

#### The Regional Municipality of Durham

Works Committee Agenda

Wednesday, December 7, 2022, 9:30 a.m. Regional Council Chambers Regional Headquarters Building 605 Rossland Road East, Whitby

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 2097.

Note: This meeting will be held in a hybrid meeting format with electronic and in-person participation. It is encouraged that members of the public view the Committee meeting via live streaming, instead of attending the meeting in-person. If in-person attendance is required, arrangements must be made by emailing <u>clerks@durham.ca</u> prior to the meeting date.

- 1. Roll Call
- 2. Declarations of Interest
- 3. Election of the Works Committee Vice-Chair
- 4. Adoption of Minutes
  - 4.1 Works Committee meeting September 7, 2022
- 5. Statutory Public Meetings There are no statutory public meetings
- 6. Delegations There are no delegations
- 7. Presentations
  - 7.1 Commissioner of Works and Works Directors Team Re: Works Departmental Overview
  - John Presta, Commissioner of Works
     Re: Works Department 2023 Water Supply and Sanitary Sewerage
     Systems Business Plans and Budgets (2022-W-42)

#### 8. Waste

8.1 Correspondence

Pages

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8.2 Reports

There are no Waste Reports to be considered

#### 9. Works

- 9.1 Correspondence
  - a. Correspondence received from Shelagh Cauchi on behalf of Wickham Street Residents in the City of Oshawa
     Re: A Sound/Pollution Barrier on Harmony Road North in the City of Oshawa

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Recommendation: Receive for Information

b. Correspondence received from the Town of Whitby
 Re: Highway 412 – Installation of Ramps and Signalization
 Lights

Pulled from October 7, 2022, Council Information Package by Councillor Collier

Recommendation: Receive for Information

- 9.2 Reports
  - Report #2022-W-42
     Works Department 2023 Water Supply and Sanitary Sewerage Systems Business Plans and Budgets
- 10. Advisory Committee Resolutions
- Confidential Matters
   There are no confidential matters to be considered
- 12. Other Business
- 13. Date of Next Meeting Wednesday, January 11, 2023 at 9:30 AM
- 14. Adjournment

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 2097.

#### The Regional Municipality of Durham

#### MINUTES

#### WORKS COMMITTEE

#### Wednesday, September 7, 2022

A regular meeting of the Works Committee was held on Wednesday, September 7, 2022 in the Lower Level Boardroom (LL-C), Regional Headquarters Building, 605 Rossland Road East, Whitby, Ontario at 9:33 AM. Electronic participation was offered for this meeting.

#### 1. Roll Call

#### Present: Councillor Barton\* Councillor Crawford\* Councillor Marimpietri\*, Vice-Chair attended the meeting at 10:29 AM Councillor John Neal\* Councillor Smith\* Regional Chair Henry\* \*denotes Councillors participating electronically

#### Also

Present:	Councillor Dies*
	Councillor Foster* left the meeting at 10:40 AM
	Councillor Leahy attended the meeting at 9:58 AM
	Councillor Joe Neal*
	Councillor Pickles*
	Councillor Wotten* left the meeting at 11:30 AM
	Councillor Yamada attended the meeting at 11:14 AM

#### Absent: Councillor McLean Councillor Mitchell, Chair

#### Staff

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Present:	G. Anello, Director of Waste Management Services
	E. Baxter-Trahair, Chief Administrative Officer
	B. Bridgeman, Commissioner of Planning & Economic Development
	B. Dobson, Acting Director of Environmental Services
	C. Dunkley, Manager of Financial Services and Corporate Real Estate
	A. Evans, Manager of Waste Services
	B. Holmes, General Manager, DRT
	R. Inacio, Systems Support Specialist, Corporate Services – IT
	R. Jagannathan, Director of Transportation and Field Services
	A. Porteous, Supervisor of Waste Services
	J. Presta, Commissioner of Works
	K. Smith, Committee Clerk, Corporate Services – Legislative Services

S. Ciani, Committee Clerk, Corporate Services - Legislative Services

In the absence of the Committee Chair, and Committee Vice-Chair, Regional Chair Henry, was appointed as Acting Committee Chair.

Moved by Councillor Smith, Seconded by Councillor Barton,

(64) That Regional Chair Henry be appointed as Acting Committee Chair for the September 7, 2022 Works Committee meeting. CARRIED

#### 2. Declarations of Interest

There were no declarations on interest.

#### 3. Adoption of Minutes

Moved by Councillor John Neal, Seconded by Councillor Barton,

(65) That the minutes of the regular Works Committee meeting held on Wednesday, June 8, 2022, be adopted. CARRIED

#### 4. Statutory Public Meetings

There were no statutory public meetings.

#### 5. Delegations

5.1 Linda Gasser, Whitby resident, re: Update on the Proposed Clear Bag Pilot in the Municipality of Clarington (2022-WR-4) [Item 7.2 A)]

Linda Gasser, Whitby resident appeared before the Committee regarding Report #2022-WR-4: Update on the Proposed Clear Bag Pilot in the Municipality of Clarington.

L. Gasser stated that the primary objective of the clear bags pilot should be to minimize and reduce waste tonnage in garbage bags, which would encourage proper sorting behaviour and participation in diversion programs including e-waste and hazardous waste.

L. Gasser stated other considerations that would affect future recommendations, besides the pilot results, should be identified. She referenced statistics from the City of Markham's clear bag garbage program that noted when the program was introduced in 2013 there was a significant reduction in garbage tonnage and a slight increase in recycling/organics tonnages.

L. Gasser stated that the primary objective should be to encourage, motivate and empower residents to achieve positive pilot objectives, and that careful consideration needs to be given to the timing of the pilot.

L. Gasser stated that the clear bag pilot would help raise awareness and change behaviour around waste generation across Durham. She stated that the following should occur for the pilot to be successful: communication materials should be developed with the Municipality of Clarington's input; all communication materials should be circulated to the Works Committee and Council; and there should be prompt public reporting of the pilot results.

5.2 Wendy Bracken, Clarington resident, re: Update on the Proposed Clear Bag Pilot in the Municipality of Clarington (2022-WR-4) [Item 7.2 A)]

Wendy Bracken, Clarington resident appeared before the Committee regarding Report #2022-WR-4: Update on the Proposed Clear Bag Pilot in the Municipality of Clarington.

W. Bracken stated that a clear bag policy would be a positive step forward to reducing garbage and protecting residents' health and the environment. She also stated that according to the Continuous Improvement Fund (CIF), 40 Ontario municipalities have successfully implemented a clear bag policy.

W. Bracken expressed concerns with the shortened length of study being only 6 months) as opposed to a one-year pilot program.as it is not optimal with seasonal fluctuations. She stated that removing hazardous and other materials from the waste stream matters and referenced an excerpt from the Waste Incineration & Public Health, National Research Council (US) Committee on Health Effects of Waste Incineration.

Moved by Councillor Smith, Seconded by Councillor John Neal,

(66) That W. Bracken be granted a one-time 2-minute extension to finish her delegation.

#### CARRIED

W. Bracken stated that a clear bag policy is part of pollution prevention, and that the "zero tolerance" policy referenced in Report #2022-WR-4 is inconsistent with the CIF's Clear Bag Toolkit which advises that there should be some tolerance.

W. Bracken suggested that the performance measures should also include electronic waste; the Municipality of Clarington should be involved especially in the development of promotional and educational materials; the "zero tolerance" policy needs to be reviewed; and, that the residents should be informed of why the clear bag pilot is being launched and how maximizing the removal of hazardous materials, electronics, recyclables, and organic matter benefits all residents. W. Bracken responded to questions from the Committee.

#### 6. **Presentations**

6.1 Andrew Evans, Manager of Waste Services, and Angela Porteous, Supervisor of Waste Operations, re: Waste Management Education Programs in Durham <u>Region Schools</u>

Andrew Evans, Manager of Waste Services, and Angela Porteous, Supervisor of Waste Operations, provided a PowerPoint Presentation with regards to the Waste Management Education Programs in Durham Region Schools.

Highlights of the Presentation included:

- School Programming
- Current Programming
- Elementary School Program
- High School Program
- Post-Secondary School Program
- Results
- Video Programming

A. Porteous advised that the goal of these presentations is to educate students on waste management programs and the impact individual choices can have on the environment. She also advised that the content can be tweaked for other organizations in the community and not just for schools.

A. Porteous advised that the school programming shifted to online presentations and materials during COVID, but that staff anticipate reaching over 6,000 students by the end of 2022.

A. Porteous responded to questions from the Committee regarding whether there would be a balanced approach to presenting information regarding the Durham York Energy Centre (DYEC) and how it operates; and now that planning for the development of French programming has been initiated, whether there would be staff that are able to present in French schools, or if bi-lingual staff would need to be hired.

#### 7. Waste

7.1 <u>Correspondence</u>

There were no items of communication considered.

#### 7.2 <u>Reports</u>

A) Update on the Proposed Clear Bag Pilot in the Municipality of Clarington (2022-WR-4)

Report #2022-WR-4 from J. Presta, Commissioner of Works, was received.

Moved by Councillor Marimpietri, Seconded by Councillor John Neal, (67) That we recommend to Council:

- A) That the implementation of a clear garbage bag pilot program in the Municipality of Clarington be approved with the following implementation parameters:
  - i) That the clear garbage bag pilot be implemented for a period of six months;
  - ii) That the clear garbage bag pilot commence in the third quarter of 2023 and include a four-week transition period before participation in the program becomes mandatory;
  - iii) That the clear garbage bag pilot project be implemented in a manner that reflects how the clear garbage bag program would be implemented on a permanent basis, meaning that where any visible Blue Box material, food, household hazardous waste or any other material for which a diversion program is available is detected in the garbage bag during the mandatory phase, that the bag will not be collected and will be left at the curb;
  - iv) That the clear garbage bag pilot project be conducted with the following performance measures with a comparison of the data pre- and post-pilot:
    - 1. Garbage generation rates;
    - 2. Quantity of Blue Box, Green Bin and/or household hazardous material found in the garbage bag;
    - 3. Collection contractor injury rate;
    - 4. Collection route impacts (collection time, etc.);
    - 5. Impacts at Waste Management Facilities; and
    - 6. Incidence of illegal dumping complaints.
- B) That external resources to support the implementation of the clear garbage bag pilot project be retained to provide the following:

- An initial communication strategy and support in the planning and operating phases of the clear garbage bag pilot, including the distribution of educational material to residents in the Municipality of Clarington and discussions with retail outlets and/or clear bag suppliers related to the supply of clear garbage bags to pilot project residents; and
- ii) Waste audits to establish the baseline for the performance measures and to measure performance in the Municipality of Clarington and other Regional Municipality of Durham municipalities during the pilot;
- C) That the pilot program costs, including anticipated additional collection contractor costs, waste audits to establish the baseline and ongoing evaluation of the effectiveness of the clear garbage bag pilot program, and continued educational and promotional efforts to support the pilot, currently estimated at \$530,000 exclusive of taxes, be included in the proposed 2023 Business Plans and Budget for Waste Management Services and subject to the approval of the new Council; and
- D) That additional details regarding the Regional Municipality of Durham's waste management education programs in partnership with local school boards and details regarding the City of Orillia's clear garbage bag requirement be received for information.

REFFERED LATER IN THE MEETING (See Following Motion)

Moved by Councillor Barton, Seconded by Councillor Marimpietri,

(68) That the main motion (67) of Councillors Marimpietri and John Neal be referred back to staff for a further report to be presented to the January 11, 2023 Works Committee meeting (the second Works Committee meeting of the new Council).

CARRIED ON THE FOLLOWING RECORDED VOTE:

No

None

<u>Yes</u> Councillor Barton Councillor Crawford Regional Chair Henry Councillor Marimpietri Councillor John Neal Councillor Smith

Members Absent: Councillor McLean Chair Mitchell

Declarations of Interest: None

#### 8. Works

There were no items of communication considered.

- 8.1 <u>Reports</u>
- A) Sole Source of Ultraviolet Disinfection Units at the Newcastle Water Pollution Control Plant, in the Municipality of Clarington (2022-W-37)

Report #2022-W-37 from J. Presta, Commissioner of Works, was received.

Staff responded to questions from the Committee regarding the justification for the sole source contract, and what benefit a sole source contract would have to the taxpayers.

Moved by Councillor Marimpietri, Seconded by Councillor Smith, (69) That we recommend to Council:

- A) That staff be authorized to enter into a sole source agreement with Trojan Technologies for the provision of ultraviolet disinfection units at the Newcastle Water Pollution Control Plant for the Rerating and Upgrades Project (D1117) in the amount of \$422,000\*; to be financed within the approved project from the Sanitary Sewage System Capital Budget; and
- B) That the Commissioner of Finance or designate be authorized to execute the required agreements.
   (\*) before applicable taxes.

#### CARRIED

B) Sole Source Approval for the Supply of Replacement Primary Treatment Scum Collectors and Equipment Required to Refurbish Existing Travelling Bridges at the Duffin Creek Water Pollution Control Plant, in the City of Pickering (2022-W-<u>38)</u>

Report #2022-W-38 from J. Presta, Commissioner of Works, was received.

Staff responded to questions from the Committee regarding the justification for the sole source contract, and what benefit a sole source contract would have to the taxpayers.

Moved by Councillor Marimpietri, Seconded by Councillor Barton, (70) That we recommend to Council:

A) That staff be authorized to negotiate and award a sole source agreement with OVIVO Water Technologies at an upset limit of \$12,500,000\* for the supply of replacement primary treatment scum collectors and equipment to refurbish the existing travelling bridges; B) That financing be provided from within the approved project budget in accordance with the approved cost sharing with the Region of York as follows:

	Cost Split (%)	Cost Allocation*
Durham Region	20	\$2,500,000
York Region	80	\$10,000,000
Total	100	\$12,500,000

C) That the Commissioner of Finance be authorized to execute the necessary documents related to this sole source agreement.

(\*) before applicable taxes

#### CARRIED

C) Sole Source Engineering Services Agreement for the Detailed Design of Bloor Street East (Regional Road 22), from East of Harmony Road South (Regional Road 33) to Grandview Street South, in the City of Oshawa (2022-W-39)

Report #2022-W-39 from J. Presta, Commissioner of Works, was received.

Staff responded to questions from the Committee regarding the justification for the sole source contract, and what benefit a sole source contract would have to the taxpayers.

In response to a question from Councillor Joe Neal regarding why the services are stopping at Grandview Street South in the City of Oshawa, R. Jagannathan advised that he would follow-up with staff on this matter and report back to Councillor Joe Neal directly.

Moved by Councillor Marimpietri, Seconded by Councillor Barton, (71) That we recommend to Council:

- A) That staff be authorized to negotiate a sole source engineering services agreement with AECOM Canada Limited to undertake the detailed design of Bloor Street East (Regional Road 22) from east of Harmony Road South (Regional Road 33) to Grandview Street South, in the City of Oshawa, at an amount not to exceed \$1,737,140\*; to be financed through the approved project budget; and
- B) That the Commissioner of Finance be authorized to execute the necessary documents related to the sole source agreement.
   (\*) before applicable taxes

#### CARRIED

D) Update on Servicing Options for Property Owners on Bickle Drive and Roselawn Avenue, including the Sun Valley Heights Homebuilders Co-op, in the City of Oshawa (2022-W-40)

Report #2022-W-40 from J. Presta, Commissioner of Works, was received.

Detailed discussion ensued regarding the servicing options for property owners on Bickle Drive and Roselawn Avenue, including the Sun Valley Heights Homebuilders Co-op, in the City of Oshawa; whether there is an ability to change the policy to service the remaining communities that are not connected to municipal sewer and water; the current well interference concerns raised by the property owners; and if an emergency waterline can be extended from Thornton Road and Conlin Road to the Sun Valley Heights residents in the case that there are well interruptions due to construction.

J. Presta advised that homeowners were informed that the communal well could fail at any time and then the well would need to be replaced or municipal services brought in. He advised that staff are following the authority through the Region's by-law and provincial legislation, and referenced Section 5 of Report 2022-W-40 that details an alternative option for the extension of municipal services, which would be through a local improvement charge that would need to be approved by Regional Council.

J. Presta advised that if Report #2022-W-40 is approved by Regional Council, the next steps would be to construct the services that have been approved in the City of Oshawa's and Region of Durham's budgets; obtain a project schedule from the City of Oshawa; and provide an update to Regional Council on the status of the detailed design and project schedule. He advised that the services are forecasted to begin in the Summer of 2023 and that a supplementary memo will be provided to Regional Council with the details listed above.

At this time, at the request of Acting Chair Henry, the Committee Clerk took a roll call of the Committee members to ensure there was still quorum. All members of the Committee were present with the exceptions of Councillor McLean and Chair Mitchell.

Staff responded to further questions from the Committee regarding the initial cause for concern after a well inspection was conducted in 2020 and a crack in the communal well seal was identified; and what financing options would be available to the homeowners.

In response to a question from the Committee regarding the history of the communal well, Commissioner Presta advised that the Region of Durham was ordered by the Ministry of the Environment, Conservation and Parks to operate the well on behalf of the Sun Valley Heights Homebuilders Co-op but does not own the communal well.

Moved by Councillor Marimpietri, Seconded by Councillor Barton, (72)

### That the Committee recess for 10 minutes.

#### CARRIED

The Committee recessed at 11:56 AM and returned at 12:06 PM.

The Committee Clerk conducted a roll call following the recess and all members of Committee were present with the exceptions of Councillor McLean and Chair Mitchell.

Moved by Councillor Marimpietri, Seconded by Councillor Smith, That we recommend to Council: (73)

- A) That Report #2022-W-40 of the Commissioner of Works be received for information; and
- B) That a copy of Report #2022-W-40 be provided to the residents on Bickle Drive and Roselawn Avenue; Sun Valley Homebuilders Co-op; the City of Oshawa; and The Ministry of the Environment, Conservation and Parks York-Durham office.

CARRIED LATER IN THE MEETING (See Following Motion)

Moved by Councillor Marimpietri, Seconded by John Neal,

- That the main motion (73) of Councillors Marimpietri and Smith be (74) amended to include the following as new Parts C), D), E) and F):
- C) That the Region of Durham collaborate with the City of Oshawa and the appropriate legislative bodies to immediately undertake a policy review and provide options and recommendations to effectively change the current water and sanitary service provision policy with the objective of making access to municipal servicing for existing privately serviced communities such as Sun Valley Homebuilders Co-op on Thornton Road, Roselawn Avenue and Bickle Drive easier to satisfy and provide homeowners with the appropriate servicing;
- That staff investigate providing the same level of water and sanitary service D) options to Sun Valley residents as the very residents in the same subdivision fronting on Thornton Road impacted by the Regional and City of Oshawa road and water services project scheduled to be undertaken in the coming months;
- And furthermore, that an Emergency Waterline be extended from Thornton E) Road and Conlin Road to the Sun Valley residents in the case that well interruptions occur resulting from the Regional and City roads and water serving work on Thornton Road; and

F) That these actions be engaged and executed with the specific objective of providing clean potable municipal water and sanitary services to the Sun Valley residents and those deemed applicable by the actions taken by Regional staff and the policy reform being undertaken through the policy review herein requested.

MOTION REFERRED BACK TO STAFF (See Following Motion)

Moved by Councillor Smith, Seconded by Councillor Barton,

(75) That the foregoing amending motion (74) of Councillors Marimpietri and John Neal be referred back to staff for a further report to address the amending motion (74) and that it be presented to the January 11, 2023 Works Committee meeting (the second Works Committee meeting of the new Council).

#### CARRIED

The main motion (73) of Councillors Marimpietri and John Neal was then put to a vote and CARRIED.

E) Approval of Capital Works and Financing to be Incorporated into a Servicing Agreement with Universal City Developments Inc., Including Cost Sharing in Accordance with the Region Share Policy, for the Extension and Oversizing of a Sanitary Sewer and the Extension of a Watermain, in the City of Pickering (2022-W-41)

Report #2022-W-41 from J. Presta, Commissioner of Works, was received.

Moved by Councillor Marimpietri, Seconded by Councillor Barton, (76) That we recommend to Council:

- A) That capital works and financing estimated at \$167,200 for the Region's share of the Universal City Developments Inc. sanitary sewer and watermain project in the City of Pickering with a total cost of \$657,500 be approved;
- B) That the Regional Municipality of Durham be authorized to enter into a Servicing Agreement with a Region Share payment to Universal City Developments Inc. estimated at \$167,200 for the Region share of the oversizing of a sanitary sewer, and watermain on Celebration Drive, located north of Bayly Street (Regional Road 22) and west of Sandy Beach Road in the City of Pickering, at an estimated total project cost of \$657,500; and
- C) That financing for the sanitary capital works, estimated at \$345,000, be provided from the following sources:

#### **Sanitary Sewer**

**Developer's Share – Sanitary Sewer** 

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Universal City Developments Inc.	<u>\$277,500</u>
Total Developer's Sanitary Sewer Share	<u>\$277,500</u>
Regional Costs – Sanitary Sewer	
2022 Sanitary Sewerage System Capital Budget Item 154: Allowance for Regional share for works in conjunction w residential subdivision development:	
Residential Development Charges (Project ID: M2210) Commercial Development Charges (Project ID: M2210) User Rate (Project ID: M2210)	\$49,815 3,105 <u>14,580</u> <u>\$67,500</u>
Total Regional Share – Sanitary Sewer	<u>\$67.500</u>
Total Sanitary Sewer	<u>\$345,000</u>
Watermain:	
<b>Developer's Share – Watermain</b> Universal City Developments Inc.	<u>\$212,800</u>
Total Developer's Watermain Share	<u>\$212,800</u>
Regional Costs – Watermain	
2022 Water Supply System Capital Budget	
Item 249 Allowance for Regional share for works in conjur residential subdivision development:	nction with
Residential Development Charges (Project ID: M2210) Commercial Development Charges (Project ID: M2210) User Rate (Project ID: M2210)	\$87,337 2,194 <u>10,169</u> <u>\$99,700</u>
Total Regional Share – Watermain	<u>\$99.700</u>
Total Watermain	<u>\$312,500</u>
Total Developer's Share	\$490,300
Total Regional Share	<u>\$167,200</u>
Total Project Financing	<u>\$657,500</u>

#### CARRIED

#### 9. Advisory Committee Resolutions

There were no advisory committee resolutions to be considered.

#### 10. Confidential Matters

There were no confidential matters to be considered.

#### 11. Other Business

#### 11.1 Service Line Warranties of Canada Inc. Program

Detailed discussion ensued regarding the Service Line Warranties of Canada Inc. Program, and the communication methods used to inform the public of the new program that came into effect July 1, 2022.

Staff responded to questions from the Committee regarding the concerns received from residents; the need for a better coordinated communications plan moving forward and the best way to ensure all residents are informed; the timing around the distribution of the communication material; and what the potential cost of service connection repairs could be for residents now that the property owner's new limit of responsibility for residential sanitary service connections is at the property boundary, which would be consistent with the responsibility for water service connection maintenance.

E. Baxter-Trahair highlighted that Report #2021-W-31: Amendment to Regional Water Pollution Control System and Storm Sewer System By- Law #90-2003 and Residential Water and Sanitary Service Connection Protection Plans was extremely detailed and was approved by Regional Council September 29, 2021. She advised that staff have met with Service Line Warranties of Canada Inc., and that there has been an internal review of the communication process and that there will be better communication moving forward. She advised that the amendment to the Regional Water Pollution Control System and Storm Sewer System By- Law #90-2003 aligns with how the Region handles its water infrastructure, and that the purchase of the insurance is completely up to the discretion of the residents.

In response to a question regarding whether the Region signed a contract with Service Warranty Canada Inc., and what the cost would be to break the contract, staff advised that there would need to be a discussion between Legal, Finance, and Works staff, the details of which could be provided to Regional Council prior to the September 14, 2022, Committee of the Whole meeting.

In response to a question regarding whether Council members would be able to be forwarded a copy of the contract with Service Line Warranties of Canada Inc.,

staff advised that they would need to confirm if that could be done with Legal staff.

# 11.2 Update on Reconstruction of Regional Road 13, between Highway 12 and Lakeridge Road in the Township of Brock

Councillor Smith requested an update regarding whether the concrete box cover drawings for this road reconstruction project were completed and if the project has gone out to tender. Staff advised that it is scheduled to go out to tender in the first quarter of 2023.

#### 11.3 Reconstruction of Provincial Highway 12

In response to a question from the Committee regarding the sporadic reconstruction of Provincial Highway 12, staff advised that they do not control the schedules of a Ministry of Transportation (MTO) project, however, will reach out to the MTO contact for details.

#### 11.4 <u>Dedicated Water Service Line for Coco Paving in the City of Oshawa</u>

Councillor Joe Neal questioned if Coco Paving in the City of Oshawa having a dedicated water service line is permissible. J. Presta advised that he would look into this matter and report back to Councillor Joe Neal directly.

#### 12. Date of Next Meeting

The next regularly scheduled Works Committee meeting will be held on Wednesday, December 7, 2022 at 9:30 AM in Council Chambers, Regional Headquarters Building, 605 Rossland Road East, Whitby.

#### 13. Adjournment

Moved by Councillor Crawford, Seconded by Councillor Barton, (77) That the meeting be adjourned.

CARRIED

The meeting adjourned at 1:01 PM

Respectfully submitted,

Regional Chair Henry, Acting Committee Chair

S. Ciani, Committee Clerk

C/o Shelagh Cauchi 434 Wickham St. Oshawa, ON

August 31th, 2022

Alexander Harras, Regional Clerk Regional Municipality of Durham 605 Rossland Road East, Whitby, Ontario L1N 6A3

To Members of Durham Regional Council

**Requests to Council:** 

- 1) Sound/Pollution Barrier (10ft minimum height) be erected on Harmony Road N. just north of Adelaide Ave. East to Copperfield Drive, Oshawa.
- 2) A study be done on:
- a) the existing noise (NPC 206 Ontario Report).
- b) the existing air quality (AQHI)
- c) compare the above with any studies done previously
- 3) Speed Board and permanent reduction to 40km: the road is now a thoroughfare from Hwy 401 to Hwy 407 and vehicles use excessive speed when traveling along the Harmony Road artery.
- 4) Sound, Air Quality Measurements in line with Ontario Provincial Standards.

Wickham St resident's health is at risk from the degradation of our environment due to the increased traffic flow resulting from the initial phase of the Harmony Rd. expansion (Harmony Rd. at Adelaide Ave. to Harmony Rd. and Rossland Rd): exacerbated by the recent four lane extension from Rossland Road to Taunton Road.

The noise and fumes have increased exponentially which has significantly impacted our lives:

- 1) Sleep deprivation is due to high-speed traffic, modified mufflers, Jbrakes, rattling transport loads, roaring and thundering all causing sleep disturbances.
- 2) Conversations in the garden are paralyzed.
- 3) Closing windows 24/7 has become the norm just to be able to think.
- 4) Pollution due to fumes, especially dump truck "exhaust snorkels" elevated above fences and directed into our properties.
- 5) The impact on our mental health cannot be overstated: lack of sleep; no clarity of communication; little garden time. Levels of agitation, depression, frustration and anxiety are increasing.
- 6) Racing vehicular behavior from Taunton Rd both north and southbound on Harmony hill late at night.

This stretch of Harmony Rd is the most convenient artery in Oshawa from Hwy 401 to Hwy 407 that affords speed, thus creating excessive further noise.

Bonus needed for businesses and builders to use 407: reduce Hwy 407 fee to US levels.

Force dump trucks off Harmony with some incentive.

These houses were built in the early 1980s and residents were proactive in the mitigation of such problems by planting trees, replacing windows etc. Residents attended an initial meeting at Eastdale Collegiate when the first phase of Harmony's four-lane expansion was proposed. Concerns regarding increasing traffic noise were shared at that time.

A petition and audio video footage of the noise heard from our houses (both inside and outside) are attached and reflect the degradation of our lives and confirm concerns by the residents.

We are aware of the latest Noise Policy. We feel confident that Council will understand the impact of one section of Harmony being no different to another. Equal consideration to mitigate the problem for Wickham St. residents would be appreciated.

We recommend reviewing:

1) SOCAAR pilot study <u>"Near Road-Air Pollution"</u> as extremely informative: <u>https://www.socaar.utoronto.ca/wp-content/uploads/2019/10/SOCAAR-Near-Road-Air-Pollution-Pilot-Study-Summary-Report-Fall-2019-web-Final.pdf</u>

2) https://www.ontario.ca/page/sound-levels-due-road-traffic-npc-206#section-3

What steps do the residents of Wickham St. need to take in order for these points to be addressed? We hope that council will guide us to a compatible resolution.

We look forward to hearing from you in a timely manner, Yours truly,

Shelagh Cauchi On behalf of Wickham Street Residents

сс

John Henry, Regional Chair Elaine Baxter-Trahair, CAO Dr. Robert Kyle, Medical Officer of Health, Health Department John Presta, P.Eng., Commissioner of Works Department Dan Carter, Mayor City of Oshawa and Member of Health Committee Bob Chapman, Regional Councillor and Chair of Health Committee Tito-Dante Marimpietri, Regional Councillor, and Member of Works Committee John Neal, Regional Councillor and Member of Works Committee Paul Gee, P.Eng., Works Department

	To be errect	ed by:	
Wickham Street owner	rs (many having bought i	in the 1980s when	Harmony Rd was just 2 lanes),
due to the expansion of	of lanes, drastic increase	in traffic, transpor	t/dump trucks using J brakes,
	es, roaring bikes and <u>exh</u>		
it is now impossible to	have a conversation in c	our backyards or sl	eep with our windows open.
			arrier was erected at Storie Ave
At the time of construc	tion why wasn't our stre	etch considered to	
	It's the same traffic!		
Name (block)	Signature	Address	Telephone/email
Shelagh Cauchi		434 Wickha	w St
ROB QUALE	-	450 wich	
Kim QUARIE	Obribal	LISO WICH	
Paul Walt	ER Paul Call	458 Wick	
Flaine Wall		458 Wickta	
RUSSAAR STENCE	Fits Star Partin	466 ···	The d
NICHOLEHILLI	PATA	44Kowick HAM	ST
KAREN HILLIER	2942 Jalos	446 Wicktham	
Colleen Tut	in Collierstution	2 442 WRK	HAM
RICHARD Schur	it Revolati	442 WKK	CHEN
Suc Rishardsp.	5 SigRechards	438 WICKHA	m
Mike Equards	MAL EUR	TPR wickba	Nr I
Bessie Thomas	op B. Thenton	414 Wickham	1 C4
ED THOMPSON	Solla	418 WICKHAM	net
Tennifer Harper	Horper	408 Wickhe	anci
Frandis Contig	a par	400 Wickhar	
ava p	AB	415 Wickha	
KEN SPENCER	Been	466 WICKHA	
IVIANA MANAY	Whoreast Men	452 Wicketta	
CHOSA ME EVON MEN.	4's Mary	426 WICKHAM	
Sharon Blech	Brech	414 Wickhai	
Darah Fenn	Sten	414 Wickha	CT CT
Sami Lamrad	251)	462 Wickham	
Malion Jes	SUT Myson	p 430 Wiek	
Ken Moran	Atali Aut.	475 WICKMAM	
Margaret Motun	a Margare Myslig	470 Wickhan 478 Wickhan	
CATHY Head	Cardy Mulle	710 WICh/1/1/	1 in the

Town of Whitby 575 Rossland Road East, Whitby, ON L1N 2M8 905.430.4300 whitby.ca



October 3, 2022

Via Email:

The Honourable Caroline Mulroney Minister of Transportation caroline.mulroney@pc.ola.org

Re: Highway 412 – Installation of Ramps and Signalization Lights

Please be advised that at its meeting held on September 26, 2022, the Council of the Town of Whitby adopted the following as Resolution # 215-22:

Whereas the traffic has increased in volume on Highway 412 since the tolls were lifted earlier this year; and,

Whereas residents report that the intersections of the on and off ramps at both Highway 7 and Highway 2 are difficult to navigate safely; and,

Whereas there is substantial growth around the Rossland Road area of Highway 412; and,

Whereas the east-west roads within our municipality are increasingly congested with all the new growth, and the usage of Highway 412 is anticipated to increase substantially.

Now therefore be it resolved:

- That the Council of the Town of Whitby requests that the Province of Ontario install entrance and exit ramps at Rossland Road on Highway 412, as well as provide for signalization lights at the intersections of the on and off ramps to provincial highways 2 and 7; and,
- 2. That this request of Council be copied to the MTO, AMO, Region of Durham and all Durham MPPs and MPs.

Should you require further information, please do not hesitate to the Office of the Town Clerk at 905.430.4315.

hris Harris Town Clerk

#### Copy: C. Harris, Town Clerk

Association of Municipalities of Ontario – amo@amo.on.ca Erin O'Toole, MP, Durham <u>- Erin.OToole@parl.gc.ca</u> Ryan Turnbull, MP, Whitby - <u>Ryan.Turnbull@parl.gc.ca</u> Colin Carrie, MP, Oshawa - <u>colin.carrie@parl.gc.ca</u> Jennifer O'Connell, MP, Pickering-Uxbridge - <u>Jennifer.OConnell@parl.gc.ca</u> Jamie Schmale, MP, Haliburton-Kawartha Lakes-Brock -<u>Jamie.Schmale@parl.gc.ca</u> Mark Holland, MP, Ajax - <u>Mark.Holland@parl.gc.ca</u> Lorne Coe, MPP, Whitby - <u>lorne.coe@pc.ola.org</u> Todd J. McCarthy, MPP, Durham - <u>Todd.McCarthy@pc.ola.org</u> Jennifer K. French, MPP, Oshawa - <u>Jennifer.OConnell@parl.gc.ca</u> Peter Bethlenfalvy, MPP, Pickering-Uxbridge - <u>peter.bethlenfalvy@pc.ola.org</u> Laurie Scott, MPP, Haliburton-Kawartha Lakes-Brock - <u>laurie.scott@pc.ola.org</u> If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540.



# The Regional Municipality of Durham Report

To:	Works Committee
From:	Commissioner of Works
Report:	#2022-W-42
Date:	December 7, 2022

#### Subject:

Works Department – 2023 Water Supply and Sanitary Sewerage Systems Business Plans and Budgets

#### **Recommendation:**

That the Works Committee recommends to the Finance and Administration Committee for subsequent recommendation to Regional Council that the Works Department's portion of the 2023 Water Supply System and Sanitary Sewerage System Business Plans and Budgets be approved.

#### **Report:**

#### 1. Purpose

1.1 The purpose of this report is to obtain Works Committee concurrence of the 2023 Business Plans and Budgets for the Works Department's portion of the Water Supply System and Sanitary Sewerage System. The Works Department's 2023 Business Plans and Budgets will be referred to the Finance and Administration Committee for consideration during deliberations of the 2023 Consolidated Business Plans and Budgets for the Water Supply and the Sanitary Sewerage Systems.

#### 2. Overview

- 2.1 The Works Department's portion of the 2023 Water Supply System and Sanitary Sewerage System Business Plans and Budgets supports and advances the goals of the Regional Municipality of Durham's (Region) Strategic Plan, namely:
  - Goal 1: Environmental Sustainability
  - Goal 2: Community Vitality
  - Goal 3: Economic Prosperity
  - Goal 4: Social Investment
  - Goal 5: Service Excellence
- 2.2 The recommended Works Department's portion of the 2023 Water Supply System and Sanitary Sewerage System Business Plans and Budget includes \$453.76 million in gross expenditures (Water Supply System \$200.82 million and Sanitary Sewerage System \$252.94 million) requiring \$206.34 million in user rate revenue (\$105.58 million Water Supply System and \$100.76 million Sanitary Sewerage System) with the remaining funded by program fees, development charges, recovery from the Regional Municipality of York, debt financing, and reserve and reserve funds.
- 2.3 The recommended Works Department's portion of the 2023 Water Supply System and Sanitary Sewerage System Business Plans and Budgets provides operating and capital funding for the following items:

#### Water Supply:

- Maintenance Operations
  - (a) Watermain Cleaning and Repairs
  - (b) Valve and Hydrant Maintenance
  - (c) Water Connection Maintenance
  - (d) Water Meter Repair and Testing
  - (e) Depot Operations
- Water Supply Plant Operations
  - (a) Plants East
  - (b) Plants Central
  - (c) Plants North

- (d) Sun Valley Private Water System
- (e) Supervisory Control and Data Acquisition (SCADA) Systems
- Engineering and Staff Support
- Facilities Management
- Administration
- Water Supply System portion of Headquarters Shared Costs
- Construction of Municipal Services

#### Sanitary Sewerage:

- Maintenance Operations
  - (a) Sewer Cleaning, Repairs and Maintenance
  - (b) Sewer Connection Maintenance
  - (c) Depot Operations
- Water Pollution Control Plant Operations
  - (a) Plants and Pumping Stations
  - (b) Duffin Creek Water Pollution Control Plant
- Regional Environmental Laboratory
- Engineering and Staff Support
- Facilities Management
- Administration
- Sanitary Sewerage portion of Headquarters Shared Costs
- Construction of Municipal Services

#### 3. **Previous Reports and Decisions**

3.1 Report #2021-W-51, approved by Regional Council on December 22, 2021, approved the Works Department's 2022 Water Supply and Sanitary Sewerage Business Plans and Budgets.

#### 4. 2022 Accomplishments

4.1 Regional water supply and sanitary sewerage systems continue to provide safe drinking water and protect the water environment. Quality and environmental

management systems support and integrate operations to meet regulatory performance requirements. The following metrics provide a demonstration of the system performance objectives in 2022:

- No Boil Water Advisory days.
- 99.8 per cent compliance of drinking water test results.
- No unplanned sanitary sewage by-pass events.
- 100 per cent compliance of wastewater effluent results to protect water environment.
- 4.2 The capital water supply and sanitary sewerage programs support the Region's Strategic Plan goals. The following highlights the detailed design and construction of some of the major projects which commenced in 2022:
  - 23 water supply and sanitary sewerage projects.
  - Twinning of the Liverpool Road forcemain, Pickering construction has commenced with a completion target of August 2023.
  - Whitby Water Supply Plant industrial raw water pumping station, outfall works and chlorination lines replacement, Whitby commence work order to be issued in December 2022 with completion target October 2024.
  - Courtice Trunk Sanitary Sewer and Watermain on Baseline Road from Courtice Road to Trulls Road and Trulls Road from Baseline Road to Bloor Street, the project includes the reconstruction Baseline Road from Courtice Road to Trulls Road, Courtice – construction has commenced with completion target December 2023.
  - Watermain and sanitary sewer replacement on Balsam Street from Old Simcoe Road to Rosa Street, Scugog construction to commence Spring 2023 with completion target July 2023.
  - Cannington Water Supply System new well and pumphouse with standby power, Brock construction has commenced with completion target November 2023.
- 4.3 The multi-year modernization of data management continues with water supply and sanitary sewerage operational areas with a focus on municipal well systems and wastewater solids management.
- 4.4 The Enterprise Maintenance Management System (EMMS) has been fully implemented. Plant and maintenance operations are now utilizing this

comprehensive work management system to manage activities, capture life cycle cost data and provide real time maintenance information.

4.5 Works staff, in conjunction with Utility Finance, initiated a three-year project in 2022 to retrofit existing water meters with radio frequency remote reading devices (RF) to eliminate manual meter readings. The total estimated cost of this initiative over a three-year period is \$10.0 million funded from the Water Rate Stabilization Reserve Fund and is included in the Utility Finance portion of the Consolidated Water Supply and Sanitary Sewerage Business Plans and Budget. This is a significant enhancement from a customer service perspective and has been much anticipated as the follow up step to the MyDurhamWater project.

#### 5. 2023 Priorities and Highlights

- 5.1 To maintain sustainable and compliant water supply and sanitary sewerage systems, the 2023 capital program includes items with a total estimated project value for implementation of approximately \$288.24 million such as:
  - Planning, detailed design and construction of 5.3 kilometres (km) of linear pipe and four vertical facilities as identified within the Asset Management Plan.
  - Planning, detailed design and construction of several Water Supply facilities and Sanitary Sewerage vertical assets, including the expansion of the Whitby Water Supply Plant, Lake Simcoe and Duffin Creek Water Pollution Plant, and Liberty Street Zone 1 Reservoir and pumping station.
  - Planning, detailed design and construction of 15.1 km of linear pipe in coordination with Regional and Municipal Road Programs and 3.7 km of independent watermain projects.
  - Phases 3 and 4 regulatory works to be tendered related to Technical Standards and Safety Authority (TSSA) fuel tank replacement/upgrades.
  - Planning, detailed design and property acquisition for Depot expansion and modernization projects as recommended by the Depot Rationalization study.
- 5.2 A total of 7.389 new full-time equivalent employees (FTEs) are proposed in 2023. These positions represent new permanent resources to support the delivery of capital projects and operating activities. The cost of some of these positions is allocated at varying levels to capital projects or maintenance activities:
  - Emergency Management Coordinator Compliance 0.500 FTE (costs are shared with Water Supply, Sanitary Sewerage,

Works General Tax and Waste)

- Inspector 3 Capital Construction Construction 0.642 FTE (costs are shared with Water Supply and Sanitary Sewerage and Works General Tax)
- Supervisor Maintenance Operations (Water Supply) 1.000 FTE
- Supervisor Facilities Design, Construction and Asset Management 0.657 FTE (costs are shared with Water Supply, Sanitary Sewerage, Works General Tax and Waste Management)
- Junior Project Engineer Environmental Services Design 2.000 FTE (costs are shared with Water Supply and Sanitary Sewerage)
- Works Technician 2 Environmental Services Design (costs are shared with Water Supply and Sanitary Sewerage)
   1.000 FTE
- Works Technician 5 Environmental Services Design 1.000 FTE (costs are shared with Water Supply and Sanitary Sewerage)
- Business Analyst Systems, Policies, Process
   0.590 FTE (costs are shared with Water Supply, Sanitary Sewerage and Works General Tax)

#### 6. 2023 Risks and Uncertainties

- 6.1 Areas of potential risks that could impact the operating and capital budgets of the Works Department include:
  - Increasing costs of operations due to unprecedented inflation on materials and supplies critical for service provision and capital project delivery.
  - Ongoing supply chain and labour challenges.
  - Changes in local market demands for engineering and construction services can impact industry capacity for infrastructure projects.
  - Increasing legislative requirements from provincial and federal approval agencies.
  - Uncertainty surrounding the level and availability of revenues from Development Charges.
  - Revenue/Funding pressures (e.g., provincial/federal infrastructure programs which require matching Regional investment).
  - Debt carrying costs as a result of the current volatile debt markets and impacts of Federal monetary policies.

- Operating Pressures, such as:
  - Growth across the Region, which includes development of several new communities in Seaton, West Whitby, North Oshawa, Bowmanville and Newcastle Village, will increase the demand for services to support residents and businesses as well as the operational and maintenance requirements for Regional infrastructure;
  - (b) Ensuring sufficient staff resources to deliver a growing capital program to avoid impacts to the delivery schedules of projects or delays in response times for reactive maintenance activities; and
  - (c) Changing and unpredictable weather patterns impact treatment operations as well as preventative and reactive maintenance activities for the Regional Water Supply and Sanitary Sewerage linear infrastructure network.

#### 7. Future Budget Pressures

7.1 Items proposed in the 2023 Works Department Water Supply System and Sanitary Sewerage System Budgets will result in impacts to the 2024 budget, including:

Annualization of new positions proposed in 2023

•	Water Supply	\$308,463
•	Sanitary Sewerage	\$215,899

- 7.2 Looking forward over the next four years, the following significant budget pressures include:
  - Infrastructure requirements to address Regional growth.
  - Increased demands for infrastructure maintenance.
  - Operating costs related to major facility and system expansions including:
    - a) Whitby, Ajax and Bowmanville Water Supply Plant expansions;
    - b) Zone 1 Feedermain from Highway 2 to Liberty Reservoir in Clarington;
    - c) Zone 4 Reservoir and Water Pumping Station in Whitby;
    - d) Thickson Road Zone 3 Water Pumping Station expansion in Whitby;
    - e) New Sunderland Well and Pumphouse with Standby Power in Brock;
    - f) Zone 4 Reservoir and Water Pumping Station in Oshawa;

- g) Bowmanville Zone 1 Reservoir and Water Pumping Station in Clarington;
- h) Newcastle Water Pollution Control Plant and Sanitary Sewage Pumping Station;
- i) Corbett Creek, Lake Simcoe and Courtice Water Pollution Control Plan expansions;
- j) New Well and Treatment System in Port Perry;
- k) New Water Pollution Control Plants in Sunderland and Cannington; and
- I) York Durham Sewage System primary trunk twinning in Pickering.
- The Region has been collecting development charges to help finance the growth portion of these large infrastructure expansion projects. It is projected that these reserve funds will be drawn down significantly over the next five years. Additional information on the Consolidated 2023 Capital Budget and Nine-Year Forecast for Water Supply and Sanitary, including financing plan will be included in Report 2022-F-22 being presented to Finance and Administration Committee at their December 13, 2022, meeting.
- Ongoing asset management and infrastructure maintenance requirements.
- Refurbishment of existing Water Supply and Water Pollution Control Plants.
- Expansion and modernization of Maintenance Operations Depots.
- Implementation of the recommendations from the Integrated Resource Recovery Studies for Water Pollution Control Plants, including ongoing exploration of district heating and cooling opportunities.
- Continued review of district heating opportunities utilizing sanitary sewerage infrastructure.
- Maintenance and replacement of building elements such as roofing, envelope, HVAC systems, windows, etc. with enhancements to reduce energy consumption and carbon emissions.
- Legislative and Regulatory Requirements:
  - (a) Bill 23-Supporting Growth and Housing in York and Durham Regions Act, 2022 suddenly received Royal Assent on November 28<sup>th</sup> in the Provincial Legislature. This legislation will impact the amount of development charges available to fund new and expanded infrastructure to service growth. Without development

charges this infrastructure will need to be funded from user rates. The provincial direction to develop 1.5 million homes in an expediated manner and allowing the development of Greenbelt lands with restricted timelines will be another development pressure competing for Regional infrastructure funds. Staff will be working on the financial impacts on future Regional budgets through the update to the Region's Development Charges Background Study and specific Bill 23 impact reports in early 2023. A thorough review of the proposed legislation details is not available in time for this report approval so impacts will be primarily accommodated beginning in the 2024 Business Plans and Budgets.

- (b) Schedule 10 within Bill 23 provides the provincial direction for the wastewater servicing for the Upper York Sewage Solution which includes the Lake Ontario option of conveying wastewater south to the York Durham Sewage System. A detailed review of the proposed servicing option will need to be conducted in consultation with Region of York to determine infrastructure planning impacts.
- (c) Perfluoroalkyl (PFAS) substances are an emerging regulatory issue in Canada and the United States of America. The sources of PFAS substances can originate from fire-fighting foams, consumer products, packaging, landfills and industrial processes. The regulatory requirements for drinking water are developing and emerging as there is limited data on the substances. There is currently considerable variation in the magnitude of guidelines between regulatory agencies.
- (d) Potential impacts to the Region's SCADA system, including proposed changes to Industry Canada regulations related to radio communications, and continuing review of potential adjustments to the radio frequencies that the Region currently uses for the SCADA communications as proposed by the Innovation, Science and Economic Development Canada (ISED) - Spectrum Management and Telecommunications. The proposed adjustments will require modification to the Region's Wide Area Network base to a new frequency, involving significant changes to equipment at Regional facilities.

#### 8. Conclusion

- 8.1 The recommended Works Department's portion of the 2023 Water Supply System and Sanitary Sewerage System Business Plans and Budgets can be financed from the proposed combined water and sanitary sewer user rate increase as detailed in Report #2022-F-23 – Recommended 2023 Water and Sanitary Sewer User Rates.
- 8.2 It is recommended that the Works Committee approve the Works Department's portion of the 2023 Water Supply System and Sanitary Sewerage System Business Plans and Budgets and forward this report to the Finance and Administration Committee for consideration during the budget deliberations of the 2023 Consolidated Business Plans and Budgets for the Water Supply System and the Sanitary Sewerage System.
- 8.3 This report has been reviewed by the Finance Department and the Commissioner of Finance concurs with the recommendation.
- 8.4 For additional information, contact: Jenni Demanuele, Director, Corporate Infrastructure and Strategic Business Services, at 905-668-7711, extension 3456.

#### 9. Attachments

9.1 Detailed 2023 Business Plans and Budgets for the Works Water Supply and Sanitary Sewerage Systems.

Respectfully submitted,

#### Original signed by:

John Presta, P.Eng., MPA Commissioner of Works

Recommended for presentation to Committee.

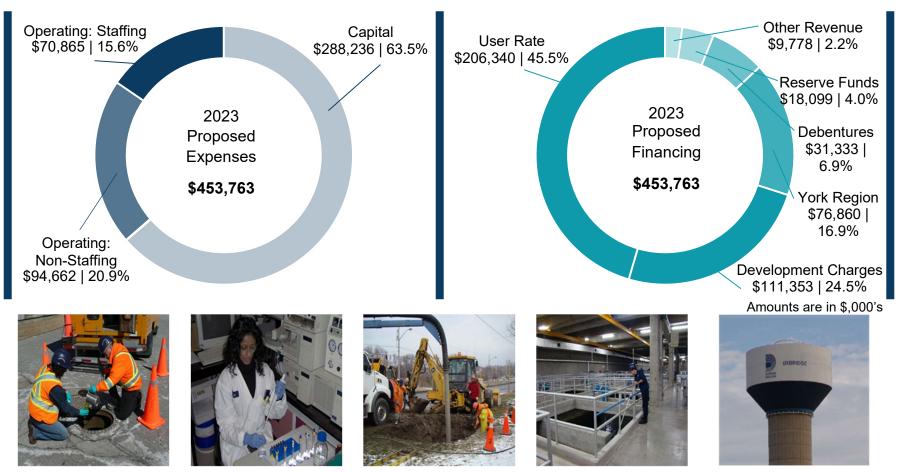
#### Original signed by:

Elaine C. Baxter-Trahair Chief Administrative Officer



# **WORKS DEPARTMENT** WATER SUPPLY & SANITARY SEWERAGE

Plans, designs, constructs, operates, and maintains Regional infrastructure related to the supply of drinking water and the protection of the water environment through the collection and treatment of sanitary sewage.



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Major Programs and Services **Strategic Priorities** Key Targets for 2023 Financial Details: Summary by Account Summary by Program Summary of Capital Details of Budget Changes Staffing Details Looking Forward Appendix A: 2023 Water Supply System Capital Projects Appendix B: 2023 – 2032 Water Supply System Capital Forecast Appendix C: 2023 Sanitary Sewerage System Capital Projects Appendix D: 2023 - 2032 Sanitary Sewerage System Capital Forecast

# **Major Programs and Services**

#### Water Supply System

#### Watermain Cleaning and Repairs

Maintain and operate the Region's water distribution system by flushing watermains, cleaning through foam swabbing, repairing breaks, administering leak detection surveys, and preventing corrosion of infrastructure through cathodic protection.

#### Valves and Hydrants

Maintain the Region's water valves and hydrants ensuring all are in good working condition.

#### Water Connections

Maintain the Region's water connection inventory to provide potable water for domestic use and fire protection.

#### Water Meter Repairs and Testing

Maintain the Region's water meter inventory to accurately measure the consumption of water by replacing meters based on age. Other work includes the calibration, testing, repair, and replacement of large meters as required.

#### **Depot Operations**

Support the delivery of water infrastructure maintenance activities including watermain repairs, valve and hydrant operations and water meter repair, calibration, and replacement.

#### Water Supply Plants – Plants East

Serve Bowmanville, Newcastle, Orono and Blackstock (comprised of two surface water plants, six storage facilities, three municipal groundwater wells and three water pumping stations) by providing potable water which meets all quality requirements prescribed by the Ministry of the Environment, Conservation and Parks' (MECP) legislation and regulations, accomplished through continuous monitoring of water quality and flows.

#### Water Supply Plants – Plants Central

Serve Pickering, Ajax, Whitby, Oshawa and Courtice (Clarington) (comprised of three surface water plants, 13 water pumping stations and 11 storage facilities) by providing safe, potable water which meets all quality requirements prescribed by the MECP's legislation and regulations, accomplished through continuous monitoring of water quality and flows.

#### Water Supply Plants – Plants North

Serve the Townships of Brock, Scugog and Uxbridge (comprised of one surface water plant, 20 municipal groundwater wells, seven storage facilities and one water pumping station) by providing safe, potable water which meets all quality requirements prescribed by the MECP's legislation and regulations, accomplished through continuous monitoring of water quality and flows.

## Major Programs and Services Continued

#### Sun Valley Co-Operative Water System

A private water system operated by the Region on behalf of the Sun Valley Co-operative comprised of 17 properties in the City of Oshawa to supply safe, potable water which meets all quality requirements prescribed by MECP's legislation and regulations accomplished through continuous monitoring of water quality and flows.

#### **SCADA Systems**

The centralized SCADA (Supervisory Control and Data Acquisition) Systems Group based at the Oshawa Water Supply Plant monitors, gathers and processes real time data to control plant processes, directly interacting with sensors, valves, pumps, and motors while logging events for regulatory reporting requirements.

#### **Engineering and Staff Support**

Support the delivery of capital projects and initiatives through planning, design and construction activities, including advancing the servicing of key Regional employment lands, providing real estate services for infrastructure projects including well head protection land acquisitions, maintaining linear infrastructure data within GIS systems, coordinating development applications with impacts to Regional services, providing technical support including water conservation programming, energy management guidance, oversight to the Region's Source Water Protection programs and supplying financial and administrative support services to all divisions within the Works Department.

#### **Facilities Management**

Provide overall lifecycle management of all Regional facilities. Services include the design and construction of Regional facilities, delivery of major repair and renovation projects, lifecycle maintenance and replacement strategies, delivering corporate security services, and the ongoing and preventative maintenance and overall operation of Regional facilities, properties, and grounds.

#### Administration

Provide the overall strategic planning and direction to all programs within the Works Department.

#### Headquarters Shared Costs – Works - Water Supply System Portion

The allocated share of costs attributable to the Works Department – Water Supply System for the operation of Regional Headquarters facility.

#### **Construction of Municipal Services**

Plan, design, and construction of the water supply system major capital program.

# Major Programs and Services Continued

#### Sanitary Sewerage System

#### **Cleaning, Repairs and Maintenance Holes**

Maintain and operate the Region's sanitary sewerage collection system efficiently and effectively, undertaking spot repairs of damaged sanitary sewers, and scheduled cleaning of sanitary sewers and syphons.

#### **Sewer Connections**

Maintain the Region's sanitary sewer connection inventory efficiently and effectively, safeguarding the public and environment from any public health hazards and ensuring continuity of service.

#### **Depot Operations**

Support the delivery of sanitary sewerage infrastructure maintenance activities which include the maintenance, cleaning and repairs of sanitary sewers, maintenance holes and sewer connections.

#### Water Pollution Control Plants and Pumping Stations

The water pollution control plants and sanitary sewerage pumping stations treat and convey sanitary sewerage, ensuring it meets the discharge requirements prescribed by the MECP. The system is comprised of 11 treatment plants and 51 pumping stations spread across the Region.

#### **Duffin Creek Water Pollution Control Plant**

Operation of the plant, co-owned by the Regions of Durham and York, to treat sanitary sewage, ensuring it meets the discharge requirements prescribed by the MECP. The Duffin Creek Water Pollution Control Plant is one the largest water pollution control plants in Ontario.

#### **Regional Environmental Laboratory**

Operation of a certified laboratory, co-owned by the Regions of Durham and York, which provides testing services for water and wastewater monitoring for the Regions of Durham and York, local municipalities, and private clients. Services are provided in accordance with the MECP License and laboratory accreditation for drinking water and wastewater requirements.

#### **Engineering and Staff Support**

Support the delivery of capital projects and initiatives through planning, design and construction activities, including advancing the servicing of key Regional employment lands, providing real estate services for infrastructure projects including well head protection land acquisitions, maintaining linear infrastructure data within GIS systems, coordinating development applications with impacts to Regional services, providing technical support including water conservation programming, energy management guidance, oversight to the Region's Source Water Protection programs and supplying financial and administrative support services to all divisions within the Works Department.

## Major Programs and Services Continued

#### **Facilities Management**

Provide overall lifecycle management of all Regional facilities. Services include the design and construction of Regional facilities, delivery of major repair and renovation projects, lifecycle maintenance and replacement strategies, delivering corporate security services, and the ongoing and preventative maintenance and overall operation of Regional facilities, properties, and grounds.

#### Administration

The overall strategic planning and direction to all programs within the Works Department.

#### Headquarters Shared Costs – Works - Sanitary Sewerage System Portion

The allocated share of costs attributable to Works Department – Sanitary Sewerage System for the operation of Regional Headquarters facility.

#### **Construction of Municipal Services**

Plan, design, and construction of the sanitary sewerage system major capital program.

# **Strategic Priorities**

For 2023 some of the key priorities and planned actions focus on:

### Environmental Sustainability



Accelerate the adoption of green technologies and clean energy solutions through strategic partnerships and investment with internal and external partners and academic institutions. In 2023, work towards the implementation of an Energy Data Management Platform will continue, providing consolidated energy data for analysis and project planning.



Protect, preserve, and restore the natural environment including greenspaces, waterways, parks, trails, and farmlands by planning and implementing critical sanitary sewerage infrastructure identified through asset management planning.



Demonstrate leadership in sustainability and climate change action by mitigating the environmental impacts of projects and incorporating strategies in the construction and rehabilitation of Regional infrastructure and facilities by incorporating climate-friendly strategies.



Continued progress on a comprehensive water and wastewater GHG emissions management strategy including an assessment of the overall heat recovery potential from the Region's wastewater system. This study will inform on areas of the system which may yield the greatest degree of energy exchange potential, both for private sector participants wishing to utilize wastewater energy to displace traditional fossil fuel energy requirements for their respective developments, as well as for potential Regional opportunities.

### **Community Vitality**



Review and expand system capacity to facilitate balanced growth to provide an adequate mix of attainable housing for residents at all ages and stages of life. Through revitalized infrastructure, the Region will ensure traditional neighbourhoods remain great places to live and work, and build complete communities that are walkable, well-connected, and adequately served by nearby amenities.



Revitalize existing neighbourhoods and build complete communities that are walkable, well-connected, and have a mix of attainable housing through monitoring and assessing excess capacity available in existing sanitary sewer and water distribution systems.

# **Strategic Priorities** *Continued*

#### Economic Prosperity



Streamlining review and payment processes; planning for growth; and positioning Durham Region as the location of choice for business by servicing strategic employment lands. Detailed design work overseen by the Region is ongoing for 3 projects identified in Report #2020-COW-23 - Regional Pre-servicing of Designated Employment Areas. Class EA work commenced for 2 projects in 2022, and 3 projects are being led by developers and are at various stages of design.



Provide a supportive environment for agriculture and agri-food industries by maintaining beneficial re-use of treated municipal wastewater solids (biosolids) on agricultural lands; and working collaboratively with industry to promote growth while maintaining a sewer-use program. In 2022, the Region and Durham College partnered to create a temporary urban farm on a future water supply infrastructure site. Construction of the farm will be completed in 2023 and cultivation will begin on site.

#### Service Excellence



Optimize resources and partnerships to deliver exceptional quality services and value by continuing a "customer first" focus. To expedite ON1Call locate requests, additional resources are being proposed in the 2023 budget to address the demands for service resulting from increasing development activity across the Region.



Collaborate for a seamless service experience by seeking new partnerships with local municipalities. As part of the water meter renewal program, radio frequency remote meter reading technology is being installed to minimize manual meter readings.



Demonstrate commitment to continuous quality improvement and transparency through public engagement on all major public works initiatives in real time. Consultation for the Environmental Assessment to expand the sanitary sewerage capacity in Cannington will wrap up in 2023, with the commencement of detailed design to follow.

# **Strategic Priorities** *Continued*



Drive innovation through the continued evolution of the Region's Enterprise Maintenance Management System to increase efficiency in maintenance operations while collecting accurate and timely life cycle costs for analysis and planning; ongoing modernization of the review and approval of development engineering submissions through the PlanIT platform to expedite application reviews while ensuring requirements are met; and ongoing data management modernization and automation within the water supply and water pollution control plants to streamline reporting and increase operational efficiency.



Implement the recommendations of the Depot Modernization and Rationalization Study. The study's purpose was to assess the current depot network and recommend the most effective and efficient means of operation and site utilization strategies in response to the immediate, medium, and long-term needs of the Works Depots to meet growth across the Region. The implementation work will commence with the expansion of the Ajax Depot at its current location, and the relocation of the Oshawa/Whitby Depot, and will include energy efficient, low carbon measures while modernizing the function and layout of this critical infrastructure.

# Key Targets for 2023

#### Water Supply System

- Maintain and operate 2,669 kilometres of watermains 1.3% system growth over 2022
- Maintain and operate 29,232 valves 1.5% growth over 2022
- Inspect and maintain 17,288 fire hydrants 1.5% increase over 2022 inventory
- Maintain 186,359 water supply connections 1.1% system growth over 2022
- Treat 68,866 megalitres of water 0.7% increase over projections for 2022

#### Sanitary Sewerage System

- 2,323 kilometres of gravity, forcemains, and siphons of sanitary sewer maintained and operated 1.2% system growth over 2022
- 182,623 sanitary sewer connections maintained 1.1% system growth over 2022
- Treat a total of 174,543 megalitres of sanitary sewerage, a 1.2% increase from 2022, with 124,754 megalitres flowing through Duffin Creek Water Pollution Control Plant
- Analyze 60,000 samples for 200,000 tests at the Regional Environmental Laboratory consistent with 2022 volumes

Durham 800	2022 Estimated Actuals	2022 Restated Budget	2023 Proposed Budget	Variano	
Budget				\$	%
penses					
erating Expenses					
Personnel Expenses	61,840	67,870	70,865		
Personnel Related	1,877	2,193	2,269		
Communications	1,086	1,093	1,130		
Supplies	7,622	8,041	7,699		
Utilities	20,158	20,155	23,503		
Chemicals	10,285	8,747	14,549		
Computer Maintenance & Operations	967	901	877		
Materials & Services	11,154	8,538	8,802		
Buildings & Grounds Operations	5,162	4,822	4,923		
Equipment Maintenance & Repairs	3,574	3,762	3,814		
Vehicle Operations	3,895	4,177	4,027		
Professional Services	1,841	2,240	2,197		
Contracted Services	4,252	4,274	4,773		
Leased Facilities Expenses	60	43	43		
Financial Expenses	2,901	2,887	3,133		
Property Taxes	5,263	5,341	5,415		
Minor Assets & Equipment	353	441	192		
Major Repairs & Renovations	656	788	920		
Contribution to Reserves / Reserve Funds	264	264	275		
Headquarters Shared Costs	2,306	2,306	2,406		
erating Expenses Subtotal	145,516	148,883	161,812	12,929	8

### Financial Details: Summary by Account (\$,000's)

Provides the gross expenditures and revenues - including both operating and capital - and the resulting net user rate requirement

🔊 Durham 🛛 🕄	2022 Estimated Actuals	2022 Restated Budget	2023 Proposed Budget	Varian	се
Durham 800	2022 Estimated Actuals	2022 Restated Budget	2023 Proposed Budget	\$	%
Internal Transfers & Recoveries					
NextGen Fees	46	46	45		
Communications Charge	362	362	365		
Corporate IT Charge	321	321	358		
Corporate HR Charge	160	160	160		
Works - General Administration Charge	3,138	3,138	3,261		
Recovery - Ajax WSP - Labour	(4)	(4)	(43)		
Recovery - Works - General Tax	(338)	(338)	(338)		
Recovery - Regional Environmental Lab	(93)	(93)	(93)		
Internal Transfers & Recoveries Subtotal	3,592	3,592	3,715	123	3.4%
Gross Operating Expenses	149,108	152,475	165,527	13,052	8.6%
Capital Expenses					
New	3,111	3,111	33,950		
Replacement	9,184	9,184	7,098		
Major Capital	258,764	258,764	247,188		
Capital Expenses Subtotal	271,059	271,059	288,236	17,177	6.3%
Total Expenses	420,167	423,534	453,763	30,229	7.1%
Revenues and Financing					
Operating Revenue					
Fees & Service Charges	(6,810)	(6,053)	(6,875)		
Sale of Publications	(10)	(19)	(16)		
Rents	(29)	(48)	(49)		
Sundry Revenue	(1,203)	(1,274)	(1,176)		
Revenue from Municipalities	(31,734)	(31,445)	(37,825)		
Revenue from Related Entities	(6)	(6)	(6)		
Operating Revenue Subtotal	(39,792)	(38,845)	(45,947)	(7,102)	(18.3%)

Durham budgetSet2022 Estimated Actuals2022 Restated Budgetapital FinancingSewer Residential DC(25,703)(25,703)Sewer Commercial DC(2,341)(2,344)Sewer Industrial DC(192)(192)Water Residential DC(63,793)(663,793)Water Commercial DC(2,420)(2,422)Water Industrial DC(1,607)(1,607)Servicing Employment Lands Water RF(684)(688)Servicing Employment Lands Sewer RF(509)(502)Sewer Asset Management RF(9,275)(9,275)Water Asset Management RF(5,623)(5,622)Recovery from York(63,388)(63,388)Federal Grant(93)(193)Recovery from Reserve Funds - Capital(797)(752)Sewer Rate Stabilization Reserve Fund(2,549)(2,549)Debentures	2023 Proposed Budget		се
Sewer Residential DC(25,703)(25,703)Sewer Commercial DC(2,341)(2,341)Sewer Industrial DC(192)(192)Water Residential DC(63,793)(63,793)Water Commercial DC(2,420)(2,420)Water Industrial DC(1,607)(1,607)Servicing Employment Lands Water RF(684)(68Servicing Employment Lands Sewer RF(509)(50Sewer Asset Management RF(9,275)(9,275)Water Asset Management RF(5,623)(5,623)Recovery from York(63,388)(63,388)Federal Grant(93)(9Recovery from Reserve Funds - Capital(797)(79Sewer Rate Stabilization Reserve Fund(2,549)(2,549)Debentures		\$	%
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Water Commercial DC(0,100)(0,100)Water Industrial DC(2,420)(2,420)Water Industrial DC(1,607)(1,607)Servicing Employment Lands Water RF(684)(68Servicing Employment Lands Sewer RF(509)(50Sewer Asset Management RF(9,275)(9,27Water Asset Management RF(5,623)(5,62Recovery from York(63,388)(63,38Federal Grant(93)(9Recovery from Reserve Funds - Capital(797)(79Sewer Rate Stabilization Reserve Fund(9,826)(9,826)Water Rate Stabilization Reserve Fund(2,549)(2,549)Debentures	) (1,874)		
Water Industrial DC(1,607)(1,607)Servicing Employment Lands Water RF(684)(68Servicing Employment Lands Sewer RF(509)(50Sewer Asset Management RF(9,275)(9,27Water Asset Management RF(5,623)(5,62Recovery from York(63,388)(63,388)Federal Grant(93)(9Recovery from Reserve Funds - Capital(797)(79Sewer Rate Stabilization Reserve Fund(9,826)(9,826)Water Rate Stabilization Reserve Fund(2,549)(2,549)Debentures	) (68,205)		
Servicing Employment Lands Water RF(684)(68Servicing Employment Lands Sewer RF(509)(50Sewer Asset Management RF(9,275)(9,275)Water Asset Management RF(5,623)(5,623)Recovery from York(63,388)(63,388)Federal Grant(93)(9Recovery from Reserve Funds - Capital(797)(79Sewer Rate Stabilization Reserve Fund(9,826)(9,826)Water Rate Stabilization Reserve Fund(2,549)(2,549)	, , ,		
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Water Asset Management RF(5,623)(5,623)Recovery from York(63,388)(63,388)Federal Grant(93)(9Recovery from Reserve Funds - Capital(797)(79Sewer Rate Stabilization Reserve Fund(9,826)(9,826)Water Rate Stabilization Reserve Fund(2,549)(2,549)Debentures	,		
Federal Grant(93)Recovery from Reserve Funds - Capital(797)Sewer Rate Stabilization Reserve Fund(9,826)Water Rate Stabilization Reserve Fund(2,549)Debentures-	, , , , , , , , , , , , , , , , , , , ,		
Recovery from Reserve Funds - Capital(797)(79Sewer Rate Stabilization Reserve Fund(9,826)(9,826)Water Rate Stabilization Reserve Fund(2,549)(2,549)Debentures	) (40,691)		
Sewer Rate Stabilization Reserve Fund(9,826)(9,827)Water Rate Stabilization Reserve Fund(2,549)(2,549)Debentures	) -		
Water Rate Stabilization Reserve Fund       (2,549)       (2,54         Debentures       -       -	) (475)		
Debentures	) (442)		
	) (311)		
	(31,333)		
bital Financing Subtotal (188,800) (188,79	) (201,476)	(12,677)	(6.
al Revenues and Financing (228,592) (227,64	) (247,423)	(19,779)	(8.

## Financial Details: Summary by Program (\$,000's)

Provides the total operating expense, capital expense, subsidy, other revenue and the resulting user rate requirement for each major program and service

Durham         Solution         2022         Approval         2023 Proposed Budgets         2023 Proposed Budgets         2023 Proposed Budgets         Subolity         Variance           Works Department - Water Supply System         3.812         3.645         -         -         3.545         3.481         -         -         3.481         -         -         8.838         2.202         (112)           Values and Hydrants         2.201         3.265         -         -         (647)         4.202         3.128         -         -         6.838         2.200         (112)           Water Connections         4.228         4.725         -         -         (497)         4.202         3.128         -         -         (138)         4.405         -         -         (138)         4.405         -         -         (138)         4.405         -         -         (138)         4.405         -         -         (148)         8.303         1.888         100         -         (148)         8.303         1.888         101         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -<	🔊 Durham 🛛 🕄	2022			Approved E					Proposed B			Variar	nce
Works Department - Water Supply System         I         Watermain Cleaning and Repairs         3.812         3.545         -         -         3.643         2.402         3.181         -         -         3.841         (64)           2         Valves and Hydrants         2.261         3.255         -         (683)         2.400         3.128         -         (638)         2.200         (132)           3         Water Connections         4.228         4.725         -         (1497)         4.228         4.405         -         (130)         3.865         (333)           4         Water Meter Repairs and Testing         6.17         594         -         -         (133)         449         10         -         (148)         8.303         1.885           5         Depot Operations         6.008         6.220         3.011         30         -         (30)         3.488         110         -         (140)         3.468         1010         -         (30)         3.285         2275         5         9         Sun Valley Co-Operative Water System         -         -         -         -         -         -         -         -         -         -         -         -         -	Budaet							· · ·		·			\$	%
1       Watermain Cleaning and Repairs       3,812       3,845       -       -       3,646       3,461       -       -       -       3,841       -       -       -       3,841       -       -       -       3,841       -       -       -       3,842       3,122       3,128       -       -       8(83)       2,290       (112)         2       Water Connections       4,228       4,725       -       -       (437)       4,228       4,405       -       -       (150)       3,895       (333)         4       Water Connections       6,608       6,220       331       -       (166)       6,515       7,111       1,270       -       (140)       3,408       110       -       (140)       3,408       110       -       (140)       3,426       275       -		Actuals	Expenses	Capital	Funding	Funding	Buager	Expenses	Capital	Funding	Funding	Budget		
2       Valves and Hydrans       2.261       3.255       -       -       (83)       2.402       3.128       -       -       (838)       2.290       (112)         3       Water Connections       4.228       4.725       -       -       (497)       4.228       4.405       -       -       (510)       3.985       (333)         4       Water Meter Repairs and Testing       5.17       5.29       3.13       -       (113)       461       500       -       (148)       8.303       1.888         6       Water Supply Plants - Plants East       3.333       2.325       (89)       3.178       3.498       110       -       (140)       3.466       (10)         7       Water Supply Plants - Plants North       2.420       3.011       30       -       (30)       -       (30)       -       (30)       -       (30)       -       (30)       -       -       0       -       <														
3       Water Connections       4.228       4,725       -       -       (497)       4.228       4,405       -       -       (150)       3,895       (333)         4       Water Meter Repairs and Testing       517       504       -       -       (113)       641       590       -       -       (148)       8,303       1,886       (7)         5       Depot Operations       6,608       6,220       331       -       (169)       3,478       3,498       110       -       (148)       8,303       1,886       (10)         7       Water Supply Plants - Plants Central       14,063       14,602       435       -       (103)       14,934       15,492       580       -       (253)       15,819       885         9       Sun Valley Co-Operative Water System       -	1 Watermain Cleaning and Repairs	3,812	3,545	-	-	-	3,545	3,481	-	-	-	3,481	(64)	
4       Water Meter Repairs and Testing       517       594       -       -       (133)       461       590       -       -       (136)       454       (7)         5       Depot Operations       6,608       6,220       331       -       (166)       6,415       7,1181       1,270       -       (148)       8,303       1,888         6       Water Supply Plants - Plants Central       14,063       14,602       435       -       (103)       14,934       15,492       580       -       (253)       15,819       885         8       Water Supply Plants - Plants North       2,820       3,011       30       -       (30)       3,316       -       -       (30)       3,316       -       -       (30)       -       -       10       SCADA Systems       -	-	2,261	3,255	-	-	(853)	2,402	3,128	-	-	(838)	2,290	(112)	
5       Depot Operations       6,608       6,220       331       -       (136)       6,415       7,181       1,270       -       (148)       8,303       1,888         6       Water Supply Plants - Plants East       3,338       3,332       2,352       -       (89)       3,478       3,498       110       -       (140)       3,468       (10)         7       Water Supply Plants - Plants Central       14,003       14,602       435       -       (130)       14,394       15,492       580       -       (253)       15,819       885         8       Water Supply Plants - Plants North       2,820       3,011       30       -       (30)       -       -       (30)       -       -       (30)       -       -       (30)       -       -       (30)       -       -       (30)       -       -       (30)       -       -       (30)       -       -       (30)       -       -       -       -       (30)       -       -       -       (30)       3,011       3,011       3,011       3,011       3,011       3,011       3,011       3,011       3,011       3,011       3,011       3,011       3,011       3,011	3 Water Connections	4,228	4,725	-	-	(497)	4,228	4,405	-	-	(510)	3,895	(333)	
6       Water Supply Plants - Plants East       3,338       3,332       235       -       (89)       3,478       3,498       110       -       (140)       3,468       (10)         7       Water Supply Plants - Plants Central       14,603       14,602       435       -       (10)       14,934       15,492       580       -       (23)       15,519       855         9       Sun Valley Co-Operative Water System       -       0       -       -       (30)       -       (30)       -       (30)       -       (30)       -       -       (30)       -       -       (30)       -       1.171       -       -       -       -       -       1.020       -       -       -       -       -       1.203	4 Water Meter Repairs and Testing	517	594	-	-	(133)	461	590	-	-	(136)	454	(7)	
7       Water Supply Plants - Plants North       14,063       14,062       435       -       (103)       14,934       15,492       580       -       (253)       15,819       885         8       Water Supply Plants - Plants North       2,820       3,011       30       -       (30)       3,316       -       -       (30)       3,286       275         10       SCADA Systems       -       1 <t< td=""><td>5 Depot Operations</td><td>6,608</td><td>6,220</td><td>331</td><td>-</td><td>(136)</td><td>6,415</td><td>7,181</td><td>1,270</td><td>-</td><td>(148)</td><td>8,303</td><td>1,888</td><td></td></t<>	5 Depot Operations	6,608	6,220	331	-	(136)	6,415	7,181	1,270	-	(148)	8,303	1,888	
8       Water Supply Plants - Plants North       2,820       3,011       30       -       (30)       3,011       3,316       -       -       (30)       -       -       (30)       -       -       (30)       -       -       (30)       -       -       (30)       -       -       (30)       -       -       (30)       - </td <td>6 Water Supply Plants - Plants East</td> <td>3,338</td> <td>3,332</td> <td>235</td> <td>-</td> <td>(89)</td> <td>3,478</td> <td>3,498</td> <td>110</td> <td>-</td> <td>(140)</td> <td>3,468</td> <td>(10)</td> <td></td>	6 Water Supply Plants - Plants East	3,338	3,332	235	-	(89)	3,478	3,498	110	-	(140)	3,468	(10)	
9       Sun Valley Co-Operative Water System       -       30       -       -       (30)       -       -       (30)       -	7 Water Supply Plants - Plants Central	14,063	14,602	435	-	(103)	14,934	15,492	580	-	(253)	15,819	885	
10       SCADA Systems       -	8 Water Supply Plants - Plants North	2,820	3,011	30	-	(30)	3,011	3,316	-	-	(30)	3,286	275	
11       Engineering and Staff Support       6,772       8,293       433       -       (666)       8,060       8,804       210       -       (732)       8,282       222         12       Facilities Management       8,747       8,184       1,971       (67)       (977)       9,111       8,535       17,736       -       (15,989)       10,282       1,171         13       Administration       319       342       -       -       -       342       370       -       -       -       370       28         14       Headquarters Shared Cost - Works - Water Supply System Portion       1,153       1,153       -       -       -       1,153       1,203       -       -       -       1,203       50         15       Construction of Municipal Services       44,361       -       120,104       -       (75,743)       44,361       -       120,878       -       (75,430)       44,448       87         Construction of Municipal Services       44,361       -       (75,743)       44,361       -       (95,236)       105,581       4,080       4.0%         Support Segretment - Sanitary Sewerage System         1       Holes       2,421	9 Sun Valley Co-Operative Water System	-	30	-	-	(30)	-	30	-	-	(30)	-	-	
12       Facilities Management       8,747       8,184       1,971       (67)       (977)       9,111       8,535       17,736       -       (15,989)       10,282       1,171         13       Administration       319       342       -       -       342       370       -       -       370       28         14       Headquarters Shared Cost - Works - Water Supply System Portion       1,153       1,153       -       -       1,153       1,203       -       -       1,203       50         15       Construction of Municipal Services       44,361       -       120,104       -       (75,743)       44,361       -       120,878       -       (76,430)       44,448       87         Works Department - Water Supply System       98,999       57,286       123,539       (67)       (79,257)       101,501       60,033       140,784       -       (95,236)       105,581       4,080       4.0%         Works Department - Sanitary Sewerage System         1       Cleaning, Repairs and Maintenance Holes       2,421       2,188       -       -       2,188       -       -       2,188       2,208       -       -       2,208       20       2,208       2,61	10 SCADA Systems	-	-	-	-	-	-	-	-	-	-	-	-	
13       Administration       319       342       -       -       342       370       -       -       370       28         14       Headquarters Shared Cost - Works - Water Supply System Portion       1,153       1,153       -       -       1,153       1,203       -       -       1,203       50         15       Construction of Municipal Services       44,361       -       120,104       -       (75,743)       44,361       -       120,878       -       (76,430)       44,448       87         Works Department - Water Supply System Subtotal       98,999       57,286       123,539       (67)       (79,257)       101,501       60,033       140,784       -       (95,236)       105,581       4,080       4.0%         Works Department - Sanitary Sewerage System         1       Cleaning, Repairs and Maintenance Holes       2,421       2,188       -       -       2,188       2,208       -       -       2,208       20         2       Sewer Connections       2,450       3,567       -       -       (1,011)       2,556       3,389       -       -       (1,014)       2,375       (181)         3       Depot Operations       3,975 <td< td=""><td>11 Engineering and Staff Support</td><td>6,772</td><td>8,293</td><td>433</td><td>-</td><td>(666)</td><td>8,060</td><td>8,804</td><td>210</td><td>-</td><td>(732)</td><td>8,282</td><td>222</td><td></td></td<>	11 Engineering and Staff Support	6,772	8,293	433	-	(666)	8,060	8,804	210	-	(732)	8,282	222	
13       Administration       319       342       -       -       342       370       -       -       370       28         14       Headquarters Shared Cost - Works - Water Supply System Portion       1,153       1,153       -       -       1,153       1,203       -       -       1,203       50         15       Construction of Municipal Services       44,361       -       120,104       -       (75,743)       44,361       -       120,878       -       (76,430)       44,448       87         Works Department - Water Supply System Subtotal       98,999       57,286       123,539       (67)       (79,257)       101,501       60,033       140,784       -       (95,236)       105,581       4,080       4.0%         Works Department - Sanitary Sewerage System         1       Cleaning, Repairs and Maintenance Holes       2,421       2,188       -       -       2,188       2,208       -       -       2,208       20         2       Sewer Connections       2,450       3,567       -       -       (1,011)       2,556       3,389       -       -       (1,014)       2,375       (181)         3       Depot Operations       3,975 <td< td=""><td>12 Facilities Management</td><td>8,747</td><td>8,184</td><td>1,971</td><td>(67)</td><td>(977)</td><td>9,111</td><td>8,535</td><td>17,736</td><td>-</td><td>(15,989)</td><td>10,282</td><td>1,171</td><td></td></td<>	12 Facilities Management	8,747	8,184	1,971	(67)	(977)	9,111	8,535	17,736	-	(15,989)	10,282	1,171	
14       Water Supply System Portion       1,153       1,153       -       -       1,153       1,203       -       -       1,203       50         15       Construction of Municipal Services       44,361       -       120,104       -       (75,743)       44,361       -       120,878       -       (76,430)       44,448       87         Works Department - Water Supply System       98,999       57,286       123,539       (67)       (79,257)       101,501       60,033       140,784       -       (95,236)       105,581       4,080       4.0%         Works Department - Sanitary Sewerage System       -       -       -       2,188       -       -       -       2,188       2,208       -       -       -       2,208       20         2       Sewer Connections       2,450       3,567       -       -       1,011       2,556       3,389       -       -       1(1,014)       2,375       (181)         3       Depto Operations       3,975       3,492       331       -       (29)       3,794       3,612       416       -       (34)       3,994       200         4       WPCPs and Pumping Stations       26,625       25,240       2,196<	13 Administration	319	342	-	-	-	342	370	-	-	-		28	
Works Department - Water Supply System Subtotal         98,999         57,286         123,539         (67)         (79,257)         101,501         60,033         140,784         -         (95,236)         105,581         4,080         4.0%           Works Department - Sanitary Sewerage System         1         Cleaning, Repairs and Maintenance Holes         2,421         2,188         -         -         -         2,188         2,208         -         -         -         2,208         20           2         Sewer Connections         2,450         3,567         -         -         0,033         3,89         -         -         1,014)         2,375         (181)           3         Depot Operations         3,975         3,492         331         -         (29)         3,794         3,612         416         -         (34)         3,994         200           4         WPCPs and Pumping Stations         26,625         25,240         2,196         -         (214)         27,222         26,393         308         -         (284)         26,417         (805)         5           5         Duffin Creek WPCP         -         -         (1,771)         1,065         2,918         -         -         (1,820) </td <td></td> <td>1,153</td> <td>1,153</td> <td>-</td> <td>-</td> <td>-</td> <td>1,153</td> <td>1,203</td> <td>-</td> <td>-</td> <td>-</td> <td>1,203</td> <td>50</td> <td></td>		1,153	1,153	-	-	-	1,153	1,203	-	-	-	1,203	50	
Subtotal         98,999         57,266         123,539         (67)         (79,257)         101,501         60,033         140,784         -         (95,256)         105,561         4,060         4.0%           Works         Department - Sanitary Sewerage System         Cleaning, Repairs and Maintenance Holes         2,421         2,188         -         -         -         2,188         2,208         -         -         -         2,208         20           2         Sewer Connections         2,450         3,567         -         -         (1,011)         2,556         3,389         -         -         (1,014)         2,375         (181)           3         Depot Operations         3,975         3,492         331         -         (29)         3,794         3,612         416         -         (34)         3,994         200           4         WPCPs and Pumping Stations         26,625         25,240         2,196         -         (214)         27,222         26,393         308         -         (284)         26,417         (805)           5         Duffin Creek WPCP         -         (1,771)         1,065         2,918         -         -         (1,820)         1,098         33     <	15 Construction of Municipal Services	44,361	-	120,104	-	(75,743)	44,361	-	120,878	-	(76,430)	44,448	87	
Subtotal         Vorks Department - Sanitary Sewerage System           1         Cleaning, Repairs and Maintenance Holes         2,421         2,188         -         -         2,188         2,208         -         -         2,208         20           2         Sewer Connections         2,450         3,567         -         -         (1,011)         2,556         3,389         -         -         (1,014)         2,375         (181)           3         Depot Operations         3,975         3,492         331         -         (29)         3,794         3,612         416         -         (34)         3,994         200           4         WPCPs and Pumping Stations         26,625         25,240         2,196         -         (214)         27,222         26,393         308         -         (284)         26,417         (805)           5         Duffin Creek WPCP         -         -         (1,771)         1,065         2,918         -         -         (1,820)         1,098         33           (b) Duffin Creek Plant         5,740         30,313         2,494         -         (27,171)         5,636         38,371         570         -         (1,820)         1,098         33		98,999	57,286	123,539	(67)	(79,257)	101,501	60,033	140,784	-	(95,236)	105,581	4,080	4.0%
Cleaning, Repairs and Maintenance Holes       2,421       2,188       -       -       2,188       2,208       -       -       -       2,208       20         2       Sewer Connections       2,450       3,567       -       -       (1,011)       2,556       3,389       -       -       (1,014)       2,375       (181)         3       Depot Operations       3,975       3,492       331       -       (29)       3,794       3,612       416       -       (34)       3,994       200         4       WPCPs and Pumping Stations       26,625       25,240       2,196       -       (214)       27,222       26,393       308       -       (284)       26,417       (805)         5       Duffin Creek WPCP       -       -       (1,771)       1,065       2,918       -       -       (1,820)       1,098       33         (b) Duffin Creek Plant       5,740       30,313       2,494       -       (27,171)       5,636       38,371       570       -       (1,820)       1,098       33         (c) Duffin Creek Tech Support       43       231       -       -       (189)       42       234       -       -       (192) <td< th=""><th>Subtotal</th><th></th><th></th><th></th><th></th><th>• • •</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	Subtotal					• • •								
1       Holes       2,421       2,188       -       -       2,188       2,208       -       -       2,208       20         2       Sewer Connections       2,450       3,567       -       -       (1,011)       2,556       3,389       -       -       (1,014)       2,375       (181)         3       Depot Operations       3,975       3,492       331       -       (29)       3,794       3,612       416       -       (34)       3,994       200         4       WPCPs and Pumping Stations       26,625       25,240       2,196       -       (214)       27,222       26,393       308       -       (284)       26,417       (805)         5       Duffin Creek WPCP       -       -       (1,771)       1,065       2,918       -       -       (1,820)       1,098       33         (b) Duffin Creek Plant       5,740       30,313       2,494       -       (27,171)       5,636       38,371       570       -       (32,366)       6,575       939         (c) Duffin Creek Tech Support       43       231       -       -       (189)       42       234       -       -       (192)       42       - </td <td>Works Department - Sanitary Sewerage Sys</td> <td>tem</td> <td></td>	Works Department - Sanitary Sewerage Sys	tem												
3       Depot Operations       3,975       3,492       331       -       (29)       3,794       3,612       416       -       (34)       3,994       200         4       WPCPs and Pumping Stations       26,625       25,240       2,196       -       (214)       27,222       26,393       308       -       (284)       26,417       (805)         5       Duffin Creek WPCP       -       -       (1,771)       1,065       2,918       -       -       (1,820)       1,098       33         (b) Duffin Creek Plant       5,740       30,313       2,494       -       (27,171)       5,636       38,371       570       -       (32,366)       6,575       939         (c) Duffin Creek Tech Support       43       231       -       -       (189)       42       234       -       -       (192)       42       -         (d) Duffin Creek Administration       547       3,019       -       -       (2,067)       483       1,910       1,437       -       (2,681)       666       183		2,421	2,188	-	-	-	2,188	2,208	-	-	-	2,208	20	
4       WPCPs and Pumping Stations       26,625       25,240       2,196       -       (214)       27,222       26,393       308       -       (284)       26,417       (805)         5       Duffin Creek WPCP       (a) Management Committee       1,007       2,836       -       -       (1,771)       1,065       2,918       -       -       (1,820)       1,098       33         (b) Duffin Creek Plant       5,740       30,313       2,494       -       (27,171)       5,636       38,371       570       -       (32,366)       6,575       939         (c) Duffin Creek Tech Support       43       231       -       -       (189)       42       234       -       -       (192)       42       -         (d) Duffin Creek Administration       547       3,019       -       -       (2,067)       483       1,910       1,437       -       (2,681)       666       183	2 Sewer Connections	2,450	3,567	-	-	(1,011)	2,556	3,389	-	-	(1,014)	2,375	(181)	
5       Duffin Creek WPCP         (a) Management Committee       1,007       2,836       -       -       (1,771)       1,065       2,918       -       -       (1,820)       1,098       33         (b) Duffin Creek Plant       5,740       30,313       2,494       -       (27,171)       5,636       38,371       570       -       (32,366)       6,575       939         (c) Duffin Creek Tech Support       43       231       -       -       (189)       42       234       -       -       (192)       42       -         (d) Duffin Creek Administration       547       3,019       -       -       (2,472)       547       3,147       -       -       (2,572)       575       28         (e) Duffin Creek Facility       762       2,000       550       -       (2,067)       483       1,910       1,437       -       (2,681)       666       183	3 Depot Operations	3,975	3,492	331	-	(29)	3,794	3,612	416	-	(34)	3,994	200	
(a) Management Committee1,0072,836(1,771)1,0652,918(1,820)1,09833(b) Duffin Creek Plant5,74030,3132,494-(27,171)5,63638,371570-(32,366)6,575939(c) Duffin Creek Tech Support43231(189)42234(192)42-(d) Duffin Creek Administration5473,019(2,472)5473,147(2,572)57528(e) Duffin Creek Facility7622,000550-(2,067)4831,9101,437-(2,681)666183	4 WPCPs and Pumping Stations	26,625	25,240	2,196	-	(214)	27,222	26,393	308	-	(284)	26,417	(805)	
(b) Duffin Creek Plant5,74030,3132,494-(27,171)5,63638,371570-(32,366)6,575939(c) Duffin Creek Tech Support43231(189)42234(192)42-(d) Duffin Creek Administration5473,019(2,472)5473,147(2,572)57528(e) Duffin Creek Facility7622,000550-(2,067)4831,9101,437-(2,681)666183	5 Duffin Creek WPCP					. ,					. ,		. ,	
(b) Duffin Creek Plant5,74030,3132,494-(27,171)5,63638,371570-(32,366)6,575939(c) Duffin Creek Tech Support43231(189)42234(192)42-(d) Duffin Creek Administration5473,019(2,472)5473,147(2,572)57528(e) Duffin Creek Facility7622,000550-(2,067)4831,9101,437-(2,681)666183	(a) Management Committee	1,007	2,836	-	-	(1,771)	1,065	2,918	-	-	(1,820)	1,098	33	
(c) Duffin Creek Tech Support43231(189)42234(192)42-(d) Duffin Creek Administration5473,019(2,472)5473,147(2,572)57528(e) Duffin Creek Facility7622,000550-(2,067)4831,9101,437-(2,681)666183	(b) Duffin Creek Plant	5,740	30,313	2,494	-	(27,171)	5,636	38,371	570	-	· · /	6,575	939	
(d) Duffin Creek Administration5473,019(2,472)5473,147(2,572)57528(e) Duffin Creek Facility7622,000550-(2,067)4831,9101,437-(2,681)666183	(c) Duffin Creek Tech Support	43	231	-	-	(189)	42	234	-	-	(192)	42	-	
(e) Duffin Creek Facility 762 2,000 550 - (2,067) 483 1,910 1,437 - (2,681) 666 183	(d) Duffin Creek Administration	547	3,019	-	-	· · ·	547	3,147	-	-	· · ·	575	28	
	(e) Duffin Creek Facility	762		550	-	· ,	483		1,437	-	· ,	666	183	
	Total Duffin Creek WPCP	8,099	38,399	3,044	-	. ,	7,773		2,007	-	. ,	8,956	1,183	

## Financial Details: Summary by Program (\$,000's)

Provides the total operating expense, capital expense, subsidy, other revenue and the resulting user rate requirement for each major program and service

Durham 🕄	2022		2022	Approved B	udgets		2023 Proposed Budgets				Variance		
Durham 800	Estimated Actuals	Operating Expenses	Gross Capital	Subsidy Funding	Other Funding	Approved Budget	Operating Expenses	Gross Capital	Subsidy Funding	Other Funding	Proposed Budget	\$	%
6 Regional Environmental Laboratory	760	3,213	1,057	-	(3,660)	610	3,053	703	-	(3,294)	462	(148)	
7 Engineering and Staff Support	6,096	8,076	197	-	(962)	7,311	8,440	326	-	(1,023)	7,743	432	
8 Facilities Management	9,774	9,516	2,035	(26)	(952)	10,573	10,243	17,382	-	(16,115)	11,510	937	
9 Administration	359	345	-	-	-	345	373	-	-	-	373	28	
10 Headquarters Shared Cost - Works - Sanitary Sewerage System Portion	1,153	1,153	-	-	-	1,153	1,203	-	-	-	1,203	50	
11 Construction of Municipal Services	30,864	-	138,660	-	(107,796)	30,864	-	126,310	-	(90,792)	35,518	4,654	
Works Department - Sanitary Sewerage System Subtotal	92,576	95,189	147,520	(26)	(148,294)	94,389	105,494	147,452	-	(152,187)	100,759	6,370	6.7%
User Rate Requirement Works Department - Water Supply System and Sanitary Sewerage System	191,575	152,475	271,059	(93)	(227,551)	195,890	165,527	288,236	-	(247,423)	206,340	10,450	5.3%

## Financial Details: Summary of Capital (\$,000's)

Provides a summary of the current year capital budget, nine-year capital forecast and proposed financing summarized by asset type. See Appendices for specific capital projects

Durham 🕄	2022	2023	Forecast					
Durham Budget	Approved Budget	Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Water Supply System								
Capital Expenditures								
Linear Infrastructure	45,468	64,491	134,883	74,439	84,315	59,235	233,521	586,393
Building & Structures	64,013	67,294	72,540	224,197	242,814	243,667	257,035	1,040,253
Machinery & Equipment	8,163	3,565	9,167	10,599	7,105	8,771	39,524	75,166
Information Technology Infrastructure	1,278	182	10,128	3,367	5,904	508	1,303	21,210
Vehicles	304	1,245	509	28	153	56	217	963
Furniture & Fixtures	88	10	208	18	12	11	24	273
Allowances & Other Provisions	4,225	3,997	4,832	4,450	4,536	6,442	26,241	46,501
Capital Expenditure Subtotal	123,539	140,784	232,267	317,098	344,839	318,690	557,865	1,770,759
Capital Financing								
Water Residential DC	63,793	68,205	80,643	86,118	38,763	42,419	88,338	336,281
Water Commercial DC	2,420	2,462	3,632	4,872	8,815	3,488	7,825	28,632
Water Industrial DC	1,607	-	8,072	8,618	3,091	13,066	17,688	50,535
Reserve Fund - Asset Management	5,623	5,764	13,507	6,155	6,206	6,362	34,913	67,143
Reserve Fund - Water Rate Stabilization	2,548	311	9,125	20,002	70,727	29,025	16,396	145,275
Equipment Replacement Reserve	33	-	-	-	-	-	-	-
Reserve Fund - Servicing of Employment	684	-	2,450	1,408	-	-	-	3,858
Lands Developer Contributions	-	-	7,000	314	-	81,826	-	89,140
Subsidy / Grant	67	-	-	-	-	-	-	-
Debentures - DC Funded	-	-	23,652	56,019	156,739	32,570	25,054	294,034
Debentures - User Rate Funded	-	15,666	11,667	73,272	-	45,705	17,300	147,944
User Rate	46,764	48,376	72,519	60,320	60,498	64,229	350,351	607,917
Capital Financing Subtotal	123,539	140,784	232,267	317,098	344,839	318,690	557,865	1,770,759
Total Capital Water Supply System	123,539	140,784	232,267	317,098	344,839	318,690	557,865	1,770,759

## Financial Details: Summary of Capital (\$,000's)

Provides a summary of the current year capital budget, nine-year capital forecast and proposed financing summarized by asset type. See Appendices for specific capital projects

Durham 🕄	2022	2023	Forecast					
Durham 800	Approved Budget	Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Sanitary Sewerage System								
Capital Expenditures								
Linear Infrastructure	28,499	46,615	189,710	52,978	135,408	82,729	414,584	875,409
Building & Structures	20,715	32,325	77,110	199,213	46,429	42,965	502,641	868,358
Machinery & Equipment	91,956	61,829	70,076	43,577	61,263	80,977	213,243	469,136
Information Technology Infrastructure	3,008	963	450	1,800	1,846	483	1,706	6,285
Vehicles	379	395	509	28	153	56	217	963
Furniture & Fixtures	88	10	202	11	12	11	24	260
Allowances and Other Provisions	2,875	5,315	5,865	4,415	4,765	4,665	23,075	42,785
Capital Expenditure Subtotal	147,520	147,452	343,922	302,022	249,876	211,886	1,155,490	2,263,196
Capital Financing								
Sewer Residential DC	25,703	36,203	46,450	44,240	38,173	48,023	91,901	268,787
Sewer Commercial DC	2,341	2,609	9,621	7,107	6,962	3,754	11,788	39,232
Sewer Industrial DC	192	1,874	28,554	6,369	2,982	8,000	12,174	58,079
Reserve Fund - Environmental Lab	750	475	575	125	400	325	915	2,340
Reserve Fund - Sewer Rate Stabilization	9,825	442	86,151	36,989	13,100	18,340	55,284	209,864
Reserve Fund - Servicing of Employment Lands	509	-	1,653	-	580	1,066	-	3,299
Equipment Replacement Reserve	14	-	-	-	-	-	-	-
Reserve Fund - Asset Management	9,275	11,107	21,352	11,108	15,238	10,494	56,539	114,731
Recovery From York	63,388	40,691	51,670	27,882	54,980	58,199	404,296	597,027

## Financial Details: Summary of Capital (\$,000's)

Provides a summary of the current year capital budget, nine-year capital forecast and proposed financing summarized by asset type. See Appendices for specific capital projects

Durham 🕄	2022	2023	Forecast					
Budget	Approved Budget	Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Subsidy / Grant	26	-	-	-	-	-	-	-
Debentures - DC Funded	-	-	38,893	52,177	69,297	12,000	106,140	278,507
Debentures - User Rate Funded	-	15,667	11,667	69,000	-	-	101,550	182,217
User Rate	35,497	38,384	47,336	47,025	48,164	51,685	314,903	509,113
Capital Financing Subtotal	147,520	147,452	343,922	302,022	249,876	211,886	1,155,490	2,263,196
Total Capital Sanitary Sewerage System	147,520	147,452	343,922	302,022	249,876	211,886	1,155,490	2,263,196
<b>Total Capital</b> Works Department - Water Supply System and Sanitary Sewerage System	271,059	288,236	576,189	619,120	594,715	530,576	1,713,355	4,033,955

# Details of Budget Changes

Strategic Investments: Water Supply System	<b>2023 Impact</b> (\$ 000's)
New positions not captured below – details of the 3.026 FTEs are provided in Staffing Details. 2024 incremental impact of \$210k	183
Expansion and modernization of Maintenance Depots to accommodate increased service demand due to population growth including land acquisition for the Sunderland Depot (\$1,333k), the Whitby/Oshawa Depot (\$12,667k) and design of the expansion to the Ajax Depot (\$1,667k). These projects are fully funded by debenture proceeds. Annual debt service costs of \$1.02 million will be required in 2024. A portion of the debt servicing costs may be eligible to be financed from development charges	-
New position (1.0 FTE), additional staffing resources (equivalent of 10 positions being allocated form Works General Tax) and overhead for locates program to ensure compliance with <i>Ontario Underground Infrastructure Notification System Act, 2012 (</i> \$861k in capital). 2024 incremental impact of \$602k	1,488
Increase in stand-by and overtime pay to support response to the increased frequency of severe weather events	113
New position (0.280 FTE) and other support costs to maintain the new Enterprise Maintenance Management System (EMMS) – to allow staff to manage activities, capture life-cycle cost data and provide real-time maintenance information. 2024 incremental impact of \$36k	189
Integrated security capital project to replace the security control panels and programming at all regional facilities to meet the new facility standard	310
Additional financing for the energy retrofit and modernization (\$311k) of 101 Consumers Drive, Whitby to optimize space, reduce greenhouse gas emissions and provide energy efficient lighting. This additional financing is provided from the Water Rate Stabilization Reserve Fund	-
Net increase in the user rate funded portion of capital investment not captured above – see detailed project listing in Appendix B	441
Strategic Investments: Water Supply System Subtotal	2,724

Base Adjustments: Water Supply System	<b>2023 Impact</b> (\$ 000's)
Economic increases	335
Annualization of 9.01 FTEs approved in the 2022 budget	514
Various revenue adjustments to align with actuals Page 51 of 162	(274)

Details of Budget Changes Continued	
Inflationary increases including chemicals (\$1,064k) and utilities (\$241k)	1,333
Line-by-line review savings	(598)
Increase in Water Supply System's share of costs for the operation and maintenance of Regional Headquarters	46
Base Adjustments: Water Supply System Subtotal	1,356
Net Changes: Water Supply System Subtotal	4,080

# **Details of Budget Changes** *Continued*

Strategic Investments: Sanitary Sewerage System	<b>2023 Impact</b> (\$ 000's)
New positions not captured below – details of the 2.773 FTEs are provided in Staffing Details. 2024 annualized impact of \$195k	(\$ 000 0) 162
Expansion and modernization of Maintenance Depots to accommodate increased service demand due to population growth including land acquisition for the Sunderland Depot (\$1,333k), the Whitby/Oshawa Depot (\$12,667k) and design of the expansion to the Ajax Depot (\$1,667k). These projects are fully funded by debenture proceeds. Annual debt service costs of \$1.02 million will be required in 2024. A portion of the debt servicing costs may be eligible to be financed from development charges	-
New position (0.310 FTE) and other support costs to maintain the new Enterprise Maintenance Management System (EMMS) – to allow staff to manage activities, capture life-cycle cost data and provide real-time maintenance information. 2024 annualized impact of \$40k	168
Integrated security capital project to replace the security control panels and programming at all regional facilities to meet the new facility standard	336
Additional financing for the energy retrofit and modernization (\$311k) of 101 Consumers Drive, Whitby to optimize space, reduce greenhouse gas emissions and provide energy efficient lighting. This additional financing is provided by the Sewer Rate Stabilization Reserve Fund	-
Net increase in the user rate funded portion of capital investment not captured above – see detailed project listing in Appendix D	2,540
Strategic Investments: Sanitary Sewerage System Subtotal	3,206
Base Adjustments: Sanitary Sewerage System	<b>2023 Impact</b> (\$ 000's)
Economic increases	408
Annualization of 7.519 FTEs approved in the 2022 budget	417
Various revenue adjustments to align with actuals	(110)
Inflationary increases including chemicals (\$1,857k) and utilities (\$760k)	2,923
Line-by-line review savings	(520)

Details of Budget Changes Continued	
Increase in Sanitary Sewerage System's share of costs for the operation and maintenance of Regional Headquarters	46
Base Adjustments: Sanitary Sewerage System Subtotal	3,164
Net Changes: Sanitary Sewerage System Subtotal	6,370

Net Changes: Works Department - Water Supply System and Sanitary Sewerage System	10,450
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\*Note that impacts are net of recoveries

# **Staffing Details**

Supervisor - to monitor, develop, schedule and manage the various positions pertaining to he development of the Regions centralized Utility Locate program.	1.000	
Supervisor DCAM - to support increase in project delivery for depots, sewage treatment plants and water pumping stations, and major capital projects supporting corporate priorities Note: this position is shared with Sanitary Sewerage, Works General Tax and Waste Management)	0.271	
Emergency Management Coordinator - to support emergency management programs and nitiatives corporately and departmentally as a dedicated liaison with Durham Emergency Management (Note: this position is shared with Sanitary Sewerage, Works General Tax and Waste Management)	0.250	
Business Analyst - to provide business support for the Enterprise Maintenance Management System (Note: this position is shared with Sanitary Sewerage and Works General Tax)	0.280	
Junior Project Engineer (2 positions) - to support the vertical group in the delivery of capital projects (Note: these two positions are shared with Sanitary Sewerage)	1.060	
Norks Technician 2 - to provide CAD support to the vertical and linear project teams (Note: his position is shared with Sanitary Sewerage)	0.530	
Norks Technician 5 - to support the vertical group in the delivery of capital projects (Note: his position is shared with Sanitary Sewerage)	0.530	
nspector 3 - to support the projects in the Construction Division and reduce reliance on consulting services and temporary staff (Note: this position is shared with Sanitary Sewerage and Works General Tax)	0.385	
Proposed New Positions		4.30
r Supply System Subtotal		20

204.048

23

## Water Supply System

### 2022 Approved Complement (Restated)

#### Ρ

# **Staffing Details** *Continued*

Sanitary Sewerage System

2022 Approved Complement (Restated)	<u>278.793</u>
Proposed New Positions	
Supervisor DCAM - to support increase in project delivery for depots, sewage treatment plants and water pumping stations, and major capital projects supporting corporate priorities (Note: this position is shared with Water Supply, Works General Tax and Waste Management)	86
Emergency Management Coordinator - To support emergency management programs and initiatives corporately and departmentally as a dedicated liaison with Durham Emergency 0.2 Management (Note: this position is shared with Water Supply, Works General Tax and Waste)	50
Business Analyst - to provide business support for the Enterprise Maintenance Management System (Note: this position is shared with Water Supply and Works General 0.3 Tax)	10
Junior Project Engineer (2 positions) - to support the vertical group in the delivery of 0.9 capital projects (Note: these two positions are shared with Water Supply)	40
Works Technician 2 - to provide CAD support to the vertical and linear project teams (Note: 0.4 this position is shared with Water Supply)	70
Works Technician 5 - To support the vertical group in the delivery of capital projects (Note: 0.4 this position is shared with Water Supply)	70
Inspector 3 - to support the projects in the Construction Division and reduce reliance on consulting services and temporary staff (Note: this position is shared with Water Supply and 0.2 Works General Tax)	57
Total Proposed New Positions	<u>3.083</u>
Sanitary Sewerage System Subtotal	281.876

Total Complement: Works Department - Water Supply System and Sanitary Sewerage System

490.230

**Full Time Equivalents** 

(FTE's)

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# Looking Forward

Water supply and sanitary sewerage systems support residents, businesses, and institutions by providing public infrastructure, reliable service, and expertise so that healthy and sustainable communities thrive. To support these commitments the Region continues to modernize operations through a variety of initiatives including:

- the implementation of the Enterprise Maintenance Management System has moved maintenance operations from paper-based information processing to a comprehensive work management system, providing real time maintenance activities and information;
- the utilization of technology such as drones, sonar and submersible cameras for inspections and assessments; and innovative mapping technology;
- continued shift to digitized public facing services to enhance the experience of residents and business that access services provided by the Works Department, such as continued enhancements to the online permitting system including adding additional permits to the system;
- refinement of design standards for Regional construction projects to further protect the natural environment and incorporate compliance measures related to the Excess Soil Management Regulation;
- implementing climate mitigation and GHG reduction strategies and measures, including conversion of the Region's fleet of vehicles and equipment to lower carbon options and development of a GHG Emissions Management Strategy for Water Supply and Sanitary Sewerage facilities;
- presentation and implementation of the Durham Building Standard, providing guidelines related to energy efficiency, greenhouse gas emissions and reductions, and incorporation of amenities that support diversity and inclusion in the workplace for all projects related to the construction or renovation/retrofit of Regional facilities;
- future implementation of recommendations from Integrated Resource Recovery Studies for Water Pollution Control Plants; and
- continued advancement of the water meter retrofit initiative, installing radio frequency remote reading devices (RF) to eliminate manual meter readings. This is a significant enhancement from a customer service perspective and has been much anticipated as the follow up step to the MyDurhamWater project.

# Looking Forward Continued

The Region will continue to leverage long-term financial planning to chart a response to some of the significant challenges ahead which include leading infrastructure renewal (in alignment with the Region's Asset Management Plan and prudent asset management practices), preparing for projected Regional growth and new development which will increase demands for Regional services, and major plant expansions and infrastructure construction projects (including the continued servicing of employment lands and infrastructure constructed to service developments in Seaton in Pickering, West Whitby, Courtice and Newcastle in Clarington, and in North Oshawa).

As part of these long-term financial planning efforts the Region continues to monitor its SCADA WAN which provides wireless communication to approximately 75 water sites. The existing 3,650-3,700Mhz frequency band used is regulated by Innovation, Science and Economic Development Canada (ISED). ISED has planned to terminate all radio licenses in the Region's current band to reallocate for 5G cellular communications and provisioning of frequencies to lesser served areas. Also, ISED has allocated a new frequency band for users displaced by this decision, which means that the Region must discontinue use of the current frequency band by March 31, 2025. The Works Department is expecting this frequency band reallocation decision will result in the replacement of radio units, antennas, routers, cabling, and communication panel modifications. The Region has included \$3 million in the capital budget and forecast to help address these challenges, and the WAN assessment and pre-design work has commenced.

Further, in alignment with Regional Council's commitment to confront climate change, a core element in the design and construction of Regional infrastructure is sustainability - using best practices and innovations developed through in-house research and partnerships with academia. In particular, the Region's wastewater assets have the potential to contribute to both corporate and Region-wide GHG reduction targets by transferring thermal energy (e.g., heating and cooling) between trunk sanitary sewer collection systems and adjacent buildings and facilities displacing energy consumption that might otherwise come from fossil fuel energy sources. Such projects, referred to as wastewater energy transfer (WET) projects, can reduce GHGs from the building sector which is the second largest source of community-wide emissions. Discussions are ongoing regarding the implementation of the first WET project in the Region.

The Supporting Growth and Housing in York and Durham Region Act, 2022 (Bill 23) suddenly received Royal Assent on November 28, 2022 in the provincial legislature. This legislation will impact the amount of development charges available to fund new and expanded infrastructure to service growth. Schedule 10 within Bill 23 provides the provincial direction for the wastewater servicing for the Upper York Sewage Solution which includes the Lake Ontario option of conveying wastewater south to the York Durham Sewerage System. A detailed review of the proposed servicing option will need to be conducted in consultation with the Region of York to determine infrastructure planning impacts.

Appendix A: 2023 Water Supply Syst Provides financing details for capital projects propo	t <b>em Capit</b> sed in 2023.	al Projects (\$ See Appendix B	<b>,000's)</b> for the compreh	ensive 2023 ca	apital budget and :	2024-2032 fore	cast								
			·				Proposed Fina	ncing				2023	Proposed		Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
Water Supply System															
Linear Infrastructure															
1 R.R. 2A (Centre St.) from Athol St. to Adelaide Ave., Oshawa	-	-	-	-	-	-	-	-	-	-	250	250	1,860	-	2,110
2 R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville	-	-	-	-	-	-	-	-	-	-	100	100	200	3,100	3,400
6 R.R. 22 (Bloor St.) from east of Harmony Rd. to Grandview St., Oshawa	-	-	-	-	-	-	-	-	-	-	100	100	50	1,350	1,500
7 R.R. 22 (Victoria St.) from Thickson Rd. to South Blair St.	-	-	-	-	-	-	-	-	-	-	80	80	550	-	630
20 R.R. 56 (Farewell St.) from Harbour Rd. to Bloor St., Oshawa	-	-	-	-	-	-	-	-	-	-	800	800	200	-	1,000
Replacement of watermain on R.R. 56 21 (Farewell St.) from Canadian National Railway to Bloor St., Oshawa	-	-	-	-	-	-	-	-	-	-	385	385	830	-	1,215
Area Municipality Road Program - Replacement of deficient watermains and/or construction of required works in conjunction with the City of Oshawa Road Program	-	-	-	-	-	-	-	-	-	-	900	900	450	9,900	11,250
Area Municipality Road Program - Replacement of deficient watermains and/or 32 construction of required works in conjunction with the Municipality of Clarington Road Program	-	-	-	-	-	-	-	-	-	-	1,385	1,385	-	3,330	4,715
Area Municipality Road Program - Replacement of deficient watermains and/or construction of required works in conjunction with the Township of Scugog Road Program	-	-	-	-	-	-	-	-	-	-	200	200	525	1,768	2,493

Appendix A: 2023 Water Supply Syst Provides financing details for capital projects propo				nensive 2023 ca	apital budget and 2	2024-2032 fore	cast								
						2023	Proposed Fina	ncing				2023	Proposed		Total
Durham Budget 82	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
Allowance for unknown requirements in 36 conjunction with area municipality road programs	-	-	-	-	-	-	-	-	-	-	200	200	-	1,800	2,000
Watermain replacement on Park Rd. S. and 39 Cubert St., in conjunction with the MTO, Oshawa	-	-	-	-	-	-	-	-	-	-	300	300	-	-	300
Water works to rectify identified system 41 deficiencies independent of road programs in various locations	-	-	-	-	-	-	-	-	-	-	400	400	-	7,800	8,200
42 Rehabilitation of existing watermains in various locations	-	-	-	-	-	-	-	-	-	-	2,400	2,400	3,000	37,000	42,400
Replacement of a watermain on Kingston 44 Rd. (Hwy No. 2) from Steeple Hill to Merritton Rd., Pickering	-	-	-	-	-	-	-	-	-	-	2,200	2,200	2,090	-	4,290
Replacement of a watermain on Kingston 45 Rd. (Hwy No. 2) from Dixie Rd. to Bainbridge Dr., Pickering	-	-	-	-	-	-	-	-	-	-	2,500	2,500	1,200	-	3,700
53 Achilles Rd. from Salem Rd. to 100 m west of Salem Rd., Ajax	-	-	-	-	-	-	-	-	-	-	80	80	210	-	290
Replacement of a watermain on Pickering 54 Beach Rd. from Foord Rd. to Hewitt Cres., Ajax	-	-	-	-	-	_	-	-	-	-	360	360	840	-	1,200
Replacement of watermain and valves on 58 Harwood Ave. from Clements Rd. to Falby Crt., Ajax	-	-	-	-	-	-	-	-	-	-	250	250	-	750	1,000
68 Erosion protection Crystal Beach Boulevard watermain, Whitby	-	-	-	-	_	-	-	-	-	-	500	500	544	5,000	6,044
69 Replacement of watermain on High St. from Mary St. to Walnut St., Whitby	-	-	-	-	-	_	-	-	-	-	260	260	465	_	725

Appendix A: 2023 Water Supply System Provides financing details for capital projects propo	tem Capit	t <b>al Projects (S</b> . See Appendix B	<b>\$,000's)</b> For the compreh	ensive 2023 ca	pital budget and	2024-2032 fore	cast								
							Proposed Fina	ncing				2023	Proposed		Total
Durham 82 Budget 82	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
71 Replacement of watermain on Belton Crt. from Michael Blvd. to S/L, Whitby	-	-	-	-	-	-	-	-	-	-	1,000	1,000	90	-	1,090
73 Replacement of watermain on Mary St. from Rossland Rd. to Robert St., Oshawa	-	-	-	2,335	-	-	-	-	-	-	-	2,335	40	-	2,375
74 Replacement of watermain on Simcoe St. from Metcalf St. to Quebec St., Oshawa	-	-	-	1,300	-	-	-	-	-	-	-	1,300	691	-	1,991
Replacement of a watermain on Simcoe St. 78 South and easement from Erie St. to Albert St., Oshawa	-	-	-	135	-	-	-	-	-	-	-	135	565	-	700
79 Replacement of a watermain on Olive Ave. from Simcoe St. to Drew St., Oshawa	-	-	-	-	-	-	-	-	-	-	385	385	2,150	-	2,535
Replacement of watermain on Highway No. 2 82 (King St. W.) from Midtown Dr. to Queen St., Oshawa	-	-	-	-	-	-	-	-	-	-	100	100	-	400	500
<sup>89</sup> Replacement of a watermain on Ritson Rd. from Annis St. to Conant St., Oshawa	-	-	-	-	-	-	-	-	-	-	290	290	100	-	390
<sup>90</sup> Replacement of a watermain on Douglas St. from Conant St. to Wolfe St., Oshawa	-	-	-	-	-	-	-	-	-	-	340	340	100	-	440
91 Replacement of watermain on Conant St. from Myers Rd. to Nelson St., Oshawa	_	_	-	-	-	-	_	_	-	-	100	100	-	390	490
Replacement of watermain on Bigelow St. from 140 m north of Kellett St. to Kellett St., Kellett St. from Bigelow St. to Simcoe St., Beech St from Simcoe St. to 60 m east of Kent St., and Kent St. from Beech St. to 100 m north of Beech St., Port Perry	-	-	-	440	_	-	_	_	-	-	-	440	300	-	740

Appendix A: 2023 Water Supply Syst Provides financing details for capital projects propo	em Capit	al Projects (\$ See Appendix B	5,000's) for the compret	nensive 2023 ca	pital budget and :	2024-2032 fore	cast								
					,		Proposed Finar	ncing				2023	Proposed		Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
109 Replacement of watermain on Jane St. from Ida St. to 220 m north of Ida St., Sunderland	-	-	-	775	-	-	-	-	-	-	-	775	200	-	975
110 Replacement of watermain on Maple St. from River St. to dead-end, Sunderland	-	-	-	146	-	-	-	-	-	-	-	146	135	-	281
113 Replacement of watermain on Centre St. from Mara Rd. to James St., Beaverton	-	-	-	50	-	-	-	-	-	-	-	50	100	650	800
Allowance for the evaluation of feedermains/watermains at creek crossings	-	-	-	-	-	-	-	-	-	-	75	75	-	300	375
Zone 2 feedermain on William Jackson Dr. & 123 Taunton Rd. from Earl Grey Ave. to Ravenscroft Rd., Pickering/ Ajax	-	-	-	-	-	_	174	6,920	-	-	806	7,900	900	_	8,800
Zone 2 feedermain on Church St. from south 124 side of the hydro right of way to Taunton Rd., Ajax	-	-	-	-	-	-	92	3,679	-	-	429	4,200	-	-	4,200
Zone 3 feedermain on Conlin Rd. from 131 Anderson St. to Thickson Rd., Whitby (Region's share only)	-	-	-	-	-	-	22	876	-	-	102	1,000	3,135	-	4,135
Zone 3 feedermain on Mid-Block Arterial 132 from Lynde Creek to Ashburn Rd., Whitby (West Loop) (Region's share only)	_	-	-	-	-	-	123	4,906	-	-	571	5,600	5,400	_	11,000
140 Watermain on Britannia Ave. from Thornton Rd. to Windfields Farm Dr., Oshawa	-	-	-	-	_	-	17	657	-	-	77	751	340	1,250	2,341
Watermain on Thornton Rd. from 100 m 143 North of Conlin Rd. within the Northwood Employment Area, Oshawa	-	-	-	_	-	_	3	131	-	-	16	150	2,122	_	2,272
Zone 1 feedermain on Lambs Rd. from Hwy 154 No. 2 (King St.) to Zone 1 Liberty Street Reservoir, Bowmanville	_	-	-	-	-	-	394	15,680	-	_	1,826	17,900	16,000	27,000	60,900

Appendix A: 2023 Water Supply System Provides financing details for capital projects proper	tem Capit sed in 2023.	t <b>al Projects (\$</b> . See Appendix B	<b>,000's)</b> for the compreh	ensive 2023 c	apital budget and	2024-2032 fore	cast								
Durham 🕄						2023	Proposed Finar	icing				2023	Proposed		Total
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
Zone 2 feedermain on Liberty St. from 158 Concession Rd. 3 and Concession Rd. 4 to Zone 2 Reservoir, Bowmanville	-	-	-	-	-	-	26	1,051	-	-	122	1,199	-	8,300	9,499
Zone 1 feedermain on Highway No. 2 (King 160 Ave.) from Rudell Rd. to 200 m west of North St., Newcastle	-	-	-	-	-	-	3	105	-	-	12	120	200	2,120	2,440
164 Water Meter installation and replacement	-	-	-	-	-	-	-	-	-	-	3,000	3,000	2,000	47,414	52,414
165 Depots - Replacement of polybutylene service connections in various locations	-	-	-	-	-	-	-	-	-	-	50	50	-	50	100
166 Replacement of lead service connection in various locations	-	-	-	-	-	-	-	-	-	-	450	450	-	29,000	29,450
167 Replacement of valves	-	-	-	-	-	-	-	-	-	-	400	400	-	6,400	6,800
168 Valve Chamber Condition Assessment and inspections	-	-	-	-	-	-	-	-	-	-	450	450	-	1,350	1,800
169 Replacement of hydrants	-	-	-	-	-	-	-	-	-	-	200	200	-	3,650	3,850
Linear Infrastucture Subtotal		· ·	-	5,181	-	-	854	34,005	-	-	24,451	64,491	47,582	200,072	312,145
Building and Structures															
172 Expansion of the Whitby Water Supply Plant from 109 MLD to 218 MLD, Whitby	-		-	-	-	-	814	8,101	-	-	4,585	13,500	27,850	234,300	275,650
175 Garrard Rd. Zone 3 Water Pumping Station - upgrades, Whitby	-		-	-	-	-	38	1,524	-	-	177	1,739	410	-	2,149

Appendix A: 2023 Water Supply System Provides financing details for capital projects proper				nensive 2023 ca	apital budget and :	2024-2032 fore	cast								
							Proposed Finar	icing					Proposed		
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	2023 Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Total Project to 2032
Proposed Whitby Zone 4 & 5 Pumping 179 Station at Duffs Rd. Reservoir and feedermain, Whitby	-		-	-	-	-	51	2,015	-	-	235	2,301	-	12,000	14,301
Proposed Zone 5 Pumping Station at 187 Harmony Rd. Reservoir and feedermain, Oshawa	-		-	-	-	-	22	876	-	-	102	1,000	1,000	10,200	12,200
Proposed Liberty Street Zone 1 Reservoir 190 11 ML and demolition of the existing elevated tank	-		-	-	-	-	286	11,472	-	-	5,442	17,200	22,100	1,500	40,800
191 Proposed Zone 2 Pumping Station at the Zone 1 Reservoir - Bowmanville	-		-	-	-	-	130	5,188	-	-	982	6,300	8,800	_	15,100
193 Newcastle Water Supply Plant - demolition of plant No. 1	-		-	-	-	-	42	417	-	-	541	1,000	300	3,400	4,700
198 Scugog Water Supply System - Alternative Water Supply Source	-		-	_	-	_	127	1,267	-	-	1,606	3,000	4,530	27,900	35,430
200 Blackstock Water Supply System - upgrades to Municipal Well No. 7	-		-	-	-	-	-	-	-	-	350	350	2,200	-	2,550
Greenbank Water Supply System - 201 Replacement of Municipal Well 1 and 6 with rehabilitation work at the pumphouse	-		-	-	-	-	-	-	-	-	1,000	1,000	-	4,000	5,000
202 Uxbridge Water Supply System - New Well and Pumphouse	-		-	-	-	-	32	319	-	-	150	501	1,500	4,220	6,221
203 Uxbridge Water Supply System - Municipal Well No. 7 Replacement	-		-	-	-	-	-	-	-	-	500	500	_	6,000	6,500
211 Beaverton - additional Water Storage from 2 ML to 4.8 ML	-		-	-	-	-	5	212	-	-	283	500	-	9,000	9,500

Appendix A: 2023 Water Supply System Provides financing details for capital projects propose	em Capit sed in 2023	tal Projects (\$ . See Appendix B	<b>,000's)</b> for the compreh	ensive 2023 ca	pital budget and 2	2024-2032 fore	cast								
							Proposed Final	ncing				2023	Proposed		Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
213 Reservoir inspections, condition assessment and minor rehabilitation works	-		-	300	-	-	-	-	-	-	-	300	-	2,400	2,700
214 Wellhead protection at Regional well sites	-		-	-	-	-	-	-	-	-	800	800	800	7,200	8,800
217 Replace Fire Panel and Smoke Detector - Ajax WSP	-	Replacement	-	-	-	-	-	-	-	-	141	141	-	-	141
220 Access Ladder Repair/Replacement Project - Various Locations	2	Replacement	-	-	-	-	-	-	-	-	15	15	-	-	15
223 Replacement of Fire System - Oshawa/Whitby Depot	-	Replacement	-	-	-	-	-	-	-	-	67	67	-	-	67
227 Widening of Existing Canopy Entrance - Sunderland Depot	-	Replacement	-	-	-	-	_	-	-	_	8	8	-	-	8
229 Roof Replacement on Vehicle Storage Bays - Orono Depot	-	Replacement	-	-	-	-	-	-	-	-	27	27	-	-	27
231 Metering Chamber Drainage - Oshawa WSP	-	Replacement	-	-	-	-	-	-	-	-	595	595	-	-	595
236 RTU's 1 2 3 4 Replacement - Oshawa WSP	1	Replacement	-	-	-	-	-	-	-	-	457	457	-	-	457
239 Renovation & Optimization - 101 Consumers	-	Replacement	_	310	-	-	-	-	-	-	-	310	-	-	310
240 Depot Rationalization - Ajax Depot Expansion	_	New	_	-	_	-		-	-	1,667	_	1,667	-	_	1,667

Appendix A: 2023 Water Supply System Provides financing details for capital projects proper				ensive 2023 ca	apital budget and	2024-2032 fore	cast								
			·				Proposed Fina	ncina					Proposed		
Durham Solution	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	2023 Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Total Project to 2032
244 Depot Rationalization - New Oshawa/Whitby Depot	-	New	-	-	-	-	-	-	-	12,667	-	12,667	-	-	12,667
248 Depot Rationalization - New Sunderland Depot	-	New	-	-	-	-	-	-	-	1,333	-	1,333	-	-	1,333
Repairs and Epoxy Coat Fleet Bay Concrete 249 Floors & Repairs to Floor Drains in Fleet Bays - Scugog Depot	-	Replacement	-	-	-	_	-	-	_	-	16	16	_	-	16
Buildings & Structures Subtotal			-	610	-	-	1,547	31,391	-	15,667	18,079	67,294	69,490	322,120	458,904
Machinery & Equipment															
251 Ajax Water Supply Plant - pump replacement with variable frequency drive	-		-	-	-	-	-	-	-	-	100	100	-	500	600
Ajax Water Supply Plant - hyochlorite feed and control system upgrades	-		-	-	-	-	-	-	-	-	600	600	100	-	700
254 Cherrywood Water Pumping Station upgrades - pumps and feedermain, Pickering	_		-	-	_	_	_	-	_	_	250	250	500	1,800	2,550
Oshawa Water Supply Plant - Replacement/rehabilitation of the sedimentation tanks, Header & Backwash valves, and piping	-		-	-	-	-	-	_	-	-	300	300	550	2,900	3,750
Taunton Rd. Water Pumping Station and 266 Reservoir - station improvements and replacement	-		-	-	-	-	-	-	-	-	500	500	200	2,300	3,000
Beaverton Water Supply Plant - upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch, Standby power, uninterrupted power supply (UPS) and Ultraviolet disinfection system	-		-	-	-	-	-	-	-	-	250	250	750	2,600	3,600
281 Emergency Generator Fuel Tank Compliance upgrades Phase 3 and Phase 4	-		-	-	-	-	-	-	-	-	400	400	17,996	-	18,396

Appendix A: 2023 Water Supply System Provides financing details for capital projects property	tem Capi osed in 2023	tal Projects (\$ . See Appendix B	, <b>000's)</b> for the compreh	ensive 2023 ca	apital budget and 2	2024-2032 fore	cast								
			· · · ·				Proposed Finar	ncing				2023	Proposed		Total
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
282 Replace Uninterrupted Power Supply (UPS) Batteries - Ajax WSP	1	Replacement	-	-	-	-	-	-	-	-	50	50	-	-	50
283 Sulphuric Acid Pump Replacement - Ajax WSP	1	Replacement	-	-	-	-	-	-	-	-	240	240	-	-	240
284 Sump Pump Systems - Ajax WSP	-	Replacement	-	-	-	-	-	-	-	-	122	122	-	-	122
287 Integrated Control Technology - Security Project - Various Locations	-	New	-	-	-	-	-	-	-	-	306	306	-	-	306
297 Pump / Motor / Mixer Repair / Replacement - Plants East	-	Replacement	-	-	-	-	-	-	-	-	80	80	-	-	80
298 Regulatory Instrumentation Replacement and Maintenance - Various Locations	-	Replacement	-	-	-	-	-	-	-	-	30	30	-	-	30
302 Bar Pullout Tester - Construction	1	New	-	-	-	-	-	-	-	-	4	4	-	-	4
303 Bench Oven - Construction	1	New	-	-	-	-	-	-	-	-	5	5	-	-	5
304 Concrete End Grinder - Construction	1	New	-	-	_	-	-	-	-	_	9	9	-	-	9
307 Gyratory Compactor/Molds/Equipment - Construction	1	New	-	-	-	-	-	-	-	-	23	23	-	-	23
309 Nuclear Densometer - Construction	1	Replacement	-	-	-	-	-	-	-	-	3	3	-	-	3

Appendix A: 2023 Water Supply Sys Provides financing details for capital projects prop	stem Capi osed in 2023	tal Projects (\$ . See Appendix B	5,000's) for the compreh	ensive 2023 c	apital budget and :	2024-2032 fore	cast								
							Proposed Final	ncing				2023	Proposed		Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
313 Chlorine Analyzers - Plants Central	3	Replacement	-	-	-	-	-	-	-	-	30	30	-	-	30
314 UPS Battery Replacements and Testing - Plants Central	40	Replacement	-	-	-	-	-	-	-	-	40	40	-	-	40
317 WSP Post Chlorinator Replacement - Oshawa WSP	1	Replacement	-	-	-	-	-	-	-	-	25	25	-	-	25
318 Replace Weigh Scale - Various Locations	4	Replacement	-	-	-	-	-	-	-	-	35	35	-	-	35
319 Tank Liners - Whitby WSP	2	Replacement	-	-	-	-	-	-	-	-	30	30	-	-	30
320 Flow Meter Replacements - WSP Pumping Stations	4	Replacement	-	-	-	-	-	-	-	-	80	80	-	-	80
321 Install Isolation Valve - Taunton Rd. Pumping Station	1	Replacement	-	-	-	-	-	-	-	-	50	50	-	-	50
323 Integrated Control Technology - Security Project - Various Locations	3	New	-	-	-	-	-	-	-	-	3	3	-	-	3
Machinery & Equipment Subtotal			-	-	-	-	-	-	-	-	3,565	3,565	20,096	10,100	33,761
Information Technology Infrastructure															
329 Standard Laptop	2	New	-	-	-	-	-	-	-	-	1	1	-	-	1
332 GIS Hardware (Monitors, Backup Devices and Other) - Data System Management	1	Replacement	-	-	-	-	-	-	-	-	5	5	-	-	5

Appendix A: 2023 Water Supply System Provides financing details for capital projects proper	tem Capit	al Projects (\$ See Appendix B	<b>,000's)</b> for the compreh	ensive 2023 ca	apital budget and 2	2024-2032 fore	cast								
🔊 Durham 🛛 🕄			2023 Proposed Financing								2023	Proposed		Total	
Durham 82 Budget 82	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
333 Power Laptop	13	New	-	-	-	-	-	-	-	-	16	16	-	-	16
334 Computers & Monitors Refresh - Financial Services	-	Replacement	-	-	-	-	-	-	-	_	149	149	-	-	149
338 Power Laptop (with Monitor)	3	New	-	-	-	-	-	-	-	-	5	5	-	-	5
340 Tablet	1	New	-	-	-	-	-	-	-	-	2	2	-	-	2
340 Tablet	1	Replacement	-	-	-	-	-	-	-	-	4	4	-	-	4
Information Technology Infrastructure Subtota	I		-	-	-	-	-	-	-	-	182	182	-	-	182
Vehicles															
349 Hybrid PHEV SUV - Oshawa/Whitby Depot	10	New	-	-	-	-	-	-	-	-	850	850	-	-	850
356 Vactor 2100 - Oshawa/Whitby Depot	1	New	-	-	-	-	-	-	-	-	395	395	-	-	395
Vehicles Subtotal			-	-	-	-	-	-	-	-	1,245	1,245	<u> </u>		1,245
Furniture & Fixtures															
364 A/V Equipment and Technology Upgrades - Various Locations	1	New	-	-	-	-	-	-	-	-	10	10	-	-	10
Furniture & Fixtures Subtotal			-	-	-	-	-	-	-	-	10	10			10

Appendix A: 2023 Water Supply Sys Provides financing details for capital projects prop	stem Capit	al Projects (\$ See Appendix B	<b>,000's)</b> for the compreh	nensive 2023 ca	pital budget and :	2024-2032 fore	cast								
Durham 🕄		New /		<b>–</b> /		2023	Proposed Finar	ncing				2023	Proposed Funding	Forecast	Total
Durham 800	Quantity	Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Prior to 2023	2024-2032	Project to 2032
Allowances & Other Provisions				Funds									2023		
365 Regional Water Supply Master Planning Study for the Regional Official Plan Review	-		-	-	-	-	6	219	-	-	25	250	900	800	1,950
367 Asset Condition Assessments - Reports for Vertical Assets	-		-	100	-	-	-	-	-	-	-	100	1,063	2,086	3,249
368 Asset Condition Assessment/ investigation for transmission pipes	-		-	182	-	-	-	-	-	-	-	182	1,037	1,780	2,999
370 Allowance for acquisition of easements	-		-	-	-	-	-	-	-	-	100	100	150	900	1,150
371 Allowance for engineering studies	-		-	-	-	-	-	-	-	-	150	150	-	1,950	2,100
375 Preliminary engineering	-		-	-	-	-	-	-	-	-	100	100	-	900	1,000
376 Allowance for sundry extensions as per Council policy - Various	-		-	-	-	-	-	-	-	-	15	15	-	135	150
377 Allowance for unknown requirements	-		-	-	-	-	-	-	-	-	100	100	-	900	1,000
378 Allowance for land severance review and drawing requirements	-		-	-	-	-	-	-	-	-	100	100	-	900	1,000
Allowance for Regional share for works in 379 conjunction with residential subdivision development	-		-	-	-	_	44	1,752	-	<u> </u>	204	2,000	-	18,000	20,000

Appendix A: 2023 Water Supply System Provides financing details for capital projects proper				ensive 2023 ca	pital budget and 2	2024-2032 fore	cast								
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	<b>2023</b> Institutional DCs	Proposed Finar Commercial DCs	ncing Residential DCs	Subsidy /Grant	Debenture	User Rate	2023 Proposed Budget	Proposed Funding Prior to 2023	Forecast 2024-2032	Total Project to 2032
380 Allowance for Regional share for works in conjunction with non-residential development	-		-	-	-	-	11	438	-	-	51	500	-	4,500	5,000
381 Well interference works	-		-	-	-	-	-	400	-	-	-	400	-	7,200	7,600
Allowances & Other Provisions Subtotal			-	282	-	-	61	2,809	-	-	845	3,997	3,150	40,051	47,198
Water Supply System Subtotal			-	6,075	-	-	2,462	68,205	-	15,666	48,376	140,784	140,318	572,343	853,445
Total Water Supply System				6,075	-	-	2,462	68,205	-	15,666	48,376	140,784	140,318	572,343	853,445

#### \* Rows and columns may not add due to rounding

\*\* Appendix A includes Reserve financing as follows:

2023 Reserve Fund

Asset Management Reserve Fund - Water 5,764

Rate Stabilization Reserve Fund - Water 311

Pre-Servicing of Employment Lands Reserve Fund - Water -Total Reserve/Reserve Fund Financing 6,075

\*\*\* Appendix A includes financing of the following development charge shortfalls as follows:

	2023
DC Shortfall	
Residential DC Shortfall	-
Commercial DC Shortfall	-
Institutional DC Shortfall	130
Industrial DC Shortfall	11,327
Total DC Shortfall	11,457

#### Shortfall Financing Source

Rate Stabilization Reserve Fund - Water -Debenture - DC Funded -

User Rate 11,457 Total Funding 11,457

			Forecast									
Durham Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total				
ater Supply												
near Infrastructure												
	Pre-Construction	-	-	-	-	-	-	-				
R.R. 2A (Centre St) from Athol St. to Adelaide Ave., Oshawa	Construction	250	-	-	-	-	-	-				
Oshawa	Total	250	-	-	-	-	-	-				
D.D. 44 (Likeway St.) from Deceline Del to King St	Pre-Construction	100	-	-	-	-	-	-				
<ul> <li>R.R. 14 (Liberty St.) from Baseline Rd. to King St.,</li> <li>Bowmanville</li> </ul>	Construction	-	-	-	3,100	-	-	3,10				
Dowinativite	Total	100	-	-	3,100	-	-	3,10				
	Pre-Construction	-	-	-	-	-	-	-				
<sup>3</sup> R.R. 16 (Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa	Construction	-	-	1,100	-	-	-	1,10				
Oshawa	Total	-	-	1,100	-	-	-	1,10				
D.D. 47 (Main Ob.) for my Obstime Ob. to Mindam Dd	Pre-Construction	-	-	-	-	-	-	-				
<ul> <li>R.R. 17 (Main St.) from Station St. to Winter Rd., Clarington</li> </ul>	Construction	-	-	760	-	-	-	70				
Clamigton	Total	-	-	760	-	-	-	70				
	Pre-Construction	-	-	-	-	-	-	-				
8 R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave., Ajax	Construction	-	-	-	-	1,900	-	1,90				
Лјал	Total	-	-	-	-	1,900	-	1,90				
	Pre-Construction	100	-	-	-	-	-	-				
<ul> <li>R.R. 22 (Bloor St.) from east of Harmony Rd. to</li> <li>Grandview St., Oshawa</li> </ul>	Construction	-	-	1,350	-	-	-	1,35				
Grandview St., Osnawa	Total	100	-	1,350	-	-	-	1,35				
	Pre-Construction	-	-	-	-	-	-	-				
<ul> <li>R.R. 22 (Victoria St.) from Thickson Rd. to South Blair</li> <li>St., Whitby</li> </ul>	Construction	80	-	-	-	-	-	-				
	Total	80	-	-	-	-	-	-				
	Pre-Construction	-	-	-	500	-	-	5				
8 R.R. 26 (Thickson Rd.) from Consumers Dr. to Dundas	Construction	-	-	-	-	-	2,900	2,90				
<sup>o</sup> St., Whitby	Total	_	-	_	500	_	2,900	3,40				

Durham 🕄					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
D.D. 26 (Thiskeen Dd.)/Mentuerth St. Culuert	Pre-Construction	-	-	-	-	-	-	-
9 R.R. 26 (Thickson Rd.)/Wentworth St. Culvert rehabilitation, Whitby	Construction	-	850	-	-	-	-	850
	Total	-	850	-	-	-	-	850
D.D. 29 (Deceland Dd.) from Dark Dd. to Simooo St	Pre-Construction	-	-	-	-	-	-	-
10 R.R. 28 (Rossland Rd.) from Park Rd. to Simcoe St., Oshawa	Construction	-	-	-	1,100	-	-	1,100
oonawa	Total	-	-	-	1,100	-	-	1,100
R.R. 28 (Rossland Rd.) from Ritson Rd. to Harmony Rd.,	Pre-Construction	-	-	-	-	-	-	-
11 Oshawa	Construction	-	-	2,380	-	-	-	2,380
	Total	-	-	2,380	-	-	-	2,380
<ul> <li>R.R. 29 (Liverpool Rd.) from Highway 401 to Kingston</li> <li>Rd. (Highway No. 2), Pickering</li> </ul>	Pre-Construction	-	-	-	-	-	-	-
	Construction	-	-	-	-	-	250	250
	Total	-	-	-	-	-	250	250
R.R. 31 (Westney Rd.) from Finley Ave. to Harwood	Pre-Construction	-	-	-	-	-	-	-
13 Ave., Ajax	Construction	-	-	-	-	-	1,230	1,230
, , , , , , , , , , , , , , , , , , ,	Total	-	-	-	-	-	1,230	1,230
P. P. 26 (Hanking St.) from Consumers Dr. to Dundes	Pre-Construction	-	270	-	-	-	-	270
<ul> <li>R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas</li> <li>St., Whitby</li> </ul>	Construction	-	-	-	150	-	500	650
	Total	-	270	-	150	-	500	920
R.R. 37 (Finch Ave.) from Altona Rd. to Brock Rd.,	Pre-Construction	-	-	-	-	500	-	500
15 Pickering	Construction	-	-	-	-	-	6,000	6,000
riokening	Total	-	-	-	-	500	6,000	6,500
D.D. 29 (Whites Dd.) from Kingston Dd. History 2 to	Pre-Construction	-	-	-	-	-	500	500
16 R.R. 38 (Whites Rd.) from Kingston Rd. Highway 2 to Finch Ave., Pickering	Construction	-	-	-	-	-	2,300	2,300
Finch Ave., Pickering =	Total	-	-	-	-	-	2,800	2,800
D.D. 52 (Thernton Dd.) from King St. to Staller Dr.	Pre-Construction	-	-	-	-	-	-	-
<ul><li>R.R. 52 (Thornton Rd.) from King St. to Stellar Dr.,</li><li>Whitby/Oshawa</li></ul>	Construction			1,330		-	-	1,330
	Total	-	-	1,330	-	-	-	1,330

Durham 🕄					Foreca	st			
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
D.D. 52 (Stavanaan Dd.) fram Hinburgy 404 to Dand St	Pre-Construction	-	-	-	-	-	-	-	
18 R.R. 53 (Stevenson Rd.) from Highway 401 to Bond St., Oshawa	Construction	-	-	-	-	1,430	-	1,430	
Oshawa	Total	-	-	-	-	1,430	-	1,430	
D.D. 52 (Stovenson Dd.) from Band St. to Baseland Dd	Pre-Construction	-	-	-	-	-	-	-	
19 R.R. 53 (Stevenson Rd.) from Bond St. to Rossland Rd., Oshawa	Construction	-	-	-	-	-	3,800	3,800	
UShawa	Total	-	-	-	-	-	3,800	3,800	
D.D. 56 (Farawall St.) from Harbour Dd. to Place St	Pre-Construction	-	-	-	-	-	-	-	
R.R. 56 (Farewell St.) from Harbour Rd. to Bloor St., Oshawa	Construction	800	-	-	-	-	-	-	
	Total	800	-	-	-	-	-	-	
21 Replacement of watermain on R.R. 56 (Farewell St.) from Canadian National Railway to Bloor St., Oshawa	Pre-Construction	-	-	-	-	-	-	-	
	Construction	385	-	-	-	-	-	-	
	Total	385	-	-	-	-	-	-	
D.D. 57 (Deursenville Aug.) from Deceline Del to	Pre-Construction	-	-	-	-	-	-	-	
<ul> <li>R.R. 57 (Bowmanville Ave.) from Baseline Rd. to</li> <li>Highway No. 2, Bowmanville</li> </ul>	Construction	-	500	-	-	-	-	500	
Highway No. 2, Dowinantine	Total	-	500	-	-	-	-	500	
D.D. 50 (Menning Dd.) (Adelaide Ave. interconnection	Pre-Construction	-	-	-	-	-	-	-	
<ul> <li>R.R. 58 (Manning Rd.) /Adelaide Ave. interconnection</li> <li>from Garrard Rd. to Thornton Rd., Whitby and Oshawa</li> </ul>	Construction	-	-	-	980	-	-	980	
nom Ganard Rd. to monitor Rd., whitby and Oshawa	Total	-	-	-	980	-	-	980	
D.D. EQ (Cilche St.) from Stavenson Dd to Simona St	Pre-Construction	-	-	-	-	-	-	-	
R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa	Construction	-	-	-	-	-	2,100	2,100	
Osliawa	Total	-	-	-	-	-	2,100	2,100	
	Pre-Construction	-	-	-	-	-	-	-	
R.R. 59 (Gibb St)./Olive Ave. Extension from Drew St. to Ritson Rd., Oshawa	Construction	-	-	-	-	-	430	430	
Ritson Rd., Oshawa	Total	-	-	-	-	-	430	430	
	Pre-Construction	-	-	-	-	-	-	-	
26 R.R. 60 (Wentworth St.) from Simcoe St. to Farewell St., Oshawa	Construction	-	665	-	-	-	-	665	
	Total	-	665	-	-	-	-	665	

Durham 🕄					Forecas	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Allowerse for waterracing in conjugation with the	Pre-Construction	-	-	-	-	-	6,000	6,000
<ul> <li>Allowance for watermains in conjunction with the</li> <li>Regional Road Program</li> </ul>	Construction	-	-	-	-	-	-	-
	Total	-	-	-	-	-	6,000	6,000
Area Municipality Road Program - Replacement of	Pre-Construction	-	275	275	275	275	1,375	2,475
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the City of Pickering Road Program	Total	-	275	275	275	275	1,375	2,475
Area Municipality Road Program - Replacement of	Pre-Construction	-	2,100	200	200	200	1,000	3,700
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the Town of Ajax Road Program	Total	-	2,100	200	200	200	1,000	3,700
Area Municipality Road Program - Replacement of	Pre-Construction	-	1,350	620	620	620	3,100	6,310
20 deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the Town of Whitby Road Program	Total	-	1,350	620	620	620	3,100	6,310
Area Municipality Road Program - Replacement of	Pre-Construction	900	1,100	1,100	1,100	1,100	5,500	9,900
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the City of Oshawa Road Program	Total	900	1,100	1,100	1,100	1,100	5,500	9,900
Area Municipality Road Program - Replacement of	Pre-Construction	1,385	370	370	370	370	1,850	3,330
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
32 works in conjunction with the Municipality of Clarington Road Program	Total	1,385	370	370	370	370	1,850	3,330
Area Municipality Road Program - Replacement of deficient watermains and/or construction of required works in conjunction with the Township of Scugog Road Program	Pre-Construction	200	229	629	130	130	650	1,768
	Construction	-	-	-	-	-	-	-
	Total	200	229	629	130	130	650	1,768

Durham 🕄					Forecas	st		
Budget SS	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Area Municipality Road Program - Replacement of	Pre-Construction	-	270	270	270	270	1,350	2,430
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the Township of Uxbridge Road Program	Total	-	270	270	270	270	1,350	2,430
Area Municipality Road Program - Replacement of	Pre-Construction	-	250	250	250	250	1,250	2,250
deficient watermains and/or construction of required	Construction	-	-	-	-	-	-	-
works in conjunction with the Township of Brock Road Program	Total	-	250	250	250	250	1,250	2,250
36 Allowance for unknown requirements in conjunction with area municipality road programs	Pre-Construction	200	200	200	200	200	1,000	1,800
	Construction	-	-	-	-	-	-	-
	Total	200	200	200	200	200	1,000	1,800
Watermain replacement at Highway 401 and Wilson Pd	Pre-Construction	-	-	-	-	-	-	-
37 Watermain replacement at Highway 401 and Wilson Rd., in conjunction with the MTO, Oshawa	Construction	-	3,000	-	-	-	-	3,000
	Total	-	3,000	-	-	-	-	3,000
38 Watermain replacement in conjunction with the Metrolinx	Pre-Construction	-	-	-	-	-	-	-
38 Toronto East Rail Corridor expansion to Bowmanville	Construction	-	-	-	3,340	-	-	3,340
	Total	-	-	-	3,340	-	-	3,340
20 Watermain replacement on Park Rd. S. and Cubert St.,	Pre-Construction	300	-	-	-	-	-	-
<sup>39</sup> in conjunction with the MTO, Oshawa	Construction	-	-	-	-	-	-	-
	Total	300	-	-	-	-	-	-
Allowance for watermains in conjunction with the MTO $\&$	Pre-Construction	-	-	200	-	250	1,950	2,400
40 Allowance for watermains in conjunction with the MTO & Go Transit projects	Construction	-	-	-	-	-	-	-
	Total	-	-	200	-	250	1,950	2,400
41 Water works to rectify identified system deficiencies independent of road programs in various locations	Pre-Construction	-	-	-	-	-	-	-
	Construction	400	800	800	800	900	4,500	7,800
	Total	400	800	800	800	900	4,500	7,800

Durham 🕄					Foreca	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Debekilitetion of oniotic numbers in a since	Pre-Construction	-	-	-	-	-	-	-
42 Rehabilitation of existing watermains in various locations.	Construction	2,400	3,000	3,000	3,500	4,000	23,500	37,000
	Total	2,400	3,000	3,000	3,500	4,000	23,500	37,000
Replacement of the watermain on Kingston Rd. (Hwy	Pre-Construction	-	-	-	-	-	-	-
43 No. 2) from Altona Rd. to Steeple Hill and Rougemount	Construction	-	-	-	-	3,000	-	3,000
Dr. from Hwy No. 2 to 100 m south, Pickering	Total	-	-	-	-	3,000	-	3,000
Poplessment of a watermain on Kingston Pd. (Huy No.	Pre-Construction	-	-	-	-	-	-	-
<ul><li>44 Replacement of a watermain on Kingston Rd. (Hwy No.</li><li>2) from Steeple Hill to Merritton Rd., Pickering</li></ul>	Construction	2,200	-	-	-	-	-	-
_,,	Total	2,200	-	-	-	-	-	
<ul><li>45 Replacement of a watermain on Kingston Rd. (Hwy No.</li><li>2) from Dixie Rd. to Bainbridge Dr., Pickering</li></ul>	Pre-Construction	-	-	-	-	-	-	-
	Construction	2,500	-	-	-	-	-	-
	Total	2,500	-	-	-	-	-	-
Replacement of watermain on Sandy Beach Rd. from	Pre-Construction	-	-	-	-	-	-	-
46 300 m north of Alyssum St. to 210 m south of Alyssum	Construction	-	300	-	-	-	-	300
St., Pickering	Total	-	300	-	-	-	-	300
Poplessment of a watermain on Payly St. from	Pre-Construction	-	-	-	-	-	-	-
47 Replacement of a watermain on Bayly St. from Westshore Blvd. to Mattins Rd., Pickering	Construction	-	-	-	2,800	-	-	2,800
Westeriele Diva. to Mattine rta., r lokering	Total	-	-	-	2,800	-	-	2,800
Watermain and value impovements at Break Pd. and	Pre-Construction	-	-	-	-	-	-	-
48 Watermain and valve impovements at Brock Rd. and Montgomery Park Rd., Pickering	Construction	-	300	-	-	-	-	300
Mongomery Function, Florening	Total	-	300	-	-	-	-	300
Deplement of a watermain on Break Dd from	Pre-Construction	-	-	-	-	-	100	100
49 Replacement of a watermain on Brock Rd. from Feldspar Crt. to Clements Rd., Pickering	Construction	-	-	-	-	-	480	480
	Total	-	-	-	-	-	580	580
50 Replacement of a watermain on Notion Rd. from Kingston Rd. to approx. 230 m South, Pickering	Pre-Construction	-	-	-	-	-	100	100
	Construction		-	-	-	-	250	250
	Total	-	-	-	-	-	350	350

Durham 🕄					Foreca	ast		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	-	-	-	150	-	150
51 Replacement of a watermain on Alliance Rd. from 20 m North of Bayly St. S. to dead-end, Pickering	Construction	-	-	-	-	-	400	400
North of Dayly of. O. to dead-end, Tickening	Total	-	-	-	-	150	400	550
Deplement of watermain on Kreene Blud, from	Pre-Construction	-	-	-	-	-	-	-
52 Replacement of watermain on Krosno Blvd. from Liverpool Rd. E. to Fanshaw Place, Pickering	Construction	-	400	-	-	-	-	400
	Total	-	400	-	-	-	-	400
Fo Replacement of watermain on Achilles Rd. from Salem	Pre-Construction	-	-	-	-	-	-	-
53 Rd. to 100 m west of Salem Rd., Ajax	Construction	80	-	-	-	-	-	-
· · · · · · · · · · · · · · · · · · ·	Total	80	-	-	-	-	-	_
<ul> <li>Replacement of a watermain on Pickering Beach Rd.</li> <li>from Foord Rd. to Hewitt Cres., Ajax</li> </ul>	Pre-Construction	-	-	-	-	-	-	-
	Construction	360	-	-	-	-	-	-
	Total	360	-	-	-	-	-	-
Bonlassment of a watermain on Coder St. from Tuder	Pre-Construction	-	-	-	-	130	-	130
55 Replacement of a watermain on Cedar St. from Tudor Ave. W. to Beatty Rd., Ajax	Construction	-	-	-	-	400	-	400
No. W. to Boardy Na., Agax	Total	-	-	-	-	530	-	530
Deplement of a watermain on Clemente Dd. E. from	Pre-Construction	-	-	-	-	-	-	-
56 Replacement of a watermain on Clements Rd. E. from Burcher Rd. E. to Dryer Dr., Ajax	Construction	-	1,450	-	-	-	-	1,450
Buroner Hu. E. to Bryer Br., Ajax	Total	-	1,450	-	-	-	-	1,450
Deplement of a watermain on Therneroff Cree, from	Pre-Construction	-	-	-	-	-	-	-
57 Replacement of a watermain on Thorncroft Cres. from Billingsgate Cres. to Billingsgate Cres., Ajax	Construction	-	750	-	-	-	-	750
Dimingogate cross to Dimingogate cross, rijax	Total	-	750	-	-	-	-	750
Doplessment of watermain and volves on Hervised Ave	Pre-Construction	250	-	-	-	-	-	-
58 Replacement of watermain and valves on Harwood Ave. from Clements Rd. to Falby Crt., Ajax	Construction	-	-	750	-	-	-	750
trom Clements Rd. to Falby Crt., Ajax –	Total	250	-	750	-	-	-	750
Deplete ment of wetermain on Mater Ot from the Milithe	Pre-Construction	-	-	-	-	-	-	-
59 Replacement of watermain on Water St. from the Whitby WSP to Breakwater SSPS, Whitby —	Construction	-	750	-	-	-	-	750
	Total	-	750	-	-	-	-	750

Durham 🕄					Forecas	t		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Deplegement of watermain on Dundes St. (I lug No. 2)	Pre-Construction	-	-	-	-	-	-	-
60 Replacement of watermain on Dundas St. (Hwy No. 2) from Lakeridge Rd. to McQuay Blvd., Whitby	Construction	-	400	-	-	-	-	400
nom Lakenage Na. to Wegday Diva., Whitby	Total	-	400	-	-	-	-	400
Replacement of watermain on Consumers Dr. from 140	Pre-Construction	-	-	-	-	200	-	200
61 m west of Thickson Rd. S to 110 m east of Sunray St.,	Construction	-	-	-	-	-	590	590
Whitby	Total	-	-	-	-	200	590	790
Replacement of watermain on Palmerston Ave. from	Pre-Construction	-	-	-	200	-	-	200
62 Centre St. to Walton Blvd., Whitby	Construction	-	-	-	-	480	-	480
	Total	-	-	-	200	480	-	680
<ul><li>Replacement of watermain on Centre St. N. from Willis</li><li>Ave. to Rossland Rd. W., Whitby</li></ul>	Pre-Construction	-	-	-	200	-	-	200
	Construction	-	-	-	-	950	-	950
	Total	-	-	-	200	950	-	1,150
Replacement of a watermain on Orchard Crt. from St.	Pre-Construction	-	-	-	-	-	100	100
64 Lawrence St. to Orchard Crt., Whitby	Construction	-	-	-	-	-	270	270
	Total	-	-	-	-	-	370	370
Replacement of watermain on Athol St. from St.	Pre-Construction	-	140	-	-	-	-	140
65 Lawrence St. to Clemence St., Whitby	Construction	-	-	-	300	-	-	300
	Total	-	140	-	300	-	-	440
Replacement of watermain on St. Lawrence St. from	Pre-Construction	-	100	-	-	-	-	100
66 Brock St. to Athol St., Whitby	Construction	-	-	-	130	-	-	130
	Total	-	100	-	130	-	-	230
ez Replacement of watermain on Byron St. North from	Pre-Construction	-	-	-	-	-	100	100
67 Willis Ave. to Starr Ave., Whitby	Construction	-	-	-	-	-	260	260
vviiiis Ave. to Starr Ave., vvnitby	Total	-	-	-	-	-	360	360
Erosion protection Crystal Beach Boulovard watermain	Pre-Construction	500	-	-	-	-	-	-
68 Erosion protection Crystal Beach Boulevard watermain, Whitby —	Construction	-	5,000	-	-	-	-	5,000
	Total	500	5,000	-	-	-	-	5,000

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Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Deplessment of watermain on Llink Ct. from Many Ct. to	Pre-Construction	-	-	-	-	-	-	-
69 Replacement of watermain on High St. from Mary St. to Walnut St., Whitby	Construction	260	-	-	-	-	-	-
	Total	260	-	-	-	-	-	-
70 Replacement of watermain on Cochrane St. from	Pre-Construction	-	300	-	-	-	-	300
<sup>70</sup> Ferguson St. to 125 m north of Beech St. W., Whitby	Construction	-	-	-	-	1,130	-	1,130
	Total	-	300	-	-	1,130	-	1,430
Replacement of watermain on Belton Court from Michael	Pre-Construction	-	-	-	-	-	-	-
Blvd to S/L, Whitby	Construction	1,000	-	-	-	-	-	-
	Total	1,000	-	-	-	-	-	-
<ul><li>Replacement of watermain on Harbour St. from Watson</li><li>Rd. to dead-end, Whitby</li></ul>	Pre-Construction	-	-	-	-	-	100	100
	Construction	-	-	-	-	-	1,000	1,000
	Total	-	-	-	-	-	1,100	1,100
72 Replacement of watermain on Mary St. from Rossland	Pre-Construction	140	-	-	-	-	-	-
73 Rd. to Robert St., Oshawa	Construction	2,195	-	-	-	-	-	-
	Total	2,335	-	-	-	-	-	-
Replacement of watermain on Simcoe St. from Metcalf	Pre-Construction	-	-	-	-	-	-	-
74 St. to Quebec St., Oshawa	Construction	1,300	-	-	-	-	-	-
	Total	1,300	-	-	-	-	-	-
Replacement of feedermain on Simcoe St. from Albert	Pre-Construction	-	500	-	-	-	-	500
75 St. to Bloor St. and Bloor St. from Simcoe St. to Albert	Construction	-	-	-	4,900	-	-	4,900
St., Oshawa	Total	-	500	-	4,900	-	-	5,400
Deplecement of a feedormain on D.D. 22 (Plear St.)	Pre-Construction	-	-	-	-	-	60	60
76 Replacement of a feedermain on R.R. 22 (Bloor St.) from Cubert St. to Oxford St., Oshawa	Construction	-	-	-	-	-	240	240
Trom Cubert St. to Oxford St., Oshawa	Total	-	-	-	-	-	300	300
Performent of a foodermain on P.P. 22 (Place Ct.)	Pre-Construction	-	-	-	-	-	-	-
77 Replacement of a feedermain on R.R. 22 (Bloor St.) from Wilson Rd. to Holland St., Oshawa —	Construction	-	100	-	-	-	-	100
	Total	-	100	-	-	-	-	100

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Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Dealessant of a weathing on Oinsees Ot Oswith and	Pre-Construction	-	-	-	-	-	-	-
78 Replacement of a watermain on Simcoe St. South and easement from Erie St. to Albert St., Oshawa	Construction	135	-	-	-	-	-	-
easement from the St. to Albert St., Oshawa	Total	135	-	-	-	-	-	-
Deplegement of a watermain on Olive Ave from Simona	Pre-Construction	-	-	-	-	-	-	-
79 Replacement of a watermain on Olive Ave from Simcoe St. to Drew St., Oshawa	Construction	385	-	-	-	-	-	-
	Total	385	-	-	-	-	-	-
Replacement of watermain on R.R. 52 (Thornton Rd.)	Pre-Construction	-	-	-	200	-	-	200
80 from South of Bloor St. under the Canadian National	Construction	-	-	-	-	200	2,300	2,500
Railway, Oshawa	Total	-	-	-	200	200	2,300	2,700
Deplegement of watermain on Highway No. 2 (King St	Pre-Construction	-	-	-	83	-	-	83
<ul> <li>Replacement of watermain on Highway No. 2 (King St.</li> <li>W.) from Garrard Rd. to Thornton Rd., Oshawa</li> </ul>	Construction	-	-	-	100	-	-	100
	Total	-	-	-	183	-	-	183
Deplegement of watermain on Highway No. 2 (King St	Pre-Construction	100	-	-	-	-	-	-
<ul><li>Replacement of watermain on Highway No. 2 (King St.</li><li>W.) from Midtown Dr. to Queen St., Oshawa</li></ul>	Construction	-	400	-	-	-	-	400
	Total	100	400	-	-	-	-	400
Replacement of watermain on Highway No. 2 (King St.	Pre-Construction	-	-	-	232	-	-	232
83 E.) from Wilson Rd. to 30 m east of Harmony Creek,	Construction	-	-	-	-	765	-	765
Oshawa	Total	-	-	-	232	765	-	997
Deplegement of watermain on Highway No. 2 (King St	Pre-Construction	-	-	-	500	-	-	500
<ul> <li>Replacement of watermain on Highway No. 2 (King St.</li> <li>E.) from Harmony Rd. to Kingsway College, Oshawa</li> </ul>	Construction	-	-	-	-	-	1,900	1,900
L.) nom Hamony Ra. to Ringsway bollogo, bollawa	Total	-	-	-	500	-	1,900	2,400
Replacement of feedermain on Ritson Rd. from Oshawa	Pre-Construction	-	-	-	-	-	-	-
85 Water Supply Plant Valve Chamber to Kawartha Ave.,	Construction	-	7,600	-	-	-	-	7,600
Oshawa	Total	-	7,600	-	-	-	-	7,600
Deplegement of a watermain on Diteon Dd. C. from	Pre-Construction	-	-	-	-	-	-	-
Replacement of a watermain on Ritson Rd. S. from Kawartha Ave. to Simcoe St. S., Oshawa —	Construction	-	-	-	2,800	-	-	2,800
	Total	-	-	-	2,800	-	-	2,800

Durham 🕄					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Danka ann ant af a suistemi an Thaimten Dil fram	Pre-Construction	-	-	-	160	-	-	160
87 Replacement of a watermain on Thornton Rd. from Adelaide Ave. to Tatra Dr., Oshawa	Construction	-	-	-	-	-	550	550
Adeialde Ave. to Tatta DI., Oshawa	Total	-	-	-	160	-	550	710
Deplement of a watermain on Adelaida Ava from	Pre-Construction	-	-	-	-	-	100	100
<ul> <li>Replacement of a watermain on Adelaide Ave. from</li> <li>Kaiser Cres. to Simcoe St., Oshawa</li> </ul>	Construction	-	-	-	-	-	220	220
	Total	-	-	-	-	-	320	320
Poplessment of a watermain on Piteon Pd. from Annia	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Replacement of a watermain on Ritson Rd. from Annis</li> <li>St. to Conant St., Oshawa</li> </ul>	Construction	290	-	-	-	-	-	-
	Total	290	-	-	-	-	-	-
Poplacement of a watermain on Douglas St. from	Pre-Construction	-	-	-	-	-	-	-
90 Replacement of a watermain on Douglas St. from Conant St. to Wolfe St., Oshawa	Construction	340	-	-	-	-	-	-
	Total	340	-	-	-	-	-	-
Penlagement of watermain on Conant St. from Myora	Pre-Construction	100	-	-	-	-	-	-
91 Replacement of watermain on Conant St. from Myers Rd. to Nelson St., Oshawa	Construction	-	-	390	-	-	-	390
	Total	100	-	390	-	-	-	390
Replacement of a watermain on Oxford St. from Malaga	Pre-Construction	-	-	340	-	-	-	340
92 Rd. to Porter St. and Porter St. from Oxford St. to Glen	Construction	-	-	-	-	1,150	-	1,150
St., Oshawa	Total	-	-	340	-	1,150	-	1,490
Replacement of watermain on Valencia Rd. from Oxford	Pre-Construction	-	-	100	-	300	-	400
93 St. to dead-end, Oshawa	Construction	-	-	-	-	-	-	-
	Total	-	-	100	-	300	-	400
Deplessment of a watermain on Analoy Crt. from	Pre-Construction	-	-	-	-	-	100	100
94 Replacement of a watermain on Ansley Crt. from Rossland Rd. to dead-end, Oshawa	Construction	-	-	-	-	-	280	280
Kossiano Ko. to dead-end, Usnawa	Total	-	-	-	-	-	380	380
Poplacement of a watermain on Wilson Rd. from	Pre-Construction	-	-	-	-	-	100	100
95 Replacement of a watermain on Wilson Rd. from Raleigh Ave. to Wentworth St., Oshawa —	Construction	-	-	-	-	-	425	425
	Total	-	-	-	-	-	525	525

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Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Replacement of watermain on East Shore Dr./Port	Pre-Construction	-	-	-	-	-	-	-
96 Darlington Rd. from Lake Rd. to Bowmanville Water	Construction	-	-	1,150	-	-	-	1,150
Supply Plant, Bowmanville	Total	-	-	1,150	-	-	-	1,150
Deplecement of watermain on Receive Dd. Fast from	Pre-Construction	-	-	150	-	-	-	150
97 Replacement of watermain on Baseline Rd. East from Liberty St. to Mearns Ave., Bowmanville	Construction	-	-	1,300	1,300	-	-	2,600
Liberty St. to Mean's Ave., Downantine	Total	-	-	1,450	1,300	-	-	2,750
Deale compart of weeksmapping on Negative Of from Willing at Of	Pre-Construction	-	-	-	-	-	-	-
98 Replacement of watermain on North St. from Wilmot St. to Concession Rd. 3, Newcastle	Construction	-	1,750	-	-	-	-	1,750
to concession r.d. 5, newcastle	Total	-	1,750	-	-	-	-	1,750
99 Replacement of watermain on Amos St. from Toronto St. to Highway 401, Newcastle	Pre-Construction	-	-	-	-	100	-	100
	Construction	-	-	-	-	210	-	210
	Total	-	-	-	-	310	-	310
	Pre-Construction	-	-	-	-	-	-	-
100 Replacement of watermain on First Ave. from Brock St. to Dominion St., Uxbridge	Construction	-	280	-	-	-	-	280
to Dominion St., Oxbridge	Total	-	280	-	-	-	-	280
	Pre-Construction	-	-	-	-	-	-	-
101 Cemetery Rd. from Toronto St to 600 m northerly - required to loop the watermain and system security	Construction	-	180	-	-	-	-	180
required to loop the watermain and system security	Total	-	180	-	-	-	-	180
	Pre-Construction	-	-	-	-	-	-	-
102 Replacement of watermain on Caleb St. from Clarke St. to Queen St., Port Perry	Construction	-	350	-	-	-	-	350
to Queen St., Fort Ferry	Total	-	350	-	-	-	-	350
Replacement of watermain on Bigelow St. from 140 m	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Replacement of watermain on Bigelow St. from 140 m north of Kellett St. to Kellett St., Kellett St. from Bigelow</li> <li>103 St. to Simcoe St., Beech St from Simcoe St. to 60 m east of Kent St., and Kent St. from Beech St. to 100 m north of Beech St., Port Perry</li> </ul>	Construction	440	-	-	-	-	-	-
	Total	440	-	-	-	-	-	-

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Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	-	-	-	-	-	-
104 Replacement of watermain on Rosa St. from Paxton St. to dead-end, Port Perry	Construction	-	-	1,250	-	-	-	1,250
to dead-end, ron reny	Total	-	-	1,250	-	-	-	1,250
Deplessment of watermein on Ottowa St. from Owen	Pre-Construction	-	-	-	150	-	-	150
105 Replacement of watermain on Ottawa St. from Queen St. to MacDonald St., Port Perry	Construction	-	-	-	730	-	-	730
St. to MacDonald St., Fort Ferry	Total	-	-	-	880	-	-	880
Dania ann an af such mu air, an Das Ot form Old Cineses	Pre-Construction	-	-	-	-	-	-	-
106 Replacement of watermain on Bay St. from Old Simcoe St. to Bigelow St., Port Perry	Construction	-	-	960	-	-	-	960
St. to bigelow St., Port Perty	Total	-	-	960	-	-	-	960
107 Replacement of watermain on Kent St. from 85 m north of Beech St. to Lakeshore Rd., Port Perry	Pre-Construction	-	-	100	-	-	-	100
	Construction	-	-	-	-	600	-	600
	Total	-	-	100	-	600	-	700
	Pre-Construction	-	-	-	-	-	75	75
108 Replacement of watermain on Perry St. from North St. to Paxton St., Port Perry	Construction	-	-	-	-	-	180	180
Faxion St., For Ferry	Total	-	-	-	-	-	255	255
	Pre-Construction	-	-	_	-	-	-	-
109 Replacement of watermain on Jane St. from Ida St. to 220 m north of Ida St., Sunderland	Construction	775	-	-	-	-	-	-
	Total	775	-	-	-	-	-	-
	Pre-Construction	-	-	_	-	-	-	-
110 Replacement of watermain on Maple St. from River St. to dead-end, Sunderland	Construction	146	-	-	-	-	-	-
to dead-end, Sundenand	Total	146	-	-	-	-	-	-
Replacement of watermain on Cameron St. from 215 m	Pre-Construction	-	-	-	-	-	-	-
111 east of McRae St. to 750 m west of R.R. 2 Simcoe St.,	Construction	-	1,650	-	-	-	-	1,650
Cannington	Total	-	1,650	-	-	-	-	1,650
	Pre-Construction	-	-	-	-	-	100	100
112 Replacement of watermain on Laidlaw St. from Cameron St. to Park St., Cannington	Construction	-	-	-	-	-	450	450
	Total	-	-	-	-	-	550	550

Durham 🕄	<b>–</b>				Forecas	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Deplessment of watermain on Centre St. from Mars Dd	Pre-Construction	50	-	-	-	-	-	-
113 Replacement of watermain on Centre St. from Mara Rd. to James St., Beaverton	Construction	-	-	650	-	-	-	650
	Total	50	-	650	-	-	-	650
Replacement of watermain on Simcoe St. from	Pre-Construction	-	-	-	-	-	-	-
114 Canadian National Railway to John St., Beaverton	Construction	-	1,340	-	-	-	-	1,340
	Total	-	1,340	-	-	-	-	1,340
Replacement of watermain on Simcoe St. from	Pre-Construction	-	-	-	-	-	-	-
115 Beaverton Water Supply Plant to 60 m west of Canadian National Railway, Beaverton	Construction	-	-	1,340	-	-	-	1,340
	Total	-	-	1,340	-	-	-	1,340
116 Replacement of watermain on James St. from Main St. to Centre St./Highland Crt., Beaverton	Pre-Construction	-	-	-	-	-	-	-
	Construction	-	580	-	-	-	-	580
	Total	-	580	-	-	-	-	580
Poplessment of watermain on King St. from Mars Bd. to	Pre-Construction	-	-	-	200	-	-	200
117 Replacement of watermain on King St. from Mara Rd. to dead-end, Beaverton	Construction	-	-	-	1,100	-	-	1,100
	Total	-	-	-	1,300	-	-	1,300
Allowance for rankacement of watermains in various	Pre-Construction	-	-	-	-	-	-	-
Allowance for replacement of watermains in various locations	Construction	-	-	-	-	-	18,966	18,966
106410113	Total	-	-	-	-	-	18,966	18,966
Allowance for the evolution of feedormaine/watermaine	Pre-Construction	-	-	-	-	-	-	-
119 Allowance for the evaluation of feedermains/watermains at creek crossings	Construction	75	75	75	75	75	-	300
	Total	75	75	75	75	75	-	300
Allowerse for construction of comission in uncomised	Pre-Construction	-	-	-	-	-	-	-
120 Allowance for construction of services in unserviced areas in response to requests or petitions	Construction	-	200	200	200	200	1,000	1,800
areas in response to requests or petitions	Total	-	200	200	200	200	1,000	1,800
121 Zone 1 feedermain on Bayly St. from Toy Ave. to Pickering Beach Rd., Pickering/Ajax —	Pre-Construction	-	-	1,500	-	-	-	1,500
	Construction	-	-	-	-	20,400	-	20,400
	Total	-	-	1,500	-	20,400	-	21,900

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Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	-	-	-	-	-	-
Zone 2 feedermain on Taunton Rd. from Westney Rd. to	Construction	-	3,000	-	-	-	-	3,000
200 m west of Harwood Ave., Ajax	Total	-	3,000	-	-	-	-	3,000
Zone 2 feedermain on William Jackson Dr. & Taunton	Pre-Construction	-	-	-	-	-	-	-
123 Rd. from Earl Grey Ave. to Ravenscroft Rd., Pickering/	Construction	7,900	-	-	-	-	-	-
Ajax	Total	7,900	-	-	-	-	-	-
Zana Ofradamasin an Ohumah Ot framasauth sida af tha	Pre-Construction	800	-	-	-	-	-	-
Zone 2 feedermain on Church St. from south side of the hydro right of way to Taunton Rd., Ajax	Construction	3,400	-	-	-	-	-	-
	Total	4,200	-	-	-	-	-	-
125 Watermain on Hunt St. from Westney Rd. to Harwood Ave., Ajax	Pre-Construction	_	-	-	-	-	-	-
	Construction	-	-	1,600	-	-	-	1,600
	Total	-	-	1,600	-	-	-	1,600
	Pre-Construction	-	-	-	-	-	-	-
126 Zone 1 feedermain from Whitby Water Supply Plant to Thornton Rd., Whitby/Oshawa	Construction	-	9,000	7,000	7,000	-	-	23,000
momon Ru., whitby/Oshawa	Total	-	9,000	7,000	7,000	-	-	23,000
	Pre-Construction	-	-	-	-	-	-	-
<sup>127</sup> Zone 1 feedermain on Manning Rd. from Anderson St. to Hydro corridor., Whitby	Construction	-	1,840	-	-	-	-	1,840
	Total	-	1,840	-	-	-	-	1,840
	Pre-Construction	-	-	-	-	600	650	1,250
<sup>128</sup> Zone 1 West Whitby feedermain on Brock St./Victoria St. to Rossland Rd., Whitby	Construction	-	-	-	-	-	-	-
to Rossiand Ru., Whitby	Total	-	-	-	-	600	650	1,250
	Pre-Construction	-	-	-	-	-	-	-
2012 Zone 3 feedermain on Garrard Rd. from north of the Mid-	Construction	-	6,400	-	-	-	-	6,400
Block Arterial to Winchester Rd., Whitby (East Loop) —	Total	-	6,400	-	-	-	-	6,400
	Pre-Construction	-	-	-	-	-	-	-
130Zone 3 feedermain on Winchester Rd. from Cachet Blvd. to Garrard Rd., Whitby (East Loop)	Construction	-	1,100	-	-	-	-	1,100
	Total	-	1,100	-	-	-	-	1,100

Durham 🕄					Forecas	st			
Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Zana 2 faadarmain an Caplin Dd. from Anderson St. ta	Pre-Construction	-	-	-	-	-	-	-	
<ul><li>Zone 3 feedermain on Conlin Rd. from Anderson St. to</li><li>Thickson Rd., Whitby (Region's share only)</li></ul>	Construction	1,000	-	-	-	-	-	-	
	Total	1,000	-	-	-	-	-	-	
Zone 3 feedermain on Mid-Block Arterial from Lynde	Pre-Construction	-	-	-	-	-	-	-	
132 Creek to Ashburn Rd., Whitby (West Loop) (Region's	Construction	5,600	-	-	-	-	-	-	
share only)	Total	5,600	-	-	-	-	-	-	
Zone 3 feedermain on Ashburn Rd. from Amanda Ave.	Pre-Construction	-	-	-	-	-	-	-	
33 to Columbus Rd., Whitby (West Loop) (Region's share	Construction	-	5,950	-	-	-	-	5,950	
only)	Total	-	5,950	-	-	-	-	5,950	
Zone 3 feedermain on Columbus Rd. from Ashburn Rd.	Pre-Construction	-	-	-	-	-	-	-	
134 to 360 m east of Ashburn Rd., Whitby (West Loop)	Construction	-	1,260	-	-	-	-	1,260	
(Region's share only)	Total	-	1,260	-	-	-	-	1,260	
Zone 3 feedermain on Columbus Rd. from Ashburn Rd.	Pre-Construction	-	-	-	-	-	-	-	
135 to Country Lane, Whitby (West Loop) (Region's Share	Construction	-	-	-	-	5,850	-	5,850	
only)	Total	-	-	-	-	5,850	-	5,850	
Zone Afoodermein frem Thickeen Dd. Zone A. water	Pre-Construction	-	-	-	-	-	-	-	
<ul> <li>Zone 4 feedermain from Thickson Rd. Zone 4 water</li> <li>pumping station to Zone 4 Reservoir, Whitby</li> </ul>	Construction	-	-	-	-	-	28,600	28,600	
pumping station to zone 4 reservoir, whitby	Total	-	-	-	-	-	28,600	28,600	
Zana Afaadamaain ay Duruday Del farma Aakkuma Del ta	Pre-Construction	-	-	-	-	-	-	-	
<sup>137</sup> Zone 4 feedermain on Brawley Rd. from Ashburn Rd. to Duffs Rd., Whitby	Construction	-	6,475	-	-	-	-	6,475	
Duris Ru., Whitby	Total	-	6,475	-	-	-	-	6,475	
Zana Afradamasin an Ashkum Del fram Draudau Del ta	Pre-Construction	-	700	-	-	-	-	700	
138 Zone 4 feedermain on Ashburn Rd. from Brawley Rd. to Mid-block., Whitby	Construction	-	-	-	-	-	8,100	8,100	
	Total	-	700	-	-	-	8,100	8,800	
	Pre-Construction	-	1,500	-	-	-	-	1,500	
<ul> <li>Zone 4 feedermain on Columbus Rd. from Thickson Rd.</li> <li>to Ritson Rd., Whitby/Oshawa</li> </ul>	Construction	-	-	-	17,900	-	-	17,900	
	Total	-	1,500	-	17,900	-	-	19,400	

Durham 🕄			Forecast			ist			
Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Materia de Driterraio Arra franz Thomster Del to	Pre-Construction	750	-	-	-	-	-	-	
Watermain on Britannia Ave. from Thornton Rd. to Windfields Farm Dr., Oshawa	Construction	-	-	1,250	-	-	-	1,250	
	Total	750	-	1,250	-	-	-	1,250	
Materia and a set of the set Minuti state Forms Dr. As	Pre-Construction	-	-	150	-	-	-	150	
Watermain on local road from Windfields Farm Dr. to Winchester Rd., Oshawa	Construction	-	-	-	1,100	-	-	1,100	
	Total	-	-	150	1,100	-	-	1,250	
Watermain on Stavenson Dd from Taynton Dd ta	Pre-Construction	-	300	-	-	-	-	300	
42 Watermain on Stevenson Rd. from Taunton Rd. to Conlin Rd., Oshawa	Construction	-	-	2,200	-	-	-	2,200	
	Total	-	300	2,200	-	-	-	2,500	
Watermain on Thornton Rd. from 100 m North of Conlin Rd. within the Northwood Employment Area, Oshawa	Pre-Construction	-	-	-	-	-	-	-	
	Construction	150	-	-	-	-	-	-	
	Total	150	-	-	-	-	-	-	
Watermain modifications in conjunction with the twinning	Pre-Construction	-	40	-	-	-	-	40	
of northwest branch of Harmony Creek sub-trunk	Construction	-	135	-	-	-	-	135	
sanitary sewer from 200 m south of Beatrice St. to Ritson Rd., Oshawa	Total	-	175	-	-	-	-	175	
	Pre-Construction	-	-	-	-	-	-	-	
Zone 3 feedermain on Conlin Rd. from Garrard Rd. to Ritson Rd.,Oshawa	Construction	-	7,525	-	9,500	-	-	17,025	
Nilson Nu.,Oshawa	Total	-	7,525	-	9,500	-	-	17,025	
	Pre-Construction	-	_	-	-	_	-	_	
Zone 3 feedermain on Conlin Rd. from Ritson Rd. to	Construction	-	-	4,000	-	-	-	4,000	
Wilson Rd., Oshawa	Total	-	-	4,000	-	-	-	4,000	
Zone 4 feedermain from Proposed Zone 4 Water 147 Pumping Station at Harmony Reservoir to Proposed Windchester Zone 4 Reservoir, Oshawa	Pre-Construction	-	-	-	-	-	-	-	
	Construction	-	-	17,000	-	-	-	17,000	
	Total	-	_	17,000	-	_	-	17,000	

Durham 🕄	E				Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	600	-	-	-	-	600
Zone 4 feedermain on Ritson Rd. from Columbus Rd. to	Construction	-	-	-	-	-	7,200	7,200
Winchester Rd., Oshawa	Total	-	600	-	-	-	7,200	7,800
	Pre-Construction	-	600	-	-	-	-	600
<sup>49</sup> Zone 4 feedermain on Winchester Rd. from Ritson Rd. to Harmony Rd., Oshawa	Construction	-	-	-	-	-	6,750	6,750
to Harmony Ru., Osnawa	Total	-	600	-	-	-	6,750	7,350
<sup>150</sup> Zone 1 feedermain on Baseline Rd. from Prestonvale Rd. to Trulls Rd., Courtice	Pre-Construction	-	-	-	-	-	-	-
	Construction	-	-	3,650	-	-	-	3,650
	Total	-	-	3,650	-	-	-	3,650
Zana 1 faadarmain an Braatanyala Dd. fram Baaalina	Pre-Construction	-	-	-	-	-	-	-
<ul><li>Zone 1 feedermain on Prestonvale Rd. from Baseline</li><li>Rd. to 950 m north of Baseline Rd., Courtice</li></ul>	Construction	-	-	1,850	-	-	-	1,850
	Total	-	-	1,850	-	-	-	1,850
Zono 1 foodormain on accoment from Townline Dd. to	Pre-Construction	-	-	-	-	-	-	-
152 Zone 1 feedermain on easement from Townline Rd. to Prestonvale Rd., Courtice	Construction	-	-	3,000	-	-	-	3,000
	Total	-	-	3,000	-	-	-	3,000
Zone 2 feedermain on Bloor St. from Townline Rd. to	Pre-Construction	-	-	-	-	-	-	-
153 Trulls Rd., Courtice	Construction	-	-	-	-	-	350	350
	Total	-	-	-	-	-	350	350
Zono 1 foodormain on Lambs Pd, from Huw No. 2 (King	Pre-Construction	-	-	-	-	-	-	-
<sup>154</sup> Zone 1 feedermain on Lambs Rd. from Hwy No. 2 (King St.) to Zone 1 Liberty Street Reservoir, Bowmanville	Construction	17,900	27,000	-	-	-	-	27,000
	Total	17,900	27,000	-	-	-	-	27,000
Zana 1. faadarmain on Pagalina Dd. from Powmanvilla	Pre-Construction	-	-	-	-	-	-	-
155Zone 1 feedermain on Baseline Rd. from BowmanvilleAve. to Liberty St., Bowmanville–	Construction	-	2,400	2,400	-	3,000	-	7,800
	Total	-	2,400	2,400	-	3,000	-	7,800
Zono 1 foodormain from Rowmanvillo Water Supply	Pre-Construction	-	500	-	500	-	-	1,000
156Zone 1 feedermain from Bowmanville Water SupplyPlant to Baseline Rd., Bowmanville—	Construction	-	-	-	-	-	10,600	10,600
	Total	-	500	-	500	-	10,600	11,600

Durham 😋					Foreca	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Zere 4 fee demonie en Deseline Del feerre Liberts Chite	Pre-Construction	-	-	-	520	-	540	1,060
157 Zone 1 feedermain on Baseline Rd. from Liberty St. to Mearns Ave., Bowmanville	Construction	-	-	-	-	-	2,500	2,500
Mean's Ave., Downantine	Total	-	-	-	520	-	3,040	3,560
Zene Oferstemenia en Liberty Ot from Oscieration Dd O	Pre-Construction	1,200	-	-	-	-	-	-
<sup>158</sup> Zone 2 feedermain on Liberty St. from Concession Rd. 3 and Concession Rd. 4 to Zone 2 Reservoir, Bowmanville	Construction	-	-	-	8,300	-	-	8,300
	Total	1,200	-	-	8,300	-	-	8,300
Zana 1 faceboursein furme Authors Otreast recompoints future	Pre-Construction	-	-	-	-	-	-	-
Zone 1 feedermain from Arthur Street reservoir to future Zone 1 water storage facility, Newcastle	Construction	-	3,200	-	-	-	-	3,200
	Total	-	3,200	-	-	-	-	3,200
Zana 4 fa a dama ain an Uinkuunu Na O (Kina Aus ) faana	Pre-Construction	120	-	-	-	-	-	-
160 Zone 1 feedermain on Highway No. 2 (King Ave.) from Rudell Rd. to 200 m west of North St., Newcastle	Construction	-	2,120	-	-	-	-	2,120
Rudeli Rd. to 200 m west of North St., Newcastle	Total	120	2,120	-	-	-	-	2,120
Zone 2 feedermain on Arthur St. from the Zone 2	Pre-Construction	-	-	-	-	-	-	-
161 pumping station to existing Andrew St. pumping station,	Construction	-	4,800	-	-	-	-	4,800
Newcastle	Total	-	4,800	-	-	-	-	4,800
	Pre-Construction	-	-	-	_	-	-	_
162 Watermain on Grady Dr. from Whitehand Cres. to North St., Newcastle	Construction	-	850	-	-	-	-	850
	Total	-	850	-	-	-	-	850
Watermain on Concession Rd. 5 to service the westerly	Pre-Construction	-	-	-	-	-	-	_
163 portion of the Beaverton Avenue Employment Area A,	Construction	-	2,450	-	-	-	-	2,450
Brock	Total	-	2,450	-	-	-	-	2,450
	Pre-Construction	-	-	-	-	-	-	-
164 Water Meter installation and replacement	Construction	3,000	2,814	3,100	4,000	5,000	32,500	47,414
	Total	3,000	2,814	3,100	4,000	5,000	32,500	47,414
165 Depots - Replacement of polybutylene service connections in various locations	Pre-Construction	-	-	-	-	-	-	-
	Construction	50	50	-	-	-	-	50
	Total	50	50	-	-	-	-	50

Durham 🕄					Foreca	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Replacement of lead service connection in various	Pre-Construction	-	-	-	-	-	-	-
166 locations	Construction	450	1,000	1,000	1,000	1,000	25,000	29,000
	Total	450	1,000	1,000	1,000	1,000	25,000	29,000
	Pre-Construction	-	-	-	-	-	-	-
167 Replacement of valves	Construction	400	450	450	500	600	4,400	6,400
	Total	400	450	450	500	600	4,400	6,400
	Pre-Construction	-	-	-	-	-	-	-
168 Valve Chamber Condition Assessment and inspections	Construction	450	450	450	450	-	-	1,350
	Total	450	450	450	450	-	-	1,350
169 Replacement of hydrants	Pre-Construction	-	-	-	-	-	-	-
	Construction	200	250	250	300	350	2,500	3,650
	Total	200	250	250	300	350	2,500	3,650
Linear Infrastructure Subtotal		64,491	134,883	74,439	84,315	59,235	233,521	586,393
Buildings and Structures								
	Pre-Construction	-	12,500	-	-	-	-	12,500
170 Expansion of the Ajax Water Supply Plant from 163.6 MLD to 327 MLD, Ajax	Construction	-	-	-	-	138,500	-	138,500
	Total	-	12,500	-	-	138,500	-	151,000
	Pre-Construction	-	1,200	-	-	-	-	1,200
171 Proposed Ajax Zone 1 Water Storage facility - 11 ML,	Construction	-	-	-	12,700	-	-	12,700
Ajax	Total	-	1,200	-	12,700	-	-	13,900
	Pre-Construction	-	-	-	-	-	-	-
172 Expansion of the Whitby Water Supply Plant from 109 MLD to 218 MLD, Whitby	Construction	13,500	15,500	-	218,800	-	-	234,300
	Total	13,500	15,500	-	218,800	-	-	234,300
<ul> <li>Whitby Water Supply Plant - Plant 1 Upgrades and Rehabilitation Works proposed works to include but not</li> <li>173 limited to building envelope improvements, filter treatment process upgrades, rehabilitation works for electrical, mechanical and process systems</li> </ul>	Pre-Construction	-	-	-	-	2,500	-	2,500
	Construction	-	-	-	-	-	17,300	17,300
	Total	-	-	-	-	2,500	17,300	19,800

Durham 🕄					Forec	ast			
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Commend Del Zones 4 Decommente Europeires forme 24 ML to	Pre-Construction	-	-	2,000	-	-	-	2,000	
174 Garrard Rd. Zone 1 Reservoir Expansion from 31 ML to 50 ML and Zone 2 pumping station expansion, Whitby	Construction	-	-	-	-	-	17,200	17,200	
	Total	-	-	2,000	-	-	17,200	19,200	
Converd Dd. Zana 2. Water Duraning Station	Pre-Construction	-	-	-	-	-	-	-	
175 Garrard Rd. Zone 3 Water Pumping Station - upgrades, Whitby	Construction	1,740	-	-	-	-	-	-	
Whitey	Total	1,740	-	-	-	-	-	-	
Thiskeen Dd. Zone 2 Water Dumming Station Evenencien	Pre-Construction	-	-	-	-	-	-	-	
76 Thickson Rd. Zone 3 Water Pumping Station Expansion to 22.7 MLD, Whitby	Construction	-	11,800	-	-	-	-	11,800	
	Total	-	11,800	-	-	-	-	11,800	
177 Proposed Zone 4 Pumping Station at the Thickson Rd. Reservoir, Whitby	Pre-Construction	-	-	-	-	-	-	-	
	Construction	-	-	1,000	-	-	-	1,000	
	Total	-	-	1,000	-	-	-	1,000	
	Pre-Construction	-	-	-	-	-	-	-	
178 Proposed Whitby Zone 4 Storage Facility - 13 ML, Whitby	Construction	-	-	35,600	-	-	-	35,600	
Whitey	Total	-	-	35,600	-	-	-	35,600	
	Pre-Construction	2,300	-	_	_	-	-	-	
179 Proposed Whitby Zone 4 & 5 Pumping Station at Duffs Rd. Reservoir and feedermain, Whitby	Construction	-	-	-	-	12,000	-	12,000	
Nu. Neservoir and recuentian, whitby	Total	2,300	-	-	-	12,000	-	12,000	
	Pre-Construction	-	-	-	-	-	-	-	
180 Oshawa Water Supply Plant - break wall modifications	Construction	-	1,120	-	-	-	-	1,120	
	Total	-	1,120	-	-	-	-	1,120	
Tourstan Dd. Zana O. Dagamain Function from 40 ML (	Pre-Construction	-	-	2,000	-	-	-	2,000	
<ul> <li>Taunton Rd. Zone 2 Reservoir Expansion from 13 ML to</li> <li>27 ML, Oshawa</li> </ul>	Construction	-	-	-	-	17,000	-	17,000	
	Total	-	-	2,000	-	17,000	-	19,000	
	Pre-Construction	-	-	2,000	-	-	-	2,000	
182 Grandview Zone 2 Pumping Station Expansion, Oshawa	Construction	-	-	-	-	8,000	-	8,000	
	Total	-	-	2,000	-	8,000	-	10,000	

Durham 🕄					Foreca	st		
Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Tourstan Dd. Zong 2. Wester Duraning Otation Function	Pre-Construction	-	1,000	-	4,000	-	-	5,000
183 from 27 ML to 75 ML, Oshawa	Construction	-	-	-	-	-	20,000	20,000
	Total	-	1,000	-	4,000	-	20,000	25,000
	Pre-Construction	-	600	-	1,500	-	-	2,100
184 Harmony Rd. Zone 3 Reservoir Expansion, Oshawa	Construction	-	-	-	-	-	6,000	6,000
	Total	-	600	-	1,500	-	6,000	8,100
Dranged Zong 4 Dumping Station at the Harmony Pd	Pre-Construction	-	-	-	-	-	-	-
185 Proposed Zone 4 Pumping Station at the Harmony Rd. Reservoir, Oshawa	Construction	-	-	8,000	-	-	-	8,000
	Total	-	-	8,000	-	-	-	8,000
186 Proposed Oshawa Zone 4 Water Storage Facility - 16 ML, Oshawa	Pre-Construction	-	-	-	-	-	-	-
	Construction	-	-	-	-	44,800	-	44,800
	Total	-	-	-	-	44,800	-	44,800
Dreneged Zene E Dumming Station at Harmony Dd	Pre-Construction	1,000	-	-	-	-	-	-
187 Proposed Zone 5 Pumping Station at Harmony Rd. Reservoir and feedermain, Oshawa	Construction	-	-	10,200	-	-	-	10,200
	Total	1,000	-	10,200	-	-	-	10,200
Llester Weter Duranian Otation and station	Pre-Construction	-	-	-	-	-	-	-
188 Hortop Water Pumping Station - pumping station replacement, Oshawa	Construction	-	-	10,600	-	-	-	10,600
Teplacement, Oshawa	Total	-	-	10,600	-	-	-	10,600
Deumenneille Mister Complex Dient Fungensien fram 20	Pre-Construction	-	-	4,000	-	-	-	4,000
189 Bowmanville Water Supply Plant Expansion from 36 MLD to 55 MLD	Construction	-	-	-	-	-	55,000	55,000
	Total	-	-	4,000	-	-	55,000	59,000
	Pre-Construction	-	-	-	-	-	-	-
190 Proposed Liberty Street Zone 1 Reservoir 11 ML and demolition of the existing elevated tank	Construction	17,200	-	-	1,500	-	-	1,500
	Total	17,200	-	-	1,500	-	-	1,500
191 Proposed Zone 2 Pumping Station at the Zone 1 Reservoir - Bowmanville	Pre-Construction	-	-	-	-	-	-	-
	Construction	6,300	-	-	-	-	-	-
	Total	6,300	-	-	-	-	-	-

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Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
	Pre-Construction	-	600	-	1,325	-	-	1,925		
192 Bowmanville Zone 2 reservoir expansion	Construction	-	-	-	-	-	7,700	7,700		
	Total	-	600	-	1,325	-	7,700	9,625		
	Pre-Construction	1,000	-	-	-	-	-	-		
193 Newcastle Water Supply Plant - demolition of plant No.1	Construction	-	3,400	-	-	-	-	3,400		
	Total	1,000	3,400	-	-	-	-	3,400		
	Pre-Construction	-	-	-	-	-	-	-		
194 Proposed Zone 1 Newcastle Reservoir 11 ML	Construction	-	-	16,500	-	-	-	16,500		
	Total	-	-	16,500	-	-	-	16,500		
195 Proposed Zone 2 Newcastle Water Pumping Station	Pre-Construction	-	-	-	-	-	-	-		
	Construction	-	-	11,200	-	-	-	11,200		
	Total	-	-	11,200	-	-	-	11,200		
	Pre-Construction	-	-	-	500	-	1,600	2,100		
196 Proposed Zone 2 Newcastle Reservoir	Construction	-	-	-	-	-	6,350	6,350		
	Total	-	-	-	500	-	7,950	8,450		
	Pre-Construction	-	-	-	-	-	1,500	1,500		
197 Proposed Zone 1 Orono Storage Facility 1 ML	Construction	-	-	-	-	-	-	-		
	Total	-	-	-	-	-	1,500	1,500		
October a Michael Complex Constants Alternatives Michael Complex	Pre-Construction	2,000	-	-	-	-	-	-		
198 Scugog Water Supply System - Alternative Water Supply Source	Construction	1,000	-	27,900	-	-	-	27,900		
Source	Total	3,000	-	27,900	-	-	-	27,900		
	Pre-Construction	-	-	-	-	-	-	-		
199 Port Perry Water Storage Facility - additional capacity 2.8 ML and watermain	Construction	-	-	16,200	-	-	-	16,200		
2.8 ML and watermain —	Total	-	-	16,200	-	-	-	16,200		
200 Blackstock Water Supply System - upgrades to Municipal Well No. 7	Pre-Construction	-	-	-	-	-	-	-		
	Construction	350	-	-	-	-	-	-		
	Total	350	-	-	-	-	-	-		

Durham 🕄	E on or differen		Forecast						
Budget S	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Greenbank Water Supply System - Replacement of	Pre-Construction	1,000	-	-	-	-	-	-	
201 Municipal Well 1 and 6 with rehabilitation work at the	Construction	-	-	-	-	-	4,000	4,000	
pumphouse	Total	1,000	-	-	-	-	4,000	4,000	
Lybridge Water Supply System New Well and	Pre-Construction	500	-	-	-	-	-	-	
Uxbridge Water Supply System - New Well and Pumphouse	Construction	-	-	4,220	-	-	-	4,220	
i umphouse	Total	500	-	4,220	-	-	-	4,220	
Lybridge Water Supply System - Municipal Wall No. 7	Pre-Construction	500	-	1,000	-	-	-	1,000	
Uxbridge Water Supply System - Municipal Well No. 7 Replacement	Construction	-	-	-	-	-	5,000	5,000	
	Total	500	-	1,000	-	-	5,000	6,000	
Expension of Quelon Lill Decension from 2.2 ML to 5.2	Pre-Construction	-	1,200	-	-	-	-	1,200	
204 Expansion of Quaker Hill Reservoir from 2.8 ML to 5.2 ML, Uxbridge	Construction	-	-	-	-	6,800	-	6,800	
	Total	-	1,200	-	-	6,800	-	8,000	
Curdenland Weter Curry, Curters, New Well and	Pre-Construction	-	-	-	-	-	-	-	
205 Sunderland Water Supply System - New Well and Pumphouse with standby power (DC602)	Construction	-	5,000	-	-	-	-	5,000	
	Total	-	5,000	-	-	-	-	5,000	
Curdenland Weter Curry, Curters, New Well and	Pre-Construction	-	-	-	-	-	7,000	7,000	
206 Sunderland Water Supply System - New Well and Pumphouse with standby power (DC603)	Construction	-	-	-	-	-	-	-	
Pumphouse with standby power (DC003)	Total	-	-	-	-	-	7,000	7,000	
Sunderland Water Supply System - Elevated Water	Pre-Construction	-	-	-	-	-	1,000	1,000	
207 Storage Tank (2.2 ML) and removal of the existing	Construction	-	-	-	-	-	8,000	8,000	
standpipe	Total	-	-	-	-	-	9,000	9,000	
	Pre-Construction	-	-	-	-	1,000	1,500	2,500	
208 Cannington Water Supply System - New Well and Pumphouse with standby power (DC601)	Construction	-	-	-	-	-	6,000	6,000	
Pumphouse with standby power (DC601)	Total	-	-	-	-	1,000	7,500	8,500	
	Pre-Construction	-	-	-	-	1,000	1,200	2,200	
209 Cannington Water Supply System - Additional Water Storage from 1.4 ML to 3.0 ML	Construction	-	-	-	-	-	8,000	8,000	
	Total	-	-	-	-	1,000	9,200	10,200	

Durham 🔀					Foreca	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	-	-	1,000	-	2,400	3,400
210 Beaverton Water Supply Plant Expansion	Construction	-	-	-	-	-	30,000	30,000
	Total	-	-	-	1,000	-	32,400	33,400
Desverten edditional Water Starsen from 2 ML to	Pre-Construction	500	-	1,000	-	-	-	1,000
211 Beaverton - additional Water Storage from 2 ML to 4.8 ML	Construction	-	-	-	-	8,000	-	8,000
	Total	500	-	1,000	-	8,000	-	9,000
	Pre-Construction	-	100	-	-	100	300	500
212 Water Tower inspections, condition assessment and rehabilitation works	Construction	-	400	-	-	400	1,200	2,000
	Total	-	500	-	-	500	1,500	2,500
213 Reservoir inspections, condition assessment and minor rehabilitation works	Pre-Construction	-	-	-	-	-	-	-
	Construction	300	-	300	300	300	1,500	2,400
	Total	300	-	300	300	300	1,500	2,400
	Pre-Construction	-	-	-	-	-	-	-
214 Wellhead protection at Regional well sites	Construction	800	800	800	800	800	4,000	7,200
	Total	800	800	800	800	800	4,000	7,200
Mater Complex Dispts - Asset Management Dama disting	Pre-Construction	-	-	-	-	-	8,000	8,000
215 Water Supply Plants - Asset Management Remediation and Rehabilitation works	Construction	-	-	-	-	-	32,500	32,500
	Total	-	-	-	-	-	40,500	40,500
	Pre-Construction	-	-	_	-	_	-	-
216 New Concrete Floor in Sign Shed - Ajax Depot	Construction	-	58	-	-	-	-	58
	Total	-	58	-	-	-	-	58
	Pre-Construction	142	-	-	-	-	-	-
217 Replace Fire Panel and Smoke Detector - Ajax WSP	Construction	-	285	-	-	-	-	285
	Total	142	285	-	-	-	-	285
	Pre-Construction	-	160	-	-	-	-	160
218 Roof Replacement - Ajax WSP	Construction	-	-	560	-	-	-	560
	Total	-	160	560	-	-	-	720

Durham 🙄					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Access Lodder Densir/Denlessment Preiset Mericus	Pre-Construction	-	-	-	-	-	-	-
220 Access Ladder Repair/Replacement Project - Various Locations	Construction	15	-	-	-	-	-	-
	Total	15	-	-	-	-	-	-
	Pre-Construction	-	-	-	-	-	-	-
221 Construction of Mezzanine in Fleet Bay 1 - Orono Depot	Construction	-	67	-	-	-	-	67
	Total	-	67	-	-	-	-	67
Thermal Class Banals for Pollup Dears and Dear	Pre-Construction	-	-	-	-	-	-	-
222 Thermal Glass Panels for Rollup Doors and Door Operators - Orono Depot	Construction	-	66	-	-	-	-	66
	Total	-	66	-	-	-	-	66
	Pre-Construction	-	-	-	-	-	-	-
223 Replacement of Fire System - Oshawa/Whitby Depot	Construction	67	-	-	-	-	-	-
	Total	67	-	-	-	-	-	-
Densire and Ensur Cast Flast Roy Constate Flasts &	Pre-Construction	-	-	-	-	-	-	-
225 Repairs and Epoxy Coat Fleet Bay Concrete Floors & Repairs to Floor Drains in Fleet Bays - Scugog Depot	Construction	-	69	-	-	-	-	69
	Total	-	69	-	-	-	-	69
Deplese Evisting Asphalt in Various Lasstian Source	Pre-Construction	-	-	10	-	-	-	10
Replace Existing Asphalt in Various Location - Scugog	Construction	-	-	-	123	-	-	123
Depot	Total	-	-	10	123	-	-	133
227 Widening of Existing Canopy Entrance - Sunderland Depot —	Pre-Construction	8	-	-	-	-	-	-
	Construction	-	42	-	-	-	-	42
	Total	8	42	-	-	-	-	42

					Fore	cast		
<b>Durham</b> Budget	Expenditure Category		2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	-	-	-	-	-	-
228 Paving of Rear Yard and Site Repairs - Orono Depot	Construction	-	-	-	-	-	122	122
	Total	-	-	-	-	-	122	122
Deef Demlessment on Vichiele Storene Device Orene	Pre-Construction	27	-	-	-	-	-	-
229 Roof Replacement on Vehicle Storage Bays - Orono Depot	Construction	-	173	-	-	-	-	173
Depot	Total	27	173	-	-	-	-	173
	Pre-Construction	-	-	-	-	-	-	-
230 Front Entrance Automatic Gate - Oshawa WSP	Construction	-	175	-	-	-	-	175
	Total	-	175	-	-	-	-	175
231 Metering Chamber Drainage - Oshawa WSP	Pre-Construction	-	-	-	-	-	-	-
	Construction	595	-	-	-	-	-	-
	Total	595	-	-	-	-	-	-
	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Rectification of Drainage Problem near Metering</li> <li>Chamber - Oshawa WSP</li> </ul>	Construction	-	-	-	-	-	231	231
Chamber - Oshawa WSF	Total	-	-	-	-	-	231	231
	Pre-Construction	-	-	-	-	-	-	-
233 Repairs to Building Envelope - Oshawa WSP	Construction	-	135	-	-	-	-	135
	Total	-	135	-	-	-	-	135
	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Replace Floor Access Panels and Sleeves - Oshawa</li> <li>WSP</li> </ul>	Construction	-	150	-	-	-	-	150
WSP	Total	-	150	-	-	-	-	150
	Pre-Construction	-	-	-	-	-	-	-
235 RTU's 1 2 3 4 Replacement - Oshawa WSP	Construction	-	1,094	-	-	-	-	1,094
	Total	-	1,094	-	-	-	-	1,094
	Pre-Construction	457	-	-	-	-	-	-
236 RTU's 1 2 3 4 Replacement - Oshawa WSP	Construction	-	-	-	-	-	-	-
	Total	457	-	-	-	-	-	-

Durham 🕄					Forec	ast		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	49	-	-	-	-	49
237 Water Damage on Window System - Oshawa WSP	Construction	-	-	107	-	-	-	107
	Total	-	49	107	-	-	-	156
	Pre-Construction	-	65	-	-	-	-	65
<ul> <li>Front Foyer Concrete Wall/Floor Repair - Bowmanville</li> <li>WSP</li> </ul>	Construction	-	-	-	-	-	-	-
WSF	Total	-	65	-	-	-	-	65
	Pre-Construction	-	-	-	-	-	-	-
239 Renovation & Optimization - 101 Consumers	Construction	310	-	-	-	-	-	-
	Total	310	-	-	-	-	-	-
240 Depot Rationalization - Ajax Depot Expansion	Pre-Construction	1,667	-	-	-	-	-	-
	Construction	-	11,667	-	-	-	-	11,667
	Total	1,667	11,667	-	-	-	-	11,667
	Pre-Construction	-	-	-	-	-	-	-
241 Installation of Fencing - Plants North - Blackstock Well #6	Construction	-	65	-	-	-	-	65
#0	Total	-	65	-	-	-	-	65
	Pre-Construction	-	-	-	-	-	73	73
242 20 Bay Cold Vehicle Storage - Orono Depot Expansion	Construction	-	-	-	-	-	1,192	1,192
	Total	-	-	-	-	-	1,265	1,265
	Pre-Construction	-	-	-	-	-	117	117
243 Salt and Brine Storage Building - Orono Depot Expansion	Construction	-	-	-	-	-	1,050	1,050
Expansion	Total	-	-	-	-	-	1,167	1,167
	Pre-Construction	12,667	1,667	-	-	-	-	1,667
244 Depot Rationalization - New Oshawa/Whitby Depot	Construction	-	-	55,000	-	-	-	55,000
	Total	12,667	1,667	55,000	-	-	-	56,667
P 245 New 16 Bay Cold Vehicle Storage - Scugog Depot Expansion	Pre-Construction	-	-	-	73	-	-	73
	Construction	-	-	-	-	993	-	993
	Total	-	-	-	73	993	-	1,066

Durham 🕄					Foreca	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
New Celt and Drine Starsen Facility Several Depat	Pre-Construction	-	-	-	100	-	-	100
246 New Salt and Brine Storage Facility - Scugog Depot Expansion	Construction	-	-	-	-	1,067	-	1,067
	Total	-	-	-	100	1,067	-	1,167
	Pre-Construction	-	-	-	93	-	-	93
247 Additional Office Space - Scugog Depot	Construction	-	-	-	-	407	-	407
	Total	-	-	-	93	407	-	500
	Pre-Construction	1,333	1,333	-	-	-	-	1,333
248 Depot Rationalization - New Sunderland Depot	Construction	-	-	14,000	-	-	-	14,000
	Total	1,333	1,333	14,000	-	-	-	15,333
Dension and Ensure Or at Elect Day, Organista Electro 8	Pre-Construction	-	-	-	-	-	-	-
Repairs and Epoxy Coat Fleet Bay Concrete Floors & Repairs to Floor Drains in Fleet Bays - Scugog Depot	Construction	16	-	-	-	-	-	-
	Total	16	-	-	-	-	-	-
Buildings and Structures Subtotal		67,294	72,540	224,197	242,814	243,667	257,035	1,040,253
Machinery & Equipment								
	Pre-Construction	-	-	-	-	-	-	-
250 Ajax Water Supply Plant - Chlorine line replacement	Construction	-	750	-	-	-	-	750
	Total	-	750	-	-	-	-	750
	Pre-Construction	100	-	-	-	-	-	-
251 Ajax Water Supply Plant - pump replacement with variable frequency drive	Construction	-	500	-	-	-	-	500
variable frequency drive	Total	100	500	-	-	-	-	500
	Pre-Construction	100	-	-	-	-	-	-
Ajax Water Supply Plant - hyochlorite feed and control	Construction	500	-	-	-	-	-	-
system upgrades	Total	600	-	-	-	-	-	-
<ul> <li>Rosebank Rd. Water Pumping Station - Station</li> <li>upgrades Electrical System Study, Grounding Study,</li> <li>Replacement of the Motor Control Centre, Diesel</li> <li>transfer switch and Standby power</li> </ul>	Pre-Construction	-	-	-	-	-	600	600
	Construction	-	-	-	-	-	2,100	2,100
	Total	-	-	-	-	-	2,700	2,700

Durham S					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Oharmana di Watan Dumanin n Otatian unang daga ang	Pre-Construction	250	-	-	-	-	-	-
254 Cherrywood Water Pumping Station upgrades - pu and feedermain, Pickering	mps Construction	-	1,800	-	-	-	-	1,800
	Total	250	1,800	-	-	-	-	1,800
Cherrywood Water Pumping Station - Station upgra	ades Pre-Construction	-	-	-	600	-	-	600
255 Electrical System Study, Grounding Study, Replace	ement Construction	-	-	-	-	2,100	-	2,100
of the Motor Control Centre, Diesel transfer switch and Standby power	and Total	-	-	-	600	2,100	-	2,700
	Pre-Construction	-	-	-	-	-	-	-
56 Finch Ave. Elevated Water Storage Tank - Recoating	ing Construction	-	65	-	-	-	-	65
	Total	-	65	-	-	-	-	65
257 Whitby Water Supply Plant - Valve Chamber upgrades	Pre-Construction	-	-	-	-	-	-	-
	des Construction	-	1,100	-	-	-	-	1,100
	Total	-	1,100	-	-	-	-	1,100
	Pre-Construction	-	-	-	-	-	-	-
Grandview Water Pumping Station - Station upgra		-	2,500	-	-	-	-	2,500
<ul> <li>Electrical System Study, Grounding Study, Replace</li> <li>of the Motor Control Centre, Diesel transfer switch,</li> <li>Standby power and Variable-frequency drive (VFD)</li> </ul>	<b>-</b>	-	2,500	-	-	-	-	2,500
	Pre-Construction	-	-	-	-	-	-	-
259 Thickson Rd. Water Pumping Station - replacemen	t of Construction	-	50	-	-	-	-	50
the motor control centre (MCC)	Total	-	50	-	-	-	-	50
	Pre-Construction	-	-	-	-	-	-	-
60 Oshawa Water Supply Plant - Valve Chamber Upgrades	rades Construction	-	-	-	-	-	1,150	1,150
	Total	-	-	-	-	-	1,150	1,150
Oshawa Water Supply Plant - Replacement/rehabilitation 261 of the sedimentation tanks, Header & Backwash valves, and piping	itation Pre-Construction	300	-	-	-	-	-	-
		-	-	-	-	-	2,900	2,900
	Total	300	-	-	-	-	2,900	2,900

# Appendix B: 2023-2032 Water Supply System Capital Forecast (\$,000's) Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2023.

	rham 🔀					Forecas	st		
	idget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Oshawa Wet		Pre-Construction	-	-	-	-	-	500	500
262 Osnawa Wat Control Centr	er Supply Plant - Replacement of the Motor	Construction	-	-	-	-	-	1,000	1,000
Control Centa	6	Total	-	-	-	-	-	1,500	1,500
Oshowa Wat	er Supply Plant - upgrading the	Pre-Construction	-	-	-	-	-	-	-
263 Uninterrunted	power supply UPS	Construction	-	-	900	-	-	-	900
uninterrupted	power supply of s	Total	-	-	900	-	-	-	900
Oshawa Wat	er Supply Plant - Rehabilitation of the filters	Pre-Construction	-	-	-	1,200	-	-	1,200
264 1 to 6		Construction	-	-	-	3,000	-	8,400	11,400
		Total	-	-	-	4,200	-	8,400	12,600
Waverly Rd.	Water Pumping Station - Station upgrades	Pre-Construction	-	-	-	-	-	-	-
265 Electrical Sys	Electrical System Study, Crounding Study, Depleasement	Construction	-	-	2,450	-	-	-	2,450
of the Motor (		Total	-	-	2,450	-	-	-	2,450
		Pre-Construction	500	-	-	-	-	-	-
266 Taunton Rd.	Water Pumping Station and Reservoir - vements and replacement	Construction	-	-	2,300	-	-	-	2,300
Station impro		Total	500	-	2,300	-	-	-	2,300
		Pre-Construction	-	-	-	-	-	-	-
267 Bowmanville	Water Supply Plant - Emergency Backwash ter bypass piping upgrades	Construction	-	-	200	-	-	-	200
piping and in	ter bypass piping upgrades	Total	-	-	200	-	-	-	200
		Pre-Construction	-	-	-	-	-	-	-
268 Bowmanville	Water Supply Plant - Filter Replacement	Construction	-	-	1,000	-	-	-	1,000
		Total	-	-	1,000	-	-	-	1,000
Powmonvillo	Zana 2 Daganyair at and by now or with	Pre-Construction	-	-	-	-	-	-	-
	Bowmanville Zone 2 Reservoir - standby power with transfer switch	Construction	-	750	-	-	-	-	750
		Total	-	750	-	-	-	-	750
Bowmanville	Bowmanville Water Supply Plant - header and pump 270 replacement with associated piping rehabilitation/replacement	Pre-Construction	-	-	-	-	-	-	-
		Construction	-	-	1,500	-	-	-	1,500
rehabilitation/		Total	-	-	1,500	-	-	-	1,500

	Durham 🕄					Forec	ast		
	Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Devene enville Wester Oversche Dieset - Oblevis e lie e	Pre-Construction	-	-	-	-	-	200	200
271	Bowmanville Water Supply Plant - Chlorine line replacement	Construction	-	-	-	-	-	1,400	1,400
	ториостисти	Total	-	-	-	-	-	1,600	1,600
	Newcastle Water Supply Plant - Chlorine line	Pre-Construction	-	-	-	-	-	200	200
272	replacement	Construction	-	-	-	-	-	1,400	1,400
	торисствени	Total	-	-	-	-	-	1,600	1,600
	Newtonville Water Pumping Station - Station upgrades	Pre-Construction	-	-	-	-	-	600	600
273	Electrical System Study, Grounding Study, Replacement	Construction	-	-	-	-	-	2,000	2,000
210	of the Motor Control Centre, Diesel transfer switch and Standby power	Total	-	-	-	-	-	2,600	2,600
	Orono Water Supply System - upgrades Electrical System Study, Grounding Study, Replacement of the	Pre-Construction	-	-	-	-	-	700	700
274		Construction	-	-	-	-	-	2,200	2,200
214	Motor Control Centre, Diesel transfer switch, Standby power and uninterrupted power supply UPS	Total	-	-	-	-	-	2,900	2,900
	Mill St. Water Pumping Station - Station upgrades	Pre-Construction	-	600	-	-	-	-	600
275	Electrical System Study, Grounding Study, Replacement	Construction	-	-	-	-	-	2,000	2,000
215	of the Motor Control Centre, Diesel transfer switch and Standby power	Total	-	600	-	-	-	2,000	2,600
		Pre-Construction	-	-	-	-	-	-	-
276	Sunderland Standpipe Water Storage Tank - Recoating	Construction	-	-	800	-	-	-	800
		Total	-	-	800	-	-	-	800
	Beaverton Water Supply Plant - upgrades Electrical System Study, Grounding Study, Replacement of the Motor Control Centre, Diesel transfer switch, Standby power, uninterrupted power supply (UPS) and Ultraviolet disinfection system	Pre-Construction	250	-	-	-	-	-	-
		Construction	-	-	-	-	2,600	-	2,600
277		Total	250	-	-	-	2,600	-	2,600

Durham 🕄	<b>_</b>				Forecas	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Proverten Water Supply Plant Chloring Solution line	Pre-Construction	-	-	-	-	-	-	-
278 Beaverton Water Supply Plant - Chlorine Solution line replacement	Construction	-	-	1,000	-	-	-	1,000
	Total	-	-	1,000	-	-	-	1,000
	Pre-Construction	-	-	-	-	-	2,000	2,000
279 Beaverton Water Supply Plant - Filter modifications	Construction	-	-	-	-	-	5,000	5,000
	Total	-	-	-	-	-	7,000	7,000
	Pre-Construction	-	-	-	-	-	-	-
280 Automatic Bulk Water Dispensing System - Various	Construction	-	-	-	2,000	3,700	4,100	9,800
	Total	-	-	-	2,000	3,700	4,100	9,800
281 Emergency Generator Fuel Tank Compliance upgrades Phase 3 and Phase 4	Pre-Construction	-	-	-	-	-	-	-
	Construction	400	-	-	-	-	-	-
	Total	400	-	-	-	-	-	-
282 Replace Uninterrupted Power Supply (UPS) Batteries - Ajax WSP		50	-	-	-	-	-	-
283 Sulphuric Acid Pump Replacement - Ajax WSP		240	-	-	-	-	-	-
284 Sump Pump Systems - Ajax WSP		123	230	-	-	-	-	230
287 Integrated Control Technology - Security Project - Various Locations		307	-	-	-	-	-	-
288 48" Round Shoring - Sunderland Depot		-	3	-	-	-	3	6
290 Pipe Locator - Sunderland Depot		-	3	-	-	-	3	6
291 Pressure Washer - Sunderland Depot		-	3	3	-	-	-	6
292 Snow Fence Replacement - Sunderland Depot		-	-	-	-	-	6	6

Appendix B: 2023-2032 Water Supply System Capit Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Append			2023.					
Durham 🕄					Forecas	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
293 Temporary Traffic Control Sign replacement - Sunderland Depot		-	2	2	-	2	4	10
294 Trench box replacement - Sunderland Depot		-	-	-	-	-	5	5
295 Chlorine Analyzers - Plants East		-	-	-	30	-	30	60
296 Lab/Process Equipment - Plants East		-	-	11	-	-	-	11
297 Pump / Motor / Mixer Repair / Replacement - Plants East		80	50	50	-	-	-	100
298 Regulatory Instrumentation Replacement and Maintenance - Various Locations		30	95	145	40	120	125	525
299 SCADA / Communications / UPS - Plants East		-	25	-	-	-	-	25
300 SCADA Services - Maintenance - Plants East		-	305	175	190	205	705	1,580
301 Asphalt Content Ignition Furnace - Construction		-	-	-	-	-	7	7
302 Bar Pullout Tester - Construction		4	-	-	-	-	-	-
303 Bench Oven - Construction		5	-	-	-	-	-	-
304 Concrete End Grinder - Construction		8	-	-	-	-	-	-
305 Concrete Testing Equipment - Construction		-	-	-	-	-	8	8
306 Electronic Scale - Construction		-	-	-	-	-	3	3

Appendix B: 2023-2032 Water Supply System Capital Fo Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix A for fin		1 2023.						
<b>Durham</b> S Expend	iture 2023 Proposed	Forecast						
Durnam BudgetSolutionExpend Categ		2024	2025	2026	2027	2028-2032	Forecast Total	
307 Gyratory Compactor/Molds/Equipment - Construction	22	-	-	-	-	-	-	
308 Lab Oven - Construction	-	-	-	-	-	4	4	
309 Nuclear Densometer - Construction	3	-	5	-	-	-	5	
310 Survey GPS Instrument - Construction	-	10	10	10	10	52	92	
311 Survey Total Station Replacement - Construction	-	-	-	-	-	39	39	
312 SCADA / Electrical / Communications / UPS - Plants North	-	30	-	-	-	-	30	
313 Chlorine Analyzers - Plants Central	30	30	30	30	29	60	179	
314 UPS Battery Replacements and Testing - Plants Central	40	-	-	-	-	-	-	
315 Motor Control Centre - Plants Central - Harwood	-	250	-	-	-	-	250	
316 SCADA Spare Parts/Lab Work Area - Oshawa WSP	-	11	13	-	-	-	24	
317 WSP Post Chlorinator Replacement - Oshawa WSP	25	-	-	-	-	-	-	
318 Replace Weigh Scale - Various Locations	35	-	-	-	-	-	-	
319 Tank Liners - Whitby WSP	30	-	-	-	-	-	-	
320 Flow Meter Replacements - WSP Pumping Stations	80	-	-	-	-	-	-	

Appendix B: 2023-2032 Water Supply System C Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See A			2023.						
Durham 🕄			Forecast						
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
321 Install Isolation Valve - Taunton Rd. Pumping Station		50	-	-	-	-	-	-	
322 Teleloggers - Environmental Services Design		-	5	5	5	5	20	4	
<ul> <li>Integrated Control Technology - Security Project -</li> <li>Various Locations</li> </ul>		3	-	-	-	-	-	-	
Machinery and Equipment Subtotal		3,565	9,167	10,599	7,105	8,771	39,524	75,16	
Information Technology									
324 Replacement of wireless WAN frequency Replacement		-	3,000	-	-	-	-	3,00	
325 Supervisory Control and Data Acquisition (SCADA) Plant North Improvements		-	-	-	5,500	-	-	5,50	
326 Supervisory Control and Data Acquisition (SCADA) Plant South Improvements		-	5,800	-	-	-	-	5,80	
327 Supervisory Control and Data Acquisition (SCADA) Plant East Improvements		-	-	2,800	-	-	-	2,80	
328 Fuel Management System & Infrastructure Replacement - Various Locations		-	-	216	-	-	-	21	
329 Standard Laptop		-	2	-	-	-	-		
330 PLC & Computer Scada Upgrades - Ajax WSP		-	100	-	-	-	-	10	
<ul><li>Water SCADA - Hardware, Software and</li><li>Communications - Various Locations</li></ul>		-	935	161	100	273	272	1,74	
332 GIS Hardware (Monitors, backup devices and other) - Data System Management		5	-	-	-	-	-	-	
333 Power Laptop		15	22	2	6	6	7	4	

Appendix B: 2023-2032 Water Supply System ( Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See			2023.						
Durham 🕄			Forecast						
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
334 Computers & Monitors Refresh - Financial Services		149	228	175	272	225	1,004	1,904	
335 Scanner and Wide Format Black & White Printer - Construction		-	-	-	22	-	-	22	
336 SCADA Computers - Plants Central		-	10	-	-	-	-	10	
337 SCADA Workstation - Plants Central		-	20	10	-	-	-	30	
338 Power Laptop (with Monitor)		5	7	-	-	-	-	7	
339 Tablet - Environmental Services Design		-	4	3	4	4	20	35	
340 Tablet		6	-	-	-	-	-	-	
341 Standard Laptop		1	-	-	-	-	-	-	
342 Power Laptop		1	-	-	-	-	-	-	
Information Technology Subtotal		182	10,128	3,367	5,904	508	1,303	21,210	

Appendix B: 2023-2032 Water Supply System Capital Forecast Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix A for financing deta		2023.					
<b>Durham</b> S Expenditure				Forecas	st		
Durnam BudgetSolutionExpenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Vehicles							
343 1/2 Ton Pick-up Truck - Various Locations	-	134	28	28	56	84	330
344 1 Ton High Roof Van - Ajax Depot	-	42	-	-	-	-	42
345 Forklift - Various Locations	-	25	-	-	-	-	25
346 Tractor - Ajax Depot	-	100	-	-	-	-	100
347 Rubber tire roller compaction unit - Orono Depot	-	20	-	-	-	-	20
<ul> <li>Asphalt Grinder Attachement (Skid Steer Loader) -</li> <li>Oshawa/Whitby Depot</li> </ul>	-	-	-	8	-	-	8
349 Hybrid PHEV SUV - Oshawa/Whitby Depot	850	-	-	-	-	-	-
350 Hybrid Van - Oshawa/Whitby Depot	-	17	-	-	-	-	17
351 Sidewalk Plow/Snowblower - Oshawa/Whitby Depot	-	-	-	-	-	50	50
352 Snow Blower for skid steer loader - Oshawa/Whitby Depot	-	10	-	-	-	-	10
353 Street Flusher - Oshawa/Whitby Depot	-	-	-	117	-	-	117
354 Street Sweeper attachment for Roadside Mower/Tractor - Oshawa/Whitby Depot	-	8	-	-	-	-	8
355 Tandem Axle Truck - Oshawa/Whitby Depot	-	-	-	-	-	83	83
356 Vactor 2100 - Oshawa/Whitby Depot	395	-	-	-	-	-	-

Appendix B: 2023-2032 Water Supply System Ca Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See A			2023.					
Durham 🕄					Foreca	st		
Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
357 3/4 Ton Pick Up - Scugog Depot		-	28	-	-	-	-	28
358 Backhoe with Breaker Attachment - Sunderland Depot		-	125	-	-	-	-	125
Vehicles Subtotal		1,245	509	28	153	56	217	963
Furniture and Fixtures								
359 Office Furniture - Various Locations		-	8	7	1	-	-	16
360 Parts Cabinets - Ajax Depot		-	16	-	-	-	-	16
361 Heavy Duty Steel Racking for Materials Storage Building · Orono Depot		-	65	-	-	-	-	65
362 Parts Cabinets - Oshawa/Whitby Depot		-	108	-	-	-	-	108
363 Office Chairs - Financial Services		-	1	1	1	1	4	8
364 A/V Equipment and Technology Upgrades - Various Locations		10	10	10	10	10	20	60
Furniture and Fixtures Subtotal		10	208	18	12	11	24	273

Appendix B: 2023-2032 Water Supply System Capital Fore Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix A for financing		d in 2023.					
<b>Durham</b> S Expenditur	e 2023 Proposed			Forec	ast		
Durham BudgetExpenditur Category		2024	2025	2026	2027	2028-2032	Forecast Total
Allowances & Other Provisions							
365 Regional Water Supply Master Planning Study for the Regional Official Plan Review	250	-	-	-	-	800	800
366 Emergency Planning Updating Requirements	-	100	-	-	-	-	100
367 Asset Condition Assessments - Reports for Vertical Assets	100	-	290	100	300	1,396	2,086
368 Asset Condition Assessment/ investigation for transmission pipes	182	67	245	221	227	1,020	1,780
369 Master planning energy management	-	200	-	-	200	200	600
370 Allowance for acquisition of easements	100	100	100	100	100	500	900
371 Allowance for engineering studies	150	150	300	150	300	1,050	1,950
372 Climate Change Strategy Allowance	-	150	-	-	-	-	150
<ul> <li>Allowance for Vulnerability Assessments for Water</li> <li>Supply Plants</li> </ul>	-	350	-	350	-	-	700
374 Allowance for CTC Source Water Protection Plan related to the Lake Ontario Collaborative	-	500	300	400	1,500	2,200	4,900
375 Preliminary engineering	100	100	100	100	100	500	900
376 Allowance for sundry extensions as per Council policy - Various	15	15	15	15	15	75	135
377 Allowance for unknown requirements	100	100	100	100	100	500	900
378 Allowance for land severance review and drawing requirements	100	100	100	100	100	500	900

#### Appendix B: 2023-2032 Water Supply System Capital Forecast (\$,000's)

Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2023.

Durham 🕄					Foreca	ist		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
379 Allowance for Regional share for works in conjunction with residential subdivision development		2,000	2,000	2,000	2,000	2,000	10,000	18,000
380 Allowance for Regional share for works in conjunction with non-residential development		500	500	500	500	500	2,500	4,500
381 Well interference works		400	400	400	400	1,000	5,000	7,200
Allowances & Other Provisions Subtotal		3,997	4,832	4,450	4,536	6,442	26,241	46,501
Water Supply System Subtotal		140,784	232,267	317,098	344,839	318,690	557,865	1,770,759
Total Water Supply System		140,784	232,267	317,098	344,839	318,690	557,865	1,770,759

\* Rows and columns may not add due to rounding

\*\* Pre-construction capital financing includes expenditures for land purchases, utility relocates, preliminary studies, design, etc.

\*\*\* Projects with regularly recurring expenditures include allowances, machinery and equipment, information technology, vehicles and furniture and fixtures, etc. do not include separate pre-construction and contruction capital financing

\*\*\*\* Appendix B includes financing of the following development charge shortfalls as follows:

	2023	2024	2025	2026	2027	2028 - 2032 0	Frand Total
DC Shortfall							
Residential DC Shortfall	-	23,652	56,018	152,739	67,608	86,065	386,082
Commercial DC Shortfall	-	-	-	6,000	-	-	6,000
Institutional DC Shortfall	130	186	250	898	176	418	2,058
Industrial DC Shortfall	11,327	8,636	13,802	65,173	2,998	18,365	120,301
Total DC Shortfall	11,457	32,474	70,070	224,810	70,782	104,848	514,441

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 2	e System 023. See Appel	Capital Projec	ts (\$,000's) nensive 2023 capita	al budget and 202	24-2032 forecast										
Durham 🕄						2023	Proposed Fina	ncing				2023	Proposed		Total
Durham & Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
Sanitary Sewer															
Linear Infrastructure															
R.R. 2A (Centre St). from King St. to Brock St. West, Oshawa	-	-	-	-	-	-	-	-	-	-	400	400	1,485	-	1,885
<sup>3</sup> R.R. 16 ( Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa	-	-	-	-	-	-	-	-	-	-	225	225	200	1,450	1,875
16 City of Oshawa Road Program	-	-	-	-	-	-	-	-	-	-	570	570	-	9,900	10,470
17 Municipality of Clarington Road Program	-	-	-	-	-	-	-	-	-	-	275	275	25	2,700	3,000
18 Township of Scugog Road Program	-	-	-	-	-	-	-	-	-	-	200	200	-	675	875
19 Township of Uxbridge Road Program	-	-	-	-	-	-	-	-	-	-	225	225	-	3,060	3,285
Allowance for unknown sanitary sewerage 21 requirements in conjunction with area municipality road programs in various locations	-	-	-	-	-	-	-	-	-	-	200	200	-	1,800	2,000
Sanitary sewerage works to rectify identified 24 system deficiencies independent of road programs in various locations	-	-	-	-	-	-	-	-	-	-	400	400	-	5,850	6,250
25 Rehabilitation of existing sanitary sewers in various locations	-	-	-	457	- -	-	-	-	-	-	-	457	-	7,828	8,285
Trunk Sanitary Sewer Rehabilitation from 27 Lord Elgin Park to Kingston Rd. (Highway No. 2), Ajax	-	-	-	-	-	-	-	-	-	-	250	250	-	11,000	11,250

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20				al budget and 2024	1-2032 forecast										
Durham 🕄						2023	Proposed Fina	ncing				2023	Proposed		Total
Durham Budget 82	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
Replacement of the trunk sanitary sewer from Harwood Ave. South and Edward St. through Lord Elgin Park to the intersection of Chadwick Dr. and Adams Dr., Ajax	-	-	-	1,600	-	-	-	-	-	-	-	1,600	1,705	-	3,305
29 Replacement of sanitary sewer between Birch Court and Glynn Rd., Ajax	-	-	-	-	-	-	-	-	-	-	150	150	-	500	650
30 Replacement of the sanitary sewer on High St. from Mary St. to Walnut St., Whitby	-	-	-	-	-	-	-	-	-	-	175	175	460	-	635
Replacement of sanitary sewer on Donovan 31 Cres. from Walton Blvd. to 30 m east of Walton Blvd., Whitby	-	-	-	-	-	-	-	-	_	-	215	215	-	430	645
Replacement of sanitary sewer on Olive Ave from Simcoe St. to Drew St., Oshawa	-	-	-	-	-	-	-	-	-	-	260	260	1,605	-	1,865
41 Replacement of sanitary sewer on Conant St. from Myers Rd. to Nelson St., Oshawa	-	-	-	150	-	-	-	-	-	-	-	150	-	390	540
44 Replacement of sanitary sewer on Simcoe St. from Metcalf St. to Quebec St., Oshawa	-	-	-	150	-	-	-	-	_	-	-	150	925	_	1,075
46 Replacement of sanitary sewer on Mary St. from Rossland Rd. to Robert St., Oshawa	-	-	-	2,150	-	-	-	-	-	-	-	2,150	-	-	2,150
Replacement of forcemain on Wilmot Creek 47 easement from Cobbledick Rd. to Toronto St., Newcastle	-	-	-	1,300	-	-	-	-	-	-	-	1,300	1,406	-	2,706
48 Replacement of sanitary sewer on First Ave. from Brock St. to Dominion St., Uxbridge	-	-	-	150	-	_	-	-	-	_	-	150	100	330	580
49 Evaluation of trunk sanitary sewers/gravity sewers at creek crossings	-	-	-	-	-	-	-	-	-	-	75	75	75	225	375
52 Sanitary Sewer on Meadow St. from Avalon St. to Manor Dr., Oshawa	-	-	-	-	-	_	-	-	-	_	100	100	_	260	360

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20				al budget and 202	4-2032 forecast										
Durham 🕄						2023	Proposed Finar	cing				2023	Proposed		Total
Durham 80	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
Trunk Sanitary Sewer on Kingston Rd. 57 (Highway No. 2) from east of Harwood Ave. to east of Galea Dr., Ajax	-	-	-	-	-	-	522	8,376	-	-	2,452	11,350	350	-	11,700
Thickson Rd. Sub-Trunk sanitary sewer from 59 Glengowan St. to Conlin Rd., Whitby (Region's share only)	-	-	-	-	-	-	126	2,021	-	-	591	2,738	762	-	3,500
West Brooklin Trunk Sanitary Sewer from 62 west of Cochrane St. to east of Highway No. 12, Whitby (Region's share only)	-	-	-	-	-	-	184	2,952	-	-	864	4,000	9,945	6,600	20,545
Sanitary Sewer on Thornton Rd. from Conlin 70 Rd. within the Northwood Employment Area, Oshawa	-	-	-	-	-	-	74	1,181	-	-	346	1,601	2,450	-	4,051
Twinning of northwest branch of Harmony 74 Creek Sub-Trunk Sanitary Sewer from Central Park Blvd. N. & Hillcroft St. to Beatrice St., Oshawa	-	-	-	-	-	-	-	-	-	-	150	150	-	2,520	2,670
Courtice Trunk Sanitary Sewer - Trulls Rd. 81 from Bloor St. to future Adelaide Ave., Courtice	-	-	-	-	-	-	138	2,214	-	-	648	3,000	-	52,700	55,700
Courtice Trunk Sanitary Sewer - Adelaide 82 Ave. from Trulls Rd. to Townline Rd., Courtice	-	-	-	-	1,874	-	405	6,494	-	-	26	8,799	-	53,400	62,199
Southeast Courtice Sub-Trunk Sanitary Sewer on future mid-block road from Trulls Rd. to Courtice Rd. & Courtice Rd. from mid- block to Bloor St., Courtice	-	-	-	-	-	-	244	3,911	-	-	1,145	5,300	-	-	5,300
Linear Infrastucture Subtotal			-	5,957	1,874	-	1,693	27,149	-	-	9,942	46,615	21,493	161,618	229,726

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20				al budget and 202	24-2032 forecast										
						2023	Proposed Finar	cing				2023	Proposed		Total
Durham 80	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
Building and Structures															
Harmony Creek Sanitary Sewage Pumping 101 Station - expansion and forcemain twinning, Oshawa	-		-	-	-	-	28	443	-	-	130	601	-	48,100	48,701
Expansion of the Conlin Rd. Sanitary 102 Sewage Pumping Station and twinning of the forcemain, Oshawa	-		-	-	-	-	115	1,845	-	-	540	2,500	2,802	70,700	76,002
106 Expansion of Courtice Water Pollution Control Plant from 68 MLD to 136 MLD	-		-	-	-	-	26	168	-	-	806	1,000	-	153,400	154,400
109 Newcastle Water Pollution Control Plant - Capacity Re-rating from 4 MLD to 7 MLD	-		-	-	-	-	300	1,913	-	-	1,416	3,629	19,154	-	22,783
115 Sunderland Water Pollution Control Plant - Lagoon System, Brock	-		-	-	-	-	83	527	-	-	1,390	2,000	1,000	11,000	14,000
116 River St. Sanitary Sewage Pumping Station expansion, Brock	-		_	-	-	-	50	316	-	-	834	1,200	-	4,600	5,800
117 Cannington Water Pollution Control Plant - Lagoon System, Brock	-		-	-	-	-	83	527	-	-	1,390	2,000	1,074	11,500	14,574
118 Laidlaw St. Sanitary Sewage Pumping Station expansion, Brock	-		-	-	-	-	42	264	-	-	695	1,001	-	5,200	6,201
125 Depot Rationalization - Ajax Depot Expansion	-	New	-	-	-	-	-	-	-	1,667	-	1,667	-	-	1,667
126 Building J Roof Replacement - Corbett Creek WPCP	-	Replacement	_	_	-	-	-	-	_	-	82	82	-	-	82
128 Access Ladder Repair/Replacement Project - Various Locations	-	Replacement	-	-	-	-	-	-	-	-	641	641	-	-	641
129 Replacement Fire System - Vesda - Duffin Creek WPCP	-	Replacement	623	_	_	-	_	_	_	_	177	800	-	_	800

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20	System	Capital Projec	ts (\$,000's) nensive 2023 capita	l budget and 202	24-2032 forecast										
						2023	Proposed Fina	ncing				2023	Proposed		Total
Durham Budget 82	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
130 New Furniture in Office and Lab - Expansion - Environmental Lab	-	Replacement	11	-	-	-	-	-	-	-	11	22	-	-	22
Roof Replacement on Vehicle Storage Bays - Orono Depot	-	Replacement	-	-	-	-	-	-	-	-	27	27	-	-	27
139 Replacement of Fire System - Oshawa/Whitby Depot	-	Replacement	-	-	-	-	-	-	-	-	67	67	-	-	67
141 Depot Rationalization - New Oshawa/Whitby Depot	-	New	-	-	-	-	-	-	-	12,667	-	12,667	-	-	12,667
Repairs and Epoxy Coat Fleet Bay Concrete 143 Floors & Repairs to Floor Drains in Fleet Bays - Scugog Depot	-	Replacement	-	-	-	-	-	-	-	-	7	7	-	-	7
148 Widening of Existing Canopy Entrance - Sunderland Depot	-	Replacement	-	-	-	-	-	-	-	-	8	8	-	-	8
149 Install Perimeter Fence - Pumping Stations Central - Cochrane St. SPS	-	Replacement	-	-	-	-	-	-	-	-	50	50	-	-	50
150 Renovation & Optimization - 101 Consumers	-	Replacement	-	442	-	-	-	-	-	-	-	442	-	-	442
151 Access Ladder Repair/Replacement Project - Duffin Creek WPCP	-	Replacement	454	-	-	-	-	-	-	-	128	582	-	-	582
152 Depot Rationalization - New Sunderland Depot	-	New	-	-	-	-	-	-	-	1,333	-	1,333	-	-	1,333
Buildings & Structures Subtotal			1,088	442	-	-	727	6,003	-	15,667	8,399	32,325	24,030	304,500	360,856

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 2	e System 023. See Appe	Capital Projec	c <b>ts (\$,000's)</b> hensive 2023 capital	budget and 202	4-2032 forecast										
Durham 🕄						2023	Proposed Fina	ncing				2023	Proposed		Total
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
Machinery & Equipment															
Central Duffin Creek Metering Building at 153 Valleyfarm Road and Finch Avenue meter replacement, Pickering	-		-	-	-	-	-	-	-	-	100	100	-	560	660
Duffin Creek Water Pollution Control Plant - 154 Digester mixing improvements and Motor Control Centre Replacement, Pickering	-		15,830	-	-	-	-	-	-	-	5,620	21,450	19,400	23,850	64,700
Duffin Creek Water Pollution Control Plant - 156 Remedial works and improvements in various locations throughout the plant	-		22,000	_	-	-	-	-	-	-	5,500	27,500	16,500	-	44,000
Duffin Creek Water Pollution Control Plant - 157 Ammonia-based aeration control (ABAC) for Stage 1, 2 and 3	-		800	200	-	-	-	-	-	-	_	1,000	-	5,000	6,000
Michael Blvd. Sanitary Sewerage Pumping 164 Station - replacement of the Motor Control Centre (MCC) and pump, Whitby	_		-	200	-	-	-	_	-	-	-	200	400	2,000	2,600
Hanover Sanitary Sewage Pumping Station - 165 the replacement of pumps and forcemain, Whitby	-		-	100	-	-	-	-	-	-	-	100	700	-	800
Simcoe St. Sanitary Sewerage Pumping Station - Chemical Pump addition, Oshawa	-		-	-	-	-	-	-	-	-	250	250	-	575	825
Lake Simcoe Water Pollution Control Plant - 173 Diffused Air System replacement and associated system upgrades	-		-	3,750	-	-	-	-	-	-	3,300	7,050	8,150	-	15,200
174 Lake Simcoe Water Pollution Control Plant - Replacement of Clarifier mechanisms	-		-	100	-	-	-	-	-	-	-	100	420	-	520
Lake Simcoe Water Pollution Control Plant and associated sanitary sewerage pumping stations - PLC and SCADA system upgrades	-		-	500	-	-	-	-	-	-	-	500	600	6,000	7,100

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 2				l budget and 202	24-2032 forecast										
🔊 Durham 🛛 🕄						2023	Proposed Fina	ncing				2023	Proposed		Total
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
179 Emergency Generator Fuel Tank Compliance upgrades Phase 3 and 5	-		-	-	-	-	-	-	-	-	1,700	1,700	3,364	-	5,064
181 Bar Pullout Tester - Construction	1	New	-	-	-	-	-	-	-	-	4	4	-	-	4
182 Bench Oven - Construction	1	New	-	-	-	-	-	-	-	-	5	5	-	-	5
183 Concrete End Grinder - Construction	1	New	-	-	-	-	-	-	-	-	8	8	-	-	8
186 Gyratory Compactor/Molds/Equipment - Construction	1	New	-	-	-	-	-	-	-	-	22	22	-	-	22
188 Nuclear Densometer - Construction	1	Replacement	-	-	-	-	-	-	-	-	3	3	-	-	3
195 Chemical Pump Replacement - Various Locations	2	Replacement	-	-	-	-	-	-	-	-	18	18	-	-	18
199 Grit Blower Rebuild - Courtice WPCP	1	Replacement	-	-	-	-	-	-	-	-	10	10	-	-	10
203 Analytical Balance Bench Scale - Duffin Creek WPCP	1	New	12	-	-	-	-	-	-	-	3	15	-	-	15
204 Auto Sampler Replacement - Duffin Creek	1	Replacement	20	-	-	-	-	-	-	-	5	25	-	-	25
BAS Server Replacement - Duffin Creek	1	Replacement	58	-	-	-	-	-	-	-	17	75	-	-	75
211 Chain and Flyght Replacement - Stage 3 Secondary Clarifier - Duffin Creek WPCP	1	Replacement	81	-	-	-	-	-	-	-	19	100	-	-	100
215 Dock Leveler Replacement - Duffin Creek WPCP	1	Replacement	23	-	-	-	-	-	-	-	7	30	-	-	30

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20	e System	Capital Projec	t <b>s (\$,000's)</b> nensive 2023 capital	budget and 202	24-2032 forecast										
🔊 Durham 🛛 🕄		News				2023	Proposed Fina	ncing				2023	Proposed	Francisco	Total
Durham Budget 82	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
217 DR3900 Spectrophotometer - Duffin Creek WPCP	1	New	12	-	-	-	-	-	-	-	3	15	-	-	15
224 Integrated Control Technology - Security Project - Various Locations	6	New	-	-	-	-	_	-	-	-	311	311	_	-	311
230 Polymer Building PRAP Network Upgrades - Duffin Creek WPCP	1	Replacement	31	-	-	-	-	-	-	-	9	40	-	-	40
251 Secondary Clarifier (Circular) Gearbox - Duffin Creek WPCP	2	Replacement	195	-	-	-	-	-	-	-	45	240	-	-	240
263 Biochemical Oxygen Demand (BOD) Incubators - Environmental Lab	2	Replacement	20	-	-	-	-	-	-	-	20	40	-	-	40
Biological Oxygen Demand Analyzer - Environmental Lab	1	Replacement	6	-	-	-	-	-	-	-	5	11	-	-	11
267 Centrifuge (Inorganics) - Environmental Lab	1	Replacement	6	_	-	-	-	-	-	-	6	12	-	-	12
269 Digestion Block with Controllers - Environmental Lab	4	Replacement	40	-	-	-	-	-	-	-	40	80	-	-	80
270 Dishwasher - Environmental Lab	1	Replacement	5	-	-	-	_	-	-	-	5	10	_	-	10
274 Gas Chromatograph / Mass Spectrometer / MS (Extractables) - Environmental Lab	1	Replacement	-	300	-	-	-	-	-	-	-	300	-	-	300
282 Microscope - Environmental Lab	1	Replacement	-	75	_	-	_	-	-	-	-	75	_	-	75
290 Solids Manifold - Environmental Lab	2	Replacement	10	-	-	-	-	-	-	-	10	20	-	-	20
295 Water Purification System - Environmental Lab	1	Replacement	13	-	-	-	-	-	-	-	12	25	-	-	25

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20	System	Capital Project	c <b>ts (\$,000's)</b> hensive 2023 capital	budget and 202	4-2032 forecast										
						2023	Proposed Fina	ncing				2023	Proposed		Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
298 RAS Piping - Nonquon WPCP	1	New	-	-	-	-	-	-	-	-	95	95	-	-	95
302 Backflow Preventer Device Replacement - Port Darlington WPCP	1	Replacement	-	-	-	-	-	-	-	-	29	29	-	-	29
$_{\rm 309}$ Sodium Bisulfite HVAC - Port Darlington WPCP	1	Replacement	-	-	-	-	-	-	-	-	135	135	-	-	135
318 Install AC for Blower Room - Uxbridge Brook WPCP	1	New	-	-	-	-	-	-	-	-	50	50	-	-	50
321 Electrical Equipment Replacements - WPCP Pumping Stations	1	Replacement	-	-	-	-	-	-	-	-	50	50	-	-	50
324 Integrated Control Technology - Security Project - Duffin Creek WPCP	1	New	19	-	-	-	-	-	-	-	6	25	-	-	25
Machinery & Equipment Subtotal			39,181	5,225	-	-	-	-	-	-	17,422	61,829	49,534	37,985	149,347
Information Technology Infrastructure															
SCADA System Master Plan for the sanitary 325 sewage pumping stations and implementation requirements	-		-	-	-	-	8	136	-	-	356	500	-	2,800	3,300
326 Standard Laptop	2	New	-	-	-	-	-	-	-	-	1	1	-	-	1
327 Power Laptop	12	New	-	-	-	-	-	-	-	-	13	13	-	-	13
330 GIS Hardware (Monitors, Backup Devices and Other) - Data System Management	1	Replacement	-	-	-	-	-	-	_	-	5	5	-	-	5
331 Tablet	1	New	-	-	-	-	-	-	-	-	2	2	-	-	2
331 Tablet	1	Replacement	-	-	-	_	-	-	_	-	4	4	-	-	4

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20	23. See Appe	Capital Projec	t <b>s (\$,000's)</b> ensive 2023 capita	l budget and 202	4-2032 forecast										
🔊 Durham 🛛 🕄						2023	Proposed Fina	ncing				2023	Proposed		Total
Durham 800	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
333 SCADA Programming Software Upgrade (ifix) - Duffin Creek WPCP	1	Replacement	39	-	-	-	-	-	-	-	11	50	-	-	50
334 SCADA Workstations (Desktops) - Duffin Creek WPCP	1	New	8	-	-	-	-	-	-	-	2	10	-	-	10
335 Barcode Printers - Environmental Lab	4	Replacement	4	-	-	-	-	-	-	-	4	8	-	-	8
337 LIMS Computer System - Environmental Lab	1	Replacement	-	100	-	-	-	-	-	-	-	100	-	-	100
339 Power Laptop (with Monitor) - Various Locations	3	New	-	-	-	-	-	-	-	-	5	5	-	-	5
341 Computers & Monitors Refresh - Financial Services	1	Replacement	-	-	-	-	-	_	-	-	265	265	-	-	265
Information Technology Infrastructure Subtotal			51	100	-	-	8	136	-	-	668	963		2,800	3,763
Vehicles															
357 Vactor 2100 - Oshawa/Whitby Depot	1	New	-	-	-	-	-	-	-	-	395	395	-	-	395
Vehicles Subtotal			-	-	-	-	-	-	-	-	395	395	-	-	395
Furniture & Fixtures															
360 A/V Equipment and Technology Upgrades - Various Locations	1	New	-	-	-	-	-	-	-	-	10	10	-	-	10
Furniture & Fixtures Subtotal			-	-	-	-	-	-	-	-	10	10	<u> </u>		10

Appendix C: 2023 Sanitary Sewerage Provides financing details for capital projects proposed in 20	<b>System (</b> D23. See Apper	Capital Projec	<b>ts (\$,000's)</b> nensive 2023 capita	l budget and 202	24-2032 forecast										
🔊 Durham 🛛 🕄						2023	Proposed Finar	ncing				2023	Proposed		Total
Durham Budget	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
Allowances & Other Provisions															
366 Regional Sewage Master Planning Study for the Regional Official Plan Review	-		-	-	-	-	27	443	-	-	130	600	800	800	2,200
367 Biosolids Master Plan	-		-	-	-	-	23	369	-	-	108	500	-	500	1,000
368 York Durham Sanitary Sewerage Master Plan	-		369	-	-	-	-	-	-	-	131	500	-	500	1,000
371 Asset Condition Assessments - Reports for the Vertical Assets	-		-	300	) -	-	-	-	-	-	-	300	1,503	2,400	4,203
375 Allowance for acquisition of easements	-		-	-	-	-	-	-	-	-	100	100	-	900	1,000
376 Allowance for engineering studies	-		-	-	-	-	-	-	-	-	150	150	-	1,350	1,500
378 Preliminary engineering	-		-	-	-	-	-	-	-	-	100	100	-	900	1,000
379 Allowance for sundry extensions as per Council policy	-		-	-	-	-	-	-	-	-	15	15	-	135	150
380 Allowance for unknown requirements	-		-	-	-	-	-	-	-	-	100	100	-	900	1,000
381 Allowance for land severance review and drawing requirements	-		-	_	-	-	-	-	-	-	100	100	-	900	1,000
Allowance for Regional share for works in 382 conjunction with residential subdivision development	-		-	-	-	-	92	1,476	-	-	432	2,000	-	18,000	20,000

# Appendix C: 2023 Sanitary Sewerage System Capital Projects (\$,000's) Provides financing details for capital projects proposed in 2023. See Appendix D for the comprehensive 2023 capital budget and 2024-2032 forecast

Durham 🕄	New /				2023	Proposed Finar	cing				2023	Proposed		Total	
Durham Solution	Quantity	New / Replacement	Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	User Rate	Proposed Budget	Funding Prior to 2023	Forecast 2024-2032	Project to 2032
383 Allowance for Regional share for works in conjunction with non-residential development	-		-	-	-	-	23	369	-	-	108	500	-	4,500	5,000
384 Allowance for intensification	-		-	-	-	-	16	258	-	-	76	350	-	3,150	3,500
Allowances & Other Provisions Subtotal			369	300	-	-	181	2,915	-	-	1,550	5,315	2,303	34,935	42,553
Sanitary Sewer System Subtotal			40,691	12,024	1,874	-	2,609	36,203	-	15,667	38,384	147,452	97,360	541,838	786,650
Total Sanitary Sewerage System			40,691	12,024	1,874	-	2,609	36,203	-	15,667	38,384	147,452	97,360	541,838	786,650

\* Rows and columns may not add due to rounding

\*\* Appendix C includes Other financing from York Recovery as follows:

2023 Other Recovery From York 40,691 Total Other Financing 40,691

\*\*\* Appendix C includes Reserve financing as follows:

Reserve Fund	2023
Asset Management Reserve Fund - Sewer	11,107
Rate Stabilization Reserve Fund - Sewer	442
Pre-Servicing of Employment Lands Reserve Fund - Sewer	-
Reserve Fund - Environmental Lab	475
Equipment Replacement Reserve	-
Total Reserve/Reserve Fund Financing	12,024

\*\*\*\* Appendix C includes financing of the following development charge shortfalls as follows:

-

-

	2023
DC Shortfall	
Residential DC Shortfall	0
Commercial DC Shortfall	0
Institutional DC Shortfall	169
Industrial DC Shortfall	10,215
Total DC Shortfall	10,384

#### Shortfall Funding Source

Rate Stabilization Reserve Fund\_Sewer Debenture - DC Funded User Rate 10,384 Total Funding 10,384

Appendix D: 2023-2032 Sanitary Sewerage Sys Provides a listing for all projects within the 2023 budget and nine-year capital forecast. Se			d in 2023.					
Durham 🕄	Expenditure	2023 Proposed			Foreca			Forecast
Budget REGION	Category	Budget	2024	2025	2026	2027	2028-2032	Total
Sanitary Sewerage System								
Linear Infrastructure								
P. P. 24 (Contro St) from King St to Brook St Moot	Pre-Construction	-	-	-	-	-	-	-
R.R. 2A (Centre St). from King St. to Brock St. West, Oshawa	Construction	400	-	-	-	-	-	-
Condina de la	Total	400	-	-	-	-	-	-
P. P. 14 (Liberty St.) from Papalino Pd. to King St	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>R.R. 14 (Liberty St.) from Baseline Rd. to King St., Bowmanville</li> </ul>	Construction	-	-	-	-	6,400	-	6,40
Downantino	Total	-	-	-	-	6,400	-	6,40
P.P. 16 / Piteon Pd.) from Tounton Pd. to Conlin Pd	Pre-Construction	225	-	-	-	-	-	-
R.R. 16 ( Ritson Rd.) from Taunton Rd. to Conlin Rd., Oshawa	Construction	-	-	1,450	-	-	-	1,45
Containa	Total	225	-	1,450	-	-	-	1,45
R.R. 22 (Bayly St.) from Westney Rd. to Harwood Ave.,	Pre-Construction	-	-	-	-	-	-	-
4 Ajax	Construction	-	-	-	-	2,300	-	2,30
, jan	Total	-	-	-	-	2,300	-	2,30
P.P. 26 (Henking St.) from Consumers Dr. to Dundes	Pre-Construction	-	220	-	-	-	-	22
<ul> <li>R.R. 36 (Hopkins St.) from Consumers Dr. to Dundas</li> <li>St., Whitby</li> </ul>	Construction	-	-	-	-	-	1,450	1,45
ct., trindy	Total	-	220	-	-	-	1,450	1,67
P. P. 27 (Einsch Ave.) from Altons Pd. to Prook Pd	Pre-Construction	-	-	-	70	-	-	7
<ul> <li><sup>6</sup> R.R. 37 (Finch Ave.) from Altona Rd. to Brock Rd.,</li> <li>Pickering</li> </ul>	Construction	-	-	-	-	-	120	12
	Total	-	-	-	70	-	120	19
D.D. 52 (Thornton Dd.) from King St. to Stallar Dr.	Pre-Construction	-	-	-	-	-	-	-
7 R.R. 52 (Thornton Rd.) from King St. to Stellar Dr., Oshawa	Construction	-	-	170	-	-	-	17
Containe	Total	-	-	170	-	-	-	17

Durham 🕄					Foreca	st		
Budget Region	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	-	-	-	-	-	-
8 R.R. 53 (Stevenson Rd.) from Highway 401 to Bond St.,	Construction	-	-	870	-	-	-	870
Oshawa	Total	-	-	870	-	-	-	870
	Pre-Construction	-	150	-	-	-	-	150
9 R.R. 57 (Bowmanville Ave.) from Stevens Rd. to Nash Rd., Bowmanville	Construction	-	-	-	-	-	1,100	1,100
	Total	-	150	-	-	-	1,100	1,250
R.R. 50 (Cikh St.) from Stavanson Rd. to Simona St.	Pre-Construction	-	-	-	-	-	-	-
10 R.R. 59 (Gibb St.) from Stevenson Rd. to Simcoe St., Oshawa	Construction	-	-	-	-	450	-	450
	Total	-	-	-	-	450	-	450
B.B. 50 (Cikh St.) (Olive Ave. Extension from Drew St. to	Pre-Construction	-	-	-	-	-	-	-
11 R.R. 59 (Gibb St.)/Olive Ave. Extension from Drew St. to Ritson Rd., Oshawa	Construction	-	-	-	570	-	-	570
	Total	-	-	-	570	-	-	570
Allowance for conitary cowers in conjunction with the	Pre-Construction	-	-	-	-	-	-	-
12 Allowance for sanitary sewers in conjunction with the Regional Road Program	Construction	-	-	-	300	-	8,600	8,900
	Total	-	-	-	300	-	8,600	8,900
	Pre-Construction	-	35	35	35	35	175	315
13 City of Pickering Road Program	Construction	-	200	200	200	200	1,000	1,800
	Total	-	235	235	235	235	1,175	2,115
	Pre-Construction	-	65	65	65	65	325	585
14 Town of Ajax Road Program	Construction	-	300	300	300	300	1,500	2,700
	Total	-	365	365	365	365	1,825	3,285
	Pre-Construction	-	100	100	100	100	500	900
15 Town of Whitby Road Program	Construction	-	500	500	500	500	2,500	4,500
	Total	-	600	600	600	600	3,000	5,400

Durham 🕄					Foreca	ist		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	170	200	200	200	200	1,000	1,800
16 City of Oshawa Road Program	Construction	400	900	900	900	900	4,500	8,100
	Total	570	1,100	1,100	1,100	1,100	5,500	9,900
	Pre-Construction	75	75	75	75	75	375	675
17 Municipality of Clarington Road Program	Construction	200	225	225	225	225	1,125	2,025
	Total	275	300	300	300	300	1,500	2,700
	Pre-Construction	50	10	10	10	10	50	90
18 Township of Scugog Road Program	Construction	150	65	65	65	65	325	585
	Total	200	75	75	75	75	375	675
	Pre-Construction	75	50	50	50	50	250	450
19 Township of Uxbridge Road Program	Construction	150	290	290	290	290	1,450	2,610
	Total	225	340	340	340	340	1,700	3,060
	Pre-Construction	-	30	30	30	30	150	270
20 Township of Brock Road Program	Construction	-	90	90	90	90	450	810
	Total	-	120	120	120	120	600	1,080
Allowance for unknown sanitary sewerage requirements	Pre-Construction	200	200	200	200	200	1,000	1,800
21 in conjunction with area municipality road programs in	Construction	-	-	-	-	-	-	-
various locations	Total	200	200	200	200	200	1,000	1,800
Sanitary Sewer replacement in conjunction with the	Pre-Construction	-	-	-	-	-	-	-
22 Metrolinx Toronto East Rail Corridor expansion to	Construction	-	3,100	-	-	-	-	3,100
Bowmanville	Total	-	3,100	-	-	-	-	3,100
Allowance for conitary covers in conjunction with the	Pre-Construction	-	-	-	-	-	-	-
Allowance for sanitary sewers in conjunction with the MTO & GO Transit projects	Construction	-	100	100	100	100	500	900
	Total	-	100	100	100	100	500	900
Sanitary sewerage works to rectify identified system	Pre-Construction	-	-	-	-	-	-	-
24 deficiencies independent of road programs in various	Construction	400	650	650	650	650	3,250	5,850
locations	Total	400	650	650	650	650	3,250	5,850

Durham 😤					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Dababilitation of evicting constants conversions	Pre-Construction	-	-	-	-	-	-	-
25 Rehabilitation of existing sanitary sewers in various locations	Construction	457	490	338	1,000	1,000	5,000	7,828
	Total	457	490	338	1,000	1,000	5,000	7,828
Durham York Primary Trunk Sanitary Sewer System -	<b>Pre-Construction</b>	-	-	3,000	-	-	17,375	20,375
Condition Assessment and Rehabilitation requirements	Construction	-	-	-	-	-	52,125	52,125
(CCTV inspection, minor repair and rehabilitation works to be completed on Chamber 4 to 7)	Total	-	-	3,000	-	-	69,500	72,500
	Pre-Construction	250	-	-	-	-	-	-
7 Trunk Sanitary Sewer Rehabilitation from Lord Elgin Park to Kingston Rd. (Highway No. 2),Ajax	Construction	-	1,000	-	5,000	5,000	-	11,000
Fark to Kingston Rd. (Highway No. 2), Ajax	Total	250	1,000	-	5,000	5,000	-	11,000
Replacement of the trunk sanitary sewer from Harwood	Pre-Construction	-	-	-	-	-	-	-
28 Ave. south and Edward St. through Lord Elgin Park to	Construction	1,600	-	-	-	-	-	-
the intersection of Chadwick Dr. and Adams Dr., Ajax	Total	1,600	-	-	-	-	-	-
Bankagement of conitany cower between Birch Court and	Pre-Construction	150	-	-	-	-	-	-
<ul> <li>Replacement of sanitary sewer between Birch Court and</li> <li>Glynn Road, Ajax</li> </ul>	Construction	-	500	-	-	-	-	500
	Total	150	500	-	-	-	-	500
Depleasement of the conitory cover on High St. from	Pre-Construction	-	-	-	-	-	-	-
30 Replacement of the sanitary sewer on High St. from Mary St. to Walnut St., Whitby	Construction	175	-	-	-	-	-	-
	Total	175	-	-	-	-	-	-
Penlagement of conitary sower on Densyon Cross from	Pre-Construction	215	-	-	-	-	-	-
31 Replacement of sanitary sewer on Donovan Cres. from Walton Blvd. to 30 m east of Walton Blvd., Whitby	Construction	-	430	-	-	-	-	430
	Total	215	430	-	-	-	-	430
Replacement of sanitary sewer on Water St. from the	Pre-Construction	-	-	-	-	-	-	-
32 Whitby Water Supply Plant to Breakwater Sanitary	Construction	-	920	-	-	-	-	920
Sewage Pumping Station, Whitby	Total	-	920	-	-	-	-	920

Durham 🕄					Forecas	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Deplessment of conitery couver on Hillerest Dr. from	Pre-Construction	-	-	-	-	150	-	150
<ul> <li>Replacement of sanitary sewer on Hillcrest Dr. from</li> <li>Beech St. W/L to Beech St. E/L, Whitby</li> </ul>	Construction	-	-	-	-	840	-	840
	Total	-	-	-	-	990	-	990
Poplacement of conitory cover on Athol St. from St.	Pre-Construction	-	130	-	-	-	-	130
Replacement of sanitary sewer on Athol St. from St. Lawrence St. to Clemence St., Whitby	Construction	-	-	-	300	-	-	300
	Total	-	130	-	300	-	-	430
Deplement of conitary cover on St. Lowronce St. from	Pre-Construction	-	100	-	-	-	-	100
35 Replacement of sanitary sewer on St. Lawrence St. from Brock St. to Athol St., Whitby	Construction	-	-	-	120	-	-	120
	Total	-	100	-	120	-	-	220
Deplement of conitary cover on Cochrone St. from	Pre-Construction	-	220	-	-	-	-	220
Replacement of sanitary sewer on Cochrane St. from Ferguson St. to 125 m north of Beech St. W., Whitby	Construction	-	-	1,120	-	-	-	1,120
	Total	-	220	1,120	-	-	-	1,340
Deplegement of conitary cover on D.D. 22 (Please St.)	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Replacement of sanitary sewer on R.R. 22 (Bloor St.)</li> <li>from Wilson Rd. to Holland St., Oshawa</li> </ul>	Construction	-	330	-	-	-	-	330
nom wilson tu. to nonana ot., Oshawa	Total	-	330	-	-	-	-	330
Deplessment of conitony cover on Olive Ave from	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Replacement of sanitary sewer on Olive Ave from</li> <li>Simcoe St. to Drew St., Oshawa</li> </ul>	Construction	260	-	-	-	-	-	-
Since St. to Drew St., Oshawa	Total	260	-	-	-	-	-	-
	Pre-Construction	-	-	-	-	-	100	100
39 Replacement of sanitary sewer on RR 22 (Bloor St.) from Cubert St. to Oxford St., Oshawa	Construction	-	-	-	-	-	330	330
	Total	-	-	-	-	-	430	430
	Pre-Construction	-	-	-	-	-	500	500
40 Replacement of a sanitary sewer on Thornton Rd. from Adelaide Ave. to Tatra Dr., Oshawa	Construction	-	-	-	-	-	1,000	1,000
Auciaiuc Ave. lo Talia DI., Oshawa	Total	-	-	-	-	-	1,500	1,500
	Pre-Construction	150	-	-	-	-	-	-
41 Replacement of sanitary sewer on Conant St. from Myers Rd. to Nelson St., Oshawa	Construction	-	-	390	-	-	-	390
myers ru. to reison ot., Oshawa	Total	150	-	390	-	-	-	390

Durham 🕄					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Deplessment of conitery courses on Diteon Dd. C. from	Pre-Construction	-	-	-	-	-	-	-
42 Replacement of sanitary sewer on Ritson Rd. S. from Kawartha Ave. to Simcoe Street South, Oshawa	Construction	-	675	-	-	-	-	675
	Total	-	675	-	-	-	-	675
Poplessment of conitory cover on Pitcon Pd. South	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Replacement of sanitary sewer on Ritson Rd. South</li> <li>from Annis St. to Conant St., Oshawa</li> </ul>	Construction	-	385	-	-	-	-	385
	Total	-	385	-	-	-	-	385
Deplecement of conitory courses on Simoos St. from	Pre-Construction	-	-	-	-	-	-	-
<ul> <li>Replacement of sanitary sewer on Simcoe St. from</li> <li>Metcalf St to Quebec St., Oshawa</li> </ul>	Construction	150	-	-	-	-	-	-
	Total	150	-	-	-	-	-	-
45 Replacement sanitary sewer on Jackson Ave from Merritt St. to Ritson Rd., Oshawa	<b>Pre-Construction</b>	-	-	-	-	-	-	-
	Construction	-	-	-	300	-	-	300
	Total	-	-	-	300	-	-	300
Dania coment of consitent course on Many Ct. from	Pre-Construction	150	-	-	-	-	-	-
46 Replacement of sanitary sewer on Mary St. from Rossland Rd to Robert St., Oshawa	Construction	2,000	-	-	-	-	-	-
Rossiand Rd to Robert St., Oshawa	Total	2,150	-	-	-	-	-	-
	Pre-Construction	-	-	-	-	-	-	-
47 Replacement of forcemain on Wilmot Creek easement from Cobbledick Rd. to Toronto St., Newcastle	Construction	1,300	-	-	-	-	-	-
nom cobbiedick rd. to roronto ot., newcastie	Total	1,300	-	-	-	-	-	-
	Pre-Construction	150	-	-	-	_	-	-
48 Replacement of sanitary sewer on First Ave. from Brock St. to Dominion St., Uxbridge	Construction	-	330	-	-	-	-	330
St. to Dominion St., Oxbridge	Total	150	330	-	-	_	-	330
	Pre-Construction	-	-	-	-	-	-	-
49 Evaluation of trunk sanitary sewers/gravity sewers at	Construction	75	75	75	75	-	-	225
creek crossings	Total	75	75	75	75	-	-	225
	Pre-Construction	-	-	-	-	-	-	-
50 Replacement of sanitary sewer in various locations	Construction	-	-	1,300	1,818	8,004	47,109	58,231
	Total	-	-	1,300	1,818	8,004	47,109	58,231

Durham 🕄					Foreca	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Allowance for construction of convisco in unconvised	Pre-Construction	-	-	-	-	-	-	-
51 Allowance for construction of services in unserviced areas in response to requests or petitions	Construction	-	200	200	200	200	1,000	1,800
	Total	-	200	200	200	200	1,000	1,800
Conitory Cower on Mandow St. from Avalan St. to Manor	Pre-Construction	100	-	-	-	-	-	-
52 Sanitary Sewer on Meadow St. from Avalon St. to Manor Dr., Oshawa	Construction	-	-	260	-	-	-	260
	Total	100	-	260	-	-	-	260
Vark/Durham Sourana Sustana Drimam Truck Samitany	Pre-Construction	-	16,000	-	20,000	-	-	36,000
53 York/Durham Sewage System - Primary Trunk Sanitary Sewer Twinning, Pickering	Construction	-	-	-	-	-	217,050	217,050
	Total	-	16,000	-	20,000	-	217,050	253,050
Sonitary sower on Church St. from Hydro Dight of Way	Pre-Construction	-	-	-	-	-	-	-
54 Sanitary sewer on Church St. from Hydro Right of Way to Taunton Rd., Ajax (Region's Share)	Construction	-	3,500	-	-	-	-	3,500
to radiion rd., Ajax (region's onare)	Total	-	3,500	-	-	-	-	3,500
Conitense over disconsister on Usert Ct. from Weathout Dd	Pre-Construction	-	-	-	-	-	-	-
55 Sanitary sewer diversion on Hunt St. from Westney Rd. to Harwood Ave., Ajax	Construction	-	-	5,700	-	-	-	5,700
to Halwood Ave., Ajax	Total	-	-	5,700	-	-	-	5,700
Twinning of Duffin Creek Trunk Sanitary Sewer on	Pre-Construction	-	-	-	-	500	1,000	1,500
56 easement from Bayly St. Sanitary Sewage Pumping	Construction	-	-	-	-	-	5,700	5,700
Station to Highway 401, Ajax	Total	-	-	-	-	500	6,700	7,200
	Pre-Construction	-	-	-	_	-	-	-
57 Trunk Sanitary Sewer on Kingston Rd. (Highway No. 2)	Construction	11,350	-	-	-	-	-	-
from east of Harwood Ave. to east of Galea Dr., Ajax	Total	11,350	-	-	-	-	-	-
Corbett Trunk Sanitary Sewer on easement from F 58 Wentworth St. to Corbett Creek Water Pollution Control Plant, Whitby	Pre-Construction	-	1,000	-	-	-	-	1,000
	Construction	-	-	-	6,200	-	-	6,200
	Total	-	1,000	-	6,200	-	-	7,200

Durham 🕄					Foreca	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Thickson Dd. Sub Trunk conitany cower from Clangowan	Pre-Construction	-	-	-	-	-	-	-
59 Thickson Rd. Sub-Trunk sanitary sewer from Glengowan St. to Conlin Rd., Whitby (Region's share only)	Construction	2,738	-	-	-	-	-	-
	Total	2,738	-	-	-	-	-	-
West Whithy sub trupk on Dundes St. from Dec	Pre-Construction	-	-	-	-	-	-	-
60 West Whitby sub trunk on Dundas St. from Des Newman Blvd. to Halls Rd., Whitby	Construction	-	12,400	-	-	-	-	12,400
Nowman Diva. to Hallo Fall, whitey	Total	-	12,400	-	-	-	-	12,400
Brooklin Trunk Sanitary Sewer on Mid Block Arterial	Pre-Construction	-	900	-	-	-	-	900
61 from Lynde Creek to St. Thomas St. Sanitary Sewage	Construction	-	-	-	4,020	-	-	4,020
Pumping Station, Whitby	Total	-	900	-	4,020	-	-	4,920
West Brooklin Trunk Sanitary Sewer from west of	Pre-Construction	-	-	-	-	-	-	-
62 Cochrane St. to east of Highway No. 12, Whitby (Region's share only)	Construction	4,000	6,600	-	-	-	-	6,600
	Total	4,000	6,600	-	-	-	-	6,600
Southwest Brooklin Trunk Sanitary Sewer from west of	Pre-Construction	-	-	-	-	-	-	-
63 Cochrane St. on New collector road to east of Highway	Construction	-	4,700	-	-	-	-	4,700
12, Whitby (Region's share only)	Total	-	4,700	-	-	-	-	4,700
West Control Dracklin Truck Constant Courses of af	Pre-Construction	-	-	-	-	-	-	-
64 West Central Brooklin Trunk Sanitary Sewer west of Way St., Whitby (Region's share only)	Construction	-	-	1,900	-	-	-	1,900
way ot., whitey (regions share only)	Total	-	-	1,900	-	-	-	1,900
	Pre-Construction	_	-	_	_	_	-	-
65 Central Brooklin Trunk Sanitary Sewer, Whitby (Region's share only)	Construction	-	4,800	-	-	-	-	4,800
share only)	Total	_	4,800	-	_	-	-	4,800
Operational Expectations Transition Constraints of the	Pre-Construction	-	-	-	-	-	-	-
66 Central East Brooklin Trunk Sanitary Sewer east of Baldwin St. Whithy (Region's share only)	Construction	-	-	1,100	-	-	-	1,100
Baldwin St., Whitby (Region's share only)	Total	-	-	1,100	-	-	-	1,100
	Pre-Construction	-	-	-	-	-	-	-
67 East Brooklin Trunk Sanitary Sewer east of Thickson Rd., Whitby (Region's share only) –	Construction	-	3,200	-	-	-	-	3,200
	Total	-	3,200	-	-	-	-	3,200

🔊 Durham 🔗					Foreca	st		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Considente Constant on la col se od for tra Mite dificildo. Forma Dr	Pre-Construction	-	-	120	-	-	-	120
68 Sanitary Sewer on local road from Windfields Farm Dr. to Winchester Rd., Oshawa	Construction	-	-	-	1,000	-	-	1,000
	Total	-	-	120	1,000	-	-	1,120
Semitany Sewar on Staylonger Dd from Tayintan Dd ta	Pre-Construction	-	300	-	-	-	-	300
69 Sanitary Sewer on Stevenson Rd. from Taunton Rd. to Conlin Rd., Oshawa	Construction	-	-	2,800	-	-	-	2,800
Committee, Condwa	Total	-	300	2,800	-	-	-	3,100
Semitery Sewar on Thermton Dd. from Conlin Dd. within	Pre-Construction	-	-	-	-	-	-	-
70 Sanitary Sewer on Thornton Rd. from Conlin Rd. within the Northwood Employment Area, Oshawa	Construction	1,600	-	-	-	-	-	-
	Total	1,600	-	-	-	-	-	-
Ash Creek Trunk Sanitary Sewer from Consumers	Pre-Construction	-	-	1,500	-	-	2,500	4,000
Dr./Green Rd. to Ash Creek Trunk Sanitary Sewage at	Construction	-	-	-	-	-	16,000	16,000
the former Pringle Creek Water Pollution Control Plant, Whitby	Total	-	-	1,500	-	-	18,500	20,000
	Pre-Construction	-	1,300	-	-	-	-	1,300
72 Mid Block Arterial Forcemain from Whitby/ Oshawa Boundary to Durham College easement, Whitby/Oshawa	Construction	-	-	-	6,700	-	-	6,700
Boundary to Dunnant Conege easement, Whitby/Oshawa	Total	-	1,300	-	6,700	-	-	8,000
	Pre-Construction	-	-	-	800	-	-	800
73 Farewell Creek Trunk Sanitary Sewer twinning on easement west of Grandview St., Oshawa	Construction	-	-	-	-	-	2,700	2,700
easement west of Orandview Ot., Oshawa	Total	-	-	-	800	-	2,700	3,500
Twinning of northwest branch of Harmony Creek Sub-	Pre-Construction	150	320	-	-	-	-	320
74 Trunk Sanitary Sewer from Central Park Blvd N. &	Construction	-	-	2,200	-	-	-	2,200
Hillcroft St. to Beatrice St., Oshawa	Total	150	320	2,200	-	-	-	2,520
North Oshawa Creek (East branch) Trunk SanitaryP75Sewer on easement from Arctic Red Dr. to Winchester Rd., Oshawa (Region's Share only)—	Pre-Construction	-	-	-	-	-	-	-
	Construction	-	-	5,000	-	-	-	5,000
	Total	-	-	5,000	-	-	-	5,000

Durham 🕄					Foreca	st		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
North Oshawa Creek (East Branch) Trunk Sanitary	Pre-Construction	-	-	-	-	-	-	-
76 Sewer on easement from southeast of Thornton Rd. to	Construction	-	-	-	-	-	4,500	4,500
Simcoe St., Oshawa (Region's share only)	Total	-	-	-	-	-	4,500	4,500
Twinning of Ophows Crock Trunk Senitory Source from	Pre-Construction	-	-	-	250	-	-	250
77 Twinning of Oshawa Creek Trunk Sanitary Sewer from Gibb St. to Greenwood Ave., Oshawa	Construction	-	-	-	-	-	1,200	1,200
	Total	-	-	-	250	-	1,200	1,450
Foregonain an Caulin Dd. from Ditean Dd. to Harmany	Pre-Construction	-	-	-	-	-	-	-
8 Forcemain on Conlin Rd. from Ritson Rd. to Harmony Rd., Oshawa	Construction	-	-	9,200	-	-	-	9,200
	Total	-	-	9,200	-	-	-	9,200
North Oshawa Creek (West Branch) Trunk Sanitary	Pre-Construction	-	1,000	-	-	-	-	1,000
79 Sewer from Conlin Rd. Sanitary Sewage Pumping	Construction	-	-	-	4,500	-	-	4,500
Station to Britannia Ave., Oshawa	Total	-	1,000	-	4,500	-	-	5,500
North Oshawa Creek (West Branch) Trunk Sanitary	Pre-Construction	-	3,000	-	-	-	-	3,000
80 Sewer from south side of hydro corridor to Columbus	Construction	-	-	-	19,300	-	-	19,300
Rd., Oshawa	Total	-	3,000	-	19,300	-	-	22,300
Ocumbica Truck Consident Courses Trucks Del from Dio an Ot	Pre-Construction	3,000	-	-	-	-	-	-
81 Courtice Trunk Sanitary Sewer - Trulls Rd. from Bloor St. to future Adelaide Ave., Courtice	Construction	-	52,700	-	-	-	-	52,700
	Total	3,000	52,700	-	-	-	-	52,700
	Pre-Construction	1,200	-	-	_	-	-	-
82 Courtice Trunk Sanitary Sewer - Adelaide Ave. from	Construction	7,600	4,300	4,300	44,800	-	-	53,400
Trulls Rd. to Townline Rd., Courtice	Total	8,800	4,300	4,300	44,800	-	-	53,400
	Pre-Construction	-	-	1,300	-	-	-	1,300
83 Courtice Trunk Sanitary Sewer - Townline Rd. from Adelaide Ave. to Beatrice St., Courtice	Construction	-	-	-	-	52,800	-	52,800
	Total	-	-	1,300	-	52,800	-	54,100

Budget         Budget         Budget         2024         2025         2026         2027         2028-2032         Forecast Total           Southwest Courtice Sub-Trunk Sanitary Sewer on 84 Baseline Rd. for mit-block to 850 m west of Truils Rd. Courtice         Pre-Construction         -         -         -         -         -         -         -         -         4.600         -         -         -         4.600           Southwest Courtice Sub-Trunk Sanitary Sewer on Southeest Courtice Sub-Trunk Sanitary Sewer from Baseline Rd. Trunk Sanitary Sewer from Simpson Ave. to Bennett Rd, Bowmanville         Pre-Construction         - <td< th=""><th>Durham 🕄</th><th></th><th></th><th></th><th></th><th>Foreca</th><th>st</th><th></th><th></th></td<>	Durham 🕄					Foreca	st		
84         Baseline Rd. from Truits Rd. to 650 m west of Truits Rd. Construction         Construction         -         4,600         -         -         4,600           Southeest Courtice With Sanitary Sever on future mid-block road from Truits Rd. to 600 m west of Truits Rd. Fre-Construction         -         -         4,600         -         -         4,600           Southeest Courtice With Sanitary Sever on future to Benett Rd. From mid-block to Bloor St., Courtice         Pre-Construction         -		Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	
Courtice         Total         -         4,600         -         -         4,600           B         Southeast Courtice Sub-Trunk Sanitary Sever on Warts As intary Sever on Warts As intary Sever from Baseline Rd. Trunk Sanitary Sever from Grom Sanitary Sever from Grom Sanitary Sever from Grom Sa		Pre-Construction	-	-	-	-	-	-	-
Southeast Courtice Sub-Trunk Sanitary Sewer on future Southeast Courtice Sub-Trunk Sanitary Sewer from Truils Rd. to Courtice Rd. & Courtice Rd. from mid-block to Bloor St. Courtice Courtice Rd. from mid-block to Bloor St. Courtice Baseline Rd. Trunk Sanitary Sewer from Simpson Ave, to Bennett Rd., Bowmanville         Pre-Construction Fre-Construction Construction         -        <		Construction	-	-	4,600	-	-	-	4,600
85         mid-block road from Trulls Rd, to Courtice Rd. 8         Construction         5,300         - </td <td>Courtice</td> <td>Total</td> <td>-</td> <td>-</td> <td>4,600</td> <td>-</td> <td>-</td> <td>-</td> <td>4,600</td>	Courtice	Total	-	-	4,600	-	-	-	4,600
Courtice Rd. from mid-block to Bloor St., Courtice         Total         5,300         -	Southeast Courtice Sub-Trunk Sanitary Sewer on future	Pre-Construction	-	-	-	-	-	-	-
Baseline Rd. Trunk Sanitary Sewer from Simpson Ave, to Bennett Rd., Bowmanville         Pre-Construction         -         -         -         -         -         -         -         -         -         30,900           66         Baseline Rd. Trunk Sanitary Sewer from Baseline Rd. Highway No. 2, Bowmanville         Total         -         16,900         -         14,000         -         -         30,900           67         Bennett Rd. Trunk Sanitary Sewer from Baseline Rd. Highway No. 2, Bowmanville         Pre-Construction         -		Construction	5,300	-	-	-	-	-	-
	Courtice Rd. from mid-block to Bloor St., Courtice	Total	5,300	-	-	-	-	-	-
do         best best best best best best best best	Papeline Dd. Trupk Senitory Sewer from Simpson Ave	Pre-Construction	-	-	-	-	-	-	-
Total         16,900         14,000         -         -         30,900           87         Bennett Rd. Trunk Sanitary Sewer from Baseline Rd. to Highway No. 2, Bowmanville (Region's share only)         Pre-Construction         -	86 to Bennett Rd. Bowmanville	Construction	-	16,900	-	14,000	-	-	30,900
$ \frac{87}{10} \frac{8}{10} \frac{8}{10} \frac{8}{10} \frac{8}{10} \frac{8}{10} \frac{8}{10} \frac{8}{10} \frac{8}{10} \frac{1}{10} \frac{1}{10}$		Total	-	16,900	-	14,000	-	-	30,900
of       Highway No. 2, Bowmanville (Region's share only)       Image: Construction in the constr	Bennett Rd. Trunk Sanitary Sewer from Baseline Rd. to	Pre-Construction	-	-	-	-	-	-	-
$ \frac{1}{1000} \frac{1}{100$		Construction	-	-	-	-	-	1,700	1,700
88Port Darlington Rd. Trunk Sanitary Sewer from Baseline Rd. to existing easement, BowmanvilleConstruction24,30024,30089Twinning of Spry Ave. Trunk Sanitary Sewer from Baseline Rd. to N/L of Spry Ave., BowmanvillePre-Construction24,3002,00089Twinning of Spry Ave., Trunk Sanitary Sewer from Baseline Rd. to N/L of Spry Ave., BowmanvillePre-Construction1,0001,0002,00090Soper Creek Trunk Sanitary Sewer on Means Ave., from Rd. 3 from Means Ave. to 450 m west of Means Ave., BowmanvillePre-Construction<		Total	-	-	-	-	-	1,700	1,700
Rd. to existing easement, BowmanvilleConstruction24,300Construction <td>Dart Darlington Dd. Trunk Canitary Course from Decaling</td> <td>Pre-Construction</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	Dart Darlington Dd. Trunk Canitary Course from Decaling	Pre-Construction	-	-	-	-	-	-	-
Total         Quart         Total         Quart         Quart <th< td=""><td>88 Rd to existing essement Bowmanville</td><td>Construction</td><td>-</td><td>24,300</td><td>-</td><td>-</td><td>-</td><td>-</td><td>24,300</td></th<>	88 Rd to existing essement Bowmanville	Construction	-	24,300	-	-	-	-	24,300
89Twinning of Spry Ave. Trunk Sanitary Sewer from Baseline Rd. to N/L of Spry Ave., BowmanvilleConstruction5,0005,0007000Total1,0006,0007,00090Soper Creek Trunk Sanitary Sewer on Mearns Ave. from Rd. 3 from Mearns Ave. to 450 m west of Mearns Ave. BowmanvillePre-Construction <t< td=""><td>rd. to existing easement, bownanvine</td><td>Total</td><td>-</td><td>24,300</td><td>-</td><td>-</td><td>-</td><td>-</td><td>24,300</td></t<>	rd. to existing easement, bownanvine	Total	-	24,300	-	-	-	-	24,300
Baseline Rd. to N/L of Spry Ave., BowmanvilleConstructionII <td></td> <td>Pre-Construction</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1,000</td> <td>1,000</td> <td>2,000</td>		Pre-Construction	-	-	-	-	1,000	1,000	2,000
Note:Total1,0006,0007,00090Soper Creek Trunk Sanitary Sewer on Mearns Ave. from Freeland Ave. to Concession Rd. 3 and on Concession Rd. 3 from Mearns Ave. to 450 m west of Mearns Ave., BowmanvillePre-Construction1,650	89 Reseline Rd to N/L of Spry Ave. Bowmanville	Construction	-	-	-	-	-	5,000	5,000
Solphi of ook finite or linear bound of the instruction from the instruction for the instr	Daseline Ru. to the of oppy Ave., Downanvine	Total	-	-	-	-	1,000	6,000	7,000
90Freeland Ave. to Concession Rd. 3 and on Concession Rd. 3 from Mearns Ave. to 450 m west of Mearns Ave. BowmanvilleConstruction-1,6501,65091Foster Creek Trunk Sanitary Sewer on Sunset Blvd./ Lakeview Rd. from Rudell Rd. to Church St., NewcastlePre-Construction Construction1,65092Foster Creek Trunk Sanitary Sewer on North St. from porth side of Canadian Pacific Railway to ConcessionPre-Construction Construction	Soper Creek Trunk Sanitary Sewer on Mearns Ave. from	Pre-Construction	-	-	-	-	-	-	-
Rd. 3 from Mearns Ave. to 450 m west of Mearns Ave., BowmanvilleTotal-1,6501,65091Foster Creek Trunk Sanitary Sewer on Sunset Blvd./ Lakeview Rd. from Rudell Rd. to Church St., NewcastlePre-Construction <td< td=""><td>Freeland Ave. to Concession Rd. 3 and on Concession</td><td></td><td>-</td><td>1,650</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1,650</td></td<>	Freeland Ave. to Concession Rd. 3 and on Concession		-	1,650	-	-	-	-	1,650
Poster Creek Trunk Sanitary Sewer on Sunset Blvd./ Lakeview Rd. from Rudell Rd. to Church St., Newcastle       Construction       -       11,000       -       -       11,000         Foster Creek Trunk Sanitary Sewer on North St. from 100       Foster Creek Trunk Sanitary Sewer on North St. from 100       Pre-Construction       -       11,000       -       -       -       11,000         92       north side of Canadian Pacific Railway to Concession       Pre-Construction       -       2,900       -       -       -       2,900         92       north side of Canadian Pacific Railway to Concession       Construction       -       -       -       -       2,900         94       Description       -       -       -       -       -       -       2,900         92       Noth Structure Trunk Sanitary Sewer on North St. from       Construction       -       -       -       -       2,900         92       Noth St. From       Construction       -       -       -       -       -       2,900	Rd. 3 from Mearns Ave. to 450 m west of Mearns Ave.,	Total	-	1,650	-	-	-	-	1,650
Image: State of the state		Pre-Construction	-	-	-	-	-	-	-
Total-11,00011,000Foster Creek Trunk Sanitary Sewer on North St. from 92 north side of Canadian Pacific Railway to ConcessionPre-Construction-2,9002,90092 north side of Canadian Pacific Railway to ConcessionConstruction2,90092 north side of Canadian Pacific Railway to ConcessionConstruction<	91 Foster Creek Trunk Sanitary Sewer on Sunset Blvd./	Construction	-	11,000	-	-	-	-	11,000
Foster Creek Trunk Sanitary Sewer on North St. fromPre-Construction-2,9002,90092 north side of Canadian Pacific Railway to ConcessionConstruction2,90002,900	Lakeview Rd. from Rudell Rd. to Church St., Newcastle	Total	-		-	-	-	-	11,000
92 north side of Canadian Pacific Railway to Concession Construction		Pre-Construction	-	2,900	-	-	-	-	2,900
Rd. 3, Newcastle (Region's share only)		Construction	-	-	-	-	-	-	-
		Total	-	2,900	-	-	-	-	2,900

Durham 🕄					Foreca	st		
Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Sanitary Sewer on Concession Rd. 5 to service the	Pre-Construction	-	-	-	-	-	-	-
93 westerly portion of the Beaverton Avenue Employment	Construction	-	3,600	-	-	-	-	3,600
Area A, Brock	Total	-	3,600	-	-	-	-	3,600
Linear Infrastructure Subtotal		46,615	189,710	52,978	135,408	82,729	414,584	875,409
Buildings and Structures								
-	Pre-Construction	-	-	-	340	500	-	840
94 Duffin Creek Water Pollution Control Plant - Chlorine	Construction	-	-	-	-	-	14,640	14,640
Contact Tank Expansion	Total	-	-	-	340	500	14,640	15,480
	Pre-Construction	-	1,400	3,000	-	-	-	4,400
95 Proposed Pickering Parkway Sanitary Sewage Pumping Station and forcemain, Pickering	Construction	-	-	-	-	13,500	-	13,500
Station and forcemain, Pickering	Total	-	1,400	3,000	-	13,500	-	17,900
	Pre-Construction	-	-	-	-	-	1,749	1,749
96 Proposed Squires Beach Sanitary Sewage Pumping Station, Pickering	Construction	-	-	-	-	-	-	-
Station, Picketing	Total	-	-	-	-	-	1,749	1,749
Or the W Or set Marker Ballistics Or start Blant and the	Pre-Construction	-	-	-	-	-	-	-
97 Corbett Creek Water Pollution Control Plant - works to rectify existing deficiencies	Construction	-	7,300	-	-	-	-	7,300
rectily existing denciencies	Total	-	7,300	-	-	-	-	7,300
Fur engine of Oach att Oreach Weter Dellution Oachter	Pre-Construction	-	-	10,000	-	-	-	10,000
98 Expansion of Corbett Creek Water Pollution Control Plant from 84 MLD to 109 MLD	Construction	-	-	-	-	-	174,000	174,000
	Total	-	-	10,000	-	-	174,000	184,000
Brooklin Sanitary Diversion Strategy - Proposed	<b>Pre-Construction</b>	-	3,500	-	-	-	-	3,500
99 Thickson Rd. Sanitary Sewage Pumping Station and	Construction	-	-	-	29,800	-	-	29,800
forcemain, Whitby	Total	-	3,500	-	29,800	-	-	33,300
	Pre-Construction	-	-	-	-	-	-	-
100 Harmony Creek Water Pollution Control Plant No. 1 demolition, Oshawa	Construction	-	-	2,900	-	-	-	2,900
demolition, Oshawa	Total	-	-	2,900	-	-	-	2,900

Durham 0					Foreca	st		
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Llama anu Ora ali Canitanu Causana Dumania a Otatian	Pre-Construction	600	-	3,000	-	-	-	3,000
101 Harmony Creek Sanitary Sewage Pumping Station - expansion and forcemain twinning, Oshawa	Construction	-	-	-	-	-	45,100	45,100
	Total	600	-	3,000	-	-	45,100	48,100
Expansion of the Conlin Rd. Senitory Sowage Dumping	Pre-Construction	-	-	-	-	-	-	-
102 Expansion of the Conlin Rd. Sanitary Sewage Pumping Station and twinning of the forcemain, Oshawa	Construction	2,500	-	70,700	-	-	-	70,700
	Total	2,500	-	70,700	-	-	-	70,700
Proposed Harbour Rd. South Sanitary Sewage Pumping	Pre-Construction	-	500	-	1,600	-	-	2,100
103 Station and forcemain, Oshawa	Construction	-	-	-	-	-	7,100	7,100
	Total	-	500	-	1,600	-	7,100	9,200
Simcoo St. South Sonitony Sowago Dumping Station and	Pre-Construction	-	-	-	-	-	-	-
104 Simcoe St. South Sanitary Sewage Pumping Station and forcemain replacement, Oshawa	Construction	-	4,700	-	-	-	-	4,700
	Total	-	4,700	-	-	-	-	4,700
Madawacka, Sanitary Sowago Pumping Station	Pre-Construction	-	-	-	-	1,000	1,200	2,200
105 Madawaska Sanitary Sewage Pumping Station - pumping station replacement, Oshawa	Construction	-	-	-	-	-	7,500	7,500
	Total	-	-	-	-	1,000	8,700	9,700
Loc Expansion of Courtice Water Pollution Control Plant	Pre-Construction	1,000	-	4,500	-	-	-	4,500
106 from 68 MLD to 136 MLD	Construction	-	-	-	-	-	148,900	148,900
	Total	1,000	-	4,500	-	-	148,900	153,400
Dremond Deceling Dd. Conitery Courses Duraning	<b>Pre-Construction</b>	-	-	-	-	-	-	-
107 Proposed Baseline Rd. Sanitary Sewage Pumping Station and forcemain, Courtice	Construction	-	-	4,000	-	-	-	4,000
	Total	-	-	4,000	-	-	-	4,000
Dranged North cost Consistent Courses Dumping Station	<b>Pre-Construction</b>	-	-	-	500	-	1,700	2,200
108 Proposed Northeast Sanitary Sewage Pumping Station and forcemain, Bowmanville	Construction	-	-	-	-	-	5,700	5,700
	Total	-	-	-	500	-	7,400	7,900
109 Newcastle Water Pollution Control Plant - Capacity Re- rating 4 MLD to 7 MLD	Pre-Construction	-	-	-	-	-	-	-
	Construction	3,630	-	-	-	-	-	-
	Total	3,630	-	-	-	-	-	-

Durham 🕄			Forecast						
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Expansion of Neuropatha Water Dellution Control Plant	Pre-Construction	-	-	1,100	-	1,300	-	2,400	
110 Expansion of Newcastle Water Pollution Control Plant from 7 MLD to 16 MLD and outfall	Construction	-	-	-	-	-	-	-	
	Total	-	-	1,100	-	1,300	-	2,400	
Support Sonitory Sowage Dumping Station	Pre-Construction	-	120	-	-	-	-	120	
111 Sunset Sanitary Sewage Pumping Station - decommissioning, Clarington	Construction	-	600	-	-	-	-	600	
	Total	-	720	-	-	-	-	720	
Uxbridge Water Pollution Control Plant - Optimization	Pre-Construction	-	-	-	-	-	-	-	
112 Study, upgrades and rehabilitation works based on the	Construction	-	4,600	-	-	-	-	4,600	
condition assessment.	Total	-	4,600	-	-	-	-	4,600	
Water St. Sanitary Sewage Pumping Station -	Pre-Construction	-	-	-	-	-	-	-	
113 Water St. Sanitary Sewage Pumping Station - Expansion/Replacement, Scugog	Construction	-	19,550	-	3,000	-	-	22,550	
	Total	-	19,550	-	3,000	-	-	22,550	
Dort Dorny Industrial Area Sonitary Sources Dumping	Pre-Construction	-	1,200	-	-	-	-	1,200	
114 Port Perry Industrial Area Sanitary Sewage Pumping Station, forcemain and sanitary sewer, Port Perry	Construction	-	-	-	-	14,200	-	14,200	
	Total	-	1,200	-	-	14,200	-	15,400	
Sunderland Water Pollution Control Plant Largen	Pre-Construction	2,000	-	-	-	-	-	-	
115 Sunderland Water Pollution Control Plant - Lagoon System, Brock	Construction	-	-	11,000	-	-	-	11,000	
	Total	2,000	-	11,000	-	-	-	11,000	
	Pre-Construction	1,200	-	-	-	-	-	-	
116 River St. Sanitary Sewage Pumping Station expansion, Brock	Construction	-	4,600	-	-	-	-	4,600	
DIOCK	Total	1,200	4,600	-	-	-	-	4,600	
Complexity Water Ballytian Control Diants Langer	Pre-Construction	2,000	-	-	-	-	-	-	
117 Cannington Water Pollution Control Plant - Lagoon System, Brock	Construction	-	-	11,500	-	-	-	11,500	
	Total	2,000	-	11,500	-	-	-	11,500	
Leidleur Ch. Ceniterry Course no Duranin a Chatian	Pre-Construction	1,000	-	-	-	-	-	-	
118 Laidlaw St. Sanitary Sewage Pumping Station expansion, Brock	Construction	-	5,200	-	-	-	-	5,200	
	Total	1,000	5,200	-	-	-	-	5,200	

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Durham 8000000000000000000000000000000000000	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Leke Simeee Water Bellution Control Plant overseien	Pre-Construction	-	-	-	-	1,000	2,000	3,000
119 Lake Simcoe Water Pollution Control Plant - expansion, Brock	Construction	-	-	-	-	-	39,000	39,000
	Total	-	-	-	-	1,000	41,000	42,000
Harbour St. Sanitary Sewage Pumping Station	Pre-Construction	-	-	-	-	1,000	6,500	7,500
120 expansion, Brock	Construction	-	-	-	-	-	-	-
	Total	-	-	-	-	1,000	6,500	7,500
Beaverton Employment Lands Area B Sanitary Sewage	Pre-Construction	-	1,000	-	-	-	-	1,000
121 Pumping Station and sanitary sewer, Brock	Construction	-	-	-	5,800	-	-	5,800
	Total	-	1,000	-	5,800	-	-	6,800
	Pre-Construction	-	-	-	-	-	-	-
122 Septage receiving stations, various stations	Construction	-	1,840	-	-	-	-	1,840
	Total	-	1,840	-	-	-	-	1,840
Water Pollution Control Plant - Asset Management	Pre-Construction	-	-	-	-	-	-	-
123 Remediation and Rehabilitation works	Construction	-	5,000	8,000	5,000	8,000	45,000	71,000
	Total	-	5,000	8,000	5,000	8,000	45,000	71,000
	Pre-Construction	-	-	-	-	-	-	-
124 New Concrete Floor in Sign Shed - Ajax Depot	Construction	-	25	-	-	-	-	25
	Total	-	25	-	-	-	-	25
	Pre-Construction	1,667	-	-	-	-	-	-
125 Depot Rationalization - Ajax Depot Expansion	Construction	-	11,667	-	-	-	-	11,667
	Total	1,667	11,667	-	-	-	-	11,667
	Pre-Construction	82	-	-	-	-	-	-
126 Building J Roof Replacement - Corbett Creek WPCP	Construction	-	153	-	-	-	-	153
- · ·	Total	82	153	-	-	-	-	153
	Pre-Construction	-	-	-	-	-	-	-
127 Digester Cleanout - Various Locations	Construction	-	650	250	-	-	-	900
	Total	-	650	250	-	-	-	900

Durham 🕄	_				Forec	ast		
Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Assess Ladden Dan sin/Dan Lagencent Dusia st. Maria us	Pre-Construction	-	-	-	-	-	-	-
128 Access Ladder Repair/Replacement Project - Various Locations	Construction	641	-	-	-	-	-	-
	Total	641	-	-	-	-	-	-
Depleasment Fire System Meade Duffin Creek	Pre-Construction	-	-	-	-	-	-	-
129 Replacement Fire System - Vesda - Duffin Creek WPCP	Construction	800	-	-	-	-	-	-
	Total	800	-	-	-	-	-	-
New Eventure in Office and Lab. Evenencian	Pre-Construction	-	-	-	-	-	-	-
130 New Furniture in Office and Lab - Expansion - Environmental Lab	Construction	22	-	-	-	-	-	-
	Total	22	-	-	-	-	-	-
Re-pave Existing South Driveway - Harmony Creek	Pre-Construction	-	40	-	-	-	-	40
131 Re-pave Existing South Driveway - Harmony Creek WPCP	Construction	-	-	143	-	-	-	143
	Total	-	40	143	-	-	-	183
	Pre-Construction	-	40	-	-	-	-	40
132 Install Electric Gates - Lake Simcoe WPCP	Construction	-	-	110	-	-	-	110
	Total	-	40	110	-	-	-	150
	Pre-Construction	-	-	-	-	-	-	-
133 Construction of Mezzanine in Fleet Bay 1 - Orono Depot	Construction	-	67	-	-	-	-	67
	Total	-	67	-	-	-	-	67
	Pre-Construction	-	-	-	-	-	-	-
134 Thermal Glass Panels for Rollup Doors and Door operators - Orono Depot	Construction	-	66	-	-	-	-	66
operators - Orono Depot	Total	-	66	-	-	-	-	66
	Pre-Construction	-	-	-	-	-	-	-
135 Paving of Rear Yard and Site Repairs - Orono Depot	Construction	-	-	-	-	-	121	121
	Total	-	-	-	-	-	121	121
	Pre-Construction	27	-	-	-	-	-	-
136 Roof Replacement on Vehicle Storage Bays - Orono Depot –	Construction	-	172	-	-	-	-	172
	Total	27	172	-	-	-	-	172

Durham 🕄	- "				Foreca	st		
Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Pre-Construction	-	-	-	-	-	73	73
137 20 Bay Cold Vehicle Storage - Orono Depot Expansion	Construction	-	-	-	-	-	1,192	1,192
	Total	-	-	-	-	-	1,265	1,265
Calk and Dring Changes Duilding Orange Danat	Pre-Construction	-	-	-	-	-	116	116
138 Salt and Brine Storage Building - Orono Depot Expansion	Construction	-	-	-	-	-	1,050	1,050
Expansion	Total	-	-	-	-	-	1,166	1,166
	Pre-Construction	-	-	-	-	-	-	-
139 Replacement of Fire System - Oshawa/Whitby Depot	Construction	68	-	-	-	-	-	-
	Total	68	-	-	-	-	-	-
141 Depot Rationalization - New Oshawa/Whitby Depot	Pre-Construction	12,667	1,667	-	-	-	-	1,667
	Construction	-	-	55,000	-	-	-	55,000
	Total	12,667	1,667	55,000	-	-	-	56,667
Drivenues Deplesement, Diante Control, Zene O	Pre-Construction	-	-	-	-	-	-	-
142 Driveway Replacement - Plants Central - Zone 2 Reservoir	Construction	-	50	-	-	-	-	50
Reservoir	Total	-	50	-	-	-	-	50
Dan sing and England Cast Flagt Day Concerts Flagma 8	Pre-Construction	7	-	-	-	-	-	-
143 Repairs and Epoxy Coat Fleet Bay Concrete Floors & Repairs to Floor Drains in Fleet Bays - Scugog Depot	Construction	-	28	-	-	-	-	28
Repairs to Floor Drains in Fleet Days - Scugog Depot	Total	7	28	-	-	-	-	28
	Pre-Construction	-	-	10	_	-	-	10
144 Replace Existing Asphalt in Various Location - Scugog	Construction	-	-	-	123	-	-	123
Depot	Total	-	-	10	123	-	-	133
F 145 Additional Office Space - Scugog Depot	Pre-Construction	-	-	-	93	-	-	93
	Construction	-	-	-	-	406	-	406
	Total	-	-	-	93	406	-	499

Durham °			Forecast					
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
New 40 Dec October Other and Other Proves	Pre-Construction	-	-	-	73	-	-	73
146 New 16 Bay Cold Vehicle Storage - Scugog Depot Expansion	Construction	-	-	-	-	992	-	992
	Total	-	-	-	73	992	-	1,065
New Self and Prine Storage Escility - Source Denot	Pre-Construction	-	-	-	100	-	-	100
147 New Salt and Brine Storage Facility - Scugog Depot Expansion	Construction	-	-	-	-	1,067	-	1,067
	Total	-	-	-	100	1,067	-	1,167
Widening of Existing Concert Entrence Cunderland	Pre-Construction	8	-	-	-	-	-	-
148 Widening of Existing Canopy Entrance - Sunderland Depot	Construction	-	42	-	-	-	-	42
	Total	8	42	-	-	-	-	42
Install Devine tex Fence - Dumning Stations Control	Pre-Construction	-	-	-	-	-	-	-
149 Install Perimeter Fence - Pumping Stations Central - Cochrane St SPS	Construction	50	-	-	-	-	-	-
	Total	50	-	-	-	-	-	-
	Pre-Construction	-	-	-	-	-	-	-
150 Renovation & Optimization - 101 Consumers	Construction	442	-	-	-	-	-	-
	Total	442	-	-	-	-	-	-
Assess Ladden Dan sin/Dan Lasses ant Dusia et Duffin	Pre-Construction	-	-	-	-	-	-	-
151 Access Ladder Repair/Replacement Project - Duffin Creek WPCP	Construction	582	-	-	-	-	-	-
Greek WI GI	Total	582	-	-	-	-	-	-
	Pre-Construction	1,333	1,333	-	-	-	-	1,333
152 Depot Rationalization - New Sunderland Depot	Construction	-	-	14,000	-	-	-	14,000
	Total	1,333	1,333	14,000	-	-	-	15,333
Buildings and Structures Subtotal	_	32,325	77,110	199,213	46,429	42,965	502,641	868,358
Machinery & Equipment								
	Pre-Construction	100	-	-	-	-	-	-
<ul> <li>153 Central Duffin Creek Metering Building at Valleyfarm</li> <li>Road and Finch Avenue meter replacement, Pickering</li> </ul>	Construction	-	560	-	-	-	-	560
Road and Finch Avenue meter replacement, Pickering	Total	100	560	-	-	-	-	560

			Forecast						
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Duffin Creek Water Pollution Control Plant - Digester	Pre-Construction	-	-	-	-	-	-	-	
154 mixing improvements and Motor Control Centre	Construction	21,450	23,850	-	-	-	-	23,850	
Replacement, Pickering	Total	21,450	23,850	-	-	-	-	23,850	
Duffin Crock Water Pollution Control Plant	Pre-Construction	-	-	-	-	-	-	-	
155 Duffin Creek Water Pollution Control Plant - Replacement of Reactor No. 1 & 2, Pickering	Construction	-	25,000	25,000	50,000	70,000	133,500	303,500	
Replacement of Reading Res. 1 & 2, 1 lokening	Total	-	25,000	25,000	50,000	70,000	133,500	303,500	
Duffin One als Water Dellution Oceated Direct Dense dial	Pre-Construction	-	-	-	-	-	-	-	
Duffin Creek Water Pollution Control Plant - Remedial works and improvements in various locations throughout	Construction	27,500	-	-	-	-	-	-	
the plant	Total	27,500	-	-	-	-	-	-	
	Pre-Construction	1,000	-	-	-	-	-	-	
157 Duffin Creek Water Pollution Control Plant - Ammonia- based aeration control (ABAC) for Stage 1, 2 and 3	Construction	-	-	5,000	-	-	-	5,000	
based aeration control (ABAC) for Stage 1, 2 and 5	Total	1,000	-	5,000	-	-	-	5,000	
	Pre-Construction	-	-	-	-	-	3,000	3,000	
158 Duffin Creek Water Pollution Control Plant - Ultra Fine	Construction	-	-	-	-	-	20,000	20,000	
Bubble Diffusers conversion (full plant)	Total	-	-	-	-	-	23,000	23,000	
	Pre-Construction	-	-	-	-	5,000	-	5,000	
159 Duffin Creek Water Pollution Control Plant - Biogas Purification to Renewable Natural Gas (RNG)	Construction	-	-	-	-	-	18,400	18,400	
Pullication to Renewable Natural Gas (RNG)	Total	-	-	-	-	5,000	18,400	23,400	
	Pre-Construction	-	-	-	-	-	-	-	
160 Duffin Creek Water Pollution Control Plant - Condition Assessment and Asset Plan updating	Construction	-	200	300	-	-	500	1,000	
Assessment and Asset Flan updating	Total	-	200	300	-	-	500	1,000	
Duffin One als Materia Dellution Oceated Diast. Accest	Pre-Construction	-	100	100	100	100	4,300	4,700	
161 Duffin Creek Water Pollution Control Plant - Asset Management Remediation and rehabilitation works	Construction	-	900	900	900	900	20,700	24,300	
	Total	-	1,000	1,000	1,000	1,000	25,000	29,000	

	Durham Budget			Forecast					
		Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
	Liverpool Road Sanitary Sewage Pumping Station - communication, mechanical and process upgrades, Pickering	Pre-Construction	-	-	-	-	-	-	-
162		Construction	-	3,700	-	-	-	-	3,700
		Total	-	3,700	-	-	-	-	3,700
	Carruthers Sanitary Sewage Pumping Station - Standby Power Upgrades	Pre-Construction	-	-	250	-	-	-	250
163		Construction	-	-	-	-	750	-	750
		Total	-	-	250	-	750	-	1,000
	Michael Blvd. Sanitary Sewerage Pumping Station -	<b>Pre-Construction</b>	200	-	-	-	-	-	-
	replacement of the Motor Control Centre (MCC) and	Construction	-	-	-	2,000	-	-	2,000
	pump, Whitby	Total	200	-	-	2,000	-	-	2,000
165	Hanover Sanitary Sewage Pumping Station - the replacement of pumps and forcemain, Whitby	Pre-Construction	-	-	-	-	-	-	-
		Construction	100	-	-	-	-	-	-
		Total	100	-	-	-	-	-	-
	Breakwater Saniitary Sewage Pumping Station - station modifications, Whitby	Pre-Construction	-	-	-	-	-	-	-
166		Construction	-	-	960	-	-	-	960
		Total	-	-	960	-	-	-	960
	Simcoe St. Sanitary Sewerage Pumping Station - Chemical Pump addition, Oshawa	Pre-Construction	250	-	-	-	-	-	-
167		Construction	-	-	575	-	-	-	575
		Total	250	-	575	-	-	-	575
	Madawaska Sanitary Sewerage Pumping Station - piping upgrades and flow meter installation, Oshawa	Pre-Construction	-	-	-	-	-	-	-
168		Construction	-	-	460	-	-	-	460
		Total	-	-	460	-	-	-	460
169	Courtice Water Pollution Control Plant - remediation work and performance improvements, Courtice	Pre-Construction	-	-	-	-	-	-	-
		Construction	-	2,900	-	-	-	-	2,900
		Total	-	2,900	-	-	-	-	2,900
	Courtice Water Pollution Control Plant - Digester 1 Refurbishment, Courtice	Pre-Construction	-	-	750	1,600	-	-	2,350
170		Construction	-	-	-	-	-	4,000	4,000
		Total	-	-	750	1,600	-	4,000	6,350

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Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Part Darlington Water Pollution Control Plant Major	Pre-Construction	-	-	-	-	-	-	-
171 Port Darlington Water Pollution Control Plant - Major Maintenance replacement work, Bowmanville	Construction	-	7,100	-	-	-	-	7,100
	Total	-	7,100	-	-	-	-	7,100
Part Darlington Water Pollution Control Plant, work to	Pre-Construction	-	-	-	-	-	-	-
172 Port Darlington Water Pollution Control Plant - work to recitify deficiencies, Bowmanville	Construction	-	1,400	-	-	-	-	1,400
	Total	-	1,400	-	-	-	-	1,400
Lake Simcoe Water Pollution Control Plant - Diffused	Pre-Construction	-	-	-	-	-	-	-
173 Air System replacement and associated system upgrades	Construction	7,050	-	-	-	-	-	-
	Total	7,050	-	-	-	-	-	-
Laka Simaaa Watar Dallutian Control Plant	Pre-Construction	-	-	-	-	-	-	-
174 Lake Simcoe Water Pollution Control Plant - Replacement of Clarifier mechanisms	Construction	100	-	-	-	-	-	-
Replacement of Glanner mechanisms	Total	100	-	-	-	-	-	-
Laka Cimaga Weter Ballution Control Diant tertions	Pre-Construction	-	750	-	-	-	-	750
175 Lake Simcoe Water Pollution Control Plant - tertiary filter replacement	Construction	-	-	-	-	2,000	-	2,000
inter replacement	Total	-	750	-	-	2,000	2028-2032 - - - - - - - - - - - - -	2,750
	Pre-Construction	500	-	-	-	-	-	-
Lake Simcoe Water Pollution Control Plant and 176 associated sanitary sewerage pumping stations - PLC	Construction	-	-	6,000	-	-	-	6,000
and SCADA system upgrades	Total	500	-	6,000	-	-	-	6,000
	Pre-Construction	-	-	-	-	-	-	-
Laidlaw, Cedar and Harbour St. Sanitary Sewage	Construction	-	-	-	4,000	-	-	4,000
177 Pumping Station - Major Maintenance and replacement work	Total	-	-	-	4,000	-	-	4,000
	Pre-Construction	-	-	-	-	-	-	-
178 Sanitary Sewerage Pumping Station - piping upgrades and flow meter installation, at various locations	Construction	-	-	500	500	-	-	1,000
and now meter instantion, at various locations	Total	-	-	500	500	-	-	1,000
and now meter installation, at various locations	Total	-	-	500	500	-	-	1,000

Durham 🕄	E an aith an				Foreca	ast		
Budget S	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
Emergeney Concreter Fuel Tank Compliance ungrades	Pre-Construction	-	-	-	-	-	-	-
179 Emergency Generator Fuel Tank Compliance upgrades Phase 3 and 5	Construction	1,700	-	-	-	-	-	-
	Total	1,700	-	-	-	-	-	-
180 Asphalt Content Ignition Furnace - Construction		-	-	-	-	-	7	7
181 Bar Pullout Tester - Construction		4	-	-	-	-	-	-
182 Bench Oven - Construction		5	-	-	-	-	-	-
183 Concrete End Grinder - Construction		8	-	-	-	-	-	-
184 Concrete Testing Equipment - Construction		-	-	-	-	-	9	9
185 Electronic Scale - Construction		-	-	-	-	-	3	3
186 Gyratory Compactor/Molds/Equipment - Construction		22	-	-	-	-	-	<u> </u>
187 Lab Oven - Construction		-	-	-	-	-	4	4
188 Nuclear Densometer - Construction		3	-	5	-	-	-	5
189 Survey GPS Instrument - Construction		-	10	10	10	10	54	94
190 Survey Total Station Replacement - Construction		-	-	-	-	-	39	39
191 Valve Actuators - Corbett Creek WPCP		-	25	-	25	-	-	50

Appendix D: 2023-2032 Sanitary Sewerage System Capital Forecast (\$,000's) Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix C for financing details for capital projects proposed in 2023.									
Durham 🕄 Exp				Forec	cast				
	enditure 2023 Propose ategory Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
192 WAS Pump Replacement - Corbett Creek WPCP	-	50	-	-	-	-	50		
193 Aeration Cell Cleanout - Sand - Courtice WPCP	-	200	-	-	-	-	200		
194 Biosolids Transfer Pumps - Courtice WPCP	-	15	-	-	-	-	15		
195 Chemical Pump Replacement - Various Locations	1	8 12	-	30	-	12	54		
196 Clarifier Mechanisms - Courtice WPCP	-	32	32	-	-	-	64		
197 Digester Mixing Pump Rebuild - Courtice WPCP	-	15	-	15	-	30	60		
198 Digester Mixing Pumps - Courtice WPCP	-	-	15	-	15	15	45		
199 Grit Blower Rebuild - Courtice WPCP	1	0 -	10	-	10	-	20		
200 Return Pump Rebuild - Courtice WPCP	-	-	-	-	-	30	30		
201 Truck Loading Pump Rebuild - Courtice WPCP	-	-	15	-	15	-	30		
202 Wasting Pump Rebuild - Courtice WPCP	-	10	-	10	-	20	40		
203 Analytical Balance Bench Scale - Duffin Creek WPCP	1	5 -	-	-	-	-	-		
204 Auto Sampler Replacement - Duffin Creek WPCP	2	5 -	-	-	-	75	75		
205 Barscreen Replacement/Major Repair - Duffin Creek WPCP	-	-	-	-	150	150	300		

Durham 🕄			Forecast					
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
206 BAS Server Replacement - Duffin Creek WPCP		75	-	-	-	-	75	75
207 Biofilter Inspection/Media Replacement - Duffin Creek WPCP		-	-	100	100	100	200	500
208 Blower Building Major Repairs - Duffin Creek WPCP		-	-	-	-	-	200	200
209 Bobcat Replacement - Duffin Creek WPCP		-	-	75	-	-	-	75
210 Boiler Building Instrumentation - Duffin Creek WPCP		-	75	75	75	-	-	225
211 Chain and Flyght Replacement - Stage 3 Secondary Clarifier - Duffin Creek WPCP		100	-	-	-	-	-	-
212 Density Meter Replacement - Duffin Creek WPCP		-	-	-	88	-	-	88
213 Dewatered Sludge Conveyor Replacement - Duffin Creek WPCP		-	-	-	125	-	125	250
214 Digester Cleanout/Blend Tank - Duffin Creek WPCP		-	125	-	-	-	1,200	1,325
215 Dock Leveler Replacement - Duffin Creek WPCP		30	50	-	-	-	-	50
216 DPD Analyzer - Duffin Creek WPCP		-	17	-	-	-	-	17
217 DR3900 Spectrophotometer - Duffin Creek WPCP		15	-	-	-	-	-	-
218 ERIS Servers - Duffin Creek WPCP		-	75	-	-	-	75	150
219 Filtrate Station LIT Replacement - Duffin Creek WPCP		-	75	-	-	-	-	75

Appendix D: 2023-2032 Sanitary Sewerage Sys Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See			ed in 2023.					
Durham 🕄					Forecas	t		
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
220 Filtrate Station Pump Replacement - Duffin Creek WPCP		-	-	-	-	-	200	200
221 Forklift Replacement - Duffin Creek WPCP		-	-	-	-	-	140	140
222 Gator Replacement - Duffin Creek WPCP		-	25	-	-	-	100	125
223 Grit Conveyor System Replacement - Duffin Creek WPCP		-	-	150	-	-	300	450
224 Integrated Control Technology - Security Project - Various Locations		311	-	-	-	-	-	-
225 Laboratory Meter/Scale Replacement - Duffin Creek WPCP		-	-	15	-	-	65	80
226 Major Centrifuge Component Replacement/Rebuild - Duffin Creek WPCP		-	125	125	125	125	500	1,000
227 Network Core Switches - Duffin Creek WPCP		-	-	150	-	-	150	300
228 Network Switches BAS, SCADA - Duffin Creek WPCP		-	-	-	-	300	300	600
229 OIT Replacements - Duffin Creek WPCP		-	15	15	15	15	75	135
230 Polymer Building PRAP Network Upgrades - Duffin Creek WPCP		40	-	-	-	-	-	-
231 Programmable Logic Controllers (PLCs) - Duffin Creek WPCP		-	200	300	-	-	400	900
232 Radio Network Upgrades - Duffin Creek WPCP		-	-	-	-	-	250	250
233 Reactor #3 ID Fan Replacement Parts - Duffin Creek WPCP		-	-	-	-	150	-	150

	endix D: 2023-2032 Sanitary Sewerage Systems a listing for all projects within the 2023 budget and nine-year capital forecast. See A		• • •	d in 2023.					
	Durham 🕄	E				Foreca	ast		
	Budget 8	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
234	Reactor #4 ID Fan Replacement Parts - Duffin Creek WPCP		-	-	-	-	-	150	150
235	Reactor 1 and/or 2 Major Maintenance - Duffin Creek WPCP		-	100	100	-	-	-	200
236	Replace flowmeters and transmitters at Reactor 3 - Duffin Creek WPCP		-	-	-	-	-	150	150
237	Replace flowmeters and transmitters at Reactor 4 - Duffin Creek WPCP		-	-	-	-	-	150	150
238	Replace chlorine contact chamber 1/2 level sensors at effluent station 1. Replace chlorine injector, level sensors, pH/Temp AIT and TIT, and ORP transmitterat effluent station 2. Replace ORP Analyzer AIT-0113 at chlorine chamber 5-6 - Duffin Creek WPCP		-	105	-	-	-	-	105
239	Replace electrical substation TS-102 power supply to H2 sensor, Replace LITs for diesel generator fuel tanks. Replace flowmeters of diesel transfer pumps - Duffin Creek WPCP		-	-	-	-	-	190	190
240	Replace Fluke Processmeters and A Chamber LIT-0101 at Admin Building - Duffin Creek WPCP		-	23	-	-	-	-	23
241	Replace indicators (PIT, TIT, FIT) and humidification system at the Stage 3 Headwork and Biofilter Areas - Duffin Creek WPCP		-	75	80	-	-	-	155
242	Replace LITs of primary scum tanks and raw sludge density trainsmitters DITs at Stage 3 Primary Gallery - Duffin Creek WPCP		-	-	125	-	-	125	250

Appendix D: 2023-2032 Sanitary Sewerage System Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See A	-	• · · · · · · · · · · · · · · · · · · ·	d in 2023.					
					Forecas	st		
Durham Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
243 Replace LITs of Storage Tank 2,4,3 at Stage 3 Disinfection - Duffin Creek WPCP		-	-	-	-	-	45	45
Replace methane sensors, H2S sensors, PITs, TITs, 244 LITs, and FITs at Stage 2 Headworks - Duffin Creek WPCP		-	-	-	150	150	-	300
245 Replace transmitters (PITs, TITs, LITs, and AITs) at Reactor 3 - Duffin Creek WPCP		-	-	-	-	100	100	200
246 Replace transmitters (PITs, TITs, LITs, and AITs) at Reactor 4 - Duffin Creek WPCP		-	-	-	-	-	200	200
Replace transmitters (PITs, TITs, LITs, and AITs), 247 process and safety valves at the South Incineration Common Area - Duffin Creek WPCP		-	75	75	-	-	-	150
Replace transmitters (PITs, TITs, LITs, Vibration 248 Sensor, and AITs) at the North Incineration Common Area - Duffin Creek WPCP		-	100	-	100	-	100	300
Replace Wet Well No.1/No.2 LIT-0101/LIT-0102, strainer No.3 - No.5 differential pressure switches, and main header PIT-0192 at Stage 3 Effluent Pumping Station - Duffin Creek WPCP		-	-	-	-	-	70	70
250 Schwing Sludge Pump Major Component Replacement - Duffin Creek WPCP		-	125	-	125	-	250	500

Appendix D: 2023-2032 Sanitary Sewerage Syst Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See			d in 2023.					
Durham 🔀	Expenditure	2023 Proposed						Forecast
Budget	Category	Budget	2024	2025	2026	2027	2028-2032	Total
251 Secondary Clarifier (Circular) Gearbox - Duffin Creek WPCP		240	-	-	-	-	-	-
252 Secondary Clarifier (Circular) Major Repairs - Duffin Creek WPCP		-	150	150	150	-	-	450
253 Secondary Clarifier (Circular) Upgrades - Duffin Creek WPCP		-	200	200	200	-	-	600
254 Secondary Clarifier Chain and Flyght Replacement - Duffin Creek WPCP		-	100	100	100	-	-	300
255 Servers - Duffin Creek WPCP		-	-	100	-	-	100	200
256 Sludge Tank Cleaning - Duffin Creek WPCP		-	-	100	-	-	100	200
257 Uninterruptable Power Supplies (UPS) - Duffin Creek WPCP		-	-	-	-	250	300	550
258 VxRail Replacement Project (Virtual Server) - Duffin Creek WPCP		-	-	175	-	175	420	770
259 Analytical Balance (Inorganics) - Environmental Lab		-	25	-	-	-	-	25
260 Auto Titration System (Inorganic) - Environmental Lab		-	-	-	-	-	100	100
261 Autoclaves - Environmental Lab		-	-	-	-	-	150	150
262 Balances - Environmental Lab		-	-	-	-	-	52	52
263 Biochemical Oxygen Demand (BOD) Incubators - Environmental Lab		40	-	-	-	-	-	-
264 Biological Oxygen Demand Analyzer - Environmental Lab		11	-	-	-	60	-	60

Appendix D: 2023-2032 Sanitary Sewerage System Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Append							
Durham 🕄 🗉	xpenditure 2023 Proposed			Foreca	ast		
	Category Budget	2024	2025	2026	2027	2028-2032	Forecast Total
265 Biosafety Cabinet - Environmental Lab	-	-	-	-	-	25	25
266 BOD Incubators (Inorganic) - Environmental Lab	-	-	-	40	-	-	40
267 Centrifuge (Inorganics) - Environmental Lab	12	-	-	-	-	-	-
268 PCR Equipment - Environmental Lab	-	295	-	-	-	-	295
269 Digestion Block with Controllers - Environmental Lab	80	-	-	-	-	-	-
270 Dishwasher - Environmental Lab	10	-	65	-	-	110	175
271 Drying Oven (MB) - Environmental Lab	-	-	-	-	-	3	3
272 Freezer - Environmental Lab	-	35	-	-	-	4	39
273 Gas Chromatograph / Dual Electron Capture Detector - Environmental Lab	-	-	75	-	-	-	75
274 Gas Chromatograph / Mass Spectrometer / MS (Extractables) - Environmental Lab	300	-	-	-	-	-	-
275 Incubators (Microbiology) - Environmental Lab	-	-	-	-	-	65	65
276 Inductively Coupled Plasma - Optical Emission Spectrometer - Environmental Lab	-	150	-	-	-	-	150
277 Ion Chromatograph - Environmental Lab	-	-	-	-	130	-	130
278 Lab Oven (Inorgranics) - Environmental Lab	-	-	-	-	-	15	15

Appendix D: 2023-2032 Sanitary Sewerage Syste Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Ap			d in 2023.					
Durham 🕄					Forecas	st		
Budget S	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
279 Liquid Chromatograph Mass Spectrometer - Environmental Lab		-	-	-	-	-	400	400
280 Media Preparing Equipment (Microbiology) - Environmental Lab		-	-	-	-	-	65	65
281 Mercury Analyzer (Cold Vapour Fluorescence / Atomic Absorption) - Environmental Lab		-	-	-	-	70	-	70
282 Microscope - Environmental Lab		75	-	-	-	-	30	30
283 Muffle Furnace - Environmental Lab		-	-	-	-	-	20	20
284 Nanodrop - Environmental Lab		-	25	-	-	-	-	25
285 Pharmacy Lab Refrigerator - Environmental Lab		-	-	-	-	-	15	15
286 Powder Containment System (MB) - Environmental Lab		-	-	-	-	-	6	6
287 Skalar Auto Sampler - Environmental Lab		-	-	-	-	25	-	25
288 Skalar Low P Analyzer - Environmental Lab		-	-	-	-	65	-	65
289 Skalar Segmented Flow Analyzer - Environmental Lab		-	130	-	-	-	-	130
290 Solids Manifold - Environmental Lab		20	-	-	-	-	-	-
291 SPME Gas Chromatograph / Mass Spectrometer / Mass Spectrometer - Environmental Lab		-	-	-	310	-	-	310
292 Turbovaps - Environmental Lab		-	36	-	-	-	-	36

Appendix D: 2023-2032 Sanitary Sewerage System Capit Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix C for fir		ed in 2023.					
<b>Durham</b> S Expendi				Foreca	st		
Durnam BudgetSExpendi Catego		2024	2025	2026	2027	2028-2032	Forecast Total
293 UV Spec. Plate Readers - Environmental Lab	-	30	-	-	-	-	30
294 Vacusafe (MB) - Environmental Lab	-	-	-	-	-	4	4
295 Water Purification System - Environmental Lab	25	-	-	-	-	30	30
296 Teleloggers - Environmental Services Design	-	5	5	5	5	20	40
297 Mechanical Bar screen Replacement - Lake Simcoe WPCP	-	-	100	-	-	-	100
298 RAS Piping - Nonquon WPCP	95	-	-	-	-	-	-
301 RAS Chamber Split - Plants North - Nonquon	-	75	-	-	-	-	75
302 Backflow Preventer Device Replacement - Port Darlington WPCP	29	-	-	-	-	-	-
303 Digester Mixing Pump Rebuild/Replacement - Port Darlington WPCP	-	-	-	-	20	20	40
304 Grit Blower Rebuild/Replacement - Port Darlington WPCP	-	-	-	-	-	20	20
305 Grit Pump Rebuild/Replacement - Port Darlington WPCP	-	-	10	-	-	10	20
306 RAS Pump - Port Darlington WPCP	-	-	-	15	-	30	45
307 Raw Sewage Pump - Port Darlington WPCP	-	-	-	-	50	50	100
308 Raw Sludge Pump - Port Darlington WPCP	-	-	15	-	15	15	45

Durham 🕄	- 114				Forecas	it		
Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
309 Sodium Bisulfite HVAC - Port Darlington WPCP		135	-	-	-	-	-	-
310 Wasting Pump Rebuild/Replacement - Port Darlington WPCP		-	-	-	-	10	10	20
311 48" Round Shoring - Sunderland Depot		-	3	-	-	-	3	6
313 Pipe Locator - Sunderland Depot		-	3	-	-	-	3	6
314 Pressure Washer - Sunderland Depot		-	3	3	-	-	-	6
315 Snow Fence Replacement - Sunderland Depot		-	-	-	-	-	6	6
316 Temporary Traffic Control Sign replacement - Sunderland Depot		-	2	2	-	2	4	10
317 Trench box replacement - Sunderland Depot		-	-	-	-	-	5	5
318 Install AC for Blower Room - Uxbridge Brook WPCP		50	205	-	-	-	-	205
319 Mechanical Bar screen Refurbishment - Uxbridge Brook WPCP		-	100	-	-	-	-	100
320 Arc Flash Study Review - Water Pollution Control Plants		-	-	-	200	-	-	200
321 Electrical Equipment Replacements - WPCP Pumping Stations		50	110	110	50	110	100	480
322 Level Sensing Flow Meters - WPCP Pumping Stations - North		-	80	-	-	-	-	80
323 Pump Replacements - WPCP Pumping Stations - South		-	100	100	100	100	200	600

Durham 🕄			Forecast						
Budget 82	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
324 Integrated Control Technology - Security Project - Duffin Creek WPCP		25	-	-	-	-	-	-	
Machinery and Equipment Subtotal		61,829	70,076	43,577	61,263	80,977	213,243	469,136	
Information Technology									
325 SCADA System Master Plan for the sanitary sewage pumping stations and implementation requirements		500	-	1,300	1,500	-	-	2,800	
326 Standard Laptop		1	2	-	-	-	-	2	
327 Power Laptop		13	22	2	6	6	7	43	
328 Scanner and Wide Format Black & White Printer - Construction		-	-	-	22	-	-	22	
329 UPS/Power PDU - Various Locations		-	-	192	-	-	384	576	
330 GIS Hardware (Monitors, backup devices and other) - Data System Management		5	-	-	-	-	-	-	
331 Tablet		6	-	-	-	-	-	-	
332 Laptops - Duffin Creek WPCP		-	10	-	-	5	15	30	
333 SCADA Programming Software Upgrade (ifix) - Duffin Creek WPCP		50	-	-	-	250	250	500	
334 SCADA Workstations (Desktops) - Duffin Creek WPCP		10	10	10	10	10	50	90	
335 Barcode Printers - Environmental Lab		8	-	-	-	-	-	-	
336 LIMS Backup Server - Environmental Lab		-	40	-	-	-	-	40	

Durham 🕄	E				Forecas			
Durham Budget	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
337 LIMS Computer System - Environmental Lab		100	-	-	-	-	120	120
338 LIMS Domain Controllers - Environmental Lab		-	-	-	50	-	-	50
339 Power Laptop (with Monitor)		5	7	-	-	-	-	7
340 Tablet - Environmental Services Design		-	4	4	4	4	20	36
341 Computers & Monitors Refresh - Financial Services		265	205	63	254	208	860	1,590
342 Fuel Management System & Infrastructure Replacement - Various Locations		-	-	217	-	-	-	217
343 Mobile ERIS Equipment - Water Pollution Control Plants		-	-	12	-	-	-	12
344 Server/Communications Equipment - WPCP Pumping Stations		-	150	-	-	-	-	150
Information Technology Subtotal		963	450	1,800	1,846	483	1,706	6,285
Vehicles								
345 1/2 Ton Pick-up Truck - Various Locations		-	134	28	28	56	84	330
346 1 Ton High Roof Van - Ajax Depot		-	42	-	-	-	-	42
347 Forklift - Various Locations		-	25	-	-	-	-	25
348 Tractor - Ajax Depot		-	100	-	-	-	-	100
349 Rubber tire roller compaction unit - Orono Depot		-	20	-	-	-	-	20

Appendix D: 2023-2032 Sanitary Sewerage System Capital Forecast (\$,000's) Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix C for financing details for capital projects proposed in 2023.										
🔊 Durham 🛛 🕄	Expenditure	2023 Proposed	Forecast							
Budget	Category	Budget	2024	2025	2026	2027	2028-2032	Forecast Total		
Asphalt Grinder Attachement (Skid Steer Loader) - Oshawa/Whitby Depot		-	-	-	8	-	-	8		
351 Hybrid Van - Oshawa/Whitby Depot		-	17	-	-	-	-	17		
352 Sidewalk Plow/Snowblower - Oshawa/Whitby Depot		-	-	-	-	-	50	50		
353 Snow Blower for skid steer loader - Oshawa/Whitby Depot		-	10	-	-	-	-	10		
354 Street Flusher - Oshawa/Whitby Depot		-	-	-	117	-	-	117		
355 Street Sweeper attachment for Roadside Mower/Tractor - Oshawa/Whitby Depot		-	8	-	-	-	-	8		
356 Tandem Axle Truck - Oshawa/Whitby Depot		-	-	-	-	-	83	83		
357 Vactor 2100 - Oshawa/Whitby Depot		395	-	-	-	-	-	-		
358 3/4 Ton Pick Up - Scugog Depot		-	28	-	-	-	-	28		
359 Backhoe with Breaker Attachment - Sunderland Depot		-	125	-	-	-	-	125		
Vehicles Subtotal		395	509	28	153	56	217	963		

Appendix D: 2023-2032 Sanitary Sewerage System Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appen			ed in 2023.						
			Forecast						
	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total	
Furniture and Fixtures									
360 A/V Equipment and Technology Upgrades - Various Locations		10	10	10	10	10	20	60	
361 Parts Cabinets - Ajax Depot		-	16	-	-	-	-	16	
362 Office Chairs - Financial Services		-	1	1	1	1	4	8	
<ul> <li>Heavy Duty Steel Racking for Materials Storage Building</li> <li>Orono Depot</li> </ul>		-	65	-	-	-	-	65	
364 Office Furniture - Various Locations		-	1	-	1	-	-	2	
365 Parts Cabinets - Oshawa/Whitby Depot		-	109	-	-	-	-	109	
Furniture and Fixtures Subtotal		10	202	11	12	11	24	260	
Allowances & Other Provisions									
366 Regional Sewage Master planning study for the Regional Official Plan Review		600	-	-	-	-	800	800	
367 Biosolids Master Plan		500	500	-	-	-	-	500	
368 York Durham Sanitary Sewerage Master Plan		500	500	-	-	-	-	500	
369 Inflow/infiltration monitoring, studies and required remedial works in various locations		-	500	500	500	500	2,500	4,500	
370 Emergency Planning Updating Requirements		-	100	-	-	-	-	100	
371 Asset Condition Assessments - Reports for the Vertical Assets		300	-	300	300	300	1,500	2,400	

Appendix D: 2023-2032 Sanitary Sewerage Syste Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Ap			d in 2023.					
			Forecast					
Durham 800	Expenditure Category	2023 Proposed Budget	2024	2025	2026	2027	2028-2032	Forecast Total
372 Asset Condition Assessment/ investigation on trunk sanitary sewer/forcemain system		-	200	200	200	200	1,000	1,800
373 Climate Change Strategy Allowance		-	300	-	-	-	200	500
<ul><li>Allowance for Vulnerability Assessments for Water</li><li>Pollution Control Plants</li></ul>		-	350	-	350	-	-	700
375 Allowance for acquisition of easements		100	100	100	100	100	500	900
376 Allowance for engineering studies		150	150	150	150	150	750	1,350
<ul><li>377 Phosphorus Reduction Study for Lake Simcoe Water</li><li>Pollution Control Plants.</li></ul>		-	-	-	-	250	-	250
378 Preliminary engineering		100	100	100	100	100	500	900
379 Allowance for sundry extensions as per Council policy		15	15	15	15	15	75	135
380 Allowance for unknown requirements		100	100	100	100	100	500	900
<ul> <li>Allowance for land severance review and drawing requirements</li> </ul>		100	100	100	100	100	500	900
<ul><li>Allowance for Regional share for works in conjunction</li><li>with residential subdivision development</li></ul>		2,000	2,000	2,000	2,000	2,000	10,000	18,000
<ul><li>Allowance for Regional share for works in conjunction</li><li>with non-residential development</li></ul>		500	500	500	500	500	2,500	4,500
384 Allowance for intensification		350	350	350	350	350	1,750	3,150
Allowances & Other Provisions Subtotal		5,315	5,865	4,415	4,765	4,665	23,075	42,785

Provides a listing for all projects within the 2023 budget and nine-year capital forecast. See Appendix C for financing details for capital projects proposed in 2023.

Durham 🕄		2023 Proposed Budget	Forecast						
Durham Budget 82	Expenditure Category		2024	2025	2026	2027	2028-2032	Forecast Total	
Sanitary Sewerage System Subtotal		147,452	343,922	302,022	249,876	211,886	1,155,490	2,263,196	
<b>Total</b> Sanitary Sewerage System		147,452	343,922	302,022	249,876	211,886	1,155,490	2,263,196	

\* Rows and columns may not add due to rounding

\*\* Pre-construction capital financing includes expenditures for land purchases, utility relocates, preliminary studies, design, etc.

\*\*\* Projects with regularly recurring expenditures include allowances, machinery and equipment, information technology, vehicles and furniture and fixtures, etc. do not include separate pre-construction and contruction capital financing

\*\*\*\* Appendix D includes financing of the following development charge shortfalls as follows:

	2023	2024	2025	2026	2027	2028 - 2032	Grand Total
DC Shortfall							
Residential DC Shortfall	-	97,362	59,557	69,298	12,000	146,982	385,199
Commercial DC Shortfall	-	-	-	-	-	14,442	14,442
Institutional DC Shortfall	169	622	461	454	245	1,637	3,588
Industrial DC Shortfall	10,215	16,002	26,555	29,249	9,385	109,392	200,798
Total DC Shortfall	10,384	113,986	86,573	99,001	21,630	272,453	604,027
Shortfall Financing Source							
Rate Stabilization Reserve Fund - Sewer	-	58,469	22,439	-	-	55,284	136,192
Debenture - DC Funded	-	38,893	52,177	69,298	12,000	106,140	278,508
User Rate	10,384	16,624	11,957	29,703	9,630	111,029	189,327
Total Funding	10,384	113,986	86,573	99,001	21,630	272,453	604,027