from Tax Capital Reserve	\$519	\$397	\$62	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$978
Total	\$9,947	\$2,648	\$415	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,010

2023 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 sanitary sewer, and an 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. Water Distribution Master Plan and Waste Collection Master Plan recommends the installation of a trunk watermain and a local sanitary sewer. Road widening will initially be implemented with an at-grade crossing.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Request	\$7,043	\$4,013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,055
Forecast	\$0	\$0	\$7,992	\$7,992	\$2,273	\$0	\$0	\$0	\$0	\$0	\$0	\$18,256
Total	\$7,043	\$4,013	\$7,992	\$7,992	\$2,273	\$0	\$0	\$0	\$0	\$0	\$0	\$29,311

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$3,181	(\$1,690)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,491
Contribution from DC Reserves Tax (Annex)	\$2,862	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,862
Contribution from DC Reserves Wastewater (Annex)	\$0	\$0	\$413	\$255	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$668
Cont fr DC Stormwater FMB Reserve	(\$560)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$560)
Cont fr DC Roads Annex Reserve	\$981	\$5,101	\$6,441	\$6,576	\$1,932	\$0	\$0	\$0	\$0	\$0	\$0	\$21,031
Contribution from Tax Capital Reserve	\$579	\$602	\$1,137	\$1,161	\$341	\$0	\$0	\$0	\$0	\$0	\$0	\$3,819
Total	\$7,043	\$4,013	\$7,992	\$7,992	\$2,273	\$0	\$0	\$0	\$0	\$0	\$0	\$29,311

2023 Capital Project Detail Report

Project Title: Mapleview Drive East Improvements - Country Lane to Yonge (City)

Project Number: EN1097

Department: Infrastructure Department

Summary: Widening of Mapleview Dr. E from Country Lane to Yonge to five (5) lanes including: road widening and reconstruction; sanitary sewer and service installation; local storm sewer installation; water service installation; new transmission watermain (750 from Country Lane to Madeline, 600 from Madelaine to Yonge); multi-use asphalt trail on the north side; streetlight installation; and new traffic signal installation at Madelaine and at Dean.

Rationale: Mapleview Drive East between Country Lane and Yonge is deficient with respect to traffic capacity, sidewalks, bicycle transportation, streetlights, domestic watermain and storm sewers. There is a transmission watermain and a sanitary trunk sewer required on this section of Mapleview Drive East. The proposed work will increase traffic capacity and resolve transportation and other servicing deficiencies, thereby allowing the City to provide the expected levels of service to the community while reducing risk associated with physically deteriorated and under-capacity roads and subsurface infrastructure.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$18,074	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,074
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$18,074	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,074

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Tax Additions	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75
Debenture Proceeds - DCs	\$1,577	\$27	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,604
Debenture Proceeds - Tax	\$1,295	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,295
Local Improvements Revenue	\$96	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$96
Contribution from Development Charge Reserves	\$619	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$619
Contribution from DC Reserves Tax (Annex)	\$4,463	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,463
Contribution from DC Reserves Water (Annex)	\$3,447	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,447
Contribution from Federal Gas Tax Reserve	\$1,331	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,331
Cont fr DC Stormwater FMB Reserve	\$87	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$87

Cont fr DC Water Dist FMB Reserve	\$434	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$434
Cont fr DC WW Collection FMB Reserve	\$86	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$86
Cont fr DC Roads Annex Reserve	\$2,940	(\$27)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,913
Cont fr Tax Rate Capital Holding Reserve	(\$10)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$10)
Contribution from Tax Capital Reserve	\$990	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$990
Contribution from WW Capital Reserve	\$641	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$641
Contribution from Water Capital Reserve	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4
Total	\$18,074	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,074

2023 Capital Project Detail Report

Project Title: Marina Tiffin Boat Launch Rehabilitation

Project Number: 001150

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$50	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Total	\$0	\$50	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$50	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150
Total	\$0	\$50	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$100	\$155	\$158	\$116	\$108	\$0	\$0	\$0	\$0	\$0	\$0	\$637
Forecast	\$0	\$0	\$73	\$2,539	\$825	\$0	\$0	\$0	\$0	\$0	\$0	\$3,436
Total	\$100	\$155	\$231	\$2,655	\$932	\$0	\$0	\$0	\$0	\$0	\$0	\$4,073

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$100	\$80	\$149	\$1,440	\$539	\$0	\$0	\$0	\$0	\$0	\$0	\$2,309
Contribution from WW Capital Reserve	\$0	\$30	\$31	\$468	\$157	\$0	\$0	\$0	\$0	\$0	\$0	\$685
Contribution from Water Capital Reserve	\$0	\$30	\$31	\$468	\$157	\$0	\$0	\$0	\$0	\$0	\$0	\$685
Contribution from Stormwater Capital Reserve	\$0	\$15	\$20	\$279	\$79	\$0	\$0	\$0	\$0	\$0	\$0	\$393
Total	\$100	\$155	\$231	\$2,655	\$932	\$0	\$0	\$0	\$0	\$0	\$0	\$4,073

2023 Capital Project Detail Report

Project Title: McKay Road New Trunk Sanitary Sewer - Hwy 400 to Huronia (City)

Project Number: EN1256

Department: Infrastructure Department

Summary: Construction of a trunk sanitary sewer from west of Huronia Road to west of Highway 400; 400mm watermain from McKay and Veterans project limits to east of Highway 400; and, road reconstruction from east of the future interchange to the Huronia Road construction limits.

Rationale: Transportation Master Plan identified McKay Road as a rural road in poor condition, with no current subsurface infrastructure. Wastewater Collection Master Plan indicated that the development of the Salem Secondary plan is fully dependent upon the installation of a trunk sanitary sewer from Huronia Road west to Highway 400. Wastewater Collection Master Plan recommended drainage of the Salem Secondary Plan sewer shed to the Lover's Trunk Sewer as it has significant available spare capacity. Road reconstruction as a result of the sewer installation will improve the safety and drivability, with increases in traffic volume necessitating an expansion from two lanes to four.

PROJECT EXPENDITURE AND FUNDING												
Expenditure (in 000's):												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$5,133	(\$4,200)	\$10	\$3,990	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$5,133
Forecast	\$0	\$0	\$0	\$1,000	\$2,750	\$10,000	\$8,000	\$10,000	\$620	\$0	\$0	\$32,370
Total	\$5,133	(\$4,200)	\$10	\$4,990	\$2,950	\$10,000	\$8,000	\$10,000	\$620	\$0	\$0	\$37,503
Funding (in 000's):												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$0	\$0	\$0	\$850	\$638	\$0	\$0	\$0	\$0	\$0	\$0	\$1,488
Contribution from DC Reserves Tax (Annex)	\$4,286	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,286
Contribution from DC Reserves Water (Annex)	\$0	\$0	\$0	\$0	\$0	\$4,000	\$0	\$0	\$0	\$0	\$0	\$4,000
Contribution from DC Reserves Wastewater (Annex)	\$476	\$0	\$0	\$0	\$2,000	\$6,000	\$8,000	\$5,000	\$370	\$0	\$0	\$21,845
Contribution from Federal Gas Tax Reserve	\$698	(\$630)	\$2	\$599	\$30	\$0	\$0	\$0	\$0	\$0	\$0	\$698
Cont fr DC Roads Annex Reserve	(\$333)	(\$3,570)	\$9	\$3,392	\$170	\$0	\$0	\$4,250	\$213	\$0	\$0	\$4,130
Contribution from Tax Capital Reserve	\$7	\$0	\$0	\$150	\$113	\$0	\$0	\$750	\$38	\$0	\$0	\$1,057
Total	\$5,133	(\$4,200)	\$10	\$4,990	\$2,950	\$10,000	\$8,000	\$10,000	\$620	\$0	\$0	\$37,503

2023 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 identified McKay Road as a rural road in poor condition, with no current subsurface infrastructure. 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. Wastewater Collection Master Plan recommended drainage of the Salem Secondary Plan sewershed to Lover's Trunk Sewer as it has significant available spare capacity, while the Water Distribution Master Plan identified a need for a trunk watermain to provide potable water and fire protection in Phase 1 development. 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. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$28,924	\$7,091	\$4,470	\$3,271	\$2,515	\$0	\$0	\$0	\$0	\$0	\$0	\$46,270
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$28,924	\$7,091	\$4,470	\$3,271	\$2,515	\$0	\$0	\$0	\$0	\$0	\$0	\$46,270

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Developer Front Ending (Annex) - Developer Build	\$26,800	\$6,249	\$3,981	\$2,962	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$39,993
Debenture Proceeds - Water	\$77	(\$77)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Debenture Proceeds - Wastewater	\$93	(\$93)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Contribution from DC Reserves Wastewater (Annex)	\$0	\$0	\$0	\$0	\$1,515	\$0	\$0	\$0	\$0	\$0	\$0	\$1,515
Contribution from Federal Gas Tax Reserve	\$686	(\$12)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$674
Cont fr DC Roads Annex Reserve	\$254	\$157	\$0	\$0	\$850	\$0	\$0	\$0	\$0	\$0	\$0	\$1,261
Contribution from Tax Capital Reserve	\$1,013	\$867	\$488	\$309	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$2,827

Total	\$28,924	\$7,091	\$4,470	\$3,271	\$2,515	\$0	\$0	\$0	\$0	\$0	\$0	\$46,270
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2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,834	\$0	\$0	\$135	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,969
Forecast	\$0	\$0	\$100	\$5,663	\$4,908	\$4,908	\$4,336	\$5,991	\$0	\$0	\$0	\$25,906
Total	\$2,834	\$0	\$100	\$5,798	\$4,908	\$4,908	\$4,336	\$5,991	\$0	\$0	\$0	\$28,875

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Developer Contributions	\$0	\$0	\$0	\$2	\$5	\$5	\$7	\$8	\$0	\$0	\$0	\$27
Contribution from Tax Capital Reserve	\$2,265	\$0	\$100	\$2,920	\$2,120	\$2,120	\$2,781	\$3,092	\$0	\$0	\$0	\$15,398
Contribution from WW Capital Reserve	\$297	\$0	\$0	\$1,034	\$1,000	\$1,000	\$648	\$1,078	\$0	\$0	\$0	\$5,057
Contribution from Water Capital Reserve	\$272	\$0	\$0	\$843	\$817	\$817	\$300	\$784	\$0	\$0	\$0	\$3,832
Contribution from Stormwater Capital Reserve	\$0	\$0	\$0	\$999	\$967	\$967	\$600	\$1,029	\$0	\$0	\$0	\$4,561
Total	\$2,834	\$0	\$100	\$5,798	\$4,908	\$4,908	\$4,336	\$5,991	\$0	\$0	\$0	\$28,875

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$673	\$0	\$161	\$167	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,002
Forecast	\$0	\$0	\$500	\$5,165	\$4,500	\$3,248	\$1,000	\$0	\$0	\$0	\$0	\$14,413
Total	\$673	\$0	\$661	\$5,332	\$4,500	\$3,248	\$1,000	\$0	\$0	\$0	\$0	\$15,415

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Developer Contributions	\$0	\$0	\$0	\$1	\$3	\$4	\$1	\$0	\$0	\$0	\$0	\$9
Contribution from Federal Gas Tax Reserve	\$54	\$0	\$35	\$1,609	\$2,572	\$2,807	\$999	\$0	\$0	\$0	\$0	\$8,077
Contribution from Tax Capital Reserve	\$414	\$0	\$602	\$2,158	\$385	\$87	\$0	\$0	\$0	\$0	\$0	\$3,647
Contribution from WW Capital Reserve	\$101	\$0	\$10	\$835	\$825	\$187	\$0	\$0	\$0	\$0	\$0	\$1,958
Contribution from Water Capital Reserve	\$105	\$0	\$14	\$729	\$715	\$162	\$0	\$0	\$0	\$0	\$0	\$1,725
Total	\$673	\$0	\$661	\$5,332	\$4,500	\$3,248	\$1,000	\$0	\$0	\$0	\$0	\$15,415

2023 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 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$5,646	\$510	\$1,687	\$1,180	\$1,047	\$0	\$0	\$0	\$0	\$0	\$0	\$10,069
Forecast	\$0	\$0	\$290	\$1,681	\$3,900	\$4,941	\$3,838	\$4,121	\$1,000	\$0	\$0	\$19,772
Total	\$5,646	\$510	\$1,977	\$2,861	\$4,947	\$4,941	\$3,838	\$4,121	\$1,000	\$0	\$0	\$29,842

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$3,632	\$485	\$1,880	\$2,618	\$3,083	\$2,631	\$2,298	\$2,390	\$1,000	\$0	\$0	\$20,016
Contribution from WW Capital Reserve	\$998	\$8	\$33	\$75	\$560	\$715	\$491	\$536	\$0	\$0	\$0	\$3,416
Contribution from Water Capital Reserve	\$1,016	\$8	\$33	\$75	\$560	\$715	\$491	\$536	\$0	\$0	\$0	\$3,434
Contribution from Stormwater Capital Reserve	\$0	\$10	\$32	\$93	\$743	\$880	\$558	\$659	\$0	\$0	\$0	\$2,976
Total	\$5,646	\$510	\$1,977	\$2,861	\$4,947	\$4,941	\$3,838	\$4,121	\$1,000	\$0	\$0	\$29,842

2023 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 streetlights 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$6,275	\$1,252	\$1,067	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,594
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$6,275	\$1,252	\$1,067	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,594

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$4,137	\$1,039	\$477	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,653
Contribution from WW Capital Reserve	\$1,069	(\$103)	\$145	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,111
Contribution from Water Capital Reserve	\$1,069	\$316	\$213	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,597
Contribution from Stormwater Capital Reserve	\$0	\$0	\$232	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$232
Total	\$6,275	\$1,252	\$1,067	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,594

2023 Capital Project Detail Report

Project Title: NRP Wellington D1

Project Number: EN1238

Department: Infrastructure Department

Summary: Reconstruction of four streets (Berczy, Amelia, Theresa, and Worsley) in the Wellington D neighbourhood, including 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 surface and subsurface infrastructure. Full reconstruction 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,152	\$460	\$3,308	\$3,230	\$2,000	\$3,080	\$0	\$0	\$0	\$0	\$0	\$14,230
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$2,152	\$460	\$3,308	\$3,230	\$2,000	\$3,080	\$0	\$0	\$0	\$0	\$0	\$14,230

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Sundry Revenue	\$22	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22
Contribution from Tax Capital Reserve	\$1,854	\$310	\$1,251	\$1,230	\$2,000	\$1,985	\$0	\$0	\$0	\$0	\$0	\$8,630
Contribution from WW Capital Reserve	\$151	\$50	\$565	\$600	\$0	\$381	\$0	\$0	\$0	\$0	\$0	\$1,747
Contribution from Water Capital Reserve	\$126	\$50	\$687	\$600	\$0	\$434	\$0	\$0	\$0	\$0	\$0	\$1,897
Contribution from Stormwater Capital Reserve	\$0	\$50	\$806	\$800	\$0	\$279	\$0	\$0	\$0	\$0	\$0	\$1,935
Total	\$2,152	\$460	\$3,308	\$3,230	\$2,000	\$3,080	\$0	\$0	\$0	\$0	\$0	\$14,230

2023 Capital Project Detail Report

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

Project Number: 000030

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, out-dated 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$50	\$37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$87
Forecast	\$0	\$0	\$92	\$143	\$1,518	\$469	\$0	\$0	\$0	\$0	\$0	\$2,222
Total	\$0	\$50	\$129	\$143	\$1,518	\$469	\$0	\$0	\$0	\$0	\$0	\$2,309

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$50	\$83	\$97	\$866	\$252	\$0	\$0	\$0	\$0	\$0	\$1,348
Contribution from WW Capital Reserve	\$0	\$0	\$16	\$16	\$227	\$75	\$0	\$0	\$0	\$0	\$0	\$334
Contribution from Water Capital Reserve	\$0	\$0	\$15	\$15	\$213	\$71	\$0	\$0	\$0	\$0	\$0	\$314
Contribution from Stormwater Capital Reserve	\$0	\$0	\$15	\$15	\$213	\$71	\$0	\$0	\$0	\$0	\$0	\$314
Total	\$0	\$50	\$129	\$143	\$1,518	\$469	\$0	\$0	\$0	\$0	\$0	\$2,309

2023 Capital Project Detail Report

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

Project Number: 001153

Department: Infrastructure Department

Summary: Preliminary design study to assess feasibility and cost associated with increasing the pump capacity of Innisfil BPS 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$45	\$125	\$180	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$400
Total	\$0	\$45	\$125	\$180	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$400

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Water Dist FMB Reserve	\$0	\$19	\$54	\$77	\$22	\$0	\$0	\$0	\$0	\$0	\$0	\$172
Contribution from Water Capital Reserve	\$0	\$26	\$71	\$103	\$29	\$0	\$0	\$0	\$0	\$0	\$0	\$228
Total	\$0	\$45	\$125	\$180	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$400

2023 Capital Project Detail Report

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

Project Number: 001147

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&2 has reached the end of its useful life and is in need of replacement. An assessment of PD2 identified deficiencies expected from equipment reaching its end of life. PD1 & PD2 were installed at the WwTF around the same time. This report on PD2 was used to estimate the condition of PD1 and make a decision to replace the gas proofing before it becomes a need through emergency provisions.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$75	\$249	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$524
Forecast	\$0	\$0	\$0	\$0	\$200	\$400	\$426	\$0	\$0	\$0	\$0	\$1,026
Total	\$0	\$75	\$249	\$200	\$200	\$400	\$426	\$0	\$0	\$0	\$0	\$1,550

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from WW Capital Reserve	\$0	\$75	\$249	\$200	\$200	\$400	\$426	\$0	\$0	\$0	\$0	\$1,550
Total	\$0	\$75	\$249	\$200	\$200	\$400	\$426	\$0	\$0	\$0	\$0	\$1,550

2023 Capital Project Detail Report

Project Title: PRV Chamber Replacement Program

Project Number: EN1252

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$3,255	\$981	\$1,146	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,383
Forecast	\$0	\$0	\$667	\$1,751	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,418
Total	\$3,255	\$981	\$1,813	\$1,751	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,801

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Water Capital Reserve	\$3,255	\$981	\$1,813	\$1,751	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,801
Total	\$3,255	\$981	\$1,813	\$1,751	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,801

2023 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$165	\$195	\$195	\$195	\$329	\$0	\$0	\$0	\$0	\$0	\$0	\$1,081
Forecast	\$0	\$0	\$0	\$98	\$2,915	\$3,912	\$2,284	\$1,847	\$0	\$0	\$0	\$11,056
Total	\$165	\$195	\$195	\$294	\$3,244	\$3,912	\$2,284	\$1,847	\$0	\$0	\$0	\$12,137

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$165	\$95	\$95	\$194	\$1,390	\$1,956	\$1,142	\$1,565	\$0	\$0	\$0	\$6,602
Contribution from WW Capital Reserve	\$0	\$30	\$30	\$30	\$641	\$587	\$343	\$0	\$0	\$0	\$0	\$1,660
Contribution from Water Capital Reserve	\$0	\$30	\$30	\$30	\$641	\$587	\$343	\$0	\$0	\$0	\$0	\$1,660
Contribution from Stormwater Capital Reserve	\$0	\$40	\$40	\$40	\$572	\$782	\$457	\$282	\$0	\$0	\$0	\$2,214
Total	\$165	\$195	\$195	\$294	\$3,244	\$3,912	\$2,284	\$1,847	\$0	\$0	\$0	\$12,137

2023 Capital Project Detail Report

Project Title: Queen St. ROW Reconstruction- St. Vincent Street to Berczy Street

Project Number: EN1398

Department: Infrastructure Department

Summary: This project includes full right-of way reconstruction, and new installation of surface assets (roadway, sidewalks, and streetlights); with the removal, replacement, upgrading, and/or rehabilitation of subsurface assets (watermain, sanitary sewer, and storm sewer) along Queen Street, from St. Vincent Street to Berczy Street.

Rationale: The infrastructure in the proposed area is experiencing age-related deterioration (watermain breaks, holes in sanitary sewer, pothole in the road, etc.) and physical failure. Multiple assets are approaching the end of their expected useful lives and are in poor to very poor condition and are in need of replacement, however the watermain in particular is driving the urgency of this project. Queen St. was identified as a candidate for full right-of-way reconstruction based on the aggregated risk associated with surface and subsurface infrastructure. Furthermore, capacity deficiencies (fire flow, road width, storm sewer size) can only be met through the replacement and reconstruction of these assets.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$868	\$0	\$0	\$600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,468
Forecast	\$0	\$0	\$0	\$860	\$2,862	\$2,402	\$1,914	\$0	\$0	\$0	\$0	\$8,038
Total	\$868	\$0	\$0	\$1,460	\$2,862	\$2,402	\$1,914	\$0	\$0	\$0	\$0	\$9,506

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Water Rate Capital Holding Res	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Contribution from Tax Capital Reserve	\$623	\$0	\$0	\$860	\$910	\$1,050	\$1,914	\$0	\$0	\$0	\$0	\$5,356
Contribution from WW Capital Reserve	\$124	\$0	\$0	\$200	\$673	\$473	\$0	\$0	\$0	\$0	\$0	\$1,470
Contribution from Water Capital Reserve	\$120	\$0	\$0	\$200	\$665	\$465	\$0	\$0	\$0	\$0	\$0	\$1,450
Contribution from Stormwater Capital Reserve	\$0	\$0	\$0	\$200	\$614	\$414	\$0	\$0	\$0	\$0	\$0	\$1,229
Total	\$868	\$0	\$0	\$1,460	\$2,862	\$2,402	\$1,914	\$0	\$0	\$0	\$0	\$9,506

2023 Capital Project Detail Report

Project Title: Road Resurfacing Program

Project Number: EN1289

Department: Infrastructure Department

Summary: Annual program focused on road resurfacing to restore and preserve road pavement condition at various locations selected each year. Road resurfacing preserves the road structure and addresses problems on the surface of the roadway by replacing all or part of the asphalt pavement. Resurfacing roads using well-timed and appropriate preservation strategies is substantially less expensive than the full reconstruction of a road. The goal of the program is to maximize the life of road assets at the lowest overall life-cycle cost.

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. Timely application of road resurfacing activities preserves and protects the road structure, thereby preventing rapid deterioration in pavement condition and the need for costly reconstruction. Risks due to unsafe driving conditions are also reduced. Resurfacing has been demonstrated to be effective in reducing the life-cycle cost of roads when applied at the right time as a part of a comprehensive pavement preservation approach.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$26,722	\$6,825	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$33,547
Forecast	\$0	\$0	\$8,375	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$75,575
Total	\$26,722	\$6,825	\$8,375	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$109,122

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Province of Ontario Grant Revenue	\$79	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$79
Government of Canada Grant Revenue	\$315	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$315
Contribution from Federal Gas Tax Reserve	\$25,387	\$6,500	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$103,887
Contribution from Tax Capital Reserve	\$941	\$325	\$375	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$4,841
Total	\$26,722	\$6,825	\$8,375	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$8,400	\$109,122

2023 Capital Project Detail Report

Project Title: Sewer Rehabilitation Program

Project Number: EN1184

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 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,780	\$325	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,105
Forecast	\$0	\$0	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$2,925
Total	\$1,780	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$5,030

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from WW Capital Reserve	\$1,780	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$5,030
Total	\$1,780	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$325	\$5,030

2023 Capital Project Detail Report

Project Title: Sidewalk Infill Program

Project Number: EN1185

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,663	\$1,323	\$456	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,441
Forecast	\$0	\$0	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$4,725
Total	\$1,663	\$1,323	\$981	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$8,166

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Development Charge Reserves	\$64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$64
Contribution from DC Reserves Tax	\$1,205	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,205
Cont fr DC Roads Reserve	\$313	\$1,256	\$931	\$499	\$499	\$499	\$499	\$499	\$499	\$499	\$499	\$6,491
Contribution from Tax Capital Reserve	\$80	\$66	\$49	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$26	\$405
Total	\$1,663	\$1,323	\$981	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$525	\$8,166

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$283	\$32	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$315
Forecast	\$0	\$0	\$156	\$140	\$2,542	\$3,146	\$1,631	\$0	\$0	\$0	\$0	\$7,615
Total	\$283	\$32	\$156	\$140	\$2,542	\$3,146	\$1,631	\$0	\$0	\$0	\$0	\$7,930

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Stormwater FMB Reserve	\$128	\$14	\$70	\$63	\$1,144	\$1,416	\$734	\$0	\$0	\$0	\$0	\$3,569
Contribution from Tax Capital Reserve	\$156	\$17	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$173
Contribution from Stormwater Capital Reserve	\$0	\$0	\$86	\$77	\$1,398	\$1,730	\$897	\$0	\$0	\$0	\$0	\$4,188
Total	\$283	\$32	\$156	\$140	\$2,542	\$3,146	\$1,631	\$0	\$0	\$0	\$0	\$7,930

2023 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 2400 mm x 1500 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$356	\$419	\$200	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$975
Forecast	\$0	\$0	\$3,600	\$630	\$366	\$0	\$0	\$0	\$0	\$0	\$0	\$4,596
Total	\$356	\$419	\$3,800	\$630	\$366	\$0	\$0	\$0	\$0	\$0	\$0	\$5,571

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Stormwater FMB Reserve	\$0	\$72	\$1,710	\$284	\$165	\$0	\$0	\$0	\$0	\$0	\$0	\$2,231
Contribution from Tax Capital Reserve	\$356	\$258	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$614
Contribution from Stormwater Capital Reserve	\$0	\$89	\$2,090	\$347	\$201	\$0	\$0	\$0	\$0	\$0	\$0	\$2,726
Total	\$356	\$419	\$3,800	\$630	\$366	\$0	\$0	\$0	\$0	\$0	\$0	\$5,571

2023 Capital Project Detail Report

Project Title: Sophia Trunk Storm Sewers - Clapperton, 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 and Clapperton to Dunlop. In addition to addressing the storm conveyance needs, aging infrastructure within the project limits will be reconstructed as part of this project.

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$830	\$211	\$281	\$225	\$225	\$250	\$0	\$0	\$0	\$0	\$0	\$2,023
Forecast	\$0	\$0	\$0	\$650	\$1,350	\$750	\$10,875	\$9,375	\$6,500	\$1,356	\$0	\$30,856
Total	\$830	\$211	\$281	\$875	\$1,575	\$1,000	\$10,875	\$9,375	\$6,500	\$1,356	\$0	\$32,879

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Stormwater FMB Reserve	\$22	\$0	\$0	\$101	\$101	\$113	\$1,800	\$1,575	\$1,575	\$0	\$0	\$5,287
Contribution from Tax Capital Reserve	\$720	\$123	\$163	\$774	\$1,474	\$888	\$7,275	\$6,400	\$2,575	\$1,356	\$0	\$21,747
Contribution from WW Capital Reserve	\$58	\$58	\$77	\$0	\$0	\$0	\$1,000	\$800	\$1,750	\$0	\$0	\$3,742
Contribution from Water Capital Reserve	\$31	\$31	\$41	\$0	\$0	\$0	\$800	\$600	\$600	\$0	\$0	\$2,103
Total	\$830	\$211	\$281	\$875	\$1,575	\$1,000	\$10,875	\$9,375	\$6,500	\$1,356	\$0	\$32,879

2023 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: Sunnidale Road crossing requires reconstruction 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 Multi-modal Active Transportation Master Plan including bicycle lanes, sidewalks on both sides and wider sidewalks. The Ontario Ministry of Transportation will construct the additional improvements subject to cost sharing with the City. It is recommended that the City contribute to the Ministry of Transportation's planned works for the additional improvements as completing this work jointly maximizes cost efficiencies.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$983	(\$296)	\$50	\$1,736	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$3,773
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$983	(\$296)	\$50	\$1,736	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$3,773

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Roads Reserve	\$13	\$99	\$33	\$1,128	\$845	\$0	\$0	\$0	\$0	\$0	\$0	\$2,118
Contribution from Tax Capital Reserve	\$370	\$53	\$18	\$608	\$455	\$0	\$0	\$0	\$0	\$0	\$0	\$1,503
Contribution from WW Capital Reserve	\$600	(\$448)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$152
Total	\$983	(\$296)	\$50	\$1,736	\$1,300	\$0	\$0	\$0	\$0	\$0	\$0	\$3,773

2023 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. Also included is 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. MTO is proposing to reconstruct the Sunnidale Highway 400 crossing starting in 2023.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$8,324	\$723	\$979	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,026
Total	\$8,324	\$723	\$979	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,026

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$1,172	(\$1,000)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$172
Contribution from Development Charge Reserves	(\$65)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	(\$65)
Contribution from DC Reserves Water	\$275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$275
Cont fr DC Roads Reserve	\$0	\$0	\$421	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$421
Cont fr DC Stormwater FMB Reserve	\$137	\$10	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$147
Cont fr DC Water Dist FMB Reserve	\$1,481	\$1,301	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,782
Cont fr DC WW Collection FMB Reserve	\$193	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$193
Contribution from Tax Capital Reserve	\$182	\$13	\$558	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$754
Contribution from WW Capital Reserve	\$255	\$86	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$341
Contribution from Water Capital Reserve	\$4,693	\$228	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,921
Contribution from Stormwater Capital Reserve	\$0	\$86	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$86

Total	\$8,324	\$723	\$979	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,026
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2023 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. The project is expected to take three (3) years to complete and will require dedicated resources.

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$3,126	(\$48)	\$513	\$1,419	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$6,010
Total	\$3,126	(\$48)	\$513	\$1,419	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$6,010

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Water Capital Reserve	\$3,126	(\$48)	\$513	\$1,419	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$6,010
Total	\$3,126	(\$48)	\$513	\$1,419	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$6,010

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$3,528	\$3,100	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,128
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$3,528	\$3,100	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,128

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$1,333	\$1,333	\$215	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,881
Contribution from DC Reserves Water	\$64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$64
Cont fr DC Water Dist FMB Reserve	\$145	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$145
Contribution from Tax Capital Reserve	\$114	\$1,140	\$171	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,425
Contribution from Water Capital Reserve	\$1,871	\$627	\$114	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,612
Total	\$3,528	\$3,100	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,128

2023 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: Roads such as 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. As congestion as traffic volume on these roads increase, the existing road will continue to deteriorate quicker and will become more of a safety hazard. The asphalt work will address problems on the surface of the roadway by providing a quality top layer of asphalt pavement. This will also provide safe travelling lanes for residents, visitors and local industrial businesses who use these roads. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$600	\$1,100	\$2,400	\$347	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,447
Forecast	\$0	\$0	\$0	\$1,000	\$408	\$0	\$0	\$0	\$0	\$0	\$0	\$1,408
Total	\$600	\$1,100	\$2,400	\$1,347	\$408	\$0	\$0	\$0	\$0	\$0	\$0	\$5,855

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Roads Annex Reserve	\$0	\$935	\$2,040	\$1,145	\$347	\$0	\$0	\$0	\$0	\$0	\$0	\$4,467
Contribution from Tax Capital Reserve	\$600	\$165	\$360	\$202	\$61	\$0	\$0	\$0	\$0	\$0	\$0	\$1,388
Total	\$600	\$1,100	\$2,400	\$1,347	\$408	\$0	\$0	\$0	\$0	\$0	\$0	\$5,855

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$4,354	\$1,125	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,030
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$4,354	\$1,125	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,030

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Developer Front Ending (Annex) - Developer Build	\$3,019	\$1,125	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,695
Cont fr DC Roads Annex Reserve	\$1,105	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,105
Contribution from Tax Capital Reserve	\$230	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$230
Total	\$4,354	\$1,125	\$550	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,030

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1	\$734	\$734	\$2,646	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,114
Forecast	\$0	\$0	\$0	\$23	\$1,008	\$1,714	\$5,249	\$7,320	\$0	\$0	\$0	\$15,314
Total	\$1	\$734	\$734	\$2,669	\$1,008	\$1,714	\$5,249	\$7,320	\$0	\$0	\$0	\$19,428

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Developer Front Ending (Annex) - Developer Build	\$0	(\$12)	(\$12)	\$0	\$0	(\$126)	\$0	\$0	\$0	\$0	\$0	(\$150)
Debenture Proceeds - Tax	\$0	\$110	\$110	\$400	\$151	\$257	\$787	\$1,098	\$0	\$0	\$0	\$2,914
Cont fr DC Roads Annex Reserve	\$0	\$636	\$636	\$2,269	\$857	\$1,582	\$4,461	\$6,222	\$0	\$0	\$0	\$16,663
Cont fr Tax Rate Capital Holding Reserve	\$1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1
Total	\$1	\$734	\$734	\$2,669	\$1,008	\$1,714	\$5,249	\$7,320	\$0	\$0	\$0	\$19,428

2023 Capital Project Detail Report

Project Title: Wastewater Collection System Inspection Camera

Project Number: 001110

Department: Infrastructure Department

Summary:

- The camera 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:

To investigate and resolve issues within the wastewater collection system staff must either rely on contracted services to perform costly and risky excavations. In some cases, staff must risk their own personal health and safety by entering resident's homes to determine what the issues are, how they can be fixed, and where the financial responsibility lies. This new equipment will allow staff to lessen costs incurred by contracted services, reduce unnecessary excavations, and eliminate the need to enter resident's homes. The functionality of the camera will allow for a reduction of the operating budget of \$50,000 per year, by offsetting contracted services.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Total	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from WW Capital Reserve	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300
Total	\$0	\$300	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300

2023 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. Wastewater Master Plan recommended to construct a flow attenuation tank at the south side of the WwTF. The new tank would assist in equalizing the flows for a steady state biological treatment. This project could also benefit residents near the plant since the tanks would mitigate the risk of wastewater flooding the streets and basements near the WwTF.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,567	(\$1,376)	\$1,346	\$1,966	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,504
Forecast	\$0	\$0	\$0	\$0	\$2,862	\$4,862	\$4,600	\$2,771	\$4,000	\$5,966	\$0	\$25,061
Total	\$2,567	(\$1,376)	\$1,346	\$1,966	\$2,862	\$4,862	\$4,600	\$2,771	\$4,000	\$5,966	\$0	\$29,565

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC WW Serv Facilities Reserve	\$956	(\$564)	\$552	\$806	\$1,173	\$1,993	\$1,886	\$1,136	\$1,640	\$2,446	\$0	\$12,025
Contribution from WW Capital Reserve	\$1,611	(\$812)	\$794	\$1,160	\$1,688	\$2,868	\$2,714	\$1,635	\$2,360	\$3,520	\$0	\$17,540
Total	\$2,567	(\$1,376)	\$1,346	\$1,966	\$2,862	\$4,862	\$4,600	\$2,771	\$4,000	\$5,966	\$0	\$29,565

2023 Capital Project Detail Report

Project Title: Water Meter Replacement Program

Project Number: EN1505

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 45,218 water meters. Of these 27,333 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$563	\$666	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,229
Forecast	\$0	\$0	\$729	\$792	\$855	\$918	\$981	\$1,044	\$1,107	\$1,170	\$0	\$7,592
Total	\$563	\$666	\$729	\$792	\$855	\$918	\$981	\$1,044	\$1,107	\$1,170	\$0	\$8,821

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Water Capital Reserve	\$563	\$666	\$729	\$792	\$855	\$918	\$981	\$1,044	\$1,107	\$1,170	\$0	\$8,821
Total	\$563	\$666	\$729	\$792	\$855	\$918	\$981	\$1,044	\$1,107	\$1,170	\$0	\$8,821

2023 Capital Project Detail Report

Project Title: Water Service and Backflow Prevention Upgrades for Parks and Open Spaces

Project Number: EN1152

Department: Infrastructure Department

Summary: Installation of backflow prevention devices and water meters for Parks and Open Spaces to reduce the risk of water distribution system contamination and to improve water consumption/usage data.

Rationale: Water services for many Parks and Open Spaces pose a potential risk for contamination of the drinking water system due to the lack of backflow prevention devices and/or the improper installation of devices. The Backflow Prevention By-law 2010-102 (as amended) requires the City to upgrade these Parks and Open Spaces water service connections to comply with this municipal standard. Additionally, over 90% of all Parks and Open Spaces water services are unmetered resulting in a large quantity of water that is unaccounted for. This lack of metering significantly impacts the ability to accurately calculate water loss values and subsequently the leakage index for the water distribution system.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,736	\$225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,961
Forecast	\$0	\$0	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$195
Total	\$1,736	\$225	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,156

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr Water Rate Capital Holding Res	\$26	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26
Contribution from Water Capital Reserve	\$1,710	\$225	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,130
Total	\$1,736	\$225	\$195	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,156

2023 Capital Project Detail Report

Project Title: Watermain Cathodic Protection Program

Project Number: EN1189

Department: Infrastructure Department

Summary: Installation of watermain cathodic protection on existing ductile iron watermains. The anodes will be connected to ductile iron watermains by insulated copper wires; the anodes will corrode, rather than the watermain to which they are attached, thereby extending the life of the watermain.

Rationale: This program is intended to apply cathodic protection to all ductile iron mains that are not otherwise proposed for replacement in other capital projects, and that fall within the recommended age (40 years or younger) to maximize the benefit of cathodic protection. Installation of cathodic protection is expected to increase the life of ductile iron watermains by up to 15 years.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$4,912	\$1,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,912
Forecast	\$0	\$0	\$1,000	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,960
Total	\$4,912	\$1,000	\$1,000	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,872

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Water Capital Reserve	\$4,912	\$1,000	\$1,000	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,872
Total	\$4,912	\$1,000	\$1,000	\$960	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,872

2023 Capital Project Detail Report

Project Title: Whiskey Creek Channel Reconstruction - Bayview to Lackies Bush

Project Number: EN1483

Department: Infrastructure Department

Summary: Watercourse reconstruction for approximate 740 metres from Bayview, around 279 Bayview and connection to the watercourse in Lackies Bush. The project involved partial property acquisition of three properties.

Rationale: The channel at this location does not have sufficient capacity to convey major flow events. There have been two reported incidents of flood damages in the last ten years. The reconstructed channel would have higher conveyance capacity and reduce the potential for flooding.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$267	\$396	\$396	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,059
Forecast	\$0	\$0	\$0	\$0	\$227	\$3,000	\$3,000	\$4,207	\$4,207	\$0	\$0	\$14,641
Total	\$267	\$396	\$396	\$0	\$227	\$3,000	\$3,000	\$4,207	\$4,207	\$0	\$0	\$15,700

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Stormwater FMB Reserve	\$0	\$178	\$178	\$0	\$102	\$1,350	\$1,350	\$1,893	\$1,893	\$0	\$0	\$6,945
Cont fr DC Whiskey Creek - Pond Reserve	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$120
Contribution from Tax Capital Reserve	\$147	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$147
Contribution from Stormwater Capital Reserve	\$0	\$218	\$218	\$0	\$125	\$1,650	\$1,650	\$2,314	\$2,314	\$0	\$0	\$8,488
Total	\$267	\$396	\$396	\$0	\$227	\$3,000	\$3,000	\$4,207	\$4,207	\$0	\$0	\$15,700

2023 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.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$107	\$330	\$710	\$663	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,810
Forecast	\$0	\$0	\$0	\$0	\$1,382	\$595	\$3,068	\$3,094	\$193	\$0	\$0	\$8,332
Total	\$107	\$330	\$710	\$663	\$1,382	\$595	\$3,068	\$3,094	\$193	\$0	\$0	\$10,142

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Stormwater FMB Reserve	\$48	\$149	\$320	\$298	\$622	\$268	\$1,381	\$1,392	\$87	\$0	\$0	\$4,564
Contribution from Tax Capital Reserve	\$59	\$182	\$107	\$74	\$0	\$0	\$655	\$655	\$41	\$0	\$0	\$1,773
Contribution from Stormwater Capital Reserve	\$0	\$0	\$283	\$291	\$760	\$327	\$1,032	\$1,047	\$65	\$0	\$0	\$3,805
Total	\$107	\$330	\$710	\$663	\$1,382	\$595	\$3,068	\$3,094	\$193	\$0	\$0	\$10,142

2023 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 for beyond 2031. 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 workspace 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 by 2071. This will also result in an increase to the sludge production and the biosolids generation at the WwTF. To address the growth projections as per the Master Plan, the WwTF will have to expand its capacity to meet the population growth. This project is key to the City's growth and regulatory compliance. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,402	(\$2,144)	\$800	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,058
Forecast	\$0	\$0	\$0	\$800	\$800	\$500	\$1,512	\$0	\$0	\$0	\$0	\$3,612
Total	\$2,402	(\$2,144)	\$800	\$800	\$800	\$500	\$1,512	\$0	\$0	\$0	\$0	\$4,670

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC WW Serv Facilities Reserve	\$1,809	(\$2,091)	\$800	\$800	\$800	\$500	\$1,512	\$0	\$0	\$0	\$0	\$4,130
Contribution from WW Capital Reserve	\$593	(\$53)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$540
Total	\$2,402	(\$2,144)	\$800	\$800	\$800	\$500	\$1,512	\$0	\$0	\$0	\$0	\$4,670

2023 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 (PDs) 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,410	(\$1,333)	\$1,346	\$1,966	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,390
Forecast	\$0	\$0	\$0	\$388	\$2,691	\$7,657	\$9,882	\$5,308	\$6,000	\$0	\$0	\$31,926
Total	\$2,410	(\$1,333)	\$1,346	\$2,354	\$2,691	\$7,657	\$9,882	\$5,308	\$6,000	\$0	\$0	\$36,316
Funding (in 000's):												
	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC WW Serv Facilities Reserve	\$2,410	(\$1,333)	\$1,346	\$2,354	\$2,691	\$7,657	\$9,882	\$5,308	\$6,000	\$0	\$0	\$36,316
Total	\$2,410	(\$1,333)	\$1,346	\$2,354	\$2,691	\$7,657	\$9,882	\$5,308	\$6,000	\$0	\$0	\$36,316

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,700	(\$1,557)	\$2,826	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,469
Forecast	\$0	\$0	\$0	\$1,526	\$3,800	\$3,807	\$5,000	\$0	\$0	\$0	\$0	\$14,133
Total	\$2,700	(\$1,557)	\$2,826	\$3,026	\$3,800	\$3,807	\$5,000	\$0	\$0	\$0	\$0	\$19,602

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC WW Serv Facilities Reserve	\$1,646	(\$996)	\$1,809	\$1,937	\$2,432	\$2,436	\$3,200	\$0	\$0	\$0	\$0	\$12,463
Contribution from WW Capital Reserve	\$1,054	(\$560)	\$1,017	\$1,089	\$1,368	\$1,370	\$1,800	\$0	\$0	\$0	\$0	\$7,139
Total	\$2,700	(\$1,557)	\$2,826	\$3,026	\$3,800	\$3,807	\$5,000	\$0	\$0	\$0	\$0	\$19,602

2023 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$16,703	(\$7,577)	\$6,400	\$4,410	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0	\$23,936
Forecast	\$0	\$0	\$0	\$4,410	\$10,646	\$10,539	\$17,128	\$20,458	\$24,892	\$14,910	\$13,432	\$116,414
Total	\$16,703	(\$7,577)	\$6,400	\$8,819	\$14,646	\$10,539	\$17,128	\$20,458	\$24,892	\$14,910	\$13,432	\$140,350

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Debenture Proceeds - DCs	\$3,910	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,910
Cont fr DC WW Serv Facilities Reserve	\$0	(\$3,720)	\$3,466	\$5,644	\$9,373	\$6,745	\$10,962	\$13,093	\$15,931	\$9,543	\$8,596	\$79,633
Contribution from WW Capital Reserve	\$12,793	(\$3,857)	\$2,934	\$3,175	\$5,273	\$3,794	\$6,166	\$7,365	\$8,961	\$5,368	\$4,836	\$56,806
Total	\$16,703	(\$7,577)	\$6,400	\$8,819	\$14,646	\$10,539	\$17,128	\$20,458	\$24,892	\$14,910	\$13,432	\$140,350

2023 Capital Project Detail Report

Project Title: WwTF New Cogeneration and Biogas Treatment System

Project Number: EN1477

Department: Infrastructure Department

Summary: This study will include a condition assessment of the existing gas treatment system and a quality assessment of the biogas currently generated at the Wastewater Treatment Facility.

Rationale: The current biogas utilization at the Wastewater Treatment Facility is not optimized and a significant amount of biogas is flared as waste gas. A study was undertaken to identify available alternatives to optimize the energy recovery from the cogeneration system. A condition assessment of the existing biogas treatment system is required to ensure that the quality of biogas currently generated will meet the specifications of the proposed new cogeneration system. This will ensure longevity of the proposed new biogas system and minimize future maintenance costs.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$382	\$50	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$582
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$382	\$50	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$582

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC WW Serv Facilities Reserve	\$382	\$50	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$582
Total	\$382	\$50	\$150	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$582

2023 Capital Project Detail Report

Project Title: Handheld Ticket Writing Systems / Software

Project Number: LC1004

Department: Legislative & Court Services

Summary: Requirement to replace Handheld Ticket Writing Systems both back office and in field units due to "end of life" with current system no longer supported by current vendor.

Advised by current vendor, support for current Handheld Ticket Writer System has now reached "end of life" and will no longer be supported beyond 2021. Handheld Ticket Writers and back office software is require for processing of all parking infractions issued within the City. Over 50,000 parking infractions (tickets) are issued annually. Failure to procure new products will result in a loss of revenue to the Corporation.

Rationale: It is anticipated that a new system (both machine and software) would have a life cycle of approximately 7-10 years pending changes to the overall corporate operating systems or technology changes unknown at this time.

The current handhelds and software have been operational since the early 2000's with very minor upgrades over the years not resulting in any substantial costs to the corporation.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$169	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$219
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$169	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$219

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$169	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$219
Total	\$169	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$219

2023 Capital Project Detail Report

Project Title: County of Simcoe Capital Program - Long Term Care & Senior Services

Project Number: FI1018

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 County's 10 year Capital Plan, as it relates to long term care and senior services needs, at the time of budget preparation. The plan is subject to change.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,366	\$1,160	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,526
Forecast	\$0	\$0	\$1,536	\$1,986	\$2,097	\$1,952	\$2,036	\$1,913	\$1,889	\$2,103	\$1,495	\$17,007
Total	\$1,366	\$1,160	\$1,536	\$1,986	\$2,097	\$1,952	\$2,036	\$1,913	\$1,889	\$2,103	\$1,495	\$19,534

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Long Term Care Reserve	\$97	\$110	\$168	\$212	\$234	\$234	\$234	\$234	\$233	\$227	\$197	\$2,180
Cont fr Simcoe County Capital Reserve	\$1,269	\$1,050	\$1,368	\$1,774	\$1,863	\$1,718	\$1,802	\$1,679	\$1,656	\$1,877	\$1,298	\$17,354
Total	\$1,366	\$1,160	\$1,536	\$1,986	\$2,097	\$1,952	\$2,036	\$1,913	\$1,889	\$2,103	\$1,495	\$19,534

2023 Capital Project Detail Report

Project Title: County of Simcoe Capital Program - Paramedic Services

Project Number: FI1019

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 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$9,016	\$2,324	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,339
Forecast	\$0	\$0	\$2,380	\$2,223	\$2,126	\$2,660	\$2,183	\$1,668	\$1,697	\$2,799	\$1,949	\$19,684
Total	\$9,016	\$2,324	\$2,380	\$2,223	\$2,126	\$2,660	\$2,183	\$1,668	\$1,697	\$2,799	\$1,949	\$31,024

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Paramedics Reserve	\$3,822	\$397	\$441	\$471	\$492	\$578	\$527	\$376	\$380	\$363	\$291	\$8,137
Cont fr Simcoe County Capital Reserve	\$5,194	\$1,926	\$1,939	\$1,752	\$1,634	\$2,082	\$1,656	\$1,292	\$1,317	\$2,436	\$1,659	\$22,887
Total	\$9,016	\$2,324	\$2,380	\$2,223	\$2,126	\$2,660	\$2,183	\$1,668	\$1,697	\$2,799	\$1,949	\$31,024

2023 Capital Project Detail Report

Project Title: County of Simcoe Capital Program - Social Housing & Community Services

Project Number: FI1020

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 County's 10 year Capital Plan, as it relates to social housing and community services, at the time of budget preparation. The plan is subject to change.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$11,964	\$5,240	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,204
Forecast	\$0	\$0	\$6,280	\$7,060	\$7,732	\$7,466	\$7,046	\$6,110	\$5,649	\$5,350	\$4,017	\$56,710
Total	\$11,964	\$5,240	\$6,280	\$7,060	\$7,732	\$7,466	\$7,046	\$6,110	\$5,649	\$5,350	\$4,017	\$73,914

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Social Housing Reserve	\$5,859	\$494	\$609	\$761	\$913	\$913	\$913	\$913	\$913	\$913	\$645	\$13,846
Cont fr Simcoe County Capital Reserve	\$6,104	\$4,746	\$5,671	\$6,299	\$6,819	\$6,553	\$6,133	\$5,197	\$4,736	\$4,437	\$3,372	\$60,068
Total	\$11,964	\$5,240	\$6,280	\$7,060	\$7,732	\$7,466	\$7,046	\$6,110	\$5,649	\$5,350	\$4,017	\$73,914

2023 Capital Project Detail Report

Project Title: Lake Simcoe Regional Airport

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 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$15	\$159	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$174
Forecast	\$0	\$0	\$866	\$793	\$1,057	\$274	\$0	\$33	\$620	\$31	\$315	\$3,989
Total	\$15	\$159	\$866	\$793	\$1,057	\$274	\$0	\$33	\$620	\$31	\$315	\$4,163

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Airport Infrastructure Reserve	\$15	\$159	\$866	\$793	\$1,057	\$274	\$0	\$33	\$620	\$31	\$315	\$4,163
Total	\$15	\$159	\$866	\$793	\$1,057	\$274	\$0	\$33	\$620	\$31	\$315	\$4,163

2023 Capital Project Detail Report

Project Title: Bus Stop Infrastructure Replacement/Improvements

Project Number: TR1018

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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$915	\$590	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,504
Forecast	\$0	\$0	\$610	\$140	\$126	\$130	\$126	\$130	\$135	\$139	\$144	\$1,680
Total	\$915	\$590	\$610	\$140	\$126	\$130	\$126	\$130	\$135	\$139	\$144	\$3,184

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Province of Ontario Grant Revenue	\$302	\$195	\$201	\$46	\$42	\$43	\$41	\$0	\$0	\$0	\$0	\$870
Government of Canada Grant Revenue	\$366	\$236	\$244	\$56	\$50	\$52	\$50	\$0	\$0	\$0	\$0	\$1,055
Contribution from Tax Capital Reserve	\$247	\$159	\$165	\$38	\$34	\$35	\$34	\$130	\$135	\$139	\$144	\$1,259
Total	\$915	\$590	\$610	\$140	\$126	\$130	\$126	\$130	\$135	\$139	\$144	\$3,184

2023 Capital Project Detail Report

Project Title: Conventional Transit Bus Growth

Project Number: TR1030

Department: Transit & Parking Strategy

Summary: New Conventional growth buses

Rationale: The City anticipates growth in the annexed area starting in 2020, which will require additional routes to service the residents in this area. In order to maintain current service standards, support the new routes, and meet the transit mode share targets, growth of the fleet is required. There are currently not enough assets in the fleet to support new routes or frequency improvements to the network.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$2,089	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,089
Forecast	\$0	\$0	\$0	\$0	\$1,598	\$3,308	\$5,991	\$5,315	\$5,501	\$3,796	\$3,910	\$29,420
Total	\$2,089	\$0	\$0	\$0	\$1,598	\$3,308	\$5,991	\$5,315	\$5,501	\$3,796	\$3,910	\$31,509

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Cont fr DC Transit Reserve	\$1,776	\$0	\$0	\$0	\$1,358	\$2,812	\$5,093	\$4,518	\$4,676	\$3,227	\$3,323	\$26,782
Contribution from Tax Capital Reserve	\$313	\$0	\$0	\$0	\$240	\$496	\$899	\$797	\$825	\$569	\$586	\$4,726
Total	\$2,089	\$0	\$0	\$0	\$1,598	\$3,308	\$5,991	\$5,315	\$5,501	\$3,796	\$3,910	\$31,509

2023 Capital Project Detail Report

Project Title: Conventional Transit Bus Replacement Program

Project Number: TR1029

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 life cycle expectancy of 12 years. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$6,990	\$2,238	\$2,316	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,543
Forecast	\$0	\$0	\$0	\$2,397	\$2,481	\$3,424	\$3,544	\$5,501	\$5,694	\$5,865	\$6,041	\$34,946
Total	\$6,990	\$2,238	\$2,316	\$2,397	\$2,481	\$3,424	\$3,544	\$5,501	\$5,694	\$5,865	\$6,041	\$46,489

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Province of Ontario Grant Revenue	\$2,307	\$738	\$764	\$791	\$819	\$1,130	\$1,169	\$0	\$0	\$0	\$0	\$7,718
Government of Canada Grant Revenue	\$2,796	\$895	\$926	\$959	\$992	\$1,369	\$1,417	\$0	\$0	\$0	\$0	\$9,355
Contribution from Tax Capital Reserve	\$1,887	\$604	\$625	\$647	\$670	\$924	\$957	\$5,501	\$5,694	\$5,865	\$6,041	\$29,415
Total	\$6,990	\$2,238	\$2,316	\$2,397	\$2,481	\$3,424	\$3,544	\$5,501	\$5,694	\$5,865	\$6,041	\$46,489

2023 Capital Project Detail Report

Project Title: Digital Parking Pass Solution

Project Number: TR1032

Department: Transit & Parking Strategy

Summary: The physical parking pass has many disadvantages, including a labour-intensive reconciliation process, dispute-prone visual inspection process for Enforcement, and reliance on in-person sales that can be inconvenient for the customer. The Resident Waterfront Parking Pass in particular can be susceptible to fraud in its physical format because there is no efficient method to prevent inappropriate sharing or validate residency online. This was demonstrated by the backlog that resulted from the influx of requests received during the 2020 summer season.

The Digital Parking Pass Solution avoids the issues associated with physical formats and offers new functionality such as a streamlined method to validate residency, LPR-assisted enforcement, new data generated by synergies with Parking App and pay-by-plate kiosks, and online sales. Contactless payment options are of heightened importance due to the COVID-19 pandemic.

When the full transition is complete, the corporation will save a \$27,000 a year on hangtags and waterfront parking revenues are expected to increase because it will be difficult to fraudulently obtain a Resident Waterfront Parking Pass. Staff time previously dedicated to tracking and reconciling parking pass sales can be reinvested in customer service and other corporate initiatives.

A dedicated resource with an IT skillset is required to ensure the project progresses and maintain current service levels as new processes are implemented. While technology is poised to transform the parking business model and improve the customer experience significantly, it will also add a layer of complexity to the way we do business. The Parking Technology Project Manager will also be responsible for the full deployment of the Parking App and LPR. Tasking a single position with leading simultaneous technology projects will maximize opportunities for integration and optimization between projects. This position will be temporary.

Rationale: Today the City of Barrie provides hangtag parking passes, however new technology has made it possible to completely transition from physical to digital parking passes. The Digital Parking Pass Solution is a suite of software that includes backoffice management of parking pass sales and a customer-facing platform for online sales. Parking passes are linked to license plate numbers, which acts a unique identifier for all parking transactions. In this way, the Digital Parking Pass Solution lays the foundation for a future-state parking “ecosystem” where customer service, operations and enforcement are connected through technology. Integrating with other corporate initiatives such as the Parking App and License Plate Recognition (LPR) enforcement technology will unlock new caches of information to support evidence-based improvements.

The intent is to phase out hangtags gradually overtime, starting with a digital option for the Resident Waterfront Parking Pass for summer 2021. This will allow a controlled environment for testing and resolving unforeseen issues before the full transition. A dedicated resource with an IT skill set is required to ensure the project progresses and maintain current service levels as new processes are implemented. This position will be temporary.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$281	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335
Total	\$281	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Parking Capital Reserve	\$281	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335
Total	\$281	\$53	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$335

2023 Capital Project Detail Report

Project Title: Renewal - Paid Public Parking Lots - Chase McEachern Parking Lot 2023

Project Number: TR1037

Department: Transit & Parking Strategy

Summary: The City of Barrie manages over 3,000 public parking spaces in the downtown and waterfront. These parking lots provide access to a wide variety of activities that bring life to our community, including working, shopping, participating in events and using recreation facilities.

Rationale: The City of Barrie manages over 3,000 public parking spaces in the downtown and waterfront. These parking lots provide access to a wide variety of activities that bring life to our community, including working, shopping, participating in events and using recreation facilities.

A recent facility condition assessment of paid public parking lots was completed including geotechnical testing that identified critical repair rehab and renewal work needed over the next 10 years to maintain the City's assets. An evaluation matrix has been created to consider pavement condition, cost, utilization revenue, and prominence.

The plan has Chase McEachern and 15 Bayfield lots being complete in 2023-24, with Spirit Catcher lot in 2024. The highest priority lot identified is the Chase McEachern and 15 Bayfield parking lots with a PCI rating of 40/100 deemed Priority 1 and requiring a full reconstruction. The Chase McEachern lot is also a highly utilized and revenue producing lot; and provides prominent access to Meridian Place, the downtown, waterfront, and a future market. Reconstructing the Chase McEachern and 15 Bayfield lots will increase prestige in the downtown, increase parking supply, improve safety and minimize the risk of liability.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$50	\$1,064	\$1,042	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,156
Forecast	\$0	\$0	\$0	\$494	\$482	\$377	\$599	\$850	\$862	\$1,105	\$468	\$5,238
Total	\$50	\$1,064	\$1,042	\$494	\$482	\$377	\$599	\$850	\$862	\$1,105	\$468	\$7,394

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Parking Capital Reserve	\$50	\$1,064	\$1,042	\$494	\$482	\$377	\$599	\$850	\$862	\$1,105	\$468	\$7,394
Total	\$50	\$1,064	\$1,042	\$494	\$482	\$377	\$599	\$850	\$862	\$1,105	\$468	\$7,394

2023 Capital Project Detail Report

Project Title: Renewal - Parking Devices

Project Number: TR1038

Department: Transit & Parking Strategy

Summary: Replacement of parking meters, pay and display machines and upgrades to be PCI compliant.

Rationale: The City manages 127 pay stations and 397 coin meters across the paid parking system within the downtown, waterfront, and hospital parking areas. These parking devices are required to be replaced every 10-15 years to maintain their functionality and service to the public. These machines also require upgrades to be Payment Card Industry (PCI) compliant as technology evolves.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$83	\$184	\$184	\$173	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$623
Forecast	\$0	\$0	\$0	\$0	\$83	\$83	\$83	\$83	\$83	\$83	\$83	\$578
Total	\$83	\$184	\$184	\$173	\$83	\$83	\$83	\$83	\$83	\$83	\$83	\$1,201

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Parking Capital Reserve	\$83	\$184	\$184	\$173	\$83	\$83	\$83	\$83	\$83	\$83	\$83	\$1,201
Total	\$83	\$184	\$184	\$173	\$83	\$83	\$83	\$83	\$83	\$83	\$83	\$1,201

2023 Capital Project Detail Report

Project Title: Specialized Transit Bus Replacement Program

Project Number: TR1028

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 life cycle expectancy of 7 years. 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	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$1,401	\$212	\$220	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,833
Forecast	\$0	\$0	\$0	\$682	\$706	\$731	\$756	\$783	\$540	\$835	\$860	\$5,893
Total	\$1,401	\$212	\$220	\$682	\$706	\$731	\$756	\$783	\$540	\$835	\$860	\$7,726

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Province of Ontario Grant Revenue	\$451	\$70	\$73	\$225	\$233	\$241	\$250	\$0	\$0	\$0	\$0	\$1,543
Government of Canada Grant Revenue	\$547	\$119	\$88	\$273	\$282	\$292	\$303	\$0	\$0	\$0	\$0	\$1,904
Contribution from Tax Capital Reserve	\$369	\$57	\$59	\$184	\$191	\$197	\$204	\$783	\$540	\$835	\$860	\$4,279
Total	\$1,401	\$212	\$220	\$682	\$706	\$731	\$756	\$783	\$540	\$835	\$860	\$7,726

2023 Capital Project Detail Report

Project Title: Transit Alternative Payment Technology Implementation

Project Number: TR1031

Department: Transit & Parking Strategy

Summary: Research and implementation of smart payment technologies will increase payment options for the transit riders, increase efficiency and reduce cash handling costs, increase service, and remove barriers to access transit that will result in additional transit riders and revenue for the City.

Rationale: Existing payment options for transit users are limited to cash or pre-purchased ride cards. As payment technologies become commonplace in other transit agencies and industries there is a growing expectation from transit users to have additional payment options such as smart cards or mobile applications.

As part of the evaluation of payment options the City will undertake a business case to determine whether or not the PRESTO card system should be deployed. PRESTO has been in operation for several years now in the Greater Toronto and Hamilton Areas and is already used by Barrie Transit users that utilize it on the GO Transit system.

Mobile payment, using an application (app) running on a smart phone, is becoming more common place and eliminates the need for cash, cards or tickets. York Region Transit launched YRT/VIVA Pay in July 2017 as an alternative to cash and by January 2018 had over 13,000 users. Transport for London, which operates the London Underground has been leveraging Apple Pay as has Japanese railway JR East and New York's MTA's eTix app.

Handling cash is both inefficient for the customer and the City. The collection, control, processing, counting, depositing, and reconciling of cash is costly and could be avoided through smart payment technologies. In addition, the lack of payment options will deter more residents from using the transit system and will continue to create an additional barrier for the growth of transit ridership.

Finally, with the recent impacts of COVID-19 the need for contactless payment options is greater than ever to limit the number of interactions between riders, staff, and bus operators.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$894	\$258	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,153
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$894	\$258	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,153

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$894	\$258	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,153
Total	\$894	\$258	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,153

2023 Capital Project Detail Report

Project Title: Transit Signal Priority

Project Number: TR1036

Department: Transit & Parking Strategy

Summary: Installation of bus and traffic signal hardware to dynamically end or stall signals to facilitate improved transit route times at busy and key intersections.

Rationale: The project will look at bus and traffic signal hardware and control centre to dynamically shift the length of stop and go signals to facilitate improved run times and on time performance for transit routes. When a bus approaches a traffic light the existing signal will be ended early or extended to accommodate the bus trip and help mitigate traffic delays. The increased efficiency will result in a direct positive service level improvement for transit riders as well as increase the efficiency of existing routes to allow the gained schedule time to be utilized for more frequent and greater coverage of service.

PROJECT EXPENDITURE AND FUNDING

Expenditure (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Request	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Forecast	\$0	\$0	\$0	\$0	\$0	\$0	\$1,472	\$0	\$0	\$0	\$0	\$1,472
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$1,472	\$0	\$0	\$0	\$0	\$1,472

Funding (in 000's):

	Prior Approvals	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
Contribution from Tax Capital Reserve	\$0	\$0	\$0	\$0	\$0	\$0	\$1,472	\$0	\$0	\$0	\$0	\$1,472
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$1,472	\$0	\$0	\$0	\$0	\$1,472