



The Regional Municipality of Durham

Works Committee Agenda

Wednesday, March 6, 2024, 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. Committee meetings may be [viewed via live streaming](#).

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9. Advisory Committee Resolutions

There are no advisory committee resolutions to be considered

10. Confidential Matters

There are no confidential matters to be considered

11. Other Business

12. Date of Next Meeting

Wednesday, April 3, 2024 at 9:30 AM

13. Adjournment

Notice regarding collection, use and disclosure of personal information:

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The Regional Municipality of Durham

MINUTES

WORKS COMMITTEE

Wednesday, February 7, 2024

A regular meeting of the Works Committee was held on Wednesday, February 7, 2024 in Council Chambers, Regional Headquarters Building, 605 Rossland Road East, Whitby, Ontario at 9:30 AM. Electronic participation was offered for this meeting.

1. Roll Call

Present: Councillor Barton, Chair
Councillor Marimpietri, Vice-Chair
Councillor Cook*
Councillor Crawford
Councillor Mulcahy
Councillor Nicholson
Councillor Yamada
Regional Chair Henry
***denotes Councillors participating electronically**

Absent: None

Also

Present: Councillor Jubb*
Councillor McDougall*
Councillor Neal*
Councillor Pickles*
Councillor Schummer*
Councillor Woo*
***all visiting Councillors participated electronically**

Staff

Present: A. Chung, Systems Support Specialist, Corporate Services – IT
S. Ciani, Committee Clerk, Corporate Services – Legislative Services
S. Dessureault, Committee Clerk, Corporate Services – Legislative Services
C. Dunkley, Director of Corporate Infrastructure and Strategic Business Services, Works Department
A. Evans, Director of Waste Management Services
M. Hubble, Director of Environmental Services
J. Hunt, Regional Solicitor/Director of Legal Services

R. Jagannathan, Acting Commissioner of Works
A. Porteous, Supervisor, Waste Services
L. Saha*, Manager, Waste Services
N. Taylor*, Commissioner of Finance
P. Veiga, Manager, Waste Management Operations
A. Wakeford, Senior Solicitor
* **denotes staff participating electronically**

2. Declarations of Pecuniary Interest

There were no declarations of pecuniary interest.

3. Adoption of Minutes

Moved by Councillor Marimpietri, Seconded by Councillor Crawford,
(6) That the minutes of the regular Works Committee meeting held on
Wednesday, January 10, 2024, be adopted.
CARRIED

4. Statutory Public Meetings

There were no statutory public meetings.

5. Presentations

5.1 Andrew Evans, Director of Waste Management, and Peter Veiga, Manager of
Waste Operations, re: Update on Durham's Transition to Extended Producer
Responsibility (EPR) and Organics Program Changes

Andrew Evans, Director of Waste Management and Peter Veiga, Manager of
Waste Operations, provided a PowerPoint presentation regarding an update on
Durham's transition to Extended Producer Responsibility (EPR) and Organics
Program Changes.

Highlights from the presentation included:

- Purpose
- Blue Box Regulation (Ontario Regulation 391/21)
- Current/After July 1, 2024
- Roles and Responsibilities
- Eligible Sources
- July 1, 2024, to December 31, 2025
- Transition Communication to Residents
- Blue Box Transition Communication Channels and Timelines
- Contractual Changes
- Durham Region Material Recovery Facility

- Contractual Changes
- Enhanced Green Bin
- Promotion of Enhanced Green Bin to Residents
- Enhanced Green Bin Communication Channels and Timelines

A. Evans and P. Veiga responded to questions from the Committee regarding how the Region's Material Resource Recovery Facility (MRF) will be utilized after the transition to extended producer responsibility (EPR); what the communication strategy to residents will be and who will be responsible for those costs; how the Region's battery collection will be affected after the transition to EPR; how the producers will be reporting collection statistics to the Region; whether there will be any loss of Regional jobs due to the EPR transition; the expansion of items permitted in the green bin and the goal to reduce the amount of garbage in order to not have to increase the capacity at the Durham York Energy Centre (DYEC); whether staff are able to provide the Committee with a cost analysis pre-transition, during the transition, and post-transition to EPR; and who is eligible to receive a free waste diversion kit from the Region.

6. Delegations

There were no delegations heard.

7. Waste

7.1 Correspondence

There were no communication items considered.

7.2 Reports

There were no Waste Reports considered.

8. Works

8.1 Correspondence

There were no communication items considered.

8.2 Reports

- A) Lease Extension and Amendment Agreement with 2381502 Ontario Inc., Operating as Midtown Centre for Premises occupied by Social Services Department, Income and Employment Support Division, located at 200 John Street in the City of Oshawa ([2024-W-3](#))
-

Report #2024-W-3 from R. Jagannathan, Acting Commissioner of Works, was received.

Moved by Councillor Nicholson, Seconded by Councillor Marimpietri,
(7) That we recommend to Council:

- A) That the Lease Extension and Amendment Agreement with 2381502 Ontario Inc., for the premises located at 200 John Street, in the City of Oshawa, containing 15,776 square feet of office space, be approved with the following terms and conditions:
- i) The term is for a period of two years, commencing May 1, 2024, and ending April 30, 2026, with the option to renew the lease for an additional two years under the same terms and conditions except the rental rate, which is to be negotiated at time of renewal;
 - ii) The annual rental rate for the two years is \$236,640* based on a rate of \$15.00* per square foot per annum;
 - iii) The Regional Municipality of Durham will be responsible for all operating costs for the leased space, including utilities, security and its proportionate share of the common area maintenance costs and taxes; and
- B) That the Regional Chair and Clerk be authorized to execute all documents associated with this Lease Agreement.
(*) excludes applicable taxes

CARRIED

- B) Sole Source Procurement of Plow and Grader Blades and Maintenance Parts for Maintenance Operations and Fleet Services ([2024-W-4](#))
-

Report #2024-W-4 from R. Jagannathan, Acting Commissioner of Works, was received.

Moved by Councillor Nicholson, Seconded by Councillor Marimpietri,
(8) That we recommend to Council:

- A) That a sole source contract be awarded to Valley Blades Ltd. for the supply of plow and grader blades and maintenance parts for the Fleet Services Division and the five (5) Maintenance Operations Depots (Ajax/Pickering, Oshawa/Whitby, Orono, Sunderland, and Scugog Depots) for a one (1) year term, with the option to extend for an additional four (4) one (1) year terms, with an upset limit of \$400,000* (\$80,000* per annum), to be financed through the Winter Maintenance program Business Plans and Budget; and
- B) That the Commissioner of Finance be authorized to execute the necessary documents related to the contract.

(*) before applicable taxes
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 Recognizing and Advertising for Regional Events

Discussion ensued regarding whether there was an opportunity to put an insert in with the paper water bill that would highlight any Regional events such as cultural festivals for Durham residents. N. Taylor, Commissioner of Finance advised that paper circulation has been dramatically cut back as residents are encouraged to receive their water bill electronically if possible, but advised that there could be a possibility of utilizing electronic formats in order to advertise future events.

Further discussion ensued regarding staff reaching out to the local municipalities to discuss alternatives and options to utilize their existing inserts to communicate cultural festivals and other events to the residents.

11.2 Lack of an Easily Accessible Waste Transfer Station in South Oshawa

Discussion ensued regarding the lack of an accessible waste transfer station in South Oshawa. The current waste transfer stations are located on the edges of urban areas or in rural areas in Durham Region and are a long drive for residents and it was questioned if staff could look at the possibility of partnering with local municipalities to provide a waste transfer station in the southern areas, even as a pilot program. R. Jagannathan, Acting Commissioner of Works advised that staff would look into this option with City of Oshawa staff.

In response to a question from Regional Chair Henry with respect to the enforcement related to garbage that is dumped along roadsides, in parks, etc. and if that data is available, staff advised that enforcement can only occur if a resident's address is found within the dumped items, but that data is collected and can be provided to the Regional Chair Henry directly.

12. Date of Next Meeting

The next regularly scheduled Works Committee meeting will be held on Wednesday, March 6, 2024 at 9:30 AM in Council Chambers, Regional Headquarters Building, 605 Rossland Road East, Whitby.

13. Adjournment

Moved by Councillor Nicholson, Seconded by Councillor Mulcahy,
(9) That the meeting be adjourned.

CARRIED

The meeting adjourned at 11:01 AM

Respectfully submitted,

D. Barton, Chair

S. Ciani, Committee Clerk



The Regional Municipality of Durham Report

To: Works Committee
From: Acting Commissioner of Works
Report: #2024-WR-1
Date: March 6, 2024

Subject:

New Waste Management Services By-law

Recommendation:

That the Works Committee recommends to Regional Council:

- A) That By-law #46-2011, as amended, a By-law to regulate the provision of Waste Management Services under the jurisdiction of the Regional Municipality of Durham, be repealed and replaced with a revised Waste Management Services By-law generally in the form included as Attachment #1 to this report, as modified and approved by the Regional Solicitor; and
 - B) That staff be directed to submit a short form wording and set fines application, in a form satisfactory to the Regional Solicitor, to the Provincial Regional Senior Justice for approval, and such court order be attached to the by-law once received for reference.
-

Report:

1. Purpose

- 1.1 This report summarizes the substantive revisions proposed to By-law #46-2011, which currently regulates the provision of waste management services under the jurisdiction of the Regional Municipality of Durham (Region).

2. Background

- 2.1 By-law #46-2011 was developed in 2011 to address the curbside set-out requirements and waste diversion obligations for residents and to give the Region

authority to enforce compliance with waste disposal requirements. By-law #46-2011 was amended once in 2013.

- 2.2 In 2024, there will be two significant changes to Waste Management Services programs: the launch of an Enhanced Green Bin program for source-separated organics and the transition of responsibility for the Blue Box Program to producers of the products and packaging recycled in the program.
- 2.3 Another significant change to the Waste Management Services program will occur in 2025/2026 when the Region launches the source-separated organics program for multi-residential buildings receiving municipal garbage collection services.

3. Previous Reports and Decisions

- 3.1 Regional Council approved Report #2023-WR-3, Organics Management Plan – Next Steps, for the launch of an Enhanced Green Bin program in 2024 and directed staff to make the necessary updates to By-law #46-2011 to reflect the new program.
- 3.2 Regional Council approved Report #2023-WR-9, Organics Management Plan – Multi-Residential Enhanced Green Bin Program for the implementation of a source-separated organics program for multi-residential buildings already receiving waste collection services from the Region, to be phased in over several years beginning in 2025 and to make the necessary updates to By-law #46-2011 to reflect the new program.
- 3.3 Regional Council endorsed Report #2020-COW-15, Council Resolution - Blue Box Transition Date, on the Region's transition to the Extended Producer Responsibility program.

4. Summary of Substantive Changes from By-law #46-2011

- 4.1 Definitions in the by-law have been updated to reflect updated terms in the Extended Producer Responsibility regulations for tires, electrical and electronic materials, lighting, batteries, household special waste and Blue Box materials. The wording throughout the by-law has been simplified and streamlined.
- 4.2 References to the Region providing the Blue Box Program curbside and in multi-residential buildings have been removed throughout the by-law. On July 1, 2024, the Region will no longer be operationally or financially responsible for the Blue Box Program. The proposed new by-law provides the legal definition of Blue Box

material and prohibits Blue Box material from being placed in the garbage for curbside collection. The producers will determine all other parameters for setting out and collecting Blue Box material after July 1, 2024.

- 4.3 The list of acceptable items for the Green Bin has been expanded to reflect the launch of the Enhanced Green Bin program on July 1, 2024. Residents will be able to place pet waste and pet litter, diapers, incontinence and sanitary products in the Green Bin.
- 4.4 Clauses have been revised throughout the by-law to indicate that a source-separated organics program is available for multi-residential buildings receiving garbage collection services from the Region. The proposed new by-law is provided as Attachment #1.
- 4.5 Schedule P in By-law #46-2011 outlines the waste sorting and collection vehicle access requirements for servicing multi-residential buildings and new residential developments. Schedule P is a stand-alone document in the new by-law titled “Technical and Risk Management Guidelines for Municipal Waste Collection Services on Private Property and for New Residential Developments in Durham Region” (Attachment #2). This document is incorporated by reference in the by-law and can be revised as staff continue to develop more options for servicing multi-residential buildings and the more compact new developments associated with densification.
- 4.6 The proposed short-form wording and set fines for violations of the by-law will be updated to reflect the changes. Regional staff will submit an application in a form satisfactory to the Regional Solicitor, to the Provincial Regional Senior Justice. Once approved, the set fines and short form wordings will be attached to the by-law for ease of reference.

5. Relationship to Strategic Plan

- 5.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
 - a. Goal 1.2 Increase waste diversion and resource recovery.
 - b. Goal 1.3 Protect, preserve and restore the natural environment, including green spaces, waterways, parks, trails and farmlands.

6. Conclusion

- 6.1 By-law #46-2011 was last updated in 2013 and does not reflect current regulations and upcoming Waste Management Services program changes.
- 6.2 Repealing and replacing By-law #46-2011 with a new Waste Management Services by-law allows the Regional Municipality of Durham to modernize the by-law language and make the changes necessary to reflect regulatory and program changes.
- 6.3 This report has been reviewed by the Finance Department, Legislative Services – Corporate Services and Legal Services – Office of the CAO.
- 6.4 For additional information, contact: Andrew Evans, Director, Waste Management Services, at 905-668-7711, extension 4102.

7. Attachments

Attachment #1: Proposed New Waste Management Services By-law

Attachment #2: Technical and Risk Management Guidelines for Municipal Waste Collection on Private Property and for New Residential Developments in Durham Region

Respectfully submitted,

Original signed by:

Ramesh Jagannathan, MBA, M.Eng., P.Eng., PTOE
Acting Commissioner of Works

Recommended for Presentation to Committee

Original signed by:

Elaine C. Baxter-Trahair
Chief Administrative Officer

By-law Number XX-2024
of The Regional Municipality of Durham

Being a by-law to consolidate, repeal and replace the by-laws that regulate the provision of Waste Management Services under the jurisdiction of The Regional Municipality of Durham.

Whereas Council may pass by-laws respecting waste management in The Regional Municipality of Durham (the “Region” or “Regional” as the circumstances require);

And Whereas on June 1, 2002 Council enacted By-law 33-2002 assuming all waste management powers of the Area Municipalities within the Region;

And Whereas on June 19, 2002 council further enacted By-law 34-2002 exempting the Area Municipalities of the City of Pickering (“Pickering”), the Town of Ajax (“Ajax”), the Town of Whitby (“Whitby”) and the City of Oshawa (“Oshawa”) from the assumption of the waste management powers set out in By-law 33-2002;

And Whereas on March 24, 2004 Council enacted By-law 23-2004, effective January 1, 2004, to transfer lower tier waste management powers from Pickering to the Region;

And Whereas on November 30, 2005, Council enacted By-law 53-2005, effective January 30, 2006, to transfer lower tier waste management powers from Ajax to the Region;

And Whereas on June 3, 2021 the Province of Ontario enacted the Blue Box Regulation (O. Reg. 391/21) transferring operational and financial responsibility for the Durham Region Blue Box to producers of the material on July 1, 2024;

And Whereas the City of Oshawa and the Town of Whitby retain their respective lower tier waste management powers;

And Whereas the City of Oshawa and the Town of Whitby have partnered with the Region to provide standardized waste collection services Region-wide;

And Whereas the Region may impose fees or charges for services or activities provided or done by or on behalf of it, for costs payable by it for services or activities provided or done by or on behalf of any other municipality or local board, and for the use of its property including property under its control.

Now therefore, the Council of The Regional Municipality of Durham hereby enacts as follows:

1. Interpretation

Definitions

1.1 In this By-law:

- (a) “agricultural waste” means waste, other than sewage, resulting from farm operations, including animal husbandry and where a farm operation is carried on in respect of food packing, food preserving, animal slaughtering or meat packing, and includes the waste from such operations;

Attachment #1 to Report #2024-WR-1

- (b) “area municipality” means a local municipality within the Region, as defined in the Municipal Act, 2001;
- (c) “ash” means the solid residue of any household fuel after such fuel has been consumed by fire;
- (d) “biomedical waste” means human anatomical waste, animal anatomical waste, non-anatomical waste, other waste and cytotoxic waste that is generated by:
 - (i) Human health care and residential facilities;
 - (ii) Animal health care facilities;
 - (iii) Medical research and medical teaching establishments;
 - (iv) Veterinary research and veterinary teaching establishments;
 - (v) And includes, but is not limited to, tissues, organs, body parts, blood and blood products, body fluids, human or animal cultures, stocks or specimens, live or attenuated viruses, cell lines, sharps and broken glass.
- (e) “Blue Box materials” means any waste or material designated as such under the Blue Box Regulation (O. Reg. 391/21) to be collected by producers of the material separately from other waste and includes, but is not limited to, the items referred to in Schedule G of this By-law.
- (f) “Blue Box receptacle” has the same meaning as found in the Blue Box Regulation (O. Reg. 391/21);
- (g) “bulky item” means items that do not fit in an acceptable garbage receptacle including, but not limited to, a household item as described in Schedule A of this By-law;
- (h) “Christmas trees” means, for the purpose of this By-law, any natural evergreen trees used for the purpose of celebrating Christmas, excluding any decorations, tinsel, wire or plastic bags.
- (i) “collection point” means the part of an eligible property that has been designated by the Region for the set out and municipal collection of bulky items, garbage, household organics, recyclable materials, metal goods/appliances and yard waste or any other collectible waste;
- (j) “commercial property” means those properties zoned as commercial;
- (k) “Commissioner” means the Commissioner of Works for the Region or designate;
- (l) “compostable liner bag” means
 - (i) A liner bag that meets or exceeds the requirements of the ASTM D-6400 or ASTM 6868 standard, and that are certified by Canada’s Bureau de Normalisation du Quebec Standard for Compostable Plastic Bags P9011-911-5, and/or by the Biodegradable Products Institute of the USA, and that is used for placement of household organics in a Green Bin;
 - (ii) A kraft paper bag used to line a Green Bin;
 - (iii) Another liner bag as may be deemed acceptable by the Region;

Attachment #1 to Report #2024-WR-1

- (m) “composter” means a retail or home-made unit of reasonable appearance and in reasonable condition designed to enhance the decomposition of organic materials into a compost soil, humus, or soil supplement;
- (n) “compost heap” means a designated area of a property intended for the collection of organic materials suitable for the decomposition of the organic materials into a compost soil, humus or soil supplement for which the dimensions and appearance of said area are deemed by the Region to be reasonable for the size of the property and for easy maintenance;
- (o) “contractor” means any individual, firm, company or corporation and the employees or agents of any such individual, firm, company or corporation with whom the Region has entered into a contract or agreement for the collection, processing, handling, haulage, marketing, auditing or disposal of waste;
- (p) “Council” means the Council of the Regional Municipality of Durham;
- (q) “curbside collection” means the municipal collection of waste in proper receptacles from approved collection points, either abutting a property and as close as possible to the edge of the roadway without obstructing the roadway, or adjacent sidewalk(s) or pathway(s) and not extending beyond the frontage of the property.
- (r) “designated business area” means the downtown business areas as designated by the Region;
- (s) “Diaper/Medical Condition Collection Program” means a collection program for residents eligible for special consideration as referred to in Schedule D to this By-law;
- (t) “Electrical and Electronic Equipment or EEE” means waste defined under Ontario Regulation 522/20 and as described in Schedule J of this By-law;
- (u) “eligible property” means one of the following:
 - (i) Any single-family residential dwelling, including single detached dwelling, semi-detached dwelling, duplex dwelling, approved legalized converted dwelling, freehold or condominium frontage townhouse, or any multi-dwelling building deemed eligible by the Region based on the successful application of and the specifications outlined in Durham Region’s Technical and Risk Management Guidelines for Waste Collection Services; and/or
 - (ii) Any other property not listed in (i) and deemed by the Region to be conforming to the provisions of residential collection or deemed part of a designated business area;
- (v) “facility” means a property owned or controlled by the Region for the management, transfer, processing or disposal of waste, or any combination of the foregoing, including:
 - (i) Brock Waste Management Facility located at C22480 Brock Side Road 17, Cannington;
 - (ii) Clarington Household Special Waste Depot located at 1998 Bowmanville Avenue, Bowmanville;
 - (iii) Durham York Energy Centre (DYEC) located at 1835 Energy Drive, Courtice;

Attachment #1 to Report #2024-WR-1

- (iv) Material Recovery Facility (MRF) located at 4590 Garrard Road North, Whitby;
- (v) Oshawa Waste Management Facility located at 1640 Ritson Road North, Oshawa;
- (vi) Scugog Waste Management Facility located at 1623 Reach Street, Port Perry;
- (vii) Waste Management Centre located at 4600 Garrard Road North, Whitby; and/or
- (viii) Any other facility used for the management, transfer, processing or disposal of waste;
- (w) “fee” means any monies payable as determined by the Region for garbage bag tags, waste receptacles, the disposition of any waste at any facility, or for any other products or services as approved by Regional Council;
- (x) “front-end collection” means the bulk collection of waste by means of a front-end collection vehicle;
- (y) “garbage” means solid, non-hazardous waste other than Blue Box materials, household organics, Hazardous and Special Products, metal goods/appliance, bulky items, yard waste, Electrical and Electronic Equipment, porcelain bathroom fixtures and unacceptable waste;
- (z) “garbage bag limit” means four (4) garbage bags or equivalent units of garbage, being the maximum allowable number that may be set out without being tagged, as determined by the Region from time to time as required;
- (aa) “garbage bag tag” means a label approved by the Region for the purpose of identifying any garbage receptacles for collection above the garbage bag limit;
- (bb) “garbage receptacle” means:
 - (i) A front-end loading container, roll-off container, lugger bin, compacter unit, rear packer bin, side loading bin and any other containers designated by the Region as approved containers for the collection of garbage at multi-residential properties;
 - (ii) A rigid container having:
 - (a) A lid which is readily separable from the container, which when covered is watertight;
 - (b) Handles that are attached or molded to the exterior of the container to facilitate lifting and emptying;
 - (c) A capacity less than 125 litres (27 imperial gallons);
 - (d) An external width (diameter) no greater than 60 centimetres (24 inches);
 - (e) Capable of supporting a weight of 20 kilograms (44 pounds);
 - (iii) A plastic bag:
 - (a) With a width no greater than 66 centimetres (26 inches);

Attachment #1 to Report #2024-WR-1

- (b) With a height no greater than 90 centimetres (36 inches);
- (c) That is securely closed or tied when filled; and
- (d) Durable to support a weight of 20 kilograms (44 pounds) when lifted without tearing.
- (iv) And does not include a Blue Box receptacle, a yard waste receptacle or a Green Bin;
- (cc) “Green Bin” means a container for household organics collection for the purpose of the Region-wide organics program, supplied by the Region or any other container determined by the Region as acceptable for setting out household organics materials and described as follows:
 - (i) A plastic, lidded bin, with or without wheels, which is compatible with the Region’s requirements for the provision of household organics collection; and
 - (ii) Having a capacity ranging between 46 to 50 litres (10 imperial gallons).
- (dd) “Hazardous and Special Products” means waste defined under Ontario Regulation 449/21 and any other items referred to as Hazardous and Special Products in Schedule B of this By-law;
- (ee) “home health care waste” means the items referred to in Schedule C used for personal home health care;
- (ff) “household organics” means kitchen food waste and any other organic material collected separately for the purpose of organics processing as determined by the Region and identified in Schedule E of this By-law;
- (gg) “illegal dumping” means the disposal of waste on private property or public property by a person or persons who is neither an owner nor an occupant of the said property and done so without the express permission of the owner of the said property subject to compliance with local by-laws and statutes;
- (hh) “industrial property” means those properties zoned as industrial;
- (ii) “industrial, commercial or institutional waste” means waste originated from any industrial, commercial or institutional property, including but not limited to:
 - (i) An enterprise or activity involving warehousing, storage or industrial, manufacturing, or commercial processes or operations;
 - (ii) Research or experimental enterprise or activity;
 - (iii) An enterprise or activity where goods or services are kept or offered for sale;
 - (iv) Hotels and motels;
 - (v) Clinics that provide medical, dental or veterinary diagnosis or treatment;
 - (vi) Laboratories or hospitals;
 - (vii) Construction or demolition projects, or large home renovations;
 - (viii) Any other property type that is not residential

Attachment #1 to Report #2024-WR-1

- (jj) “Institutional property” includes, but is not limited to, a building that is a seniors’ home, place of worship, day care, community shelter, school, or community college and university student residence, Regional or area municipality property and any other facilities as designated by the Region;
- (kk) “kraft paper bag” means a compostable paper bag designed and manufactured specifically for the handling of household organics and/or yard waste;
- (ll) “landfill site” means one of seven closed landfills managed by the Region but does not include the Waste Management Facility that may be present at the landfill site entrance;
- (mm) “liquid waste” means waste which is not solid and which exhibits evidence of free water, or other liquids, whether or not contained;
- (nn) “metal goods/appliances” include, but are not limited to the items listed in Schedule H of this By-law, but do not include these materials when discarded as a result of renovations to a multi-residential property;
- (oo) “multi-residential property” means a high-rise or mid-rise apartment building, condominium property, townhouse property, co-op property or other similar residential property containing six (6) or more self-contained residential dwelling units;
- (pp) “occupant” means an occupier as defined in the Occupiers’ Liability Act R.S.O. 1990, c. 0.2 or successor legislation;
- (qq) “officer” means a person appointed or hired by the Region as a municipal law enforcement officer and/or a Provincial Offences Officer and/or a Police Officer;
- (rr) “on-site waste collection” means the collection of waste from containers and/or waste storage areas located on private property or public property;
- (ss) “owner” means a person, corporation, partnership or any other legal entity that is the registered owner of a property, land or premise;
- (tt) “pathological waste” means pathological waste as defined in R.R.O. 1990, Regulation 347, passed pursuant to the Environmental Protection Act;
- (uu) “person” means any individual, corporation, partnership or trust and, in the case of a corporation, any direct employee, or agent acting on behalf of the corporation;
- (vv) “pet waste” means feces from any household pet including, but not limited to, dogs, cats and birds and also includes all material that has come into direct contact with the feces and all material contaminated with the feces such as bedding, cage lining and kitty litter;
- (ww) “porcelain bathroom fixtures” means the items included in Schedule K of this By-law and any other waste material designated as porcelain bathroom fixtures by the Region;
- (xx) “private property” means any land or building that is registered to a person on title in the Land Registry Office or Land Titles Division, as the case may be, that is not an area municipality in the Region, a Conservation Authority, the Region or the Crown in Right of Ontario, the Crown in Right of Canada or any emanations thereof unless it is leased to a person or corporation not listed above;

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- (yy) “public property” means any land or building that is owned by an area municipality, a Local Board as defined in the Municipal Act, 2011, the Region, a Conservation Authority, or the Crown in Right of Ontario, the Crown in Right of Canada or any emanations thereof;
- (zz) “receptacle” means a garbage receptacle, Blue Box receptacle, yard waste receptacle, Green Bin or organics cart approved by the Region or other entity responsible for collection of material from the receptacle;
- (aaa) “Region” means, for the purposes of this By-law, the Regional Municipality of Durham;
- (bbb) “residential dwelling unit” means a place of residence designed or intended for habitation by one (1) or more persons for the exclusive use of the person or persons who reside therein that is:
 - (i) A single-detached single-family residence;
 - (ii) A semi-detached single-family residence;
 - (iii) A unit in a duplex, triplex, four-plex, five-plex or six-plex; or
 - (iv) A unit in a residential apartment building, a residential condominium property, a residential townhouse development, a residential co-op property, or other similar residential property which is considered an eligible property under this By-law, and;
 - (v) Excluding a hotel, motel, restaurant or units in a multi-residential property;
- (ccc) “residential waste” means waste that is discarded for collection that originates from a residential dwelling unit or unit in a multi-residential property serviced with municipal waste collection and includes any waste described in this By-law;
- (ddd) “rural property” means a property located in a rural zoning district, or in a general low density development with long, private driveways that the Region approves to use a roadside waste storage box;
- (eee) “roadside waste storage box” means an enclosure used by an owner/occupant of a rural property for the temporary storage of waste which is set out for collection;
- (fff) “scavenge” means the uncontrolled or unauthorized removal of reusable material from waste at any location or facility;
- (ggg) “scheduled collection day” means a day of residential waste collection for a particular geographic area within the Region as determined by the Region, subject to the approval of Council;
- (hhh) “set out” means to place, cause or permit to be placed, waste at any location on private property or public property for the purpose of municipal waste collection;
- (iii) “tagged” means having attached an approved garbage bag tag to a garbage receptacle or, in the case of on-site collection, having paid the collection fee, if applicable, for the collection of garbage receptacles in excess of the garbage bag limit;
- (jjj) “Technical and Risk Management Guidelines for Municipal Waste Collection Services on Private Property and for New Residential Developments in Durham Region” is the document maintained by the

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Region that outlines the minimum design criteria for multi-residential developments and new developments to receive Region provided waste collection services (referred to as Technical Guidelines for Waste Collection Services);

- (kkk) “tires” means material designated under the Tires Regulation (O. Reg. 225/18) as amended from time to time;
- (lll) “unacceptable waste” means waste items set out for collection as referred to in Schedule F of this By-law or other waste not conforming to one or more of the elements of the definition of municipal waste described in Ontario Regulation 347 R.R.O. 1990 or other applicable law or regulation as amended, extended and/or reenacted from time to time;
- (mmm) “unacceptable set out tag” means a written notice, tag or sticker supplied and left by the Region advising the owner/occupant that waste materials have been set out in violation of the requirements described in this By-law;
- (nnn) “waste” includes acceptable and unacceptable material which is discarded from any source, including but not limited to, litter and waste set out for collection including garbage, Blue Box materials, household organic waste, yard waste, bulky items, metal goods/appliances, Electrical and Electronic Equipment and porcelain bathroom fixtures as described within this By-law;
- (ooo) “Waste Management Facility” means a property owned or controlled by the Region that is open to the public for waste drop off, including:
 - (i) Brock Waste Management Facility located at C22480 Brock Sideroad 17, Cannington;
 - (ii) Clarington Household Special Waste Depot located at 1998 Bowmanville Avenue, Bowmanville;
 - (iii) Oshawa Waste Management Facility located at 1640 Ritson Road North, Oshawa;
 - (iv) Scugog Waste Management Facility located at 1623 Reach Street, Port Perry;
 - (v) Any other facility designated by the Region as open to the public for waste drop off;
- (ppp) “yard waste” means the items included in Schedule I of this By-law and any other waste material designated as yard waste by the Region;
- (qqq) “yard waste receptacle” means:
 - (i) An open rigid container having:
 - (a) Handles that are attached or molded to the exterior of the container;
 - (b) A capacity less than 125 litres (27 imperial gallons);
 - (c) Capable of supporting a weight of 20 kilograms (44 pounds);
 - (d) An affixed label that clearly identifies the contents as “YARDWASTE”; and

- (e) If tapered, does not have a smaller circumference at the top than at the bottom; OR
- (ii) A kraft paper bag specifically designed for yard waste:
 - (a) With a width no greater than 66 centimetres (26 inches);
 - (b) With a height no greater than 90 centimetres (35 inches);
 - (c) Has the capability to be securely closed or tied when filled; and
 - (d) Durable to support a weight of 20 kilograms (44 pounds) when lifted without tearing; or
- (iii) A bushel basket capable of supporting 20 kilograms (44) pounds) when lifted; or
- (iv) A bundle of tree and shrub limbs, tied with string or rope (non-plastic), only if such limbs are no more than 100 millimetres (4 inches) in diameter, no longer than 1 metre (3 feet) in length and are securely tied into compact bundles or parcels no more than 20 kilograms (44 pounds) in weight; or
- (v) Such other reusable containers, in good working order or determined by the Region as acceptable for setting out yard waste.

1.2 The provisions of this By-law shall apply to all lands and structures within the boundaries of the Region.

1.3 The necessary grammatical changes required to make the provisions of this By-law applicable to corporations, partnerships, trusts, and persons, and to include the singular or plural meaning where the context so requires, shall in all cases be assumed as though fully expressed.

1.4 The words “include” and “including” are not to be read as limiting the meaning of a word or term to the phrases or descriptions that follow.

1.5 The insertion of headings and the division of this chapter into sections and subsections are for convenience of reference only and shall not affect the interpretation thereof.

1.6 Any references in this By-law to any statutes, regulations or by-laws shall be deemed to be a reference to such statutes, regulations or by-laws, as amended, restated or replaced from time to time.

2. Administration

2.1 The Commissioner of Works shall be responsible for the administration of this By-law.

2.2 All Officers are authorized to enforce this By-law.

2.3 The Commissioner of Works is authorized to delegate the responsibility for the administration of this By-law as deemed appropriate by the Commissioner in accordance with the policies and by-laws of the Region.

2.4 All Schedules attached to this By-law and the Technical Guidelines for Waste Collection Services form part of this By-law.

2.5 The Region may retain a contractor(s) to fulfil the Region’s responsibilities under this By-law.

- 2.6 If, due to a breakdown of equipment, strike, inclement weather, or any other cause, waste collection is not provided to a property, the Region shall not be liable to any person for any damages, costs or expenses due to the failure of such waste collection to take place.
- 2.7 If the Region changes a waste collection day, the Region shall make reasonable efforts to advise all affected persons by notice posted online on the Region's webpage, via the Region's Waste App or direct notice to affected residential dwelling units or by such other method approved by the Region, but in no event shall the Region be liable to any person for the failure to give such notice or the failure of any person to receive such notice.

Authority of the Commissioner of Works

- 2.8 In accordance with the policies and by-laws of the Region, the Commissioner of Works shall have the authority to:
- (a) Operate and administer the Region's waste services in accordance with the provisions of this By-law.
 - (b) Appoint Officers for the purpose of the enforcement of this By-law.
 - (c) Determine the frequency and scheduling of waste collection services, in accordance with the provisions of this By-law.
 - (d) Designate waste collection points.
 - (e) Discontinue or refuse waste collection services to any owner/occupant whose property does not meet the requirements of this By-law including the Technical Guidelines for Waste Collection Services or other collection standards as developed by the Region and/or is deemed unsafe for entry or egress by the Region or the contractor for any reason, including but not limited to, the physical layout, loading facilities or the methods of handling waste on the property.
 - (f) Discontinue or refuse waste collection services to any owner/occupant who, in the reasonable opinion of the Commissioner of Works is in violation of this By-law.
 - (g) Suspend waste collection services in all or part of the Region, in the event of inclement weather or other condition that in the reasonable opinion of the Commissioner of Works renders the provision of waste collection services unsafe or otherwise undeliverable.
 - (h) Establish site specific requirements for waste collection, as a condition of approving a property as eligible to receive Region waste collection services, with the work and expense of conforming to established site specific requirements, in accordance with the Technical Guidelines for Waste Collection Services being the sole responsibility of the owner of the site or property requesting the waste collection service from the Region.
 - (i) From time to time, and subject to the approval of Council, adjust the garbage bag limit and set and adjust fees or charges for the purchase of tags and declare exemption periods during which owner/occupants are permitted to set out garbage receptacles or garbage for on-site waste collection in excess of the limits described in this By-law.
 - (j) From time to time, and subject to the approval of Council, adjust the service levels for the services described in this By-law.

- (k) From time to time, and subject to the approval of Council, designate wastes in addition to those already designated by law or extended producer responsibility programs.
- (l) Establish such other measures required and authorized for the proper administration of Durham Region Waste Management services.
- (m) Evaluate and certify the acceptability for disposal of any waste not specifically dealt with in this By-law, but consistent with this By-law, upon receiving a written request by any person proposing to deposit waste at a facility.
- (n) Specify an acceptable time schedule and pre-disposal conditions for the delivery of waste which might otherwise cause undue operational difficulties at a facility.
- (o) Refuse entry to all vehicles which exceed their licensed weight capacity at a facility.

3. Collection Service

3.1 Waste collection service shall not be provided on the following days or on any other day specified by the Region:

- (a) New Year's Day
- (b) Family Day
- (c) Good Friday
- (d) Victoria Day
- (e) Canada Day
- (f) Civic Holiday
- (g) Labour Day
- (h) Thanksgiving Day
- (i) Christmas Day

3.2 The Region shall collect waste on the scheduled collection day as described in Schedule M to this By-law.

Garbage

3.3 No owner/occupant shall set out residential garbage which is not contained within a garbage receptacle as defined in this By-law.

3.4 No owner/occupant shall set out garbage contained in:

- (a) Paint cans;
- (b) Containers which are smaller at the top than at the bottom;
- (c) Containers having an attached lid which cannot be easily and completely removed to facilitate collection;
- (d) Cardboard boxes except boxes containing and clearly marked "Glass" that are securely closed;

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- (e) Semi-automated carts, save and except those in designated collection areas and approved by the Region;
 - (f) Containers of a type which have not been approved by the Region; or
 - (g) Any garbage receptacle from which waste cannot be conveniently collected having regard to such matters as safety of the operator.
- 3.5 Garbage that is packed in rigid garbage receptacles where a device has been used to tie down the lid will not be collected unless the device is removed prior to collection.
- 3.6 Garbage that is packed in rigid garbage receptacles may not be collected and may be tagged as being over the garbage bag limit.
- 3.7 No owner/occupant shall set out garbage receptacles weighing more than 20 kilograms (44 pounds).
- 3.8 No owner/occupant shall set out a garbage receptacle unless it contains only garbage.
- 3.9 No owner/occupant shall set out a garbage receptacle containing a broken or sharp item that poses a safety threat to any person handling the garbage receptacle. Such items shall be placed in a puncture resistant container clearly marked "Glass".
- 3.10 No owner/occupant shall set out a garbage receptacle containing Blue Box materials, household organics, Hazardous and Special Products, metal goods/appliances, bulky items, yard waste, Electrical and Electronic Equipment, porcelain bathroom fixtures or unacceptable waste as described in the Schedules of this By-law.
- 3.11 Owner/occupants receiving residential curbside collection who are required to use garbage bag tags pursuant to the garbage bag limit described in this By-law, shall purchase garbage bag tags from designated facilities or other authorized distributors of garbage bag tags, as determined by the Region. One garbage bag tag shall be affixed to each garbage receptacle set out for collection in excess of the garbage bag limit.
- 3.12 No person shall sell or offer to sell garbage bag tags without the express written permission of the Region authorizing such sale or offer to sell.

Blue Box

- 3.13 No owner/occupant shall set out Blue Box receptacles not meeting the requirements established by the Producer Responsibility Organization responsible for collecting the material.
- 3.14 Blue Box materials shall not be placed in the garbage.

Household Organics

- 3.15 No owner/occupant shall set out a Green Bin unless it contains only household organics.
- 3.16 No owner/occupant shall set out Green Bins weighing more than 20 kilograms (44 pounds).
- 3.17 Household organics must be contained in certified compostable bags prior to placement in the Green Bin. Loose materials are not accepted.
- 3.18 Household organics shall not be placed in the garbage.

Yard Waste

- 3.19 No owner/occupant shall set out a yard waste receptacle unless it contains only yard waste and such receptacles must be clearly labelled as containing yard waste only.
- 3.20 No owner/occupant shall set out yard waste which is not contained in a proper yard waste receptacle, save and except Christmas trees or bundled tree and/or shrub limbs as defined in this By-law.
- 3.21 No person shall set out yard waste material in a plastic bag.
- 3.22 No owner/occupant shall set out yard waste receptacles weighing more than 20 kilograms (44 pounds).
- 3.23 Yard waste shall not be placed in the garbage.

4. Waste Set Out Requirements and Scavenging

- 4.1 No owner/occupant shall set out waste except as permitted by this By-law.
- 4.2 No owner/occupant shall set out more garbage per eligible property per scheduled collection day than the garbage bag limit described in this By-law.
- 4.3 No owner/occupant shall set out residential waste prior to 7:00 p.m. on a day immediately preceding a scheduled collection day or later than 7:00 a.m. on a scheduled collection day.
- 4.4 Every owner/occupant shall ensure that all receptacles and all uncollected waste are removed from the collection point at which it was set out by no later than 8:00 p.m. on the scheduled collection day.
- 4.5 Notwithstanding subsection 4.1 and 4.2 of this By-law, an owner/occupant may set out garbage receptacles in excess of the garbage bag limit described in this By-law provided that all excess garbage receptacles have been tagged.
- 4.6 Garbage collected from a multi-residential or commercial property using on-site waste collection in excess of the garbage bag limit may be subject to a collection fee to be determined from time to time by the Council.
- 4.7 The Region shall not be required to collect garbage from a multi-residential or commercial property in excess of the garbage bag limit described in this By-law, where the fee referred to therein has not been paid in a manner as determined by the Region.
- 4.8 The owner/occupant of a rural property shall have the option to set out waste for municipal waste collection in a roadside waste storage box.
- 4.9 The owner/occupant of a rural property using an approved roadside waste storage box to set out waste for municipal waste collection shall be permitted to use only one (1) roadside waste storage box per eligible property.
- 4.10 The Region shall collect waste set out by owner/occupant of rural properties directly from roadside waste storage boxes subject to the access to waste receptacles contained within the roadside waste storage boxes not being locked, tied down or otherwise obstructed or inaccessible at the time of collection.
- 4.11 In the event of a dispute as to the proper placement of a roadside waste storage box, the appropriate location shall be determined by the Region in its sole discretion.

- 4.12 No owner/occupant shall set out residential waste in receptacles that are broken or in a condition that pose a hazard to operators.
- 4.13 No owner/occupant shall set out waste in a manner that it may be blown from its container by the wind, strewn by animals, or otherwise spread about as to create litter.
- 4.14 No owner/occupant shall set out a Christmas tree that exceeds 3 metres (10 feet) in length or that is not free of all decorations or other materials, including wire and plastic wrap.
- 4.15 Notwithstanding subsection 4.11 of this By-law, an owner/occupant may set out Christmas trees that are greater than 3 metres (10 feet) in length only if the tree has been cut down into lengths that do not exceed 3 metres (10 feet) and all materials, including decorations, wire, plastic wrap have been removed.
- 4.16 No owner/occupant shall set out waste requiring a collection appointment as may be required in Schedule M to this By-law except where:
- (a) The owner/occupant has contacted the Region to schedule a collection appointment;
 - (b) The owner/occupant has received confirmation of a collection date;
 - (c) Metal goods/appliances have had all doors and contents removed;
 - (d) Porcelain bathroom fixtures that are toilets have the tank separated from the bowl in two-piece toilets; and
 - (e) The owner/occupant has securely packaged broken porcelain bathroom fixtures in a cardboard box clearly labeled as containing broken porcelain bathroom fixtures and not weighing more than 20 kilograms (44 pounds).
- 4.17 No owner/occupant shall set out home health care waste unless it is double bagged and placed inside a garbage receptacle.
- 4.18 Home health care waste shall only be collected from properties deemed as residential or multi-residential.
- 4.19 All owner/occupants receiving municipal waste collection shall separate all household organics, Blue Box materials, yard waste, bulky items, Electrical and Electronic Equipment, metal goods/appliances and porcelain bathroom fixtures from each other and from garbage.
- 4.20 Owner/occupants who, in the opinion of the Region, do not separate all household organics, Blue Box materials, yard waste, bulky items, Electrical and Electronic Equipment, metal goods/appliances and porcelain bathroom fixtures from each other and from garbage may be deemed ineligible to receive waste collection services.
- 4.21 Bulky items, Blue Box materials, household organics, Hazardous and Special Products, metal goods/appliances, yard waste, Electrical and Electronic Equipment, porcelain bathroom fixtures and Tires are restricted from garbage collection. The Region may also restrict other reusable or recyclable materials from garbage collection from time to time.
- 4.22 No owner/occupant shall set out Hazardous and Special Products for collection including curbside and on-site collection services except, in the case of household batteries, where specifically permitted by the Region and in a manner and on days designated by the Region.

- 4.23 Every owner/occupant receiving municipal waste collection shall set out residential waste as close as possible to, but not directly on, the travelled portion of the public highway or roadway directly adjacent to the property of the owner/occupant, without obstructing any travelled portion of the highway or roadway or any adjacent sidewalk or footpath.
- 4.24 Every owner/occupant of a rural property receiving municipal waste collection services who opts to set out waste for collection in a roadside waste storage box shall install the roadside waste storage box as close as possible to, but not on, the travelled portion of the public highway or roadway directly adjacent to the property of the owner/occupant, without obstructing any travelled portion of the highway or roadway, or any adjacent sidewalk or footpath.
- 4.25 Notwithstanding subsections 4.21 and 4.22, the Region may designate a location at which the waste from any residential dwelling unit or multi-residential property shall be set out and may also determine the method of collection by notice, in writing, sent by ordinary mail or personal delivery, to the owner/occupant of such property as shown on the last revised assessment roll.
- 4.26 Where the Region has designated the set out location pursuant to subsection 4.23, no owner/occupant shall set out waste other than at that location.
- 4.27 No owner/occupant shall set out waste for collection on top of a windrow or other pile of snow created by snowplows or other snow clearing operation.
- 4.28 No person shall set out waste upon private property unless that person is the owner/occupant of the residential dwelling unit or multi-residential property from which the waste originates.
- 4.29 No person shall set out, place, or discard waste upon public property other than as provided for herein.
- 4.30 Waste shall be deemed to have been set out by the owner/occupant of the residential dwelling unit directly adjacent to the location where the waste is found. In the case of a multi-residential property, waste shall be deemed to have been set out by the owner/occupant of the multi-residential property.
- 4.31 Unless otherwise authorized by the Region, no person shall scavenge, pick over, sort through, collect, interfere with, disturb, or remove any waste set out for collection whether contained in receptacles or otherwise.
- 4.32 Subsection 4.29 shall not apply to Region employees and Region contractors while in the course of carrying out duties that are necessary and required pursuant to an agreement or if expressly authorized to do so by the Region.
- 4.33 No person shall allow any animal either owned or under the person's control to scavenge, pick over, sort through, collect, interfere with, disturb or remove any waste set out for collection, whether contained in receptacles or otherwise.
- 4.34 No person shall hinder or impede the ability of the Region to collect waste set out for collection.

5. On-site Waste Collection on Private Property

- 5.1 On-site waste collection shall be carried out at designated locations on a site plan approved by the Region or the area municipality in which the site is located.
- 5.2 The Region shall not provide on-site waste collection on private property unless the owner/occupant has executed an indemnity and release and a certificate of insurance in favour of the Region and in a form satisfactory to the Region.

- 5.3 No owner/occupant shall be eligible to receive waste collection services unless the owner/occupant complies with all relevant requirements contained in this By-law and in the Region publication entitled Technical Guidelines for Waste Collection Services, as amended.
- 5.4 The Region shall not provide on-site waste collection and household organics collection for a multi-residential property unless the owner has also agreed to and participates in other multi-residential waste diversion programs including those offered by the Region.
- 5.5 Every owner of a multi-residential property is required to ensure that any Blue Box material, household organics, Electrical and Electronic Equipment, porcelain bathroom fixtures or any other collection program provided by the Region or producers of materials regulated under the Resource Recovery and Circular Economy Act, is as convenient to each resident as the garbage collection program by:
- (a) Providing occupants with specific instructions for participating in all of the applicable Region waste collection programs;
 - (b) Posting clear and understandable Blue Box material, household organics or other waste sorting instructions and/or signage in prominent locations;
 - (c) Maintaining occupant-accessible Blue Box material and/or household organic composting material and/or other material collection and/or storage area(s), and;
 - (d) Providing sufficient receptacles for the collection and storage of garbage, household organics, Blue Box material, yard waste or other collected material.
- 5.6 No owner of a multi-residential property or industrial, commercial or institutional property authorized to receive Regional waste collection shall adjust the number or type of receptacles or allow the adjustment of the number or type of receptacles used for the provision of municipal waste collection, without the prior written approval of the Region.
- 5.7 Every owner/occupant shall at all times maintain adequate vehicular access to their property for the purposes of on-site waste collection, including but not limited to, removing snow and ice, prohibiting parking where required and removal of any other obstacle.
- 5.8 On-site industrial, commercial or institutional waste collection shall not be provided by the Region except as may be authorized by the Region and on such terms and conditions, including fees and charges, as approved by Council.
- 5.9 The Region may determine that owners/occupants who do not participate fully in the Region's collection of waste or who sell or otherwise transfer waste to individuals other than the Region, are not eligible to receive any Region-provided waste collection services.
- 6. Unacceptable Waste**
- 6.1 No owner/occupant shall set out or allow the set out of unacceptable waste, as described in Schedule F of this By-law, either on its own or mixed with any waste for which the Region provides a collection service.
- 6.2 Contractors acting on behalf of the Region shall not collect unacceptable waste nor allow unacceptable waste to be collected.
- 6.3 An unacceptable set out tag may be placed on waste receptacles indicating the presence of unacceptable waste.

7. Waste Management Facilities

- 7.1 No person shall deliver or dispose of or allow or cause to be delivered or disposed of any waste at the Waste Management Facilities other than waste referred to in Schedule L of this By-law.
- 7.2 No person shall deposit or allow the depositing of waste outside the gate or entrance to a Waste Management Facility or at any place other than the place designated for its receipt.
- 7.3 Private haulers, operators of commercial vehicles and operators of residential vehicles who transport waste to the Waste Management Facilities for disposal or processing, shall pay all applicable fees.
- 7.4 Fees may be adjusted from time to time as deemed appropriate by the Region, subject to Council approval, where necessary, and any fee changes shall be advertised and posted as required by applicable law.
- 7.5 All waste deposited at a Waste Management Facility shall be the property of the Region and may be reused, recycled, reclaimed, disposed of and otherwise dealt with as the Region may deem fit, in its sole discretion.
- 7.6 Unless authorized in writing by the Region, no person shall scavenge, salvage, pick over, interfere with, remove or scatter waste.
- 7.7 No person, while at a Waste Management Facility, shall operate a vehicle or do any other thing without exercising due care and attention, in a manner that will not cause injury or harm to any person or damage to any property.
- 7.8 No person shall operate a vehicle at a Waste Management facility in such a condition that the Region deems to be unsafe or whose load is deemed by the Region to be unsafe. Any unsafe vehicles or unsecured loads will be refused entry.
- 7.9 No person shall enter a Waste Management Facility for the purpose of using the facility's services on foot, riding a bicycle other mechanized devices such as skateboards, scooters, motorcycles, mopeds, etc.
- 7.10 No person, while at a Waste Management Facility, shall indulge in any riotous, violent, threatening or illegal conduct, or use profane or abusive language in accordance with the Region's Public Code of Conduct Policy.
- 7.11 No person shall smoke at a Waste Management Facility or hold a lighted tobacco product, including but not limited to a cigarette, e-cigarette, vape, cigar or pipe.
- 7.12 No person, while at a Waste Management Facility, shall create a nuisance or in any way interfere with the use of the Waste Management Facility by any other person.
- 7.13 No person using a Waste Management Facility shall disobey any signs or directions of all Region staff and Contractor(s) at any Waste Management Facility.
- 7.14 No person shall enter or exit a Waste Management Facility except during regular hours of operations and only by the designated access and exit routes.
- 7.15 No person shall convey, or allow or cause to be conveyed, any waste for disposal to a Waste Management Facility which is not contained in fully enclosed vehicle bodies, or totally enclosed or covered in canvas, tarpaulins or nets, and leak-proof so as to prevent any of the contents from falling upon the ground.

- 7.16 No person shall dispose of, or allow or cause to be disposed of, any waste at a Waste Management Facility that is not properly drained or dried so that it does not contain any visible evidence of free water or other liquids.
- 7.17 Any person entering upon a Waste Management Facility does so at their own risk and the owner of any vehicle brought upon such site shall save the Region harmless from any damages or claims whatsoever to themselves or their property or to any other person or property whatsoever arising from such person's negligence or otherwise.
- 7.18 All persons entering onto a Waste Management Facility shall abide by all policies and procedures related to the operation including but not limited to the sorting of wastes, payment of fees and anything else described in or prescribed by this By-law.

8. Region Landfill Sites

- 8.1 No person shall deliver waste to any Region-owned landfill site.
- 8.2 No person shall access a landfill site without express permission from the Region except in areas that have been designated and marked for public use.
- 8.3 No person, while at a landfill site, shall operate a vehicle or do any other thing without exercising due care and attention or in a manner that will not cause injury or harm to any person or damage to any property.
- 8.4 No person shall operate a motor vehicle on a landfill site, unless otherwise authorized, other than on a designated roadway or highway, or without due care and attention, or at a greater than posted speed limit.
- 8.5 No person shall enter or exit a Region landfill site unless accompanied or authorized by a Region employee or representative and only by the designated access and exit routes.
- 8.6 Any person entering upon a Region landfill site does so at the person's own risk and the person shall save the Region harmless from any damages or claims whatsoever to themselves or their property or to any other person or property whatsoever arising from such person's negligence or otherwise.

9. Material Recovery Facility and Waste Management Centre

- 9.1 No member of the public shall access the Material Recovery Facility without express written permission from the Region and the third-party lessor of the facility.
- 9.2 No person shall deliver, dispose of, or allow or cause to be delivered or disposed of any waste at the Material Recovery Facility or the Waste Management Centre.
- 9.3 Any person accessing the Material Recovery Facility or Waste Management Centre shall at all times obey all signs and directions of all Region staff and the Contractor(s) working at the Material Recovery Facility.
- 9.4 No person shall, while at the Waste Management Centre, operate a vehicle or do any other thing without exercising due care and attention or in a manner that causes or is likely to cause injury or harm to any person or damage to any property.
- 9.5 No contractor shall convey or allow or cause to be conveyed to the Material Recovery Facility any Blue Box materials which are not contained in fully enclosed vehicle bodies or totally enclosed or covered in canvas, tarpaulins or

nets and leak-proof so as to prevent any of the contents from falling upon the ground.

9.6 Any person entering the Material Recovery Facility does so at his own risk and he and the owner of any vehicle brought upon such site shall save the Region harmless from any damages or claims whatsoever to themselves or their property or to any other person or property whatsoever arising from such person's negligence or otherwise.

9.7 All persons entering into the Material Recovery Facility shall abide by all policies and procedures relating to the operation including but not limited to the sorting of wastes, payment of fees and anything else described in or prescribed by this By-law and/or all applicable law.

10. Industrial, Commercial, or Institutional Waste

10.1 All persons involved in the creation of industrial, commercial, or institutional waste shall make provision for on-site, private waste removal unless another provision has been made with the Region in accordance with the policies and by-laws of the Region and all applicable law.

10.2 Any authorized and approved industrial, commercial, or institutional user receiving Region waste collection shall be required to participate in the Region's organics and/or any other waste diversion program, and failure to do so may result in discontinuance of provision of services.

11. Fees and Charges

11.1 The solid waste management fees and charges shall be, and are hereby deemed to always have been, as set out in the annual Business Plans and Budgets for property taxes.

12. General

12.1 The Region shall provide waste collection and disposal services to all eligible properties within the Region of Durham, as described in this By-law except for residential garbage, household organics, bulky items, Electrical and Electronic Equipment, porcelain bathroom fixtures, metal goods/appliances and yard waste collection in the Town of Whitby and the City of Oshawa.

12.2 If a property is not an eligible property for waste collection under this By-law, the owner/occupant shall be fully responsible for the provision of private waste collection and disposal services, in accordance with good practice and in accordance with all applicable statutes, by-laws and regulations respecting the environment and health and safety.

12.3 The Region shall not be obligated to collect residential waste from properties abutting a private or unassumed road, unless there is clear, unobstructed access to such road, sufficient unobstructed turnaround space for waste collection vehicles, and adequate unobstructed access to a public highway or roadway, all of which shall be determined by the Region in its sole and absolute discretion.

12.4 The contractor shall not be required to enter any private dwelling, apartment or other building, ascend or descend any stairway, enter any elevator, chute, hoist or loading platform, or enter onto private property for the purpose of collecting or removing any waste material except when otherwise agreed to between the contractor and the Region.

- 12.5 No person shall deposit or permit to be deposited upon any lands belonging to, occupied by or under such person's control, waste or any other material which may emit foul or offensive odours and/or endanger public health or safety.
- 12.6 No person shall set out waste in a receptacle that is packed in such a manner that waste can fall out of it before it is collected.
- 12.7 No person shall sweep, throw, deposit, or allow their agents or employees to sweep, throw or deposit any waste on any street, creek or other public place or on any lands not owned by such person.
- 12.8 No person shall keep a waste receptacle or roadside waste storage box in such condition or location to create a nuisance or emit foul or offensive odours or harbour or attract insects, rats or other vermin.
- 12.9 Any waste placed at a collection point, road allowance or any other location for collection by the Region is the property of the Region.
- 12.10 No person shall convey through the streets any waste unless it is carried in properly covered containers or in vehicles totally enclosed or covered with canvas or tarpaulins, fastened down to prevent any of the contents from falling upon the streets or to allow the escape of offensive odours.
- 12.11 Any person who fails to observe subsection 12.11 and consequently causes waste to fall upon any street shall remove the waste immediately and if such waste is not removed immediately, the Region may do so and any person contravening this provision will be liable for all expenses so incurred.
- 12.12 Receptacle storage enclosures large enough to hold the required number of receptacles shall be provided by the owner/occupant of the types of premises listed below receiving Region waste collection services. Such enclosures shall be approved by the Region as to size.
- (a) Combined commercial and residential properties.
 - (b) Commercial properties.
 - (c) Multi-unit residential buildings.
 - (d) Townhouse property without internal roadways that receive centralized collection of waste.
 - (e) Rural properties.
- 12.13 No person shall collect waste unless they have the necessary licenses and comply with all relevant Federal, Provincial and municipal legislation, regulations and by-laws.
- 12.14 No person shall maintain a composter or compost heap in such condition or location to create a nuisance or emit foul or offensive odours or harbour or attract insects, rats or other vermin.
- 12.15 Any owner/occupant requiring a higher level of service than is provided by the Region, as described in this By-law, must contract to secure such service privately, at the owner/occupant's own expense.

13. Enforcement

Powers of Entry

- 13.1 An officer may, at any reasonable time, enter onto any property without a warrant or notice for the purpose of determining compliance with this By-law.

- 13.2 Notwithstanding 13.1, an officer may not enter into a dwelling unit at any time without a search warrant or informed consent of the occupant.
- 13.3 An officer may make examinations, investigations and inquiries as are necessary to determine whether there is compliance with this By-law.
- 13.4 No person shall hinder, obstruct or interfere with an officer carrying out an inspection under this By-law.

Work Order

- 13.5 Where any person contravenes any provision of this By-law, an officer may, by written notice, require such person to comply with this By-law by issuing a work order indicating the following;
- (a) The reasonable particulars of the offence;
 - (b) The work to be done and the date by which the work must be completed;
 - (c) The municipal address and/or legal description of the property.
- 13.6 Service of a work order on an owner/occupant may include any of the following:
- (a) Personal service;
 - (b) Registered mail to the registered owner of the property at the municipal address; or
 - (c) Posting a copy of the work order on the property in a conspicuous place.
- 13.7 Where a work order has been served on an owner/occupant by personal service or posting a copy on the property as referred to in section 13.6(c), it is deemed to be delivered immediately.
- 13.8 Where a work order is issued by registered mail, it shall be deemed to have been delivered on the third (3rd) day after a copy is sent.
- 13.9 Each owner/occupant who contravenes a work order is guilty of an offence.

Remedial Action

- 13.10 Where a person or owner/occupant does not comply with a work order, the Region may, without any notice, cause the work to be performed at the owner's expense.
- 13.11 The Region, its employees or agents may, at any reasonable time, enter upon the property, but not into any buildings or structures, to effect the compliance at the expense of the owner/occupant who has failed to comply with a work order.
- 13.12 The Region may recover all costs associated with actions taken to effect compliance plus interest from the day the Region incurs such costs and ending on the day the costs including the interest is paid in full.
- 13.13 All costs, including any interest on such costs, recoverable by the Region pursuant to this By-law or otherwise pursuant to the Municipal Act, 2001, may be recovered by any lawful means available to the Region and such recovery methods include adding such amounts to the tax roll and collecting such amounts in the same manner as taxes.
- 13.14 All costs, including any interest on such costs, recoverable by the Region pursuant to this By-law or otherwise pursuant to the Municipal Act, 2001,

constitute a lien on the land upon the registration in the proper land registry office of a notice of lien.

- 13.15 Where waste is removed from private property or public property pursuant to subsection 13.10, the Region may immediately dispose of it.
- 13.16 The provisions of this By-law shall not relieve any person from compliance with any order of the Region or any other provision prescribed by law.
- 13.17 The Region shall not be obligated to collect any waste that is not set out as prescribed by this By-law.
- 13.18 The Region may, at its sole discretion and upon written notification, suspend waste collection where owner/occupants have set out waste for collection that is unacceptable waste or not in compliance with the provisions of this By-law.
- 13.19 In the event that the Region discontinues municipal waste collection services to an owner/occupant, the affected owner/occupant shall obtain private collection services during the period in which the services are discontinued, at the same or greater frequency at which the services were provided prior to the discontinuance, all at the owner/occupant's sole cost and expense.
- 13.20 The Region may waive strict compliance with any provision of this By-law in accordance with its policies, by-laws and contractual commitments and approval processes.

Offence

- 13.21 Every person who contravenes any provision of this By-law, including an order issued under this By-law, and every director or officer of a corporation who concurs in such contravention by the corporation is guilty of an offence.
- 13.22 Any person who is in contravention of any provision of this By-law or who fails to comply with an order issued under the By-law shall be deemed to be committing a continuing offence for each day that the offence remains in contravention, or for each day that they fail to comply with the order.

Penalties

- 13.23 Upon conviction, every person who contravenes any provision of this By-law is subject to a fine of not less than \$50.00 and not more than \$25,000.00 for any subsequent offence of this By-law.
- 13.24 Where a corporation is convicted of an offence under the provisions of this By-law, the maximum fines that may be imposed on the corporation is not less than \$250.00 and not more than \$50,000.00 for a first offence and not less than \$250.00 and not more than \$100,000.00 for any subsequent offence of this By-law.

Prohibition Order

- 13.25 Upon conviction of an offence under this By-law, the Ontario Court (Provincial Division) of the Region, or any court of competent jurisdiction thereafter may, in addition to any other penalty or other remedy imposed, make an order prohibiting the continuation or repetition of the offence.

14. Conflict with Existing Law

- 14.1 The provisions of any by-law of the Town of Whitby or the City of Oshawa with respect to the collection or residential garbage, household organic waste, yard waste and other special waste collection services, such as bulky goods, metal

goods/appliances and porcelain bathroom fixtures within those jurisdictions, prevail over the provisions of this By-law.

15. **Severability**

15.1 Where a court of competent jurisdiction declares any section or part of a section of this By-law invalid, the remainder of this By-law shall continue in force unless the court makes an order to the contrary.

16. **Repeal**

16.1 Waste Management By-law 46-2011, as amended, is hereby repealed as of June 30, 2024.

16.2 This By-law comes into force on July 1, 2024.

This By-law Read and Passed on the -----th day of -----, 2024.

J. Henry, Regional Chair and CEO

A. Harras, Regional Clerk

Schedule A

Bulky Items

Includes any garbage item that does not fit into a garbage receptacle including, but not limited to:

1. Household goods such as:
 - a. Furniture
 - b. Artificial trees
 - c. Vacuum cleaners
 - d. Floor lamps
 - e. Armoires
 - f. Mattresses and box springs
 - g. Headboards
 - h. Bookshelves
 - i. Loveseats
 - j. Ironing board
 - k. Entertainment unit
 - l. Ottomans
 - m. Hat stands
 - n. Recliners
 - o. Baby gates
 - p. Credenzas
 - q. Baby cribs
 - r. Baby chair/car seats
 - s. Desks
 - t. Beanbag chairs
2. Sports and recreation equipment such as:
 - a. Skis
 - b. Hockey sticks/equipment/goalie equipment
 - c. Fishing rods
 - d. Golf bags

- e. Treadmills
- f. Elliptical trainers
- g. Exercise bikes
- h. Luggage
- i. Backpacks
- j. Life jackets
- k. Tennis, squash, racquetball racquets
- l. Baseball bats
- m. Lacrosse sticks
- n. GT snow-racers
- o. Toboggans
- p. Dog/cat carriers and cat scratch posts
- q. Sleds

3. Outdoor Living items such as:

- a. Patio tables
- b. Chairs and cushions
- c. Patio umbrellas
- d. Garden hoses and plastic hose reels
- e. Birdbaths
- f. Planters
- g. Gardening tools
- h. Deck boxes
- i. Hammocks
- j. Lounger
- k. Lazy-boy chair
- l. Bar sets
- m. Rocking chairs
- n. Storage benches
- o. Adirondack garden chairs/stools

- p. Lawn ornaments
- q. Plastic pool covers (must be rolled or tied into 1 metre by 1 metre squares)

4. Bulky items do not include:

- a. Garbage that fits into a garbage bag or can
- b. Household organic waste
- c. Blue Box materials
- d. Yard waste
- e. Hazardous and Special Products
- f. Biomedical waste
- g. Metal goods and appliances
- h. Electrical and Electronic Equipment
- i. Any other material or item for which the Region has a diversion program

Schedule B

Hazardous and Special Products

Includes any household product, material or item labelled as corrosive, toxic, reactive, explosive or flammable and which is accepted under the Region's Hazardous and Special Products program, including:

Categories defined in the Hazardous and Special Products regulation (O. Reg. 449/21)

1. Category A
 - a. Non-refillable pressurized containers
 - b. Oil Filters
2. Category B
 - a. Antifreeze
 - b. Oil containers
 - c. Paints and Coatings
 - d. Pesticides
 - e. Refillable pressurized containers
 - f. Solvents
3. Category C
 - a. Barometers
 - b. Thermometers
 - c. Thermostats
4. Category D
 - a. Fertilizer
5. Category E
 - a. Refillable propane containers

Other items including:

1. Household batteries weighing 5 kilograms or less.
2. Pharmaceuticals as defined in the Collection of Pharmaceuticals and Sharps – Responsibilities of Producers (O. Reg. 298/12).
3. Sharps as defined in the Collection of Pharmaceuticals and Sharps – Responsibilities of Producers (O. Reg. 298/12).
4. Any other material deemed Hazardous and Special Products by the Region.

Schedule C

Home Health Care Waste

Includes:

1. Casts
2. Catheters
3. Empty and rinsed disposable products
4. Empty and rinsed colostomy bags
5. Empty and rinsed gastric and nasal tubes
6. Intravenous bags and tubing
7. Sponges
8. Any other material deemed Home Health Care Waste by the Region

Does not include:

1. Biomedical waste
2. Pathological waste
3. Hypodermic needles, syringes, sharps
4. Unused pharmaceuticals or medications

Schedule D

Diaper / Medical Condition Collection Program

The Region shall provide special collection or drop off considerations to owner/occupant upon owner/occupant completing an online Diaper / Medical Condition Collection Program Application located at durham.ca/waste and receiving Region approval for diapers / home health care waste with respect to the items listed below.

1. Residents with medial conditions generating excessive waste and households with three or more children under the age of three;
2. Households qualifying for special consideration are given no more than one additional bag allowance per week. The Region will issue 52 bag tags to each qualifying household. The Region may provide alternative collection options at the Region's discretion; and
3. Residents who receive special consideration may drop off dedicated loads of home health care waste at all Waste Management Facilities in clear plastic bags with bag tags affixed to each bag at no additional charge.

Schedule E

Household Organic Waste

Includes but is not limited to:

1. Food wastes including all fruits and vegetables (cooked, raw, whole, peelings, seeds or pits), corn cobs and husks, all fish and fish products (cooked or raw), tea bags, bones, all meat and meat products (cooked or raw), all shellfish and shellfish products (cooked or raw), all poultry and poultry products (cooked or raw), seasonings and spices, frozen foods, baked goods, pasta, coffee grounds and paper coffee filters.
2. Plate scrapings including all food leftovers, gravies and sauces.
3. Baking wastes including muffins, grease or lard, fat, flour, eggs and eggshells, margarine, spices, cake, cookies, sugar, cereals, oatmeal and oats.
4. Dairy products including yogurt, sour cream, butter, all cheese, ice cream and cream.
5. Paper fibre wastes including moulded pulp paper egg cartons and beverage trays, paper towels, facial tissues, napkins/serviettes, paper plates and paper cups (no lids), parchment paper, soiled paper food containers and wraps (such as frozen food boxes, pizza boxes, fast food boxes and wraps, special event paper food containers, muffin/cupcake liners (non-foiled), butcher paper, paper tablecloths.
6. Diapers and sanitary waste including diapers of all sizes, incontinence products and feminine hygiene products.
7. Pet waste and bedding as defined in this By-law.
8. Other wastes including hair, sawdust, wood shavings, wooden stir sticks, wooden cutlery, dryer lint, house plants with or without soil, flowers, cold fireplace ash, wooden toothpicks, garden fruit (such as crab apples), pet food, dried decorative fruits and vegetables, natural wreaths, natural garland, cotton balls and any other waste deemed household organic waste by the Region.

Household organic waste does not include:

1. Aluminum foil
2. Blue Box material
3. Christmas trees
4. Cigarette butts
5. Coffee cups
6. Cotton swabs
7. Dead animals
8. Disposable clothes dryer sheets

9. Disposable wipes
10. Garbage
11. Glass of any kind
12. Grass clippings
13. Hazardous and Special Products
14. Hot fireplace ash
15. Metal of any kind
16. Plastic or plastic coated products of any kind
17. Plastic-like packaging labelled as compostable
18. Sod
19. Synthetic corks
20. Topsoil
21. Treated wood
22. Vacuum bags and contents
23. Wax cartons or paper
24. Wire or metal ties
25. Yard waste

Schedule F

Unacceptable Waste for Curbside or On-site Collection

Includes but is not limited to:

1. Agricultural waste
2. Ammunition
3. Automotive or motorized equipment parts including tires, engines and frames
4. Batteries, unless household batteries designated for curbside collection on days specified by the Region
5. Biomedical waste
6. Broken porcelain bathroom fixtures not packaged in a cardboard box and weighing more than 20 kilograms (44 pounds)
7. Carpeting
8. Dead animals
9. Designated waste that has been banned from landfill or for which reasonable alternative disposal methods are available, as determined by the Region
10. Electric Vehicle Batteries for electric bicycles, scooters, automobiles or trucks
11. Explosives
12. Garbage over the garbage bag limit of (4) four items that are not tagged
13. Grass clippings
14. Hazardous and Special Products
15. Hot ashes or any other waste capable of starting fires
16. Household organics in plastic bags
17. Industrial, commercial or institutional waste from properties not receiving municipal waste collection
18. Liquid waste
19. Manure or waste from any animal except for pet waste as defined in this By-law
20. Railroad ties
21. Sharps or any item that may pose a safety hazard to Region staff or the contractor
22. Sliding glass doors
23. Sludge
24. Swimming pools

Attachment #1 to Report #2024-WR-1

25. Tires
26. Tree stumps and branches with a diameter greater than 116 mm (4 inches)
27. Waste frozen to approved receptacles that is not easily removed by shaking
28. Waste generated as a result of construction, demolition or renovations, including but not limited to soil, sod, plaster, drywall, masonry and tile, bricks, concrete or cinder blocks, paving stones, asphalt, wood, windows and window glass, shingles, asbestos, and urea formaldehyde
29. Waste set out in such a manner as to pose a health and safety hazard to any person
30. Waste weighing more than 20 kilograms (44 pounds) except Electrical and Electronic Equipment, bulky items and metal goods/appliances that may exceed 20 kilograms
31. Yard waste in plastic bags
32. Any other material deemed as prohibited by the Region

Schedule G

Blue Box Materials

Includes the material categories set out in the Blue Box Regulation (O. Reg. 391/21):

1. Beverage container material category
2. Glass material category
3. Flexible plastic material category
4. Rigid plastic material category
5. Paper material category
6. Certified compostable products and packaging material category

Schedule H

Metal Goods/Appliances

Includes, but is not limited to:

1. Air conditioners (central and window units)
2. Barbeques (fuel tanks and/or charcoal removed)
3. Bicycle frames (tires removed)
4. Clothes washers
5. Clothes dryers
6. Dehumidifiers
7. Dishwashers
8. Electrical and Electronic Equipment
9. Freezers (chest and upright)
10. Furnaces
11. Heat pumps/exchangers
12. Home heating oil tanks (must be empty and cut in half)
13. Hot water tanks (must be empty)
14. Large home safes
15. Metal bathtubs
16. Metal bed frames and rails
17. Metal fencing
18. Metal filing cabinets
19. Metal fireplaces and wood burning stoves
20. Metal furniture
21. Metal ladders
22. Metal shelving units
23. Metal sinks
24. Metal swing sets
25. Metal shower enclosures
26. Metal tools

27. Metal tubing and plumbing fixtures
28. Metal wheelbarrows
29. Pool heaters
30. Pots and pans
31. Ovens
32. Range hoods
33. Refrigerators
34. Stoves
35. Refrigerated water coolers
36. Any other item deemed metal goods/appliances by the Region

Does not include:

1. Garbage
2. Blue Box material
3. Household organic materials
4. Yard waste
5. Hazardous and Special Products
6. Unacceptable waste for curbside or on-site collection
7. Biomedical waste
8. Motorized vehicles/equipment and/or parts
9. Porcelain bathroom fixtures

Schedule I

Yard Waste

Includes but is not limited to:

1. Brush
2. Christmas trees (natural)
3. Corn stalks
4. Flowers
5. Garden trimmings
6. Garden fruit (such as crab apples, apples, pears, peaches, cherries, etc)
7. Gourds
8. Halloween pumpkins
9. Hedge and tree trimmings (branches)
10. House and garden plants
11. Lawn edging (soil removed)
12. Leaves
13. Natural woven fibre plan containers
14. Peat
15. Pine needles and cones
16. Plant cuttings and roots
17. Shrubs
18. Thatch
19. Weeds
20. Any other material deemed yard waste by the Region

Does not include:

1. Biomedical waste
2. Blue Box materials
3. Electrical and Electronic waste
4. Garbage
5. Grass clippings

Attachment #1 to Report #2024-WR-1

6. Hay bales
7. Hazardous and Special Products
8. Metal goods/appliances
9. Motorized vehicles/equipment and/or parts
10. Porcelain bathroom fixtures
11. Sod
12. Soil
13. Stones
14. Stumps
15. Unacceptable waste for curbside or on-site collection

Schedule J

Electrical and Electronic Equipment (EEE) and Batteries

Includes but is not limited to materials designated as EEE in the Electrical and Electronic Equipment Regulation (O. Reg. 522/20) and batteries in the Batteries Regulation (O. Reg. 30/20) under Ontario’s resource Recovery and Circular Economy Act, 2016.

Information Technology, Telecommunications and Audio Visual (ITT/AV) equipment such as:

- 1. Computers
- 2. Printers (desktop and floor standing including printer cartridges)
- 3. Video gaming devices
- 4. Telephones including cellular phones
- 5. Display devices
- 6. Radios and stereos including after-market vehicle stereos
- 7. Headphones
- 8. Speakers
- 9. Cameras, including security cameras
- 10. Video recorders
- 11. Drones with audio or visual recording equipment
- 12. Peripherals and cables used to support the function of information technology, telecommunications and audio visual equipment, including charging equipment
- 13. Parts of information technology, telecommunications and audio-visual equipment sold separately, such as hard drives
- 14. Handheld point-of-sale terminals or devices
- 15. Musical instruments and audio recording equipment
- 16. Other equipment added to Schedule 1 of O. Reg. 522/20

Lighting:

- 1. Light bulbs, tubes and lamps including incandescent, fluorescent, halogen, light emitting diode (LED) and high intensity discharge (HID) lamps
- 2. Other lighting added to Schedule 2 of O. Reg. 522/20

Batteries:

A container, weighing five kilograms or less, consisting of one or more voltaic or galvanic cells, in which chemical energy is stored as electricity or converted into electricity and used

as a source of power.

Does not include:

1. Electric vehicle batteries
2. Biomedical waste
3. Blue Box materials
4. Garbage
5. Hazardous and Special Products
6. Household organic waste
7. Metal goods/appliances
8. Porcelain bathroom fixtures
9. Yard waste.

Schedule K

Porcelain Bathroom Fixtures

Any residential product made from hard, white, translucent ceramic by firing pure clay and then glazing it with variously coloured fusible materials.

Includes:

- 1. Toilets
- 2. Sinks
- 3. Bathtubs
- 4. Bidets
- 5. Porcelain tiles free of mortar, grout, concrete, plaster, drywall or other adhesive or backing material

Does not include:

- 1. Porcelain tiles not free of mortar, grout, concrete, plaster, drywall or other adhesive or backing material
- 2. Any other tile not made of porcelain
- 3. Biomedical waste
- 4. Blue Box materials
- 5. Electrical and Electronic Equipment
- 6. Enamel or acrylic bathroom fixtures
- 7. Garbage
- 8. Hazardous and Special Products
- 9. Household organic waste
- 10. Metal goods/appliances
- 11. Yard waste

Schedule L

Acceptable Waste at Waste Management Facilities

Includes but is not limited to:

1. Automotive parts, excluding electric vehicle batteries
2. Agricultural bale wrap
3. Batteries, excluding electric vehicle batteries
4. Blue Box materials
5. Construction and demolition waste
6. Clean drywall and clean drywall offcuts
7. Electrical and Electronic Equipment
8. Expanded polystyrene plastic
9. Garbage
10. Metal goods/appliances
11. Motorized equipment with fluids drained
12. Hazardous and Special Products
13. Porcelain bathroom fixtures
14. Small engines with fluids drained
15. Textiles and other items for re-use
16. Tires and tire rims
17. Wood waste
18. Any other material deemed by the Region to be acceptable waste at Waste Management Facilities

Does not include:

1. Biomedical waste not properly packaged and labelled
2. Liquid waste other than that which is included in Hazardous and Special Products
3. Medical and liquid waste including cultures of infectious agents, blood and blood products, pathological waste, sharps, animal wastes contaminated with organisms that are infectious to humans not properly packaged and labelled
4. Radioactive waste
5. Ammunition

6. Asbestos
7. Explosives
8. Flares
9. Polychlorinated biphenyl (PCBs)
10. Commercial hazardous waste
11. Electric vehicle batteries
12. Electric scooter or electric bicycle batteries weighing more than 12kg
13. Sewage

Schedule M

Curbside Collection Services and Frequency

1. Refer to durham.ca/waste or the Durham Region Waste App for details regarding curbside waste collection schedules, appointment requirements and set out limits for the following local area municipalities:
 - a. Ajax
 - b. Brock
 - c. Clarington
 - d. Pickering
 - e. Scugog
 - f. Uxbridge
2. Refer to the City of Oshawa website for details regarding curbside waste collection schedules, appointment requirements and set out limits for City of Oshawa residents.
3. Refer to the Town of Whitby website for details regarding curbside waste collection schedules, appointment requirements and set out limits for Town of Whitby residents.



Technical and Risk Management Guidelines for Municipal Waste Collection Services on Private Property and for New Residential Developments in Durham Region

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1 Introduction

The purpose of this document is to ensure that proponents of residential high-rise buildings, townhouse properties, and single-family residential developments are familiar with the minimum design criteria for residential developments to receive municipal waste collection services provided by the Regional Municipality of Durham (Region).

The collection of all waste generated by residents of new residential developments is the responsibility of the respective builder until municipal waste collection services are granted by the Region.

The type of waste collection service to be provided is based on access, set out point and storage areas on the site. The Region reserves the right to enact additional requirements during its final review of development projects as necessary to address site specific issues which may impact safe access or collection. If the Region determines that a development does not meet the requirements contained within this document, then Regional waste collection services may be denied and private waste services, at the owners' cost, will be required.

All new residential developments in the Region should reflect current applicable regulations and should consider waste management storage and collection in the design stage, based on the guidelines of local municipalities.

The Blue Box Regulation (O. Reg. 391/21) established producer responsibility for the financial and operational management of residential blue box material in Ontario. Blue Box producers are required to collect multi-residential blue box material at no cost to residents. Additional information on the Blue Box recycling program and how to request collection services is available from the Resource Productivity and Recovery Association ([RPRA](#)).

Under the Resource Recovery and Circular Economy Act, 2016, the Minister of the Environment, Conservation and Parks may issue policy statements in the provincial interest. [Ontario's Food and Organic Waste Policy Statement](#) requires the owners of multi-residential buildings to establish a diversion program for food and organic waste generated by residents. Owners must establish programs to divert at least 50 per cent of food and organic waste by 2025.

1.1 Other Region of Durham municipal waste collection programs

Bulky goods, electronics and batteries are collected by the Region through curbside and multi-residential programs. In approved multi-residential buildings, textiles are also collected on site in partnership with local charities. Details of these programs are outlined on the Region's website durham.ca/waste. Space for the waste diversion

programs in multi-residential buildings is required as a condition for receiving municipal waste collection services.

Three local Regionally operated Waste Management Facilities are available for residential waste drop off on a pay-by-weight basis. The Region also operates four local household hazardous waste depots for residents to drop off accepted materials free of charge.

1.2 Commercial waste

The Region of Durham is not responsible for commercial waste, and at sites where retail or commercial services are available, waste storage facilities must be kept separate from residential waste handling and storage facilities. Private collection services must be obtained for commercially generated waste material. Refer to Ontario Reg.103/94 for more information.

Note

To be eligible for Region-provided waste collection service, the multi-residential development must participate in all available diversion programs.

The Region reserves the right to refuse or terminate waste collection services on private roads or in multi-residential developments if waste collection areas cannot be safely accessed or if adequate waste containers and resident education are not provided to separate household organics and other divertible materials from garbage.

2 Definitions

The following terms are in addition to the defined terms in By-law #XX-2024.

- a) **“Central Set Outs”** means a common area for placement of garbage and household organic receptacles for collection by the Region with respect to townhouse properties and single-family developments where material cannot be attributed to a specific address.
- b) **“Collectible”** means any residential waste material which may be collected pursuant to a Region and/or Municipal by-law.
- c) **“Collection Pad”** means an external level concrete surface large enough to accommodate bins and a waste collection vehicle.
- d) **“Municipality”** or **“Municipal”** means the municipality of the Region of Durham or any of the following area municipalities Municipality of Clarington, Township of Uxbridge, Township of Scugog, Township of Brock, City of Oshawa, Town of Ajax, Town of Whitby and the City of Pickering.
- e) **“Private Road or Roadway”** means lane, alley, unassumed road, or non-conforming road which is managed and maintained by the owner and not the municipality.
- f) **“Public Road or Roadway”** means a road that is under the jurisdiction of a public authority.
- g) **“Rough Grading”** means shaping the ground of a construction site to create a level surface for a solid foundation.
- h) **“T-turnaround”** means a “T” shaped area that allows vehicles to reverse direction through a 3-point turn.
- i) **“Turning Radius”** means the smallest vehicular turn path of a vehicle to maneuver a circular turn.

3 Residential Site Plan Requirements

When planning for municipal residential waste services for a new development, the site plan must include internal and/or external facilities for household organics and other waste diversion initiatives. The design of an efficient waste management area to allow residents to properly sort and store materials plays an important part in achieving waste diversion.

3.1 Designated Area for Set Out

Each multi-residential property shall have a minimum of one designated area for the setting out of waste and divertible materials and the property design shall provide for easy and barrier free access for residents and collection vehicles.

3.2 Curbside Collection (Townhouse and other Private Road Developments)

See Section 6 for detailed requirements.

Each dwelling unit must have clear delineation of set outs so ownership of waste receptacles left at the curb for collection can be determined. The residential waste set-out point must clearly be shown either with a pad or at the end of the owners' driveway. No central set out area is permitted. The footprint at the set-out area should allow for sufficient space for, at a minimum, two Blue Box receptacles, Green Bin(s), Leaf and Yard waste and space for up to four bags of garbage. Organics is collected weekly and garbage is collected every other week. If access to a curb where individual set-out is not designated or available, then a multi-residential collection area is required.

3.3 Multi-residential Collection

Each collection area must be centrally located and designed in a manner that residents can safely access, sort and manage their waste.

The Region works with owners of properties with difficult accessibility to provide collection to as many multi-residential developments as possible. However, if the Guidelines outlined in this document cannot be met, private collection may be required.

3.4 Waste Plan

Development applications must include information in a waste plan that demonstrates their site plans have incorporated all guidelines pertaining to municipal waste collection services. The waste plan will include the following:

- a) Number of dwelling units and number of building stories.

- b)** The proposed waste handling system anticipated for Blue Box materials, household organics, other divertible wastes, and garbage at the site.
- c)** A drawing showing the minimum road dimensions, turning radii, and overhead clearance that conform with the Region's requirements. The access route expected to be used showing waste collection vehicle (See Appendix "A" for dimensions) movement through the proposed development including entry, reversing, exit or any other movement necessary for waste collection must be included.
- d)** A drawing showing the internal waste storage area including room dimensions and layout showing the chute details (if applicable) and the size, type and number of collection containers and how these containers will be accessed by collection vehicles, including turning radii that conform with the Region's requirements for municipal waste collection.
- e)** Above ground features such as parking areas, mailboxes, common elements in relation to the waste collection access route.
- f)** If curbside set-out is proposed, a drawing that clearly depicts a designated area for each dwelling unit for the set out of Blue Box receptacles, Green Bins and garbage.
- g)** A drawing depicting that waste storage enclosures meet or exceed local municipality development standards and by-laws.

3.5 Start of Municipal Waste Collection Services

3.5.1 Subdivision Developments

All roads within new subdivisions are considered private until assumed by the Region for the purpose of municipal waste collection services. Regional waste collection will not occur until at least 50 per cent of homes in an approved development area are occupied and the Region has determined that the collection route is safely passable for municipal waste collection vehicles.

3.5.2 Multi-story Developments

Every developer or builder of a new development must ensure that waste from construction operations is kept separate from any residential waste at all times. The Region shall review a property for municipal waste collection services when 75 per cent occupancy is confirmed and the Region has determined that the collection route is safely passable for municipal waste collection vehicles.

3.5.3 Private Roadway Developments

Every applicant requesting municipal waste collection on a private roadway development must complete the Region's Waste Collection Service on Private Property – Durham Region application and submit the required information and proof of insurance. The application is available in hardcopy or digital copy by request from wastestaff@durham.ca, or online. Once a completed application is received, the Region will schedule a site visit to confirm that the requirements for municipal waste collection services have been met before approving the subject property for service.

Before a service application is approved for municipal waste collection, roadways must be accessible, allowing waste vehicles to move in a forward motion throughout the site and at least 50 per cent of the units must be occupied on the designated route.

Upon approving a private roadway development for municipal waste collection services, the Region will issue a Notification for the Start of Service to the property owner or property manager outlining all aspects of service and equipment that will be supplied to the site.

The builder or property manager is responsible for the management and proper disposal of residential waste until municipal waste collection begins.

4 General Waste Collection Requirements on Private Roads

The following are the general requirements for Region collection of residential garbage, household organics and yard waste on private roadways. Applicants should refer to the applicable Provincial and Municipal By-laws for additional requirements.

- a) The Region will only collect residential waste.
- b) The Region reserves the right to revoke collection services to any residential or multi-residential development that does not meet the requirements outlined in this document or the Region's Waste By-law #XX-2024.
- c) Properties approved to receive front-end waste services are responsible for maintaining safe and accessible residential waste storage and handling systems that make waste diversion as convenient as waste disposal.
- d) All waste collection areas and the access road leading to them shall be provided exclusive of any onsite parking spaces.
- e) If access is blocked on the day of collection, no collection will be completed, and material will be left for removal at the property owner's expense and effort.

- f) All residential waste must be securely stored inside an enclosed structure between collection days. Waste storage areas must be in an easily accessible location by residents in a well-lit, secure, and barrier free environment.
- g) All residential waste receptacles must be stored in their respective waste storage areas until the scheduled collection day and must be returned to their respective waste storage areas on the same day following collection with their lids securely closed.
- h) Waste information signage for multi-residential sites must be installed in appropriate locations to identify to residents the proper separation of any divertible material. Property owners are responsible for actively promoting recycling, and other diversion programs to reduce waste.
- i) Private access roads must be constructed of a suitable material such as asphalt or concrete and be structurally adequate to support the weight and vibrations of a fully loaded waste collection vehicle without damage to the roads.
- j) The owner, or agent of the owner, of the property agrees to indemnify and hold harmless the Region and its waste collection contractors on private property against all actions, suits, claims and demands, direct or indirect, which may arise as a result of the provision of these services to the property, including, but not limited to, any damages to structures that may be located on or about the premises, as a result of any waste material collection equipment entering the property, save and except any such actions, suits, claims and demands resulting from any fault, default, negligence, act or omission of the Region, or its waste collection contractors or any other Person for whom the Region is in law responsible.
- k) The property owner is responsible for making all collection receptacles accessible to municipal waste collection vehicles on the designated collection day.
- l) The property owner is responsible for collection, processing, composting, haulage and disposal of all waste from the property until the start of municipal waste collection services.
- m) Each property owner is responsible for ensuring that residents use collection containers for their intended purpose to minimize contamination of the respective waste diversion streams. Failure by an owner to address

contamination may result in suspension of municipal waste collection service at the discretion of the Region.

- n) Failure to provide proper storage space for all waste streams may result in the suspension or cancellation of municipal waste collection service.
- o) The Region reserves the right to provide notification of suspension or cancellation of municipal waste collection service for any contravention of this Guideline and/or By-law #XX-2024.

4.1 Access Routes

- a) All roadways must have the following minimum dimensions:
 - a. 6.5 metres in width from curb face to curb face,
 - b. 13.0 metres in turning radii to curb face,
 - c. 18.0 metres straight approach for multi-residential collection areas,
 - d. Overhead clearance of no less than 7.0 metres throughout.
- b) Where the requirement for a continuous roadway cannot be achieved, a “T” type turnaround or cul-de-sac type turnaround will be permitted. See specifications listed in Appendix B and C.
- c) Where the access route requires the collection vehicle to travel over the deck of an underground parking garage, the applicant must provide a letter to the Region certified by a Professional Engineer confirming the structural capability of the deck to support the weight and vibrations of a fully loaded waste collection vehicle.

5 General Waste Collection Requirements for High Rise Buildings

The following applies to multi-residential high- or mid-rise buildings with six or more dwelling units and stacked townhouses with no garage that utilize a central set out area. The requirements for collection on private roads outlined in Section 3 also apply.

5.1 Storage Areas

- a) The development must have internal waste collection storage rooms of sufficient size to receive and accommodate all garbage, household organics and Blue Box materials from residents.

- b) Only residential waste will be collected from front-end receptacles. No large bulky items, hazardous waste or electronic waste are to be placed in front-end receptacles.
- c) Storage rooms will be fully accessible and identified for the sole purpose of managing waste by residents.
- d) All receptacles will be legibly marked for garbage, household organics, Blue Box materials, and any other divertible materials.
- e) All waste storage rooms must be ventilated, well lit, secure, rodent-proof and separated from the living space in accordance with local zoning By-laws, and Ontario building and fire codes.
- f) All waste storage rooms must be maintained to ensure the safety of residents and collection contractors.
- g) All front-end collection containers must have heavy duty wheels that can be locked to avoid rolling.
- h) Multi-residential developments with greater than 30 units must use compactors for all garbage.
- i) Buildings with waste chutes must ensure waste is sorted for municipal collection. Separate collection receptacles must be provided for household organics, Blue Box materials and garbage. Educational information and signage are available from the Region to illustrate and encourage proper sorting of waste and must be used to promote proper management and sorting.
- j) Property owners and on-site staff must ensure appropriate internal collection procedures and waste handling systems are in place to meet Blue Box material sorting requirements established by the Blue Box material producers.
- k) Consideration must be given to in-unit storage requirements to accommodate various waste sorting receptacles necessary to participate in the Region's diversion programs ensuring that waste diversion is as convenient as waste disposal.

5.2 Waste Collection Areas

- a) Direct and safe access for collection vehicles entering from and exiting to the public road must be provided.
- b) The collection area on private property must consist of a level reinforced concrete pad suitably sized to accommodate all waste receptacles and the front-end collection vehicle. A front-end waste collection vehicle must not tip on asphalt as damage can occur due to the weight of the vehicle.
- c) Front-end waste collection containers must be secured with locking wheels and bollards or curbs.
- d) Owners must ensure that municipal waste collection vehicles are able to empty and return receptacles to the collection area without requiring containers to be shuffled either manually or mechanically.
- e) Owners must ensure that municipal waste collection vehicles are able to safely drive out onto the public roadway. Reversing onto a public roadway or oncoming traffic is not permitted unless a spotter is present and the Region has approved the method.
- f) All waste collection areas must be kept clear of all obstructions and clearly marked as a “No Stopping” or “No Parking” area.
- g) Internal waste collection areas, where collection vehicles must empty collection containers inside a building, are permitted. A minimum of 7.0 metre height clearance must be provided enabling the waste collection vehicle to safely complete the maneuver without hitting or scraping walls or roof of the building. Convex mirrors inside and outside the building must be installed and maintained to ensure that municipal waste collection vehicles can safely exit the building.

5.3 Frequency of Service

The Region’s waste collection service for multi-residential collection in front-end receptacles will be limited as follows:

Household Organics: weekly collection will be provided, at minimum, with twice per week collection on a case-by-case basis.

Garbage: weekly for sites under 100 units and twice weekly for greater than 100 units (front-end collection from forklift designed bins).

Bulky items service: by appointment only.

Other diversion programs: as defined by the Region. Includes e-waste, textiles and batteries. All programs are promoted in partnership with each respective service provider but operated independently of the Region.

5.4 Waste Collection Equipment

All receptacles must meet the requirement of the Region for waste collection. Recommendations on the number of receptacles are estimates only and actual requirements may vary by site and with the frequency of collection.

5.4.1 Garbage Receptacle

The following information for front-end collection garbage receptacle size and requirements for multi-residential sites is intended for general guidance. Proponents should retain the services of a waste management consultant for advice specific to each development.

a) Compacted (internal storage)

One front-end container per 50 units. Each front-end containers size is typically 3 cubic yards, and an extra container should be available for use on the compactor. An additional extra container should be added above basic requirements for buildings over 150 units.

b) Uncompacted (external storage)

Table 1 in section 5.4.3 indicates the quantity and sizes of front-end bins that are suggested for uncompacted waste for each building size. 6 cubic yard front-end bins are most commonly used.

5.4.2 Household Organics

Durham Region operates an Enhanced Green Bin program that accepts the items listed in Schedule E of the Waste Management Services By-law #XX-2024.

The Region of Durham supplies an in-unit kitchen catcher for each residential unit to collect household organics and wheeled tote containers as common collection containers for bulking the household organics from individual residential units.

5.4.3 Waste Collection Container Estimates

Table 1 provides a guideline for residential buildings based on an average of two residents per unit and best practices for source separation of divertible materials.

Table 1: Waste Receptacle Recommendations

Number of Dwelling Units	Organics Receptacles	Front-End Garbage Receptacles
6-10	1 Cart	1 x 2yd ³
11-20	1 Cart	1 x 3yd ³
21-30	2 Carts	1 x 4yd ³
31-40	2 Carts	1 x 6yd ³
41-50	3 Carts	1 x 8yd ³
51-60	3 Carts	1 x 8yd ³
61-70	4 Carts	2 x 6yd ³
71-80	4 Carts	2 x 6yd ³
81-90	5 Carts	2 x 8yd ³
91-100	5 Carts	2 x 8yd ³
Twice Weekly Collection Recommended		
101-110	6 Carts	3 x 8yd ³
111-120	6 Carts	3 x 8yd ³
121-130	7 Carts	3 x 8yd ³
131-140	7 Carts	3 x 8yd ³
141-150	8 Carts	3 x 8yd ³
151-160	8 Carts	4 x 8yd ³
161-170	9 Carts	4 x 8yd ³
171-180	9 Carts	4 x 8yd ³
181-190	10 Carts	4 x 8yd ³
191-200	10 Carts	4 x 8yd ³
201-210	11 Carts	5 x 8yd ³
211-220	11 Carts	5 x 8yd ³
221-230	12 Carts	5 x 8yd ³
231-240	12 Carts	5 x 8yd ³
241-250	13 Carts	6 x 8yd ³

6 General Waste Collection Requirements for Townhouse Properties on Private Roads Receiving Curbside Service

A multi-residential townhouse development, where the internal private road enables curbside collection, may be approved for weekly curbside waste collection. The Waste Collection Service on Private Property – Durham Region application must be completed by the condominium board or designate on behalf of all residents and be submitted online. The Region will conduct a review of the site to ensure it meets the vehicle

accessibility requirements for waste collection service. This review will only be completed once 50 per cent of homes in an approved development area are occupied and the Region has determined that the collection route is safely passable for municipal waste collection vehicles.

The condominium board is responsible for all road maintenance and access within the site.

Townhouse developments approved for curbside collection will receive the same services as single family homes and residents must follow By-law #XX-2024 requirements for curbside set out.

The following requirements may be unique to townhouse developments on private roads:

6.1.1 Collection Areas

- a) Collection areas must be located along the internal roadway of the development in front of each dwelling unit. It is the responsibility of the residents to properly place their waste out for collection on the designated day of the week as per the Region's Waste Collection By-law #XX-2024.
- b) The collection route must be kept clear of all obstructions and clearly marked as a "No Stopping" or "No Parking" area along the private roadway.
- c) A minimum overhead clearance of 7.0 metres must be provided from all obstructions such as wires, balconies, trees or other throughout the collection access route and in all waste collection areas.
- d) Clear delineation of ownership of the waste at the set out point of each unit is required to ensure no piles are created and illegal dumping is prevented. Waste set out may be either at the end of a driveway or on a clearly labeled set out point which reflects the unit number of the property.
- e) Access routes must meet the requirements outlined in section 4.1.

7 Regional approval process for municipal waste collection on private property

The Region's Works Department Waste Management Services Branch reviews all new residential development applications. If additional information is required, a developer will be requested to submit additional details, such as a detailed waste plan, or a detailed drawing showing the proposed movements of municipal waste collection vehicles through the site. Municipal waste collection services may be denied for any

development that does not meet the minimum requirements for municipal waste collection services.

Multi-residential development applications must clearly depict details of internal waste storage rooms, respective compacting and sorting equipment, and collection areas.

The Region's comments related to approval of municipal waste collection services remain as recommendation only until a formal application is submitted and approved, and a final site visit is completed which confirms that the property conforms with the Region's design standards for municipal waste collection services.

7.1 Application for Waste Collection Services

An application for Waste Collection Service on Private Property – Durham Region and Indemnification Form must be completed for every development on private roadways as a condition for the provision of municipal waste collection on private roadways.

No application is required for developments on public roadways. However, each developer/builder must submit closing lists confirming occupancy as a condition for the Region's commencement of municipal waste collection services.

7.2 Site Reviews

The Region will complete a site review upon receipt of, either an application for Waste Collection Service on Private Property – Durham Region application and Indemnification Form or closing lists. Refer to Appendix E Checklist for Waste Collection - Services on Private Property for details of the site review. During the site review, a waste collection vehicle will traverse the route confirming uninterrupted access/egress. The internal waste collection areas will be reviewed to ensure that all equipment installations meet the Region's design standards for municipal waste collection services.

All reviews are based on meeting these Guidelines and a final decision will be provided upon final site inspection. If approved, confirmation will be provided with details of the service levels that can be provided by the Region. If application for service is made by the builder prior to completion of the development and the establishment of the condominium corporation occurs, a revised and updated Application and Certificate of Insurance must be provided by the condominium corporation.

7.3 Insurance Certificate

Upon approval of municipal waste collection services, a Certificate of Insurance must be completed and submitted to the Region confirming that the Region is named as an insured party on the property's insurance policy and will continue to be named so at

renewal of the policy. A new Certificate of Insurance is required to be submitted to the Region at any time the ownership of a property changes.

The Region reserves the right to require an original up-to-date certificate of insurance at any time. Failure to comply shall result in the Region suspending municipal waste collection services the required Certificate of Insurance is provided.

7.4 Submission of Documents

All documents should be submitted either by mail to:

Supervisor, Waste Services

Regional Municipality of Durham, 5th Floor
605 Rossland Road East, PO Box 623
Whitby, Ontario L1N 6A3

Or electronically to:

wastestaff@durham.ca

The Region will respond in writing/email to the applicant acknowledging that the document has been received.

8 Revisions to the Technical and Risk Management Guidelines for Municipal Waste Collection Services on Private Property and for New Residential Developments in Durham Region

The Region may, from time-to-time review, revise and update this document.

Any revisions to this document will require the approval of the Director of Waste Management Services or designate.

Appendix A: Dimensions of Waste Collection Vehicles and Containers

The following table illustrates typical vehicle dimensions for a typical waste collection vehicle. The dimensions are approximate and may vary from actual. All measurements are in metres:

Vehicle Type	Length	Width	Height	Turning Radius
Multi-Residential Recycling Collection (side loaded by driver)	10.76 m	2.77 m	<ul style="list-style-type: none"> • 3.69 m to top of cab • 5.08 m with bucket up 	11.50 m
Multi-Residential Front-end Waste	9.85 m	2.77 m	<ul style="list-style-type: none"> • 4.31 m to top of cab • 7 m with forks extended 	11.50 m
Curbside Waste and Organic Rear Packer (hand bombed)	11.54 m	2.77 m	3.69 m	13.00 m
Curbside Recycling Side Packer (hand bombed)	10.46 m	2.98 m	3.85 m	13.00 m

The following figure illustrates a typical lift and tip of a front-end vehicle.

COLLECTION VEHICLE USED FOR FRONT-END GARBAGE RECEPTACLES

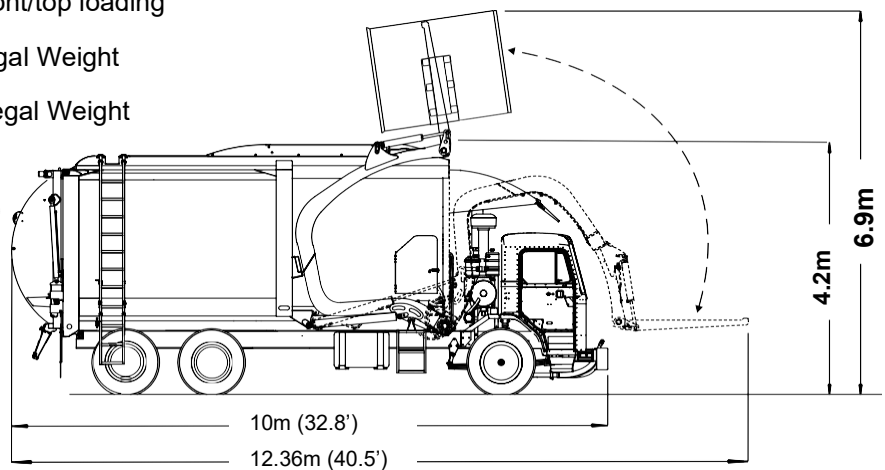
Example: SU9/medium size trucks front/top loading

7,300 kg (16,094 lbs) - Front Axle Legal Weight

17,000 kg (37,479 lbs) - Rear Axle Legal Weight

Dimensions:

- **Length:** 10 m (collection 12.36 m)
- **Width:** 3.15 m
- **Height:** 4.2 m (collection 6.9 m)



*Note: front-end collection bins contain protruding side brackets to facilitate lifting by collection truck lift arms. Extra space on either side of such bins has been incorporated into the recommended footprint column for space planning purposes.

**Note: height of front-end collection bins does not include castors (wheels), which are optional on bins and could add 6 to 8 inches.

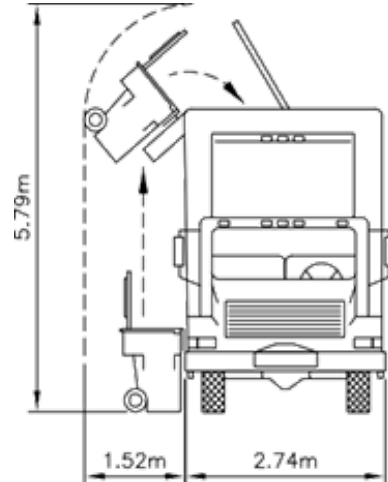
The following illustrates the motion of multi-residential organics cart recycling collection vehicle.

ORGANICS CART RECYCLING

Example: SU9/medium size trucks side loading

Dimensions

- **Length:** 10.67 m
- **Width:** 2.74 m (collection 4.26 m)
- **Height:** 4.27 m (collection 5.79 m)



Front-end forklift vehicle capacity	Length	Width	Height**	Recommended Footprint
65 Gallon (246 L)	0.68 m 2.24 ft	0.68 m 2.23 ft	1.09 m 3.58 ft	1 cubic m 3.3 ft x 3.3 ft
2 Cubic Yard Bin	1.82 m 6.0 ft	0.91 m 3 ft	0.91 m 3 ft	2 m x 1.2 m 6.5 ft x 4 ft
3 Cubic Yard Bin	1.82 m 6.0 ft	1.03 m 3.4 ft	1.21 m 4.0 ft	2 m x 1.4 m 6.5 ft x 4.5 ft
4 Cubic Yard Bin	1.82 m 6.0 ft	1.37 m 4.5 ft	1.22 m 4.0 ft	2 m x 1.7 m 6.5 ft x 5.5 ft
6 Cubic Yard Bin	1.82 m 6.0 ft	1.82 m 6.0 ft	1.6 m 5.25 ft	2 m x 2.1 m 6.5 ft x 7 ft
8 Cubic Yard Bin	1.82 m 6.0 ft	2.1 m 7.0 ft	1.82 m 6.0 ft	2 m x 2.4 m 6.5 ft x 8 ft

Appendix B: Determine Access Route for Collection Vehicles and Turn Radius

A waste collection vehicle needs to safely enter and exit a site to provide municipal waste collection services. Insufficient space for the vehicle to move in and out of an area, poses a risk to pedestrians and vehicular traffic. Design guidelines are summarized to assist in developing the footprint where waste can be collected safely.

Element	Design Guideline
Access In/Out	Collection vehicles when entering a private roadway, must have clear visibility into the collection point where set-out occurs. The collection vehicle must move in a forward motion to collect. Once collection is complete, the truck may maneuver with a three-point turn either on a t-turn or cul-de-sac but must generally move in a forward motion. Reversing onto the public roadway or oncoming traffic is not permitted unless a spotter is present, and the Region has approved the method.
Roadway	Must meet municipal and regional road requirements ensuring clear site lines with a minimum width of 6.5 meters throughout.
Slope	Slope into site must not exceed 6 per cent and area where bins are placed for collection must be less than 1 per cent and ensure bins do not roll.
Under route	If a collection vehicle must travel over an underground parking garage or any underground utility service, the road must meet or exceed the ability to handle the weight of a fully loaded waste collection vehicle. Engineering report will be required on file to validate strength of structure.
Overhead clearance	Minimum vehicle clearance along route must be 7 meters. Internal building collection is permitted but design of collection point must adhere to width, height and tipping dimensions of a front-end waste vehicle and convex mirrors to enable clear visibility to exist the area.
Turning radius	Provide the collection vehicle a minimum turning radius of 13 metres to face of curb throughout the entire access route.

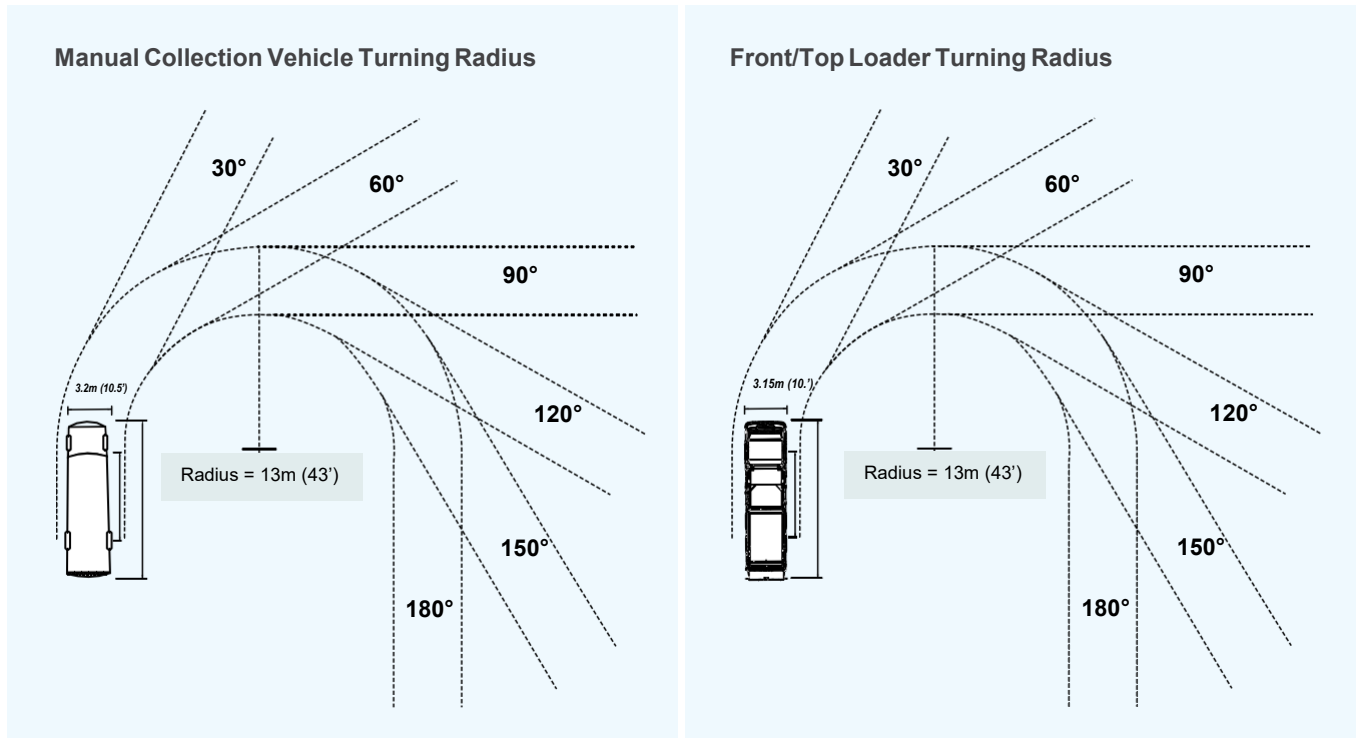


Figure 1 Collection Vehicle Turning Radius

Appendix C: Dimensions for a "T" Turnaround

Measurements of road width are pavement to pavement. Rolling curbs are considered additional width and not roadbed.

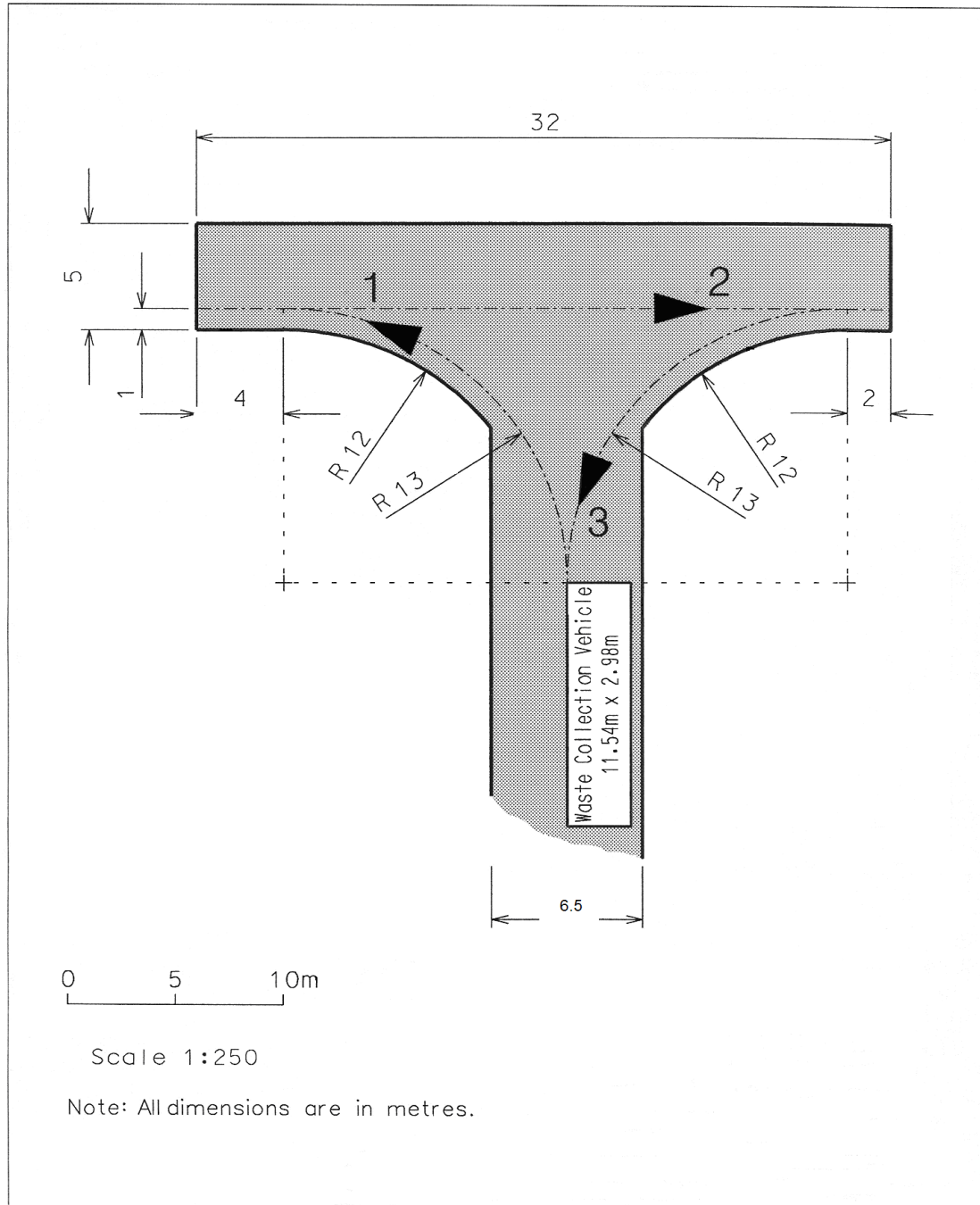


Figure 2 Dimensions for a "T" Turnaround

Appendix D: Dimensions for a Cul-de-sac Turnaround

Measurements of road width are pavement to pavement. Rolling curbs are considered additional width and not roadbed. The internal radius is measured from the centre point of the cul-de-sac to the face of the curb.

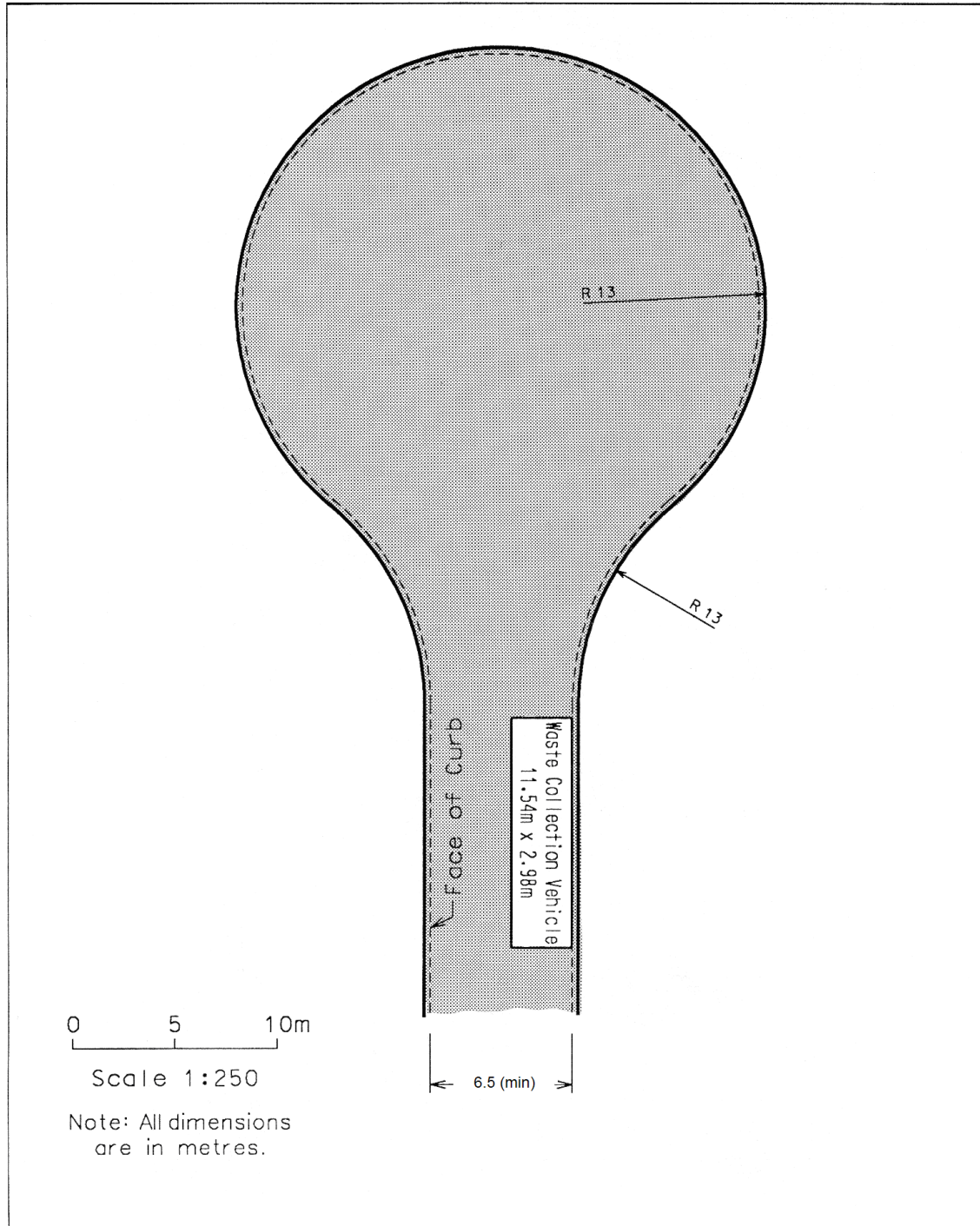


Figure 3 Dimensions for a Cul-de-Sac Turnaround

Appendix E: Checklist for Waste Collection Staff – Services on Private Property

Completed by Region or waste contractor staff during site review of a new application. _____(initials)

ADDRESS REVIEWED: _____ DATE: _____

General Site Requirements**Confirmed (Y/N)**

The property owner designed and constructed proper and safe residential waste handling systems for their residents on private property including access routes, storage facilities, collection areas, and access to a public road. Reversing onto a public roadway or oncoming traffic is not permitted unless a spotter is present and the Region has approved the method.	
The design of the collection area and the access road, as outlined in this document, is provided exclusive of any onsite parking spaces. No Parking signs have been installed.	
All containers used for source separation of waste are securely stored inside until the scheduled collection day, and a system is confirmed that bins are returned to the storage area following collection.	
Private access roads have been constructed of a suitable material such as asphalt or concrete and structurally adequate to prevent damage by and support of a fully loaded garbage collection vehicle of approximately 30 tonnes.	
Road width is equal to or greater than 6.5 meters throughout the route measuring from pavement to pavement and turn radius is no less than 13 meters.	

High Rise Buildings ONLY: For multi-storey residential high rise buildings with more than 6 units, waste collection design and services are to be as follows:

a) Storage Checklist**Confirmed (Y/N)**

Internal garbage and recycling storage room(s) have sufficient size to accommodate all required garbage and recycling containers. Such space provides for easy access and movement of containers to and from the storage room. The storage room must be ventilated, well lit, rodent-proof and separated from the living space, and meet or exceed local zoning By-laws, building and fire codes;	
Appropriate location ensures a safe and clean environment around the waste collection areas and access routes for residents. Property owners or onsite designate confirm they can actively promote waste diversion programs onsite as a means of reducing garbage;	
The storage room has a roll up overhead door a minimum size of 4.0 metres wide and 4.0 metres high, leading to the collection area.	

Application Checklist for Waste Collection Services on Private Property

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Property owner/manager/designate responsible will move all garbage, recycling, organic waste storage containers to the designated collection point on the designated collection day(s). Front-end collected garbage containers that cannot be accessed from within the collection vehicle will not be collected.	
Large multi-storey residential development sites greater than 30 units must mechanically compact garbage waste. Waste handling systems must include separate containers for organics, Blue Box materials and garbage.	
If equipped with a chute system, an adequately sized chute system (designated: garbage, organics, containers, papers) exists adjacent to the building elevators, or an acceptable equivalent location, and residents can source separate waste prior to sending it down the chute system.	
A waste enclosure is present for bulky goods collection adjacent to and separate from the garbage and organics bins to enable material to be separate from residual waste for bulky-good collection is provided.	

b) Collection Area Checklist**Confirmed (Y/N)**

The collection area is directly accessible to the garbage and organics collection vehicles on private property with direct and safe access entering in a forward motion from, and once collection is complete, exiting to the public road.	
The collection area is level with the access roadway and consists of a level concrete pad and apron with a minimum width of 3.0 meters for every garbage bin and 1 metre for every recycling bin. Sufficient space on the concrete pad enables the waste vehicle to complete collection operations. The minimum depth of the collection area is 3 metres.	
The collection area has bollards or curbs to prevent the containers from rolling.	
The collection vehicle is able to empty and return containers to the waste collection area without requiring containers to be shuffled either manually or mechanically.	
The collection area is clear of all obstructions and clearly marked as a NO STOPPING area.	
In the collection area, an overhead clearance of 7 metres is provided and no obstructions such as wires, balconies and trees are visible.	
Where the requirement for a continuous drive-through access and exit cannot be met, a "T" type turnaround is provided that includes the length of the collection vehicle plus the length. Specification listed in Appendix C.	

Application Checklist for Waste Collection Services on Private Property

Page 3 of 3

c) Access Routes Checklist**Confirmed (Y/N)**

The internal roadway is a minimum of 6.5 metres in width, uses a minimum of 13 metres in turning radii and the approach to the collection area is designed with a minimum of 18 metres straight approach.	
Where the access route used by the waste collection vehicle travels over the deck of an underground parking garage, the applicant has provided a letter to the Region, certified by an Engineer that confirms the structural capability of the deck to support the weight and vibrations of a fully loaded waste collection vehicle.	
The internal roadway permits forward movement. Continuous drive through access is preferred.	

Townhouse/ Single Family Properties ONLY: For single family dwellings and multi-residential townhouse type developments with an internal private road network or unassumed road, waste collection design and services are to be as follows:

a) Storage Area Checklist**Confirmed (Y/N)**

The development can accommodate waste material storage inside the single family dwellings and/or internal road type townhouse units.	
--	--

b) Collection Area Checklist

The waste collection area is along the internal access route of the development in front of each and every dwelling unit. Residents can properly place their waste materials out for waste collection on the designated day of the week.	
The collection area is clear of all obstructions and clearly marked as a "No Stopping" or "No Parking" area.	
Along the collection access route and in the collection area, an overhead clearance of 7 metres is provided from all obstructions such as wires, balconies and trees.	

c) Access Routes Checklist**Confirmed (Y/N)**

The internal road layout is designed to permit continuous collection.	
The internal roadways is a minimum of 6.5 metres in width and a minimum of 13 metres in turning radii measured curb-to-curb.	
Where a continuous drive-through route cannot be achieved, a "T" type turnaround or cul-de-sac type turnaround is provided. Refer to specifications in Appendix C and D.	
The internal access route is designed to structurally withstand the weight of fully loaded waste collection vehicles.	
Where the access route used by the collection vehicle travels is over the deck of an underground parking garage, a letter to the Region and/or Municipality, certified by an Engineer that confirms the structural capability of the deck to support a fully loaded waste collection vehicle has been provided.	

START SERVICE RECOMMENDED: YES /NO IF **YES**, START DATE: _____

4

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: Acting Commissioner of Works
Report: #2024-WR-2
Date: March 6, 2024

Subject:

Update on Small Business Recycling Post Blue Box Transition

Recommendation:

That the Works Committee recommends to Regional Council:

- A) That, effective January 1, 2026, the Regional Municipality of Durham cease to provide Blue Box recycling services to the small businesses currently receiving municipal waste collection services as listed in Attachments #1 and #2;
 - B) That staff be directed to develop and implement a communication plan to advise these small businesses that, effective January 1, 2026, they will no longer receive municipal Blue Box recycling services;
 - C) That staff be authorized to send a letter to the Premier of Ontario and the Minister of the Environment, Conservation and Parks strongly endorsing the creation of a Blue Box recycling regulation for Ontario's Industrial, Commercial and Institutional sector as it has done for Ontario's residential sector; and
 - D) That a copy of this report be shared with the Regional Local Area Municipalities, the Premier of Ontario and the Minister of the Environment, Conservation and Parks.
-

Report:

1. Purpose

- 1.1 The purpose of this report is to recommend that, effective January 1, 2026, the Regional Municipality of Durham (Region) cease to provide Blue Box recycling

services to the small businesses currently receiving municipal waste collection services.

2. Background

- 2.1 In June 2021, the Province of Ontario released Regulation 391/21 Blue Box (Regulation 391/21) under the *Resource Recovery and Circular Economy Act, 2016*, which shifts the financial and operational responsibility of recycling from municipalities to the organizations that produce packaging, paper and packaging-like products. The Regulation takes full effect on January 1, 2026, province wide.
- 2.2 On July 1, 2024, the Region will transition its curbside Blue Box collection program to producers as part of a province wide transition. The producers will assume full responsibility for the program under a new Extended Producer Responsibility (EPR) regime. The province-wide transition will be complete on December 31, 2025.
- 2.3 In the Region, the new Blue Box program will be operated on behalf of the producers by a Producer Responsibility Organization (PRO) called Circular Materials (CM). CM confirms that the new Blue Box program will not include recycling services to businesses after December 31, 2025, as per the definition of Eligible Sources under Regulation 391/21.
- 2.4 Blue Box Regulation 391/21 defines eligible sources as residences and facilities only. Facilities are described in the regulation as residential-type buildings such as long-term care and not-for-profit retirement homes, multi-residential buildings and schools. The regulation does not include commercial or industrial establishments, including small businesses.
- 2.5 The Region currently provides Non-Hazardous Waste, Recyclables and Organics collection services to approximately 2,800 small businesses in Designated Business Areas (DBAs) listed in Attachment #1 under the following Standing Agreements:
 - a. C003008 for the Townships of Brock, Uxbridge, Scugog, and the Municipality of Clarington
 - b. C003326 for the City of Pickering and the Town of Ajax
 - c. C002667 for recyclables collection only in the Town of Whitby and the City of Oshawa

- 2.6 The Region also services approximately 200 additional small businesses, listed in Attachment #2, that are not formally included in the contracts noted in item 2.5. These businesses are not located in DBAs and do not meet the jurisdictional requirements for municipal waste collection services. However, they were included when the Region assumed waste collection services from the local area municipalities in the early 2000s. These properties included gas stations, churches, strip malls, flea markets, auto body shops, garages, nurseries, golf courses, doctor and dentist offices, pharmacies, hair salons and veterinary clinics and are legacy services that resulted from negotiations during the collection uploads.
- 2.7 The Region also services approximately 200 additional small businesses, listed in Attachment #2, that are not formally included in the contracts noted in item 2.5. These businesses are not located in DBAs and do not meet the jurisdictional requirements for municipal waste collection services. However, they were included when the Region assumed waste collection services from the local area municipalities in the early 2000s. These properties included gas stations, churches, strip malls, flea markets, auto body shops, garages, nurseries, golf courses, doctor and dentist offices, pharmacies, hair salons and veterinary clinics and are legacy services that resulted from negotiations during the collection uploads.
- 2.8 Regional staff have successfully negotiated with CM to continue providing recycling collection services to these small businesses during the Blue Box transition period between June 30, 2024, and December 31, 2025, as an ancillary part of CM's Durham contracts on a cost-recovery basis. However, CM will not service these or any non-residential properties effective January 1, 2026, as they are not included as eligible sources under Regulation 391/21, which governs the new Blue Box program.
- 2.9 Given CM's position, the Region will need a dedicated contract to continue providing Blue Box recycling services to these small businesses starting January 1, 2026. This contract would consist of a selected vendor procuring additional vehicles to run dedicated routes in select areas where collection is required. (Note that under the current arrangement and during the transition, these businesses are serviced utilizing the same fleet and routes as the curbside residential).
- 2.10 Staff have conducted a market scan to assess the feasibility of a dedicated contract for the collection and processing of Blue Box recyclables from these businesses starting January 1, 2026, including ongoing dialogue with other

Ontario municipalities. The market scan returned estimated costs over ten times higher than the costs to provide the small business blue box recycling service during the Blue Box transition period.

3. Previous Reports and Decisions

- 3.1 Through Report #2022-WR-2, Blue Box Transition Impacts on Waste Management Collection Operations and Small Business Recycling Options, Regional Council directed staff to amend existing Standing Agreements regarding the Recycling collection services provided to small businesses for one year commencing July 1, 2023, and ending on June 30, 2024, and to negotiate with Producer Responsibility Organizations of the new Blue Box program and report back on the financial implications to include the collection of recyclables from the small businesses in the PROs' collection programs, on a cost recovery basis, as well as alternative options and recommendations for Regional Council to consider if negotiations with PROs failed.
- 3.2 Through Report #2020-COW-15, Council Resolution - Blue Box Transition Date, Regional Council endorsed a resolution on the transition to full EPR and to forward same to the Minister of the Environment, Conservation and Parks, and the Association of Municipalities of Ontario (AMO).
- 3.3 Regional Council has authorized contract alignments and staff participation in the Blue Box consultation and transition process in the following reports:
 - a. Report #2020-COW-2, Solid Waste Management: 2020 Strategic Issues and Financial Forecast; and,
 - b. Report #2019-COW-3, Solid Waste Management Servicing and Financing Study.

4. Impact of Extended Producer Responsibility on Durham's Small Businesses

- 4.1 Regulation 391/21 makes businesses ineligible to receive Blue Box recycling collection services under the new Blue Box Program, effective January 1, 2026.
- 4.2 The Region's long-held provision of Blue Box recycling services to the small businesses listed in Attachments #1 and #2 has made these businesses rely on the Region's continued support. Staff recognize that removing this service may result in hardship for these businesses, who will have to recycle at their own cost. Most of these small businesses may stop recycling, which will have a negative impact on the Region's waste diversion goals. The businesses referenced in 4.5

below have always borne the costs of recycling and have not had the benefits noted here.

- 4.3 Staff is prepared to develop and implement a communication plan to advise these small businesses that they will no longer receive municipal Blue Box recycling services starting January 1, 2026.
- 4.4 Staff will continue to advocate for small businesses to be included in updated or future regulations after the Region transitions out of the Blue Box program.
- 4.5 Businesses outside of those listed in Attachments 1 and 2 do not currently receive waste collection services from the Region and will be unaffected by the change.
- 4.6 No change to existing waste or organics collection for businesses listed within Attachments 1 and 2 is being proposed as part of this report.

5. Financial Implications

- 5.1 Table 1 presents the number of locations by local area municipality currently serviced by the Region, and the projected costs of providing recycling collection services to the Region's small businesses during the Blue Box transition period and post blue box transition.

Table 1: A Comparison of Blue Box Recycling Collection from Small Businesses During and Post Blue Box Transition Period

Contract	Location	DBA Stops	Non-DBA Stops
C003008	Brock	153	45
	Uxbridge	101	
	Scugog	375	
	Clarington	650	
C003326	Ajax	75	101
	Pickering	0	
C002667	Oshawa	160	45
	Whitby	1,247	
TOTAL STOPS		2,761	191
Estimated Annual Cost Jul 1, 2024 – Dec 31, 2025		\$22,000 + \$3,000 (material processing)	
Estimated Annual Cost after Jan 1, 2025		\$225,000 + \$3,000 (material processing)	

- 5.2 The estimated cost to provide a dedicated municipal Blue Box recycling collection to the small businesses identified in this report post Blue Box transition is estimated at \$225,000 annually compared to the estimated \$22,000 for providing the same service as ancillary work in Circular Materials' Durham contracts during the transition period.
- 5.3 It is anticipated that any attempts to implement a dedicated recycling program for these small businesses on a full or partial cost recovery basis will result in a decrease in the number of businesses participating, which will further increase the costs allocated to the remaining businesses.

6. Relationship to Strategic Plan

- 6.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
- a. Goal 5.1 Optimize resources and partnerships to deliver exceptional quality services and value.

7. Conclusion

- 7.1 Upon careful consideration of the available options, of the Regional Municipality of Durham's ongoing financial constraints, and recognizing that providing waste collection services to businesses is not core to the Regional Municipality of Durham's waste management jurisdiction under Provincial legislation, Regional staff recommend that effective January 1, 2026, the Regional Municipality of Durham cease to provide Blue Box recycling services to the small businesses currently receiving municipal waste collection services.
- 7.2 Regional staff will continue advocating for the Province of Ontario to develop regulations and programs that will return Blue Box recycling programs to small businesses as they have done for the residential sector.
- 7.3 For additional information, contact: Andrew Evans, Director, Waste Management Services, at 905-668-7711, extension 4102.

8. Attachments

Attachment #1: Designated Business Areas by Municipality

Attachment #2: Small Business Locations Outside Designated Business Areas

Respectfully submitted,

Original signed by:

Ramesh Jagannathan, M.B.A, M.Eng., P.Eng., PTOE
Acting Commissioner of Works

Recommended for Presentation to Committee

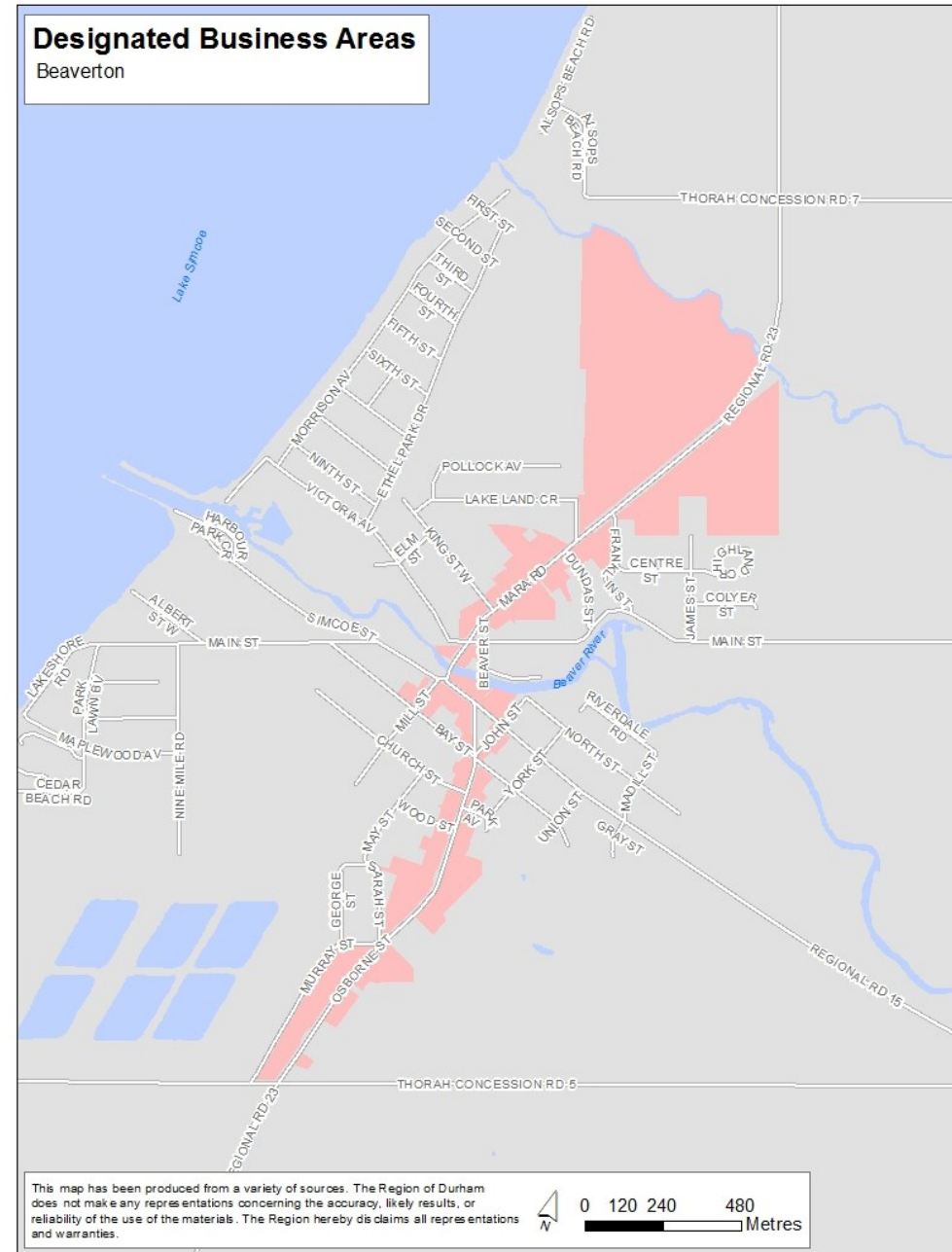
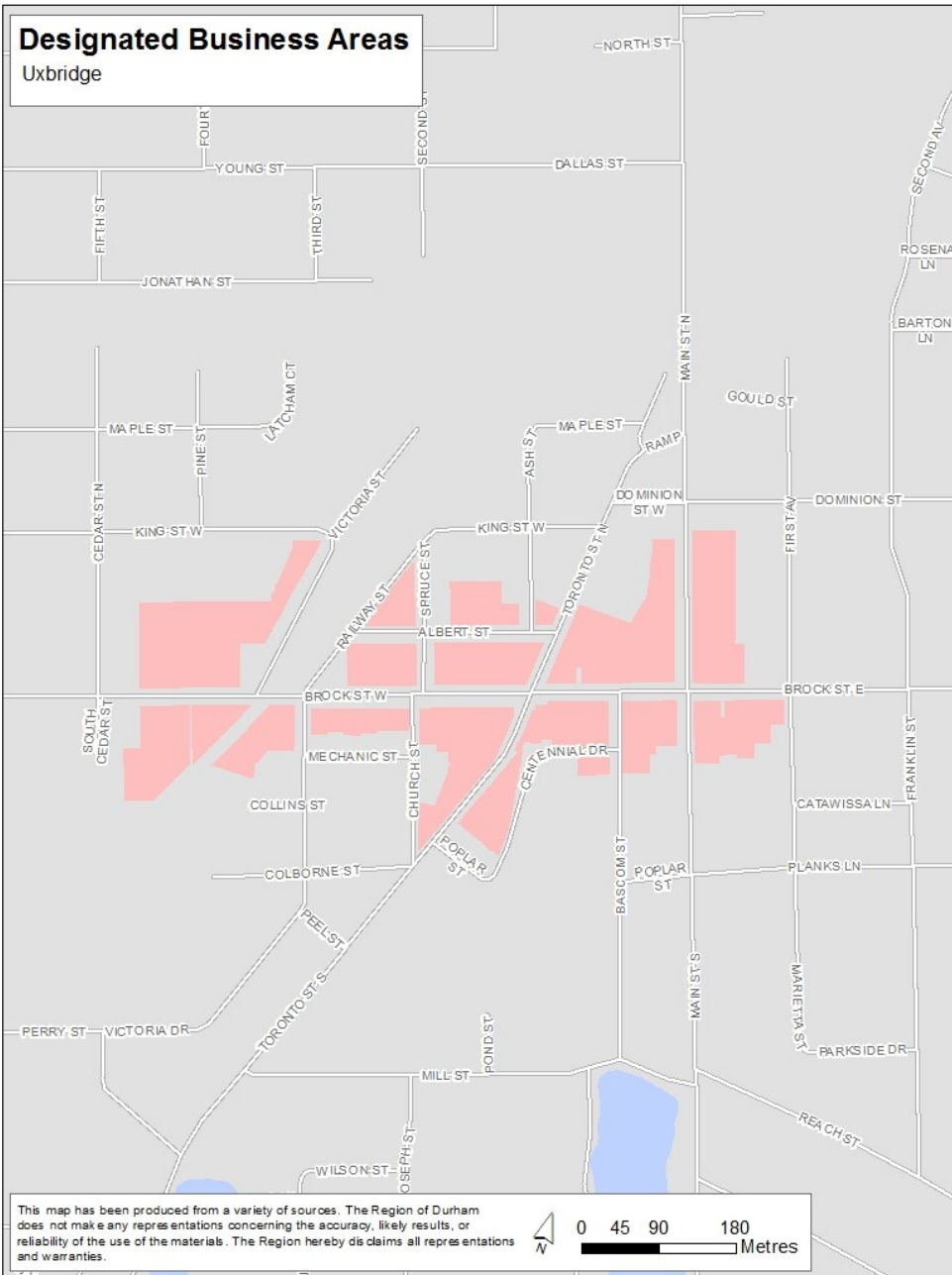
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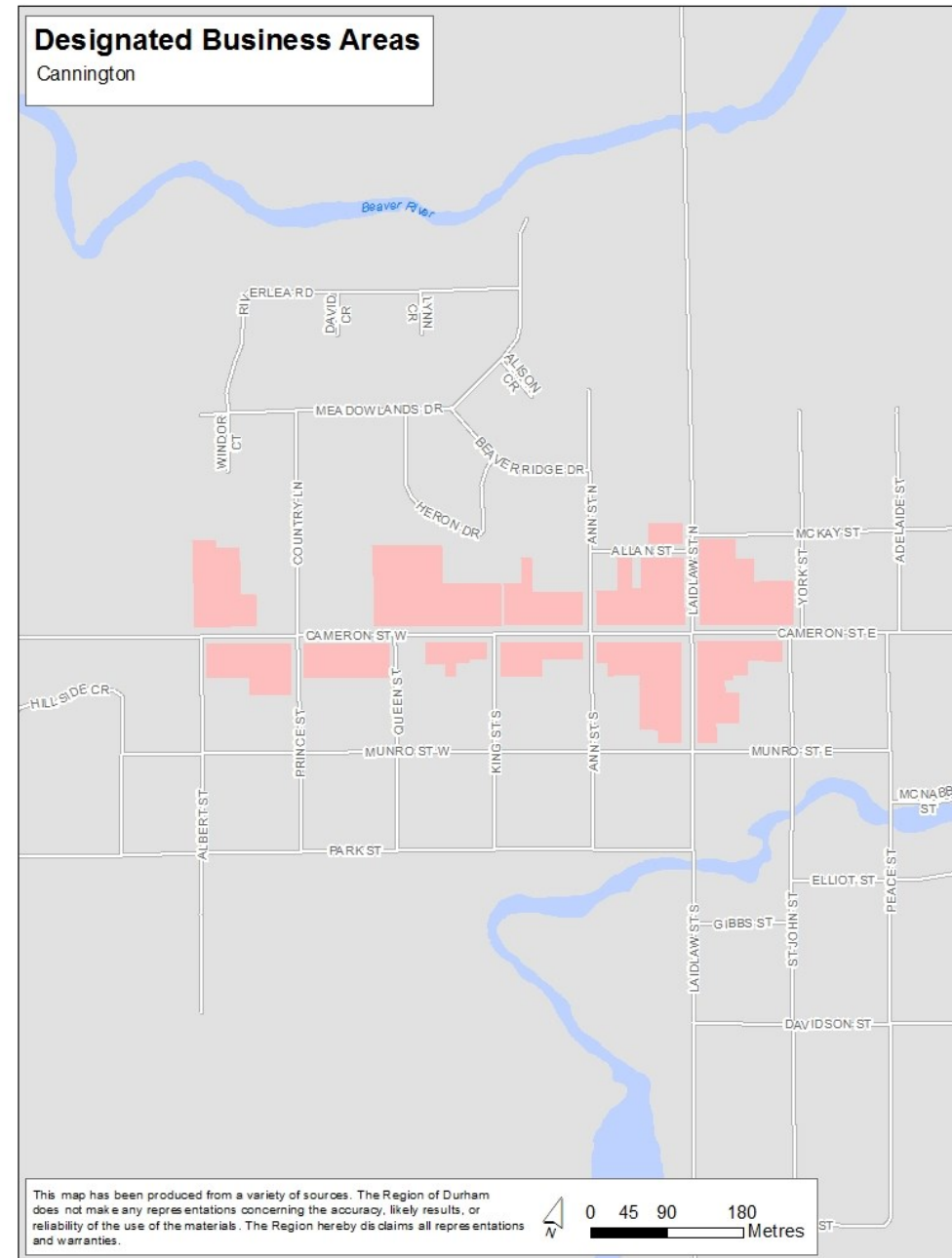
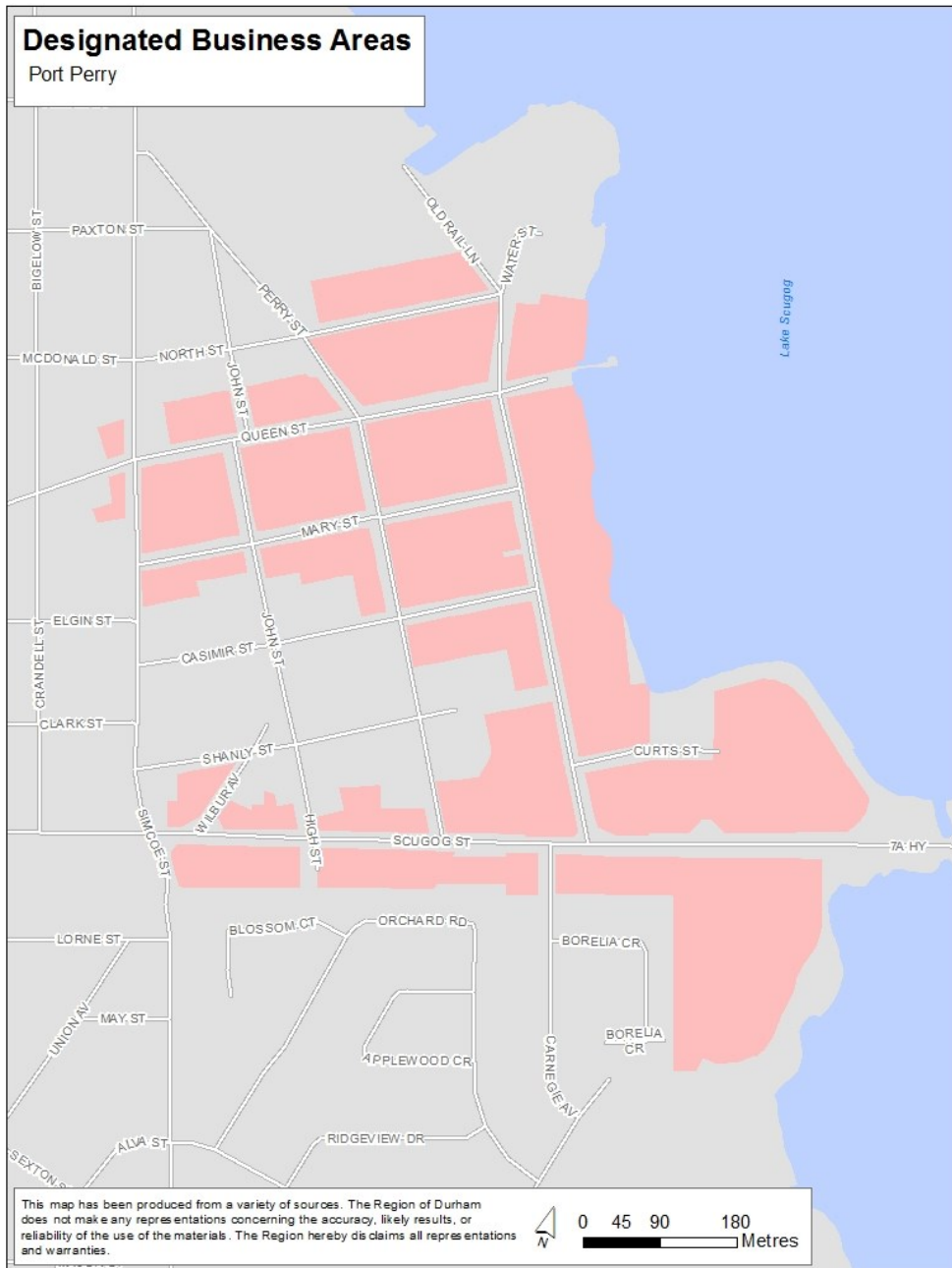
Elaine C. Baxter-Trahair
Chief Administrative Officer

Attachment # 1

Designated Business Areas

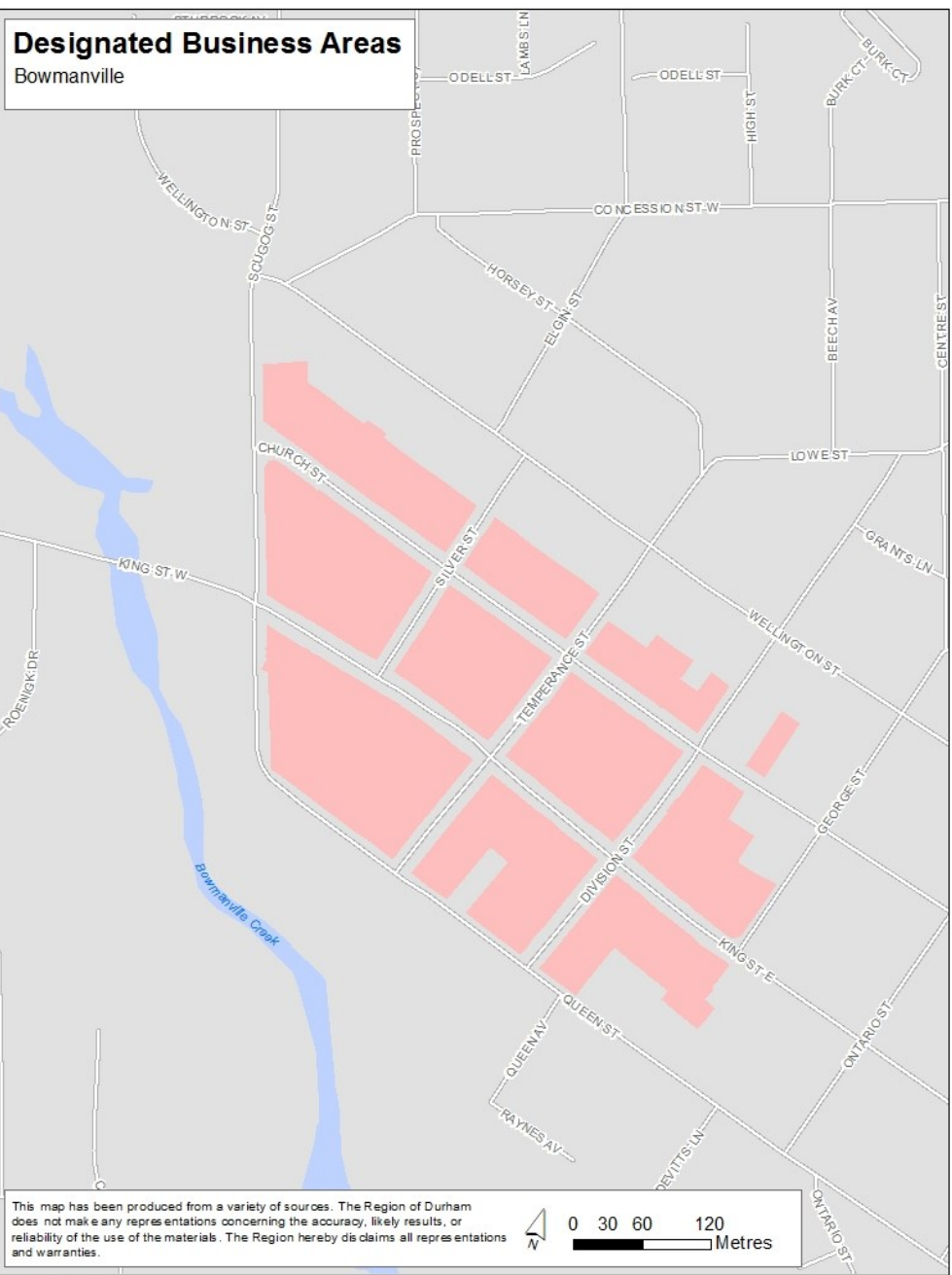
By Area Municipality





Designated Business Areas

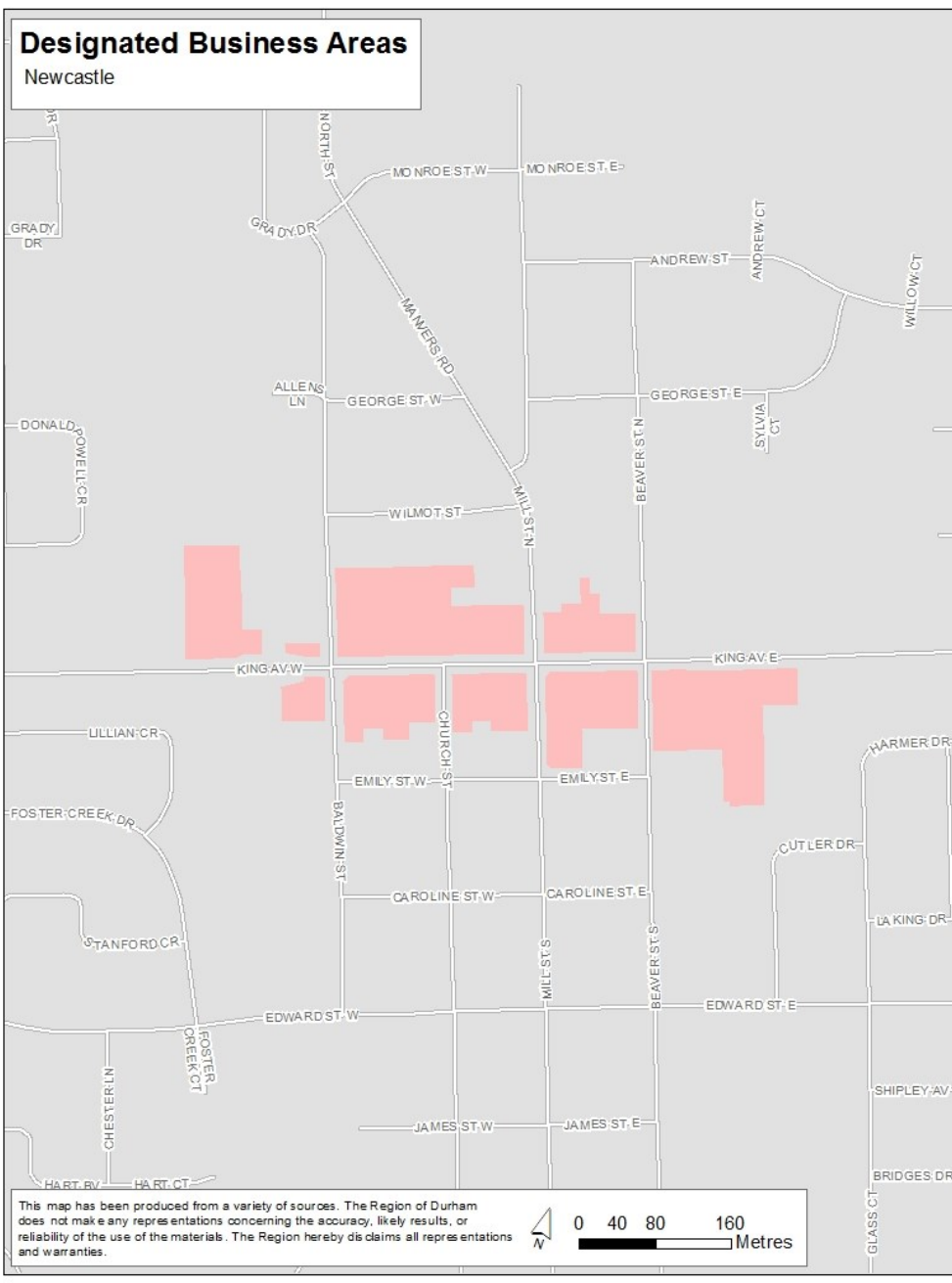
Bowmanville



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Designated Business Areas

Newcastle



This map has been produced from a variety of sources. The Region of Durham does not make any representations concerning the accuracy, likely results, or reliability of the use of the materials. The Region hereby disclaims all representations and warranties.



Designated Business District Ajax (Pickering Village)

ATTACHMENT 3

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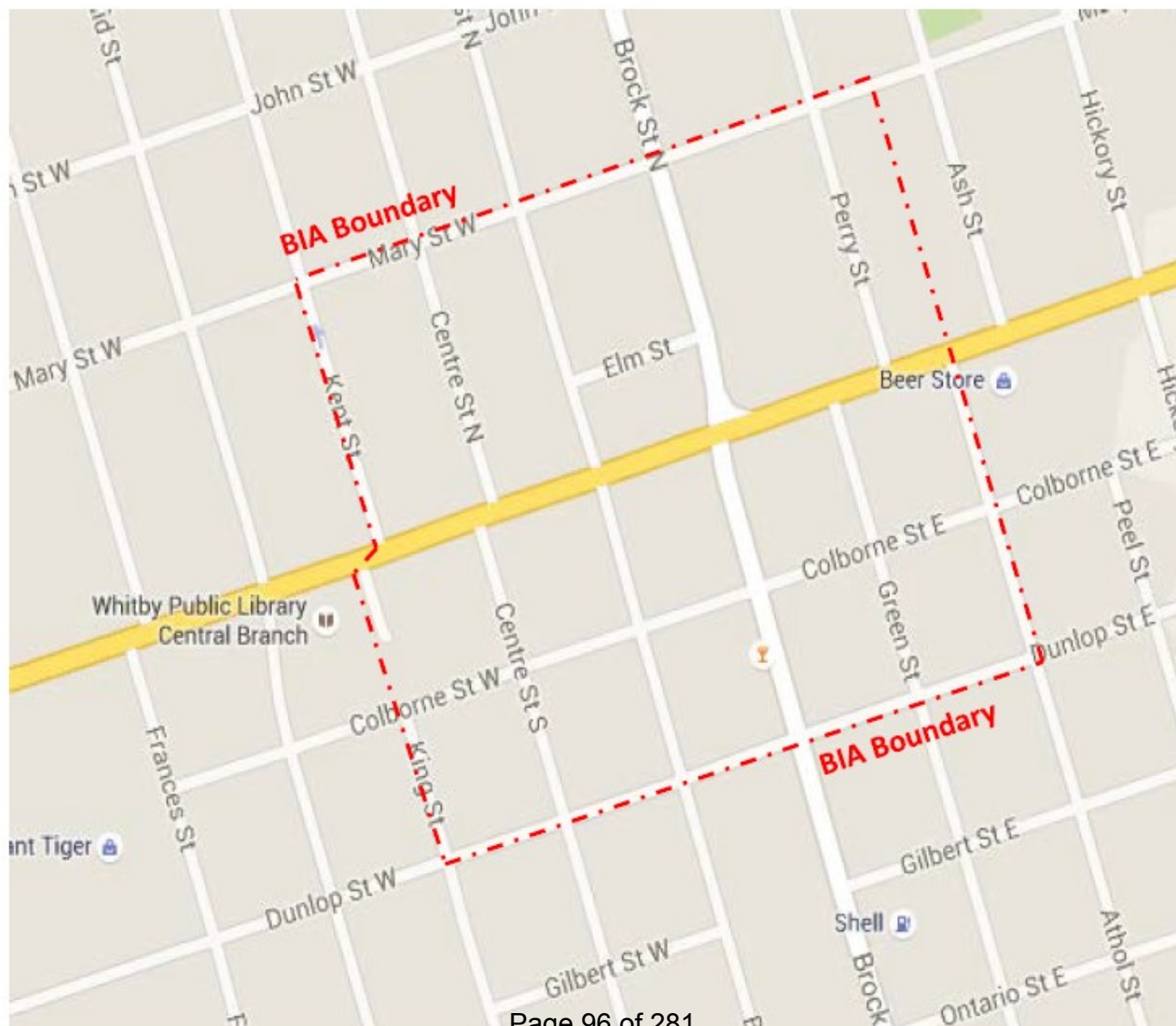
Designated Business District Ajax

ATTACHMENT 4

1:2,000

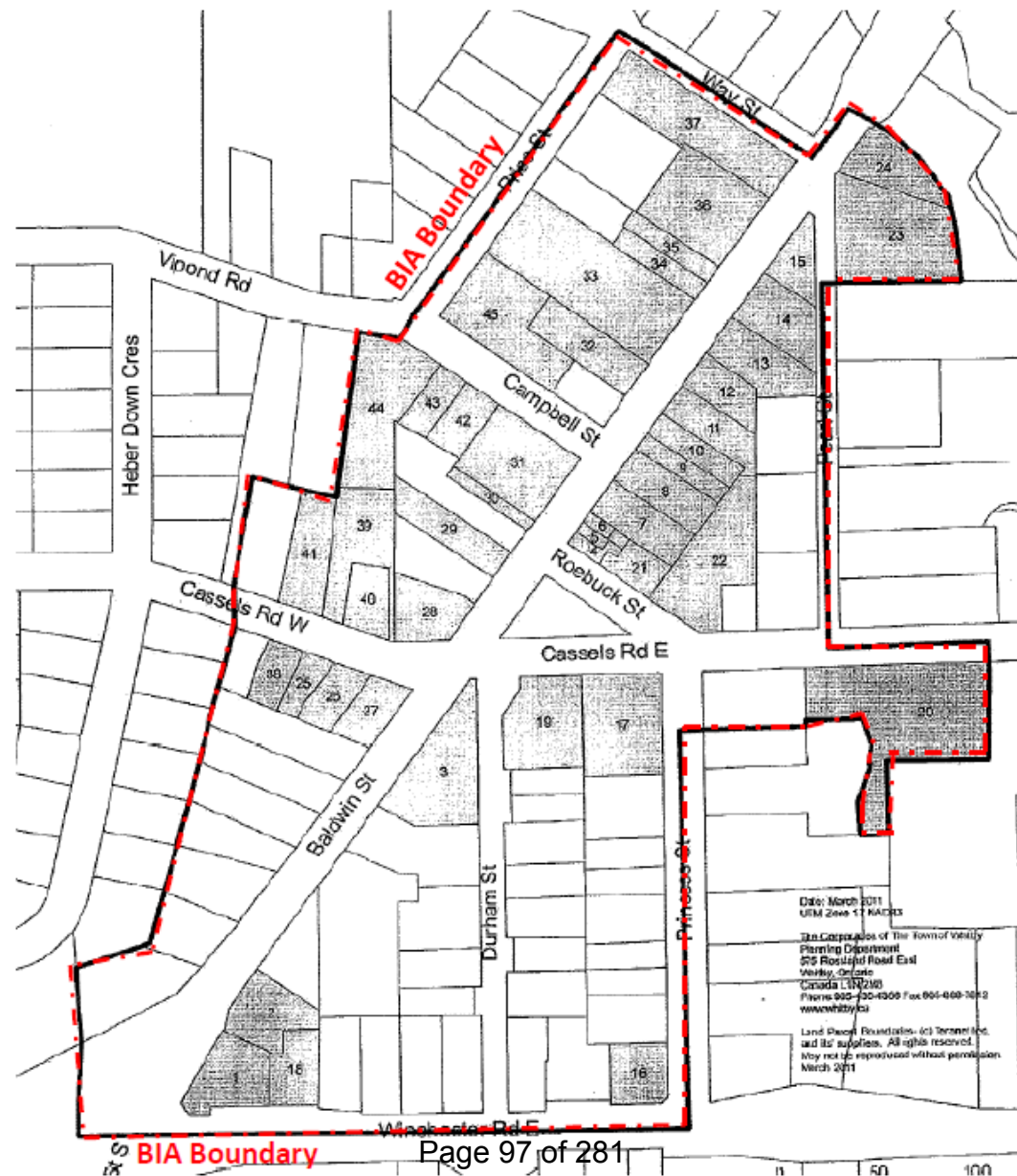
TOWN OF WHITBY BIA BOUNDRY

(Approximate # of Stops 1151)



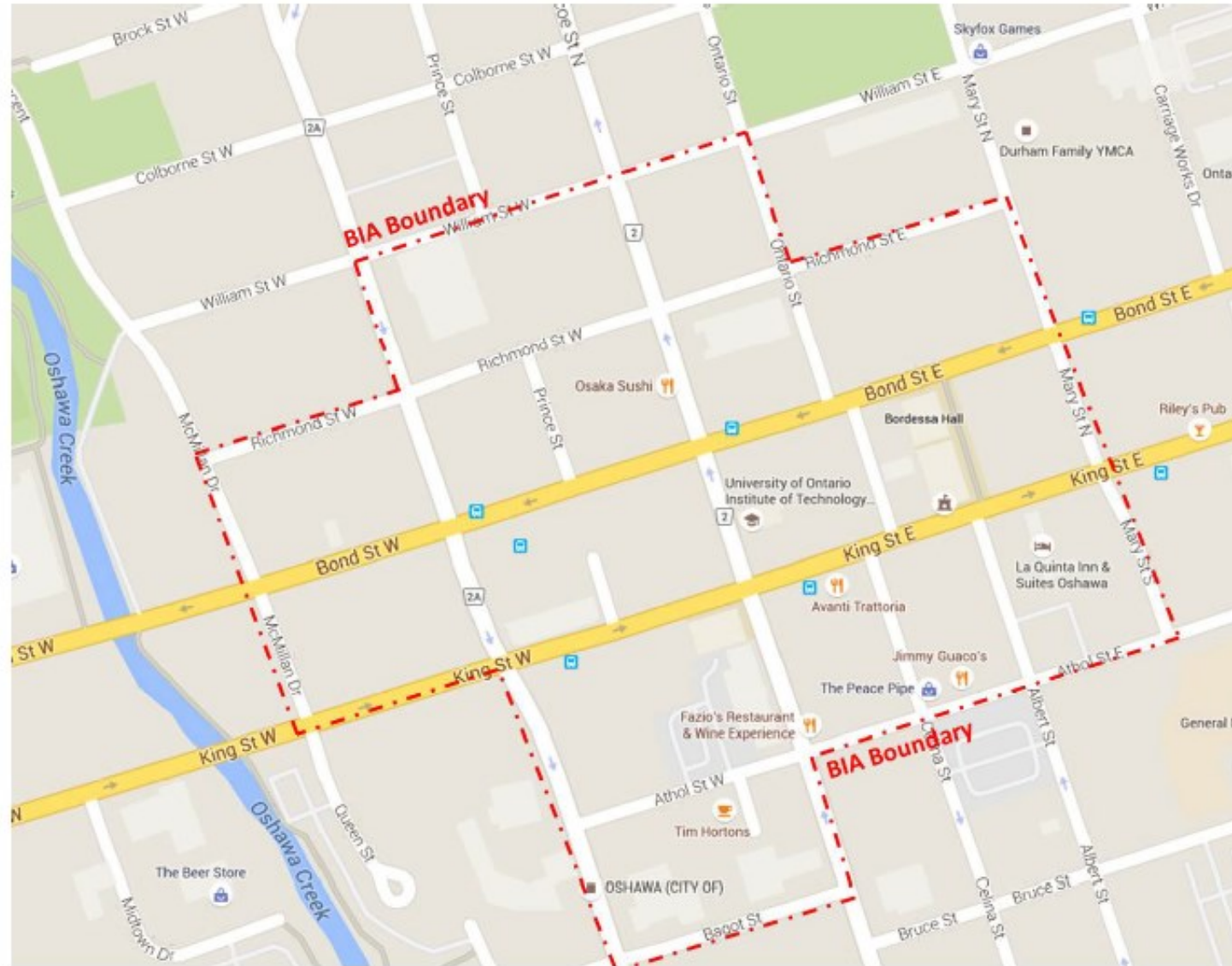
VILLAGE OF BROOKLIN BIA BOUNDARY

(Approximate No. of Stops 96)



CITY OF OSHAWA BIA BOUNDRY

(Approximate No. Stops 160)



Civic #	Road Name	Road Type	Direction	Town	Municipality	Property Description
41	Church	Street	South	Ajax	Ajax	Pet Hospital
23	Church	Street	South	Ajax	Ajax	School
15	Church	Street	South	Ajax	Ajax	School
13	Church	Street	South	Ajax	Ajax	Commercial Business
8	Lincoln	Street	South	Ajax	Ajax	Laundry Mat
55	Church	Street	South	Ajax	Ajax	Laundry Mat
837	Riverside	Drive	North	Ajax	Ajax	Golf Course
56	Angus	Drive		Ajax	Ajax	Church
300	Church	Street	North	Ajax	Ajax	Church
1030	Ravenscroft	Road	North	Ajax	Ajax	Church
1201	Ravenscroft	Road	North	Ajax	Ajax	Church
1001	Ravenscroft	Road	North	Ajax	Ajax	Church
475	Kingston	Road	East	Ajax	Ajax	Commercial Business
479	Kingston	Road	East	Ajax	Ajax	Commercial Business
527	Kingston	Road	East	Ajax	Ajax	Commercial Business
545	Kingston	Road	East	Ajax	Ajax	Commercial Business
555	Kingston	Road	East	Ajax	Ajax	Commercial Business
567	Kingston	Road	East	Ajax	Ajax	Commercial Business
33	Church	Street	South	Ajax	Ajax	Doctors Office
29	Harwood	Ave	South	Ajax	Ajax	Commercial Business
37	Harwood	Ave	South	Ajax	Ajax	Commercial Business
9	Doric	Street	East	Ajax	Ajax	Pet Hospital
599	Bayly	Street	East	Ajax	Ajax	Church
55	Emperor	Street	East	Ajax	Ajax	Church
97	Burcher	Road	East	Ajax	Ajax	Church
35	Church	Street	North	Ajax	Ajax	Church
77	Randle	Drive	South	Ajax	Ajax	Church
	Church	Street	North	Ajax	Ajax	Commercial Business
	Elizabeth	Street	North	Ajax	Ajax	Commercial Business
92	Orchard	Road	South	Ajax	Ajax	Commercial Business
92A	Orchard	Road	South	Ajax	Ajax	Commercial Business
100	Orchard	Road	South	Ajax	Ajax	Commercial Business
106	Orchard	Road	South	Ajax	Ajax	Commercial Business
134	Orchard	Road	South	Ajax	Ajax	Commercial Business
66	Church	Street	South	Ajax	Ajax	Commercial Business
68	Church	Street	South	Ajax	Ajax	Commercial Business
448	Kingston	Road	West	Ajax	Ajax	Commercial Business
504	Kingston	Road	West	Ajax	Ajax	Commercial Business
510	Kingston	Road	West	Ajax	Ajax	Commercial Business
516	Kingston	Road	West	Ajax	Ajax	Commercial Business
530	Kingston	Road	West	Ajax	Ajax	Commercial Business
556	Kingston	Road	West	Ajax	Ajax	Commercial Business
560	Kingston	Road	West	Ajax	Ajax	Commercial Business
586	Kingston	Road	West	Ajax	Ajax	Commercial Business
310	Kingston	Road	West	Ajax	Ajax	Pet Kennel

B23005	Lake Ridge	Road		Port Bolster	Brock	Commercial Business
360	Osborne	Street		Beaverton	Brock	Commercial Business
336	Osborne	Street		Beaverton	Brock	Auto Body
472	Osborne	Street		Beaverton	Brock	Commercial Business
2271	Hwy 2	Road		Bowmanville	Clarington	Wellness Clinic
1685	Bloor	Street		Courtice	Clarington	Church
1696	Bloor	Street		Courtice	Clarington	Flea Market
1731	Bloor	Street		Courtice	Clarington	Church
1669	Courtice	Road		Courtice	Clarington	Church
1518	Nash	Road		Courtice	Clarington	Church
4830	Trulls	Road		Mitchals Corners	Clarington	Church
1648	Taunton	Road		Mitchals Corners	Clarington	Commercial Business
1967	Taunton	Road		Hampton	Clarington	Food Trucks
1975	Taunton	Road		Hampton	Clarington	Commercial Business
2212	Taunton	Road		Hampton	Clarington	Commercial Business
5454	Old Scugog	Road		Hampton	Clarington	Church
5480	Old Scugog	Road		Hampton	Clarington	Commercial Business
7851	Old Scugog	Road		Hampton	Clarington	Commercial Business
2486	Concession 6	Road		Hayden	Clarington	Garage
6742	Newtonville	Road		Kendal	Clarington	School
732	King	Street E		Newcastle	Clarington	Commercial Business
4502	Hwy 2	Road		Newtonville	Clarington	Commercial Business
4532	Hwy 2	Road		Newtonville	Clarington	Heritage Building
713/721	Krosno	Boulevard	South	Pickering	Pickering	Commercial Business
776	Liverpool	Road	South	Pickering	Pickering	Commercial Business
927	Liverpool	Road	South	Pickering	Pickering	Dentist
925	Liverpool	Road	South	Pickering	Pickering	Commercial Business
1866	Liverpool	Road		Pickering	Pickering	Millennium City Veterinary Hospital
159	Twyn Rivers	Drive		Pickering	Pickering	Commercial Business
1880	Altona	Road		Pickering	Pickering	Altona Auto Services Inc.
1396	Kingston	Road		Pickering	Pickering	Sheridan Veterinary Services
1234	Kingston	Road		Pickering	Pickering	Commercial Business
1192	Kingston	Road		Pickering	Pickering	Commercial Business
1414	Rosebank	Road		Pickering	Pickering	Rosebank Animal Hospital
1	Evelyn	Avenue		Pickering	Pickering	Commercial Business
1995	Valley Farm	Road		Pickering	Pickering	Day Care & Nursery School
1999	Fairport	Road		Pickering	Pickering	Church
755	Oklahoma	Road		Pickering	Pickering	Church
796	Eyer	Drive		Pickering	Pickering	Church
1066	Dunbarton	Road		Pickering	Pickering	Daycare

1115	Finch	Avenue	Pickering	Pickering	Fire Station
2145	Brock	Road	Pickering	Pickering	Church
5067	Old Brock	Road	Claremont	Pickering	Daycare
4941	Old Brock	Road	Claremont	Pickering	Fire Station
5014	Old Brock	Road	claremont	Pickering	Claremont Pharmacy
5006	Old Brock	Road	Claremont	Pickering	Full-Service Maintenance
1703	Central	Street	Claremont	Pickering	Claremont General Store/Beer & LCBO
1716	Central	Street	Claremont	Pickering	Commercial Business
5077	Old Brock	Road	Claremont	Pickering	Commercial Business
1749	Hoxton	Street	Claremont	Pickering	Commercial Business
3280	Highway 7		Pickering	Pickering	Commercial Business
3325	Highway 7		Pickering	Pickering	Kennel
1884	Altona	Road	Pickering	Pickering	School
1688	Highway 7		Pickering	Pickering	City of Pickering Animal Services
1686	Highway 7		Pickering	Pickering	Commercial Business
1709	Highway 7		Pickering	Pickering	Commercial Business
3633	Broughham	Road	Pickering	Pickering	Commercial Business
931	Liverpool	Road	Pickering	Pickering	Commercial Business
933	Liverpool	Road	Pickering	Pickering	Commercial Business
1920	Bayly	Street	Pickering	Pickering	Church
553	Kingston	Road	Pickering	Pickering	Fire Station
2250	Concession 8		Pickering	Pickering	Commercial Business
2005	Concession 9		Pickering	Pickering	Veterinary Services
3000	Concession 8		Pickering	Pickering	Church
3735	Sideline 16		Pickering	Pickering	Commercial Business
3470	Salem	Road	Pickering	Pickering	Golf Course
1010	Toy	Avenue	Pickering	Pickering	Commercial Business
1016	Toy	Avenue	Pickering	Pickering	Commercial Business
1020	Toy	Avenue	Pickering	Pickering	Commercial Business
1035	Toy	Avenue	Pickering	Pickering	Commercial Business
1033	Toy	Avenue	Pickering	Pickering	Commercial Business
1031	Toy	Avenue	Pickering	Pickering	Commercial Business
1029	Toy	Avenue	Pickering	Pickering	Commercial Business
1600	Alliance	Avenue	Pickering	Pickering	Commercial Business
1730	McPherson	Court	Pickering	Pickering	Commercial Business
1016	Brock	Road	Pickering	Pickering	Commercial Business
340	Kingston	Road	Pickering	Pickering	Mechanic Shop & Gas Station
14020	old scugog	Road	Blackstock	Scugog	Commercial Business
14004	old scugog	Road	Blackstock	Scugog	Commercial Business
3741	ON-7A	highway	Nestleton Station	Scugog	Commercial Business
3990	ON-7A	highway	Nestleton Station	Scugog	Commercial Business
3991	Proutt	Road	Nestleton Station	Scugog	Church
5	Pier	Street	Cesarea	Scugog	Commercial Business
3550	RR 57	Road	Cesarea	Scugog	Fire Station
1595	ON-7A	highway	Port Perry	Scugog	Commercial Business

30	crandell	Street		Port Perry	Scugog	Fire Station
16121	Island	Road		Port Perry	Scugog	Commercial Business
19990	7 & 12	highway		Greenbank	Scugog	Commercial Business
19980	7 & 12	highway		Greenbank	Scugog	Commercial Business
3490	ON-7A	highway		Blackstock	Scugog	Commercial Business
3976	ON-7A	highway		Nestleton Station	Scugog	Auto Service
4299	ON-7A	highway		Nestleton Station	Scugog	Commercial Business
4697	concession road 3	road		Goodwood	Uxbridge	Commercial Business
182	main	Street	North	Uxbridge	Uxbridge	Gas Station
124	Main	street	North	Uxbridge	Uxbridge	Commercial Business
106	Main	Street	North	Uxbridge	Uxbridge	Commercial Business
102	main	Street	North	Uxbridge	Uxbridge	Pet Hospital
120	Toronto	Street	South	Uxbridge	Uxbridge	Dentist
159	Main	Street	North	Uxbridge	Uxbridge	Commercial Business
950	Taunton	Road	East	Whitby	Whitby	Animal Hospital
7	Cassels	Rd	West	Whitby	Whitby	Orthodontist
10	Cassels	Rd	West	Whitby	Whitby	Commercial Business
4	Cassels	Rd	West	Whitby	Whitby	Commercial Business
6745	Baldwin	St	North	Whitby	Whitby	Fire Station
300	Garrard	Rd	South	Whitby	Whitby	Church
221	Garrard	Rd	South	Whitby	Whitby	Church
113	Garrard	Rd	South	Whitby	Whitby	Dental Care
14	Garrard	Rd	North	Whitby	Whitby	Commercial Business
1850	Rossland	Rd	West	Whitby	Whitby	Church
1600	Manning	Rd	East	Whitby	Whitby	Fire Station
287	Dean	Avenue		Oshawa	Oshawa	Commercial Business
215	Toronto	Avenue		Oshawa	Oshawa	Commercial Business
464	Ritson	Road	South	Oshawa	Oshawa	Church
744	Simcoe	Street	South	Oshawa	Oshawa	Commercial Business
792	Simcoe	Street	South	Oshawa	Oshawa	Auto Service
804	Simcoe	Street	South	Oshawa	Oshawa	Commercial Business
808	Simcoe	Street	South	Oshawa	Oshawa	Commercial Business
1076	Cedar	Street	South	Oshawa	Oshawa	Strip Plaza
374, 368, 366	Wilson	Road	South	Oshawa	Oshawa	Strip Plaza
100	Nonquon	Road		Oshawa	Oshawa	Commercial Business
918	Taunton	Road	West	Oshawa	Oshawa	Commercial Business
370	Wilson Rd S	STREET	SOUTH	Oshawa	Oshawa	Strip Plaza
320	VIOLA	STREET		Oshawa	Oshawa	Commercial Business
1160	SIMCOE	STREET	SOUTH	Oshawa	Oshawa	Strip Plaza
40	WELLINGTON	STREET	EAST	Oshawa	Oshawa	Commercial Business
996	FAREWELL	STREET		Oshawa	Oshawa	Commercial Business
575	WENTWORTH	STREET	EAST	Oshawa	Oshawa	Commercial Business
242	BLOOR	Street	EAST	Oshawa	Oshawa	Strip Plaza

110	BLOOR	Street	EAST	Oshawa	Oshawa	Auto Body
168	BLOOR	Street	WEST	Oshawa	Oshawa	Commercial Business
634	PARK	ROAD	SOUTH	Oshawa	Oshawa	Commercial Business
274	BLOOR	Street	WEST	Oshawa	Oshawa	Commercial Business
631	MONTRAVE	AVENUE		Oshawa	Oshawa	Commercial Business
534	CUBERT	Street		Oshawa	Oshawa	Commercial Business
389	SDEAN	AVENUE		Oshawa	Oshawa	Commercial Business
95	CLARENCE BIESENTHAL	DRIVE		Oshawa	Oshawa	Commercial Business
333	RITSON	ROAD	SOUTH	Oshawa	Oshawa	Commercial Business
302	OSHAWA	BLVD	SOUTH	Oshawa	Oshawa	Commercial Business
690	KING	Street	EAST	Oshawa	Oshawa	Church
409	ADELAIDE	AVENUE	EAST	Oshawa	Oshawa	Church
328	RITSON	ROAD	North	Oshawa	Oshawa	Lumber Yard
166	ADELAIDE	AVENUE	EAST	Oshawa	Oshawa	Commercial Business
82	ADELAIDE	AVENUE	EAST	Oshawa	Oshawa	Commercial Business
293	MARY	Street	North	Oshawa	Oshawa	Commercial Business
152	PARK	ROAD	SOUTH	Oshawa	Oshawa	Commercial Business
684	HORTOP	Street		Oshawa	Oshawa	Commercial Business
902	SIMCOE	STREET	North	Oshawa	Oshawa	Strip Plaza
1450	RITSON	ROAD	North	Oshawa	Oshawa	Commercial Business
370	TAUNTON	ROAD	EAST	Oshawa	Oshawa	Commercial Business
25	Grenfell	Street		Oshawa	Oshawa	Auto Body
184	Park	Road		Oshawa	Oshawa	Commercial Business

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: Acting Commissioner of Works
Report: #2024-W-5
Date: March 6, 2024

Subject:

The Regional Municipality of Durham's Drinking Water Systems 2023 Summary Report

Recommendation:

That the Works Committee recommends to Regional Council:

- A) That the 2023 Summary Report for the Regional Municipality of Durham Drinking Water Systems be received for information;
 - B) That receipt of this report be confirmed by resolution of Regional Council; and
 - C) That a copy of this resolution be forwarded to the Ontario Ministry of the Environment, Conservation and Parks' York-Durham District Office to indicate that the conditions of Schedule 22 of Ontario Regulation 170/03 have been fulfilled.
-

Report:

1. Purpose

- 1.1 The Regional Municipality of Durham (Region) is required to prepare a Summary Report for each of the municipal drinking water systems under Ontario Regulation (O. Reg.) 170/03 of the Safe Drinking Water Act (SDWA). The Summary Report is to be completed and submitted to Regional Council prior to March 31 of each year.

2. Summary Report

2.1 Schedule 22 of O. Reg. 170/03 requires that a Summary Report include the following information:

22-2. (1) The owner of a drinking water system shall ensure that, not later than March 31 of each year after 2003, a report is prepared in accordance with subsections (2) and (3) for the preceding calendar year and is given to,

- (a) In the case of a drinking water system owned by a municipality, the members of the municipal council;
- (b) In the case of a drinking water system owned by a municipal service board established under section 195 of the *Municipal Act 2001*, the members of the municipal service board; or
- (c) In the case of a drinking water system owned by a corporation, the board of directors of the corporation.

22-2. (2) The report must:

- (a) List the requirements of the Act, the regulations, the system's approval, the drinking water works permit, the municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and
- (b) For each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

22-2. (3) The report must also include the following information to enable the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

- 1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
- 2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water license, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

22-2. (4) If a report is prepared under subsection (1) for a system that supplies water to a municipality under the terms of a contract, the owner of the system shall give a copy of the report to the municipality by March 31.

2.2 Table 1 below lists all the Drinking Water Systems (DWS) and their Municipal Drinking Water Licences issued from January 1, 2023, to December 31, 2023.

Table 1 – Municipal Drinking Water License Summary

Drinking Water System	Municipal Drinking Water License #	Issue Number	Issue Date
Oshawa *	003-111	7	September 23, 2020
Whitby *	003-111	7	September 23, 2020
Ajax *	003-111	7	September 23, 2020
Beaverton	003-107	4	November 15, 2019
Blackstock	003-101	4	November 15, 2019
Bowmanville	003-103	5	September 23, 2020
Cannington	003-106	4	November 15, 2019
Greenbank	003-104	4	November 15, 2019
Newcastle	003-109	7	September 23, 2020
Orono	003-108	5	November 15, 2019
Port Perry	003-102	4	November 15, 2019
Sunderland	003-110	4	November 15, 2019
Uxbridge	003-105	7	November 15, 2019

*Oshawa, Whitby and Ajax are licenced as one system but listed individually for this report.

- 2.3 Table 2 below provides a summary of compliance for each DWS with the prescribed conditions of Schedule 22 of O. Reg. 170/03.

Table 2 – Compliance Summary

Drinking Water System	Compliance Requirements	Water Taking Conditions
Oshawa *	Non-compliant	Did Not Exceed
Whitby *	Compliant	Did Not Exceed
Ajax *	Non-compliant	Did Not Exceed
Beaverton	Compliant	Did Not Exceed
Blackstock	Compliant	Did Not Exceed
Bowmanville	Compliant	Did Not Exceed
Cannington	Non-Compliant	Did Not Exceed
Greenbank	Compliant	Did Not Exceed
Newcastle	Non-Complaint	Did Not Exceed
Orono	Compliant	Did Not Exceed
Port Perry	Compliant	Did Not Exceed
Sunderland	Compliant	Did Not Exceed
Uxbridge	Compliant	Did Not Exceed

*Oshawa, Whitby, and Ajax are licenced as one system but listed individually for this report.

- 2.4 The DWS supplying water to the Uxbridge Industrial Park (Uxville) is not required to be covered by this report as it is regulated by the Ministry of Health under O. Reg. 319/08.

3. General Overview of Compliance Status

- 3.1 The Summary Report requires a review of each DWS with respect to the SDWA, Permit to Take Water (PTTW), Municipal Drinking Water Licence (MDWL), Drinking Water Works Permit (DWWP), Ministry of the Environment, Conservation and Parks (MECP) inspections and orders including an explanation of any non-compliance issues identified during the reporting period.
- 3.2 Water quality monitoring data is available on the [Region of Durham's website](http://www.durham.ca) at www.durham.ca.
- 3.3 A requirement of the Drinking Water Quality Management Standard (DWQMS) Element 20 is that the results of the annual management review meeting, the identified deficiencies, decisions, and action items are reported to the Owner. The annual DWQMS Management Review meeting was held on October 6, 2023. The staff identified in the Operational Plan as part of the top management team were in attendance. The meeting reviewed the agenda items listed in the DWQMS 2.0, Element 20. Three action items were identified during the meeting: to ensure better tracking of the Groundwater Summary Reports recommendations, review the requirements for diesel fuel tank inspections and ensure that customer complaints are appropriately tracked by all areas. One internal audit was completed on October 10, 2023. The results were satisfactory, with two non-conformances to the DWQMS and seven opportunities for improvement recommended for evaluation.
- 3.4 Durham Region is also required, as part of accreditation to the DWQMS, to have an external audit of the management system conducted by an approved registrar. The 2023 accreditation audit was completed on November 17, 2023. The audit found no non-conformances to the DWQMS and one opportunity for improvement, which is being addressed by the DWS staff (mandatory DWQMS audit meeting attendance).
- 3.5 The minutes of the management review meeting and the final audit reports for the internal and external audits are available from the Region.

4. Specific Compliance Items

- 4.1 A review indicated that all the DWS met the compliance requirements of O. Reg. 170/03 with the following exceptions:

(a) Municipal Drinking Water License No. 003-111, Schedule C, Condition 1.5, Table 3 – Residuals Management

Ajax DWS

- Discharge of chlorinated water to Lake Ontario exceeded the MDWL annual average limit of 0.02 mg/L.
 - July 6, 2023: Approximately 1,500 cubic metres of chlorinated diesel generator cooling water was discharged into Lake Ontario from the Ajax Water Supply Plant (WSP) outfall. The total chlorine residual measured at the time of the incident was 0.36 mg/L.
 - August 15, 2023: Approximately 1,500 cubic metres of chlorinated diesel generator cooling water was discharged into Lake Ontario from the Ajax WSP outfall. The free chlorine residual measured at the time of the incident was 0.27 mg/L.
- These incidents were caused by the cooling system for the backup diesel generators directing chlorinated effluent water to the outfall in Lake Ontario. The incidents were promptly reported to the MECP Spills Action Centre, the Plant Superintendent, the Compliance Manager and Fisheries Canada.

Remedial Action:

- The upcoming Ajax WSP expansion will redirect chlorinated diesel cooling water through a dechlorination process before being released into the environment. Until the design and construction are completed, dechlorination pucks are being placed in the discharge to neutralize the chlorine.

Oshawa DWS

- Discharge of chlorinated water to Lake Ontario exceeded the MDWL annual average limit of 0.02 mg/L.
 - October 3, 2023: Not more than 1,000 cubic metres of chlorinated, flocculated water was discharged into Lake Ontario from the Oshawa WSP storm drain. The free chlorine residual measured at the time of the incident was 1.8 mg/L.
 - The roof drainpipe at the Oshawa WSP runs through the flocculation conduit. The spill was caused by a separation in the roof drainpipe, resulting in flocculated water overflowing into the roof drain when the flocculation conduit was greater than 70

percent capacity. The flocculated water collected in the roof drain was directed to a storm sewer and discharged into the environment.

Remedial Action:

- On October 3, 2023, the discharge was paused, and de-chlorination pucks were placed in the discharge pipe to neutralize chlorinated water.
- The spill was operationally mitigated by ensuring the flocculation conduit flowed at 60 percent capacity or less until the pipe was repaired on October 16, 2023. The location of the roof drain is scheduled to be relocated and removed from the flocculation conduit at the end of 2025. Plant operations conduct weekly checks to monitor for leaks.

(b) Procedure for Disinfection of Drinking Water in Ontario

Cannington DWS

- Sampling in accordance with the Procedure for Disinfection of Drinking Water in Ontario and the American Water Works Association (AWWA) Standard for Disinfection of Water Treatment Plants (653) after inspection, repair or other activities.
 - On August 11, 2023, a remotely operated submersible inspection was conducted for a general condition assessment at the Cannington standpipe. Disinfection and sampling procedures were conducted in accordance with the Procedure for Disinfection of Drinking Water in Ontario and the AWWA Standard for Disinfection of Water Treatment Plants (C653).
 - Bacteriological samples were submitted to the York-Durham Regional Environmental lab on August 11, 2023, but were not analyzed within hold time due to a large number of samples to be tested and ongoing construction.

Remedial Action

- York-Durham Regional Environmental Lab completed a corrective action report to investigate, identify, and implement preventative measures.

Newtonville DWS

- Sampling in accordance with the Procedure for Disinfection of Drinking Water in Ontario and the AWWA Standard for Disinfection of Water Treatment Plants (653) after inspection, repair or other activities.
 - On August 11, 2023, a remotely operated submersible inspection was conducted for a general condition assessment at the Newtonville standpipe. Disinfection and sampling procedures were conducted in accordance with the Procedure for Disinfection of Drinking Water in Ontario and the AWWA Standard for Disinfection of Water Treatment Plants (C653).
 - Bacteriological samples were submitted to the York-Durham Regional Environmental lab on August 11, 2023, but were not analyzed within hold time due to an extreme sample load and ongoing construction.

Remedial Action

- York-Durham Regional Environmental Lab completed a corrective action report to investigate, identify, and implement preventative measures.

5. Summary of Water Quantity and Flow Rates

- 5.1 DWS Capacity and Water Flow Data are provided in Attachment #1 – Drinking Water System Capacity and Water Flow Data, as summary charts. Each summary chart provides the monthly average and maximum daily flow for the reporting period. Some of the flow data in Attachment #1 have been prorated, which is used to determine the volume of water pumped over a 24-hour period. Prorated data are indicated in the chart headings.

6. Public Notification and Information

- 6.1 The Summary Report is available on the [Region's website](#) at www.durham.ca.

7. Relationship to Strategic Plan

- 7.1 This report aligns with the following strategic goals and priorities in the Durham Region Strategic Plan:

- a. Goal 1 Environmental Sustainability - To protect the environment for the future by demonstrating leadership in sustainability and addressing climate change.
 - Protect, preserve and restore the natural environment, including green spaces, waterways, parks, trails and farmland.
- b. Goal 2 Community Vitality - To foster an exceptional quality of life with services that contribute to strong neighbourhoods, vibrant and diverse communities, and influence our safety and well-being.
 - Enhance community safety and well-being.
- c. Goal 5 Service Excellence - To provide exceptional value to Durham taxpayers through responsive, effective and fiscally sustainable service delivery.
 - Demonstrate commitment to continuous quality improvement and communicating results.

8. Conclusion

- 8.1 As required under Ontario Regulation 170/03, this Summary Report for the Regional Municipality of Durham's Drinking Water System is provided to Regional Council. It is recommended that receipt of this report be confirmed by resolution of Regional Council to meet this condition and that a copy of the resolution is forwarded to the Ministry of the Environment, Conservation and Parks.
- 8.2 For additional information, contact: Tavis Nimmo, Manager, Water Resource Monitoring & Protection Division, at 905-668-4113, extension 3737.

9. Attachment

Attachment #1: Drinking Water System Capacity and Water Flow Data

Respectfully submitted,

Original signed by:

Ramesh Jagannathan, MBA, M. Eng, P. Eng, PTOE
Acting Commissioner of Works

Recommended for Presentation to Committee

Original signed by:

Elaine C. Baxter-Trahair
Chief Administrative Officer

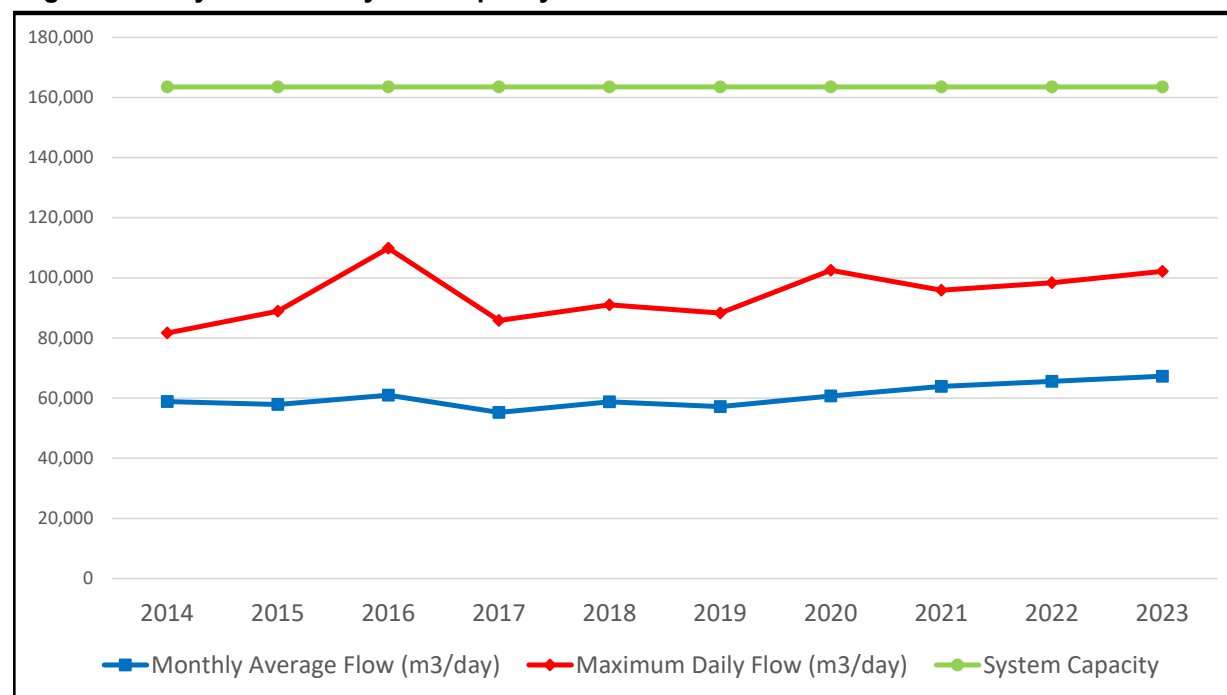
Month	Raw Water Monthly Average Flow Cubic metres per day (m ³ /day)	Raw Water Maximum Daily Flow (m ³ /day)	Total Raw Water Flow (m ³)	Treated Water Monthly Average Flow (m ³ /day)	Treated Water Maximum Daily Flow (m ³ /day)	Total Treated Water Flow (m ³)
January	65,679	76,380	2,036,057	63,920	75,082	1,981,525
February	65,375	74,547	1,830,511	63,657	73,708	1,782,388
March	67,931	78,922	2,105,859	66,017	78,063	2,046,535
April	68,342	78,584	2,050,245	65,632	75,613	1,968,947
May	79,185	100,296	2,454,732	76,408	96,118	2,368,645
June	71,877	104,650	2,156,296	68,761	102,148	2,062,818
July	73,486	84,442	2,278,054	70,049	81,818	2,171,515
August	70,622	79,584	2,189,273	67,773	75,651	2,100,955
September	72,939	82,605	2,188,179	69,811	80,448	2,094,343
October	66,312	80,128	2,055,661	64,236	76,273	1,991,313
November	67,753	80,691	2,032,603	65,941	78,133	1,978,241
December	66,840	77,136	2,072,041	65,388	76,979	2,027,022
Annual Total			25,449,511			24,574,247
Maximum		104,650			102,148	
Average	69,695			67,299		
% Capacity		62			62	
Permit to Take Water Limit		170,000				
Municipal Drinking Water Licence Limit					163,500	

**The Regional Municipality of Durham
Ajax Drinking Water System
2023 Flow Summary Report**

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)
2014	58,867	81,640	163,500
2015	57,883	88,945	163,500
2016	60,997	109,869	163,500
2017	55,247	85,808	163,500
2018	58,808	91,039	163,500
2019	57,175	88,253	163,500
2020	60,682	102,507	163,500
2021	63,940	95,933	163,500
2022	65,615	98,337	163,500
2023	67,299	102,148	163,500

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Beaverton Drinking Water System
2023 Flow Summary Report

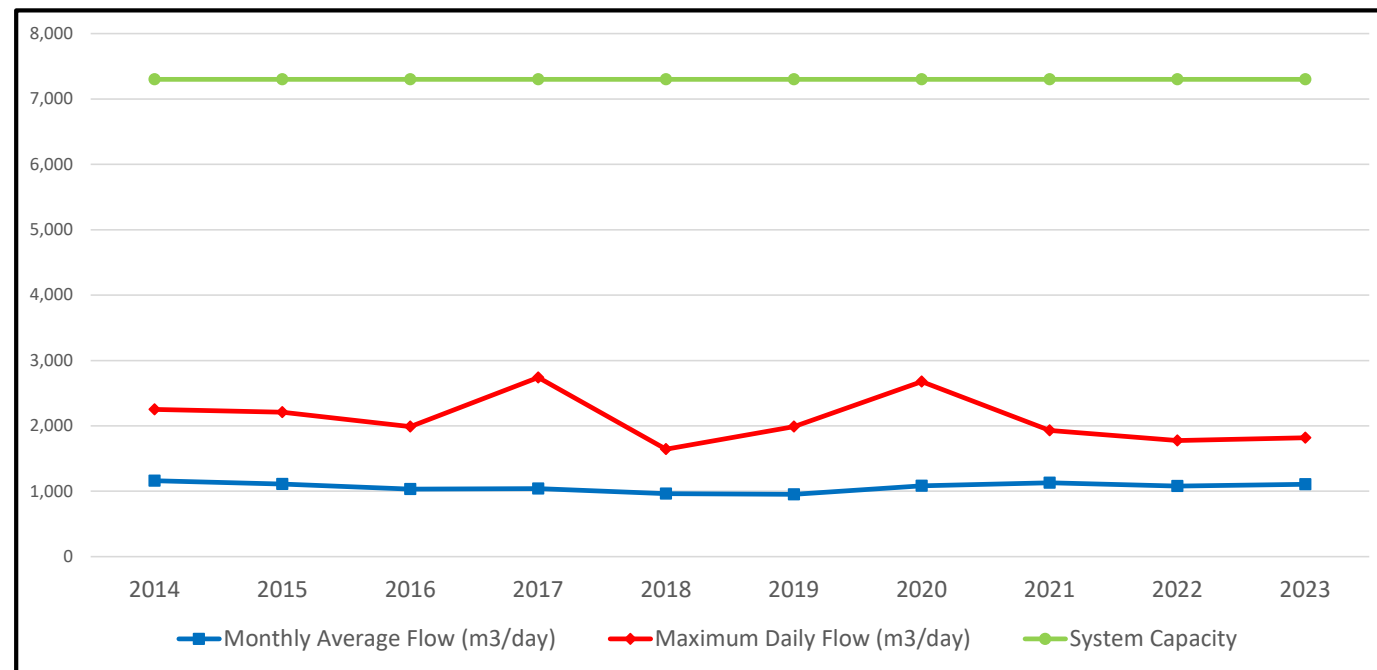
Month	Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-Rated	Raw Water Maximum Daily Flow (m ³ /day) Pro- Rated	Total Raw Water Flow (m ³)	Treated Water Monthly Average Flow (m ³ /day) Pro-Rated	Treated Water Maximum Daily Flow (m ³ /day) Pro- Rated	Total Treated Water Flow (m ³)
January	1,124	1,556	35,135	1,025	1,273	31,854
February	1,088	1,298	30,477	1,002	1,168	28,047
March	1,059	1,244	32,866	962	1,088	29,739
April	1,105	1,696	33,179	976	1,085	29,286
May	1,264	1,711	39,333	1,144	1,606	35,515
June	1,480	1,880	44,421	1,345	1,665	40,245
July	1,535	1,989	47,735	1,392	1,818	43,186
August	1,406	1,821	43,635	1,272	1,530	39,388
September	1,370	2,307	41,671	1,200	1,503	36,249
October	1,166	1,520	35,992	1,029	1,210	31,714
November	1,043	1,461	31,344	952	1,146	28,617
December	1,054	1,296	33,009	989	1,145	30,925
Annual Total			448,797			404,765
Maximum		2,307			1,818	
Average	1,224			1,107		
% Capacity		32			25	
Permit to Take Water Limit		7,300				
Municipal Drinking Water Licence Limit					7,300	

The Regional Municipality of Durham
Beaverton Drinking Water System
2023 Flow Summary Report

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)
2014	1,161	2,251	7,300
2015	1,112	2,208	7,300
2016	1,034	1,989	7,300
2017	1,039	2,740	7,300
2018	964	1,643	7,300
2019	953	1,990	7,300
2020	1,082	2,679	7,300
2021	1,131	1,929	7,300
2022	1,079	1,777	7,300
2023	1,107	1,818	7,300

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Blackstock Drinking Water System
2023 Flow Summary Report

Month	Well # 7* Raw Water Maximum Taken per Minute (litres)	Well # 7* Raw Water Monthly Average Flow cubic metres per day (m ³ /day) Pro-rated	Well # 7* Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 7* Total Raw Water Flow (m ³)	Well # 8 Raw Water Maximum Taken per Minute (litres)	Well # 8 Raw Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 8 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 8 Total Raw Water Flow (m ³)
January	0	0	0	0	636	144	220	4,385
February	0	0	0	0	720	134	190	3,719
March	0	0	0	0	660	120	196	3,670
April	0	0	0	0	666	101	148	2,975
May	0	0	0	0	594	127	187	3,934
June	0	0	0	0	588	117	187	3,486
July	0	0	0	0	594	103	148	3,161
August	0	0	0	0	564	114	172	3,515
September	0	0	0	0	570	122	226	3,584
October	0	0	0	0	564	127	187	3,939
November	0	0	0	0	576	129	169	3,852
December	0	0	0	0	582	107	151	3,280
Annual Total				0				43,500
Maximum	0		0		720**		226	
Average		0				120		
% Capacity					105		23	
Permit to Take Water Limit	684		985		684		985	

*Well 7 not in service.

**Instantaneous surge in flow rate upon system startup; PTTW Section 3.3 indicates that this flow exceedance of less than a minute duration is acceptable.

The Regional Municipality of Durham
Blackstock Drinking Water System
2023 Flow Summary Report

Month	Treated Water Monthly Average Flow cubic metres per day (m ³ /day)	Treated Water Maximum Daily Flow (m ³ /day)	Total Treated Water Flow (m ³)
January	128	146	3,958
February	120	152	3,372
March	120	133	3,708
April	100	127	2,988
May	126	170	3,907
June	115	151	3,458
July	101	173	3,129
August	113	145	3,498
September	118	149	3,549
October	128	154	3,983
November	128	201	3,834
December	106	138	3,293
Annual Total			42,677
Maximum		201	
Average	117		
% Capacity		20	
Municipal Drinking Water Licence Limit		994	

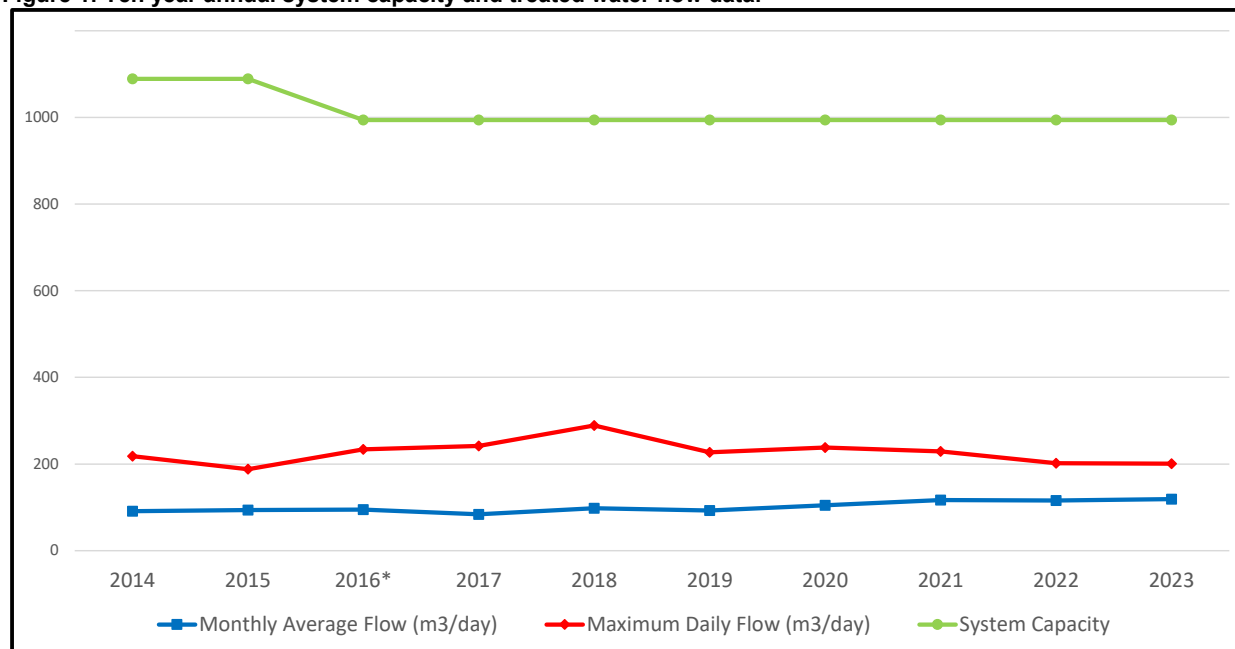
The Regional Municipality of Durham
Blackstock Drinking Water System
2023 Flow Summary Report

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)
2014	91	218	1,089
2015	94	188	1,089
2016*	95	234	994
2017	84	242	994
2018	98	289	994
2019	93	227	994
2020	105	238	994
2021	117	229	994
2022	116	202	994
2023	119	201	994

* Well 7 taken out of service.

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Bowmanville Drinking Water System
2023 Flow Summary Report

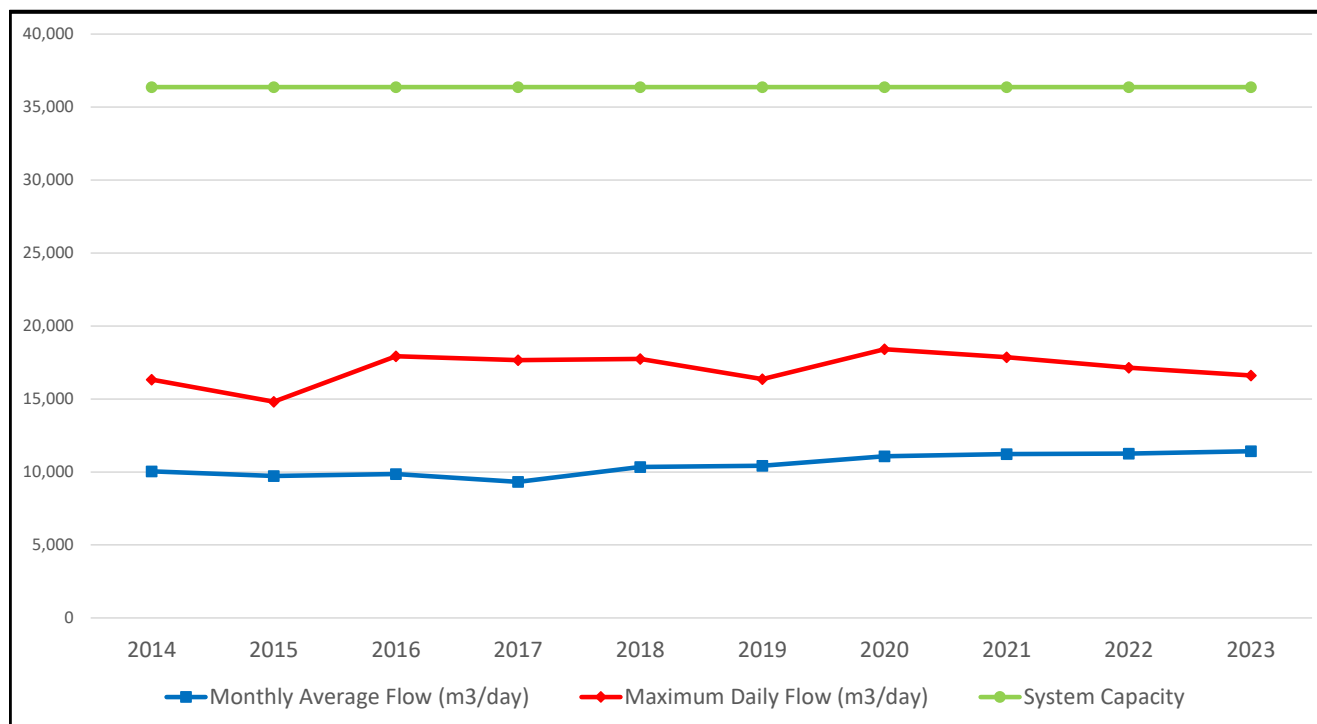
Month	Raw Water Monthly Average Flow Cubic metres per day (m ³ /day)	Raw Water Maximum Daily Flow (m ³ /day)	Total Raw Water Flow (m ³)	Treated Water Monthly Average Flow (m ³ /day)	Treated Water Maximum Daily Flow (m ³ /day)	Total Treated Water Flow (m ³)
January	11,278	12,777	349,605	10,656	12,814	330,333
February	11,077	12,513	310,155	10,482	12,106	293,491
March	11,043	12,433	342,322	10,437	11,970	323,541
April	11,051	12,430	331,515	10,424	12,138	312,715
May	12,876	17,485	399,160	12,297	12,297	381,210
June	13,824	17,361	414,705	13,369	16,613	401,055
July	12,758	14,490	369,990	12,323	14,079	357,355
August	12,769	14,490	395,850	12,335	12,335	382,392
September	12,883	15,895	386,500	12,435	15,175	373,051
October	11,681	13,477	362,104	11,217	13,408	347,735
November	11,160	16,903	334,789	10,485	14,567	314,564
December	11,239	13,784	348,401	10,589	12,350	328,272
Annual Total			4,345,096			4,145,714
Maximum		17,485			16,613	
Average	11,970			11,421		
% Capacity		37			46	
Permit to Take Water Limit		47,700				
Municipal Drinking Water Licence Limit					36,368	

**The Regional Municipality of Durham
Bowmanville Drinking Water System
2023 Flow Summary Report**

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)
2014	10,051	16,333	36,368
2015	9,722	14,815	36,368
2016	9,858	17,935	36,368
2017	9,321	17,659	36,368
2018	10,340	17,750	36,368
2019	10,423	16,354	36,368
2020	11,079	18,409	36,368
2021	11,227	17,867	36,368
2022	11,258	17,140	36,368
2023	11,421	16,613	36,368

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Cannington Drinking Water System
2023 Flow Summary Report

Month	Well # 2 Raw Water Maximum Taken per Minute (litres)	Well # 2 Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-Rated	Well # 2 Raw Water Maximum Daily Flow (m ³ /day) Pro- rated	Well # 2 Total Raw Water Flow (m ³)	Well # 2 Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 2 Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 2 Total Treated Water Flow (m ³)
January	80	48	54	1,488	48	54	1,488
February	80	54	60	1,513	54	60	1,513
March	80	57	65	1,778	57	65	1,778
April	80	69	78	2,070	69	78	2,070
May	80	83	94	2,578	83	94	2,578
June	80	56	73	1,655	56	73	1,655
July	80	46	86	1,434	46	86	1,434
August	70	40	54	1,247	40	54	1,247
September	80	45	53	1,346	45	53	1,346
October	80	64	74	1,971	64	74	1,971
November	80	68	80	2,058	68	80	2,058
December	80	73	82	2,255	73	82	2,255
Annual Total				21,393			21,393
Maximum	80		94			94	
Average		58			58		
% Capacity	95		78			18	
Permit to Take Water Limit	84		121				
Municipal Drinking Water Limit*						510	

Note: Treated water volumes calculated by subtracting waste from raw water volumes.

*Limit is combined for Wells 2 & 7.

The Regional Municipality of Durham
Cannington Drinking Water System
2023 Flow Summary Report

Month	Well # 7 Raw Water Maximum Taken per Minute (litres)	Well # 7 Raw Water Monthly Average Flow Cubic metres per day (m ³ /day)	Well # 7 Raw Water Maximum Daily Flow (m ³ /day) Pro- rated	Well # 7 Total Raw Water Flow (m ³)	Well # 7 Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 7 Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 7 Total Treated Water Flow (m ³)
January	260	158	181	4,915	158	181	4,915
February	260	177	199	4,957	177	199	4,957
March	260	190	218	5,916	190	218	5,916
April	260	225	255	6,748	225	255	6,748
May	260	273	308	8,495	273	308	8,495
June	260	199	249	5,929	199	249	5,929
July	260	169	311	5,266	169	311	5,266
August	260	154	205	4,793	154	205	4,793
September	260	161	188	4,835	161	188	4,835
October	265	216	249	6,695	216	249	6,695
November	260	233	274	7,029	233	274	7,029
December	260	247	280	7,695	247	280	7,695
Annual Total				73,273			73,273
Maximum	265		311			311	
Average		200			200		
% Capacity	98		80			61	
Permit to Take Water Limit	270		389				
Municipal Drinking Water Licence Limit*						510	

Note: Treated water volumes calculated by subtracting waste from raw water volumes.

*Limit is combined for Wells 2 & 7.

The Regional Municipality of Durham
Cannington Drinking Water System
2023 Flow Summary Report

Month	Well # 2 and 7 Treated Water Monthly Average Flow Cubic metres per day (m ³ /day)	Well # 2 and 7 Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 2 and 7 Total Treated Water Flow (m ³)
January	206	235	6,402
February	231	259	6,470
March	247	284	7,694
April	294	333	8,818
May	356	402	11,073
June	254	322	7,584
July	215	397	6,700
August	194	260	6,040
September	206	238	6,181
October	280	323	8,666
November	302	354	9,087
December	320	362	9,950
Maximum		402	
Average	259		
% Capacity*		79	
Municipal Drinking Water Licence Limit*		510	

Note: Treated water volumes calculated by subtracting waste from raw water volumes.

*Limit is combined for Wells 2 & 7.

The Regional Municipality of Durham
Cannington Drinking Water System
2023 Flow Summary Report

Month	Well # 3 Raw Water Maximum Taken per Minute (litres)	Well # 3 Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Well # 3 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 3 Total Raw Water Flow (m ³)	Well # 3 Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 3 Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 3 Total Treated Water Flow (m ³)
January	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0
March	180	7	7	8	0	0	0
April	180	132	158	2,516	132	158	2,514
May	180	159	184	4,928	159	184	4,928
June	180	130	161	3,874	130	161	3,874
July	160	103	128	3,182	103	128	3,182
August	160	95	125	2,870	95	125	2,870
September	170	101	113	3,031	101	113	3,031
October	170	132	158	4,096	132	158	4,096
November	160	145	172	4,369	145	172	4,369
December	160	153	174	4,768	153	174	4,768
Annual Total				33,642			33,632
Maximum	180		184			184	
Average		96			96		
% Capacity	100		71			71	
Permit to Take Water Limit	180		259				
Municipal Drinking Water License Limit						259	

Note: Treated water volumes calculated by subtracting waste from raw water volumes.

The Regional Municipality of Durham
Cannington Drinking Water System
2023 Flow Summary Report

Month	Well # 4 Raw Water Maximum Taken per Minute (litres)	Well # 4 Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Well # 4 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 4 Total Raw Water Flow (m ³)	Well # 4 Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 4 Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 4 Total Treated Water Flow (m ³)
January	180	109	122	3,379	109	122	3,379
February	190	127	136	3,542	127	136	3,542
March	190	133	155	4,143	133	155	4,143
April	190	157	189	4,706	157	189	4,706
May	180	172	185	5,335	172	185	5,335
June	170	126	153	3,754	126	153	3,754
July	170	101	120	3,124	101	120	3,124
August	170	95	123	2,960	95	123	2,960
September	170	93	105	2,784	93	105	2,784
October	170	122	148	3,777	122	148	3,777
November	160	132	162	3,993	132	162	3,993
December	160	146	162	4,531	146	162	4,531
Annual Total				46,028			46,028
Maximum	190		189			189	
Average		126			126		
% Capacity	99		68			68	
Permit to Take Water Limit	192		277				
Municipal Drinking Water License Limit						276	

Note: Treated water volumes calculated by subtracting waste from raw water volumes.

The Regional Municipality of Durham
Cannington Drinking Water System
2023 Flow Summary Report

Month	Well # 8 Raw Water Maximum Taken per Minute (litres)	Well # 8 Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Well # 8 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 8 Total Raw Water Flow (m ³)	Well # 8 Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 8 Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 8 Total Treated Water Flow (m ³)
January	330	183	209	5,666	183	209	5,666
February	330	148	174	4,139	148	174	4,139
March	250	158	184	4,911	158	184	4,911
April	250	138	175	2,057	138	175	2,057
May	300	94	253	829	94	253	829
June	270	185	233	5,516	185	233	5,516
July	290	141	174	4,377	141	174	4,377
August	300	148	197	4,620	148	197	4,620
September	300	135	173	4,042	135	173	4,042
October	250	64	144	709	78	144	705
November	240	31	91	422	0	0	0
December	260	68	98	1,042	0	0	0
Annual Total				38,330			36,862
Maximum	330		253			253	
Average		124			117		
% Capacity	58		31			31	
Permit to Take Water Limit	568		818				
Municipal Drinking Water License Limit						818	

Note: Treated water volumes calculated by subtracting waste from raw water volumes.

The Regional Municipality of Durham
Cannington Drinking Water System
2023 Flow Summary Report

Month	Total System Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Total System Raw Water Maximum Daily Flow (m ³ /day)	Total Raw Water Flow (m ³)	Total System Treated Water Monthly Average Flow (m ³ /day)	Total System Treated Water Maximum Daily Flow (m ³ /day)	Total System Total Treated Water Flow (m ³)
January	498	559	15,447	498	559	15,447
February	506	538	14,151	506	538	14,151
March	538	623	16,756	537	623	16,748
April	604	684	18,098	604	684	18,096
May	714	954	22,164	714	954	22,164
June	695	854	20,728	695	854	20,728
July	559	697	17,383	559	697	17,383
August	530	663	16,490	530	663	16,490
September	535	615	16,038	535	615	16,038
October	556	635	17,248	556	635	17,244
November	592	687	17,871	579	687	17,449
December	649	771	20,291	619	690	19,249
Annual Total			212,665			211,187
Maximum		954			954	
Average	581			578		
% Capacity		35			51	
Permit to Take Water Limit*		2,693				
Municipal Drinking Water License Limit					1,863	

*The Permit to Take Water Limit includes Municipal Wells 9 and 10, which are currently not in service.

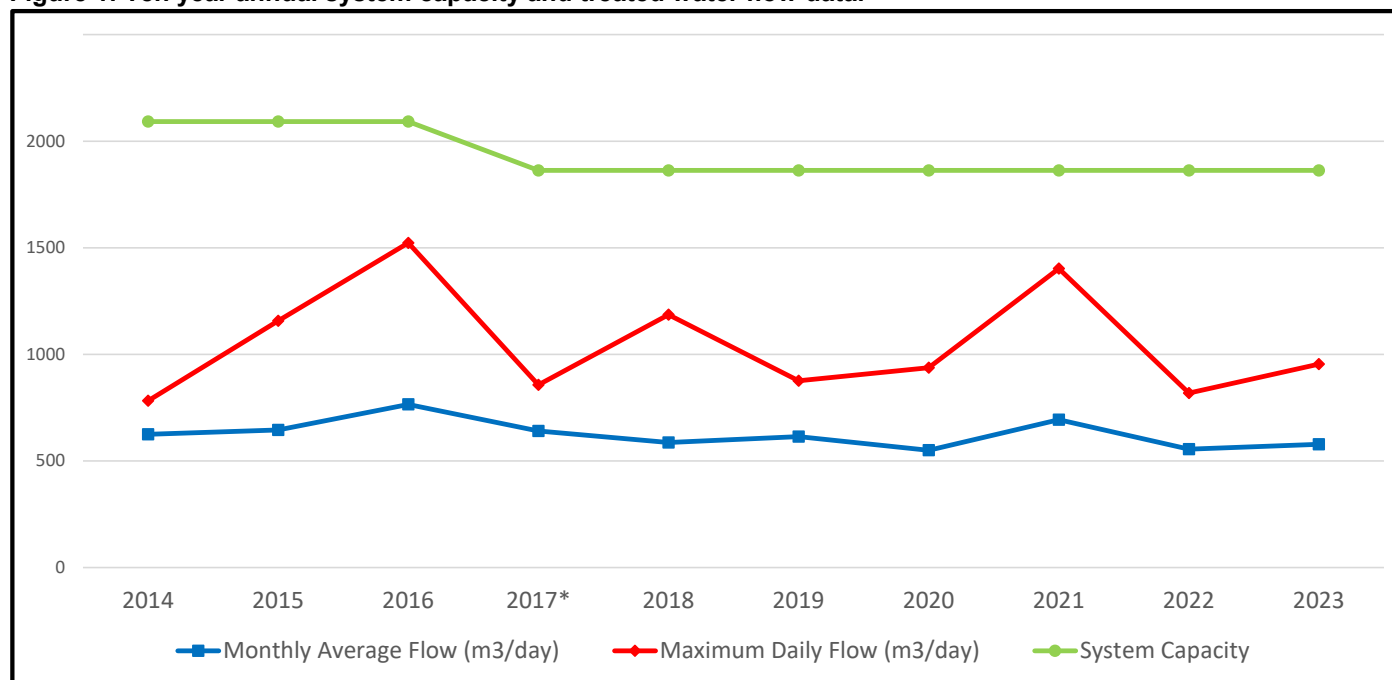
The Regional Municipality of Durham
Cannington Drinking Water System
2023 Flow Summary Report

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)
2014	625	782	2,092
2015	645	1157	2,092
2016	765	1,523	2,092
2017*	641	857	1,863
2018	586	1186	1,863
2019	614	876	1,863
2020	550	938	1,863
2021	693	1402	1,863
2022	555	818	1,863
2023	578	954	1,863

*Capacity changed due to decommissioning of Well 6.

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Greenbank Drinking Water System
2023 Flow Summary Report

Month	Well # 1 Raw Water Maximum Taken per Minute (litres)	Well # 1 Raw Water Monthly Average Flow cubic metres per (day m ³ /day) Pro-rated	Well # 1 Raw Water Maximum Daily Flow (m ³ /day) Pro- rated	Well # 1 Total Raw Water Flow (m ³)	Well # 3 Raw Water Maximum Taken per Minute (litres)	Well # 3 Raw Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 3 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 3 Total Raw Water Flow (m ³)
January	60	19	26	592	80	23	31	700
February	60	18	26	511	80	22	29	614
March	60	17	26	533	80	21	30	635
April	60	19	24	550	80	22	28	643
May	60	20	30	634	75	24	34	740
June	60	24	49	710	75	28	58	849
July	60	20	28	615	75	25	34	767
August	60	16	25	507	73	23	34	712
September	60	20	28	587	73	25	36	747
October	60	18	23	559	73	22	31	681
November	60	17	23	484	73	21	31	619
December	60	18	28	504	73	23	31	704
Annual Total				6,787				8,410
Maximum	60		49		80		58	
Average		19				23		
% Capacity	86		48		88		44	
Permit to take water limit	70		101		91		130	

The Regional Municipality of Durham
Greenbank Drinking Water System
2023 Flow Summary Report

Month	Well # 4 Raw Water Maximum Taken per Minute (litres)	Well # 4 Raw Water Monthly Average Flow cubic metres per day (m ³ /day) Pro-rated	Well # 4 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 4 Total Raw Water Flow (m ³)	Well # 5 Raw Water Maximum Taken per Minute (litres)	Well # 5 Raw Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 5 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 5 Total Raw Water Flow (m ³)
January	63	18	24	552	55	13	19	401
February	65	17	23	489	55	14	21	388
March	65	16	24	508	55	14	20	437
April	65	18	23	517	55	16	20	448
May	65	20	28	628	55	18	26	554
June	65	23	47	687	60	21	43	643
July	65	20	27	628	67	19	26	574
August	63	18	27	565	65	18	26	572
September	63	19	25	560	60	20	29	589
October	63	18	23	543	68	16	23	497
November	63	17	25	492	55	16	22	462
December	62	19	25	561	61	18	25	541
Annual Total				6,729				6,107
Maximum	65		47		68		43	
Average		19				17		
% Capacity	96		48		100		44	
Permit to take water limit	68		99		68		99	

The Regional Municipality of Durham
Greenbank Drinking Water System
2023 Flow Summary Report

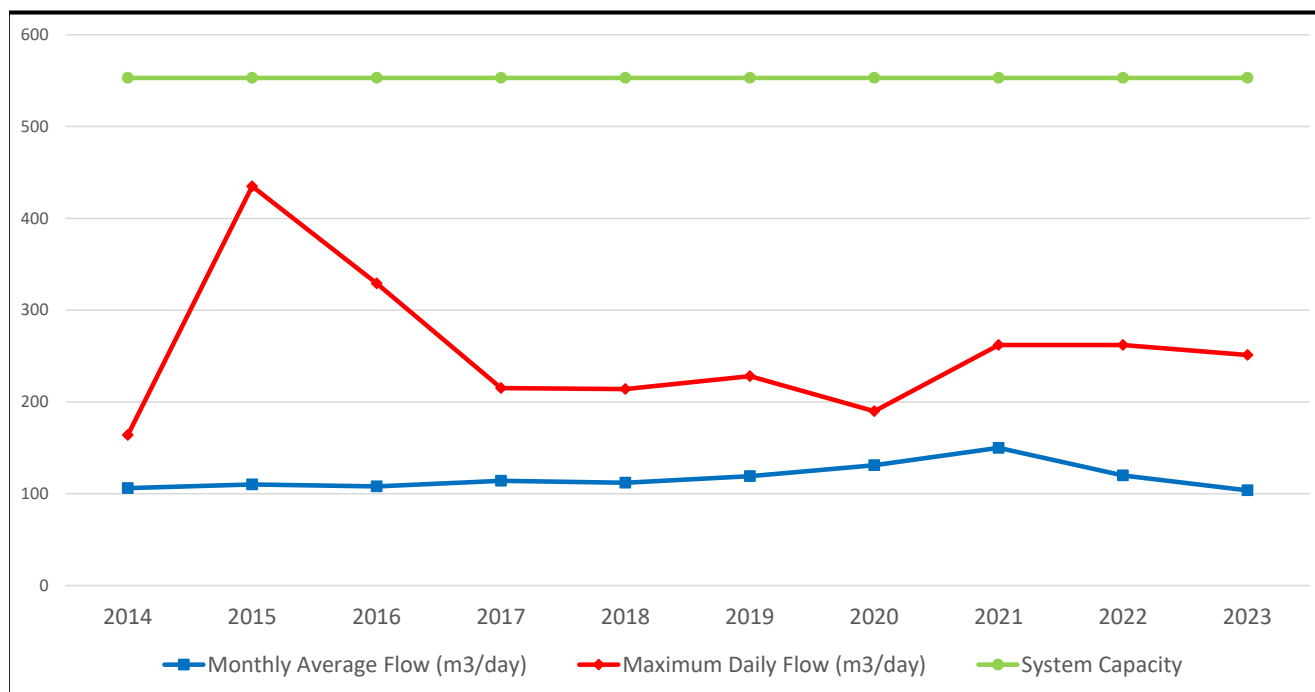
Month	Well # 6 Raw Water Maximum Taken per Minute (litres)	Well # 6 Raw Water Monthly Average Flow cubic metres per day (m ³ /day) Pro-rated	Well # 6 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 6 Total Raw Water Flow (m ³)	Treated Water Monthly Average Flow cubic metres per day (m ³ /day) Pro- rated	Treated Water Maximum Daily Flow (m ³ /day) Pro- rated	Total Treated Water Flow (m ³)
January	82	24	32	735	98	132	2,981
February	85	24	33	668	96	131	2,670
March	85	23	34	702	91	135	2,815
April	85	23	30	696	95	124	2,853
May	85	29	40	883	111	157	3,438
June	85	31	54	933	128	251	3,822
July	89	29	40	911	113	152	3,494
August	90	27	40	849	103	151	3,204
September	85	30	44	899	113	141	3,382
October	90	27	36	821	100	135	3,102
November	85	26	38	762	94	137	2,819
December	86	29	42	881	102	143	3,191
Annual Total				9,739			37,771
Maximum	90		54			251	
Average		27			104		
% Capacity	99		42			45	
Permit to take water limit	91		130			NR	
Municipal Drinking Water License Limit						553	

The Regional Municipality of Durham
Greenbank Drinking Water System
2023 Flow Summary Report

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)
2014	106	164	553
2015	110	435	553
2016	108	329	553
2017	114	215	553
2018	112	214	553
2019	119	228	553
2020	131	190	553
2021	150	262	553
2022	120	262	553
2023	104	251	553

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Newcastle Drinking Water System
2023 Flow Summary Report

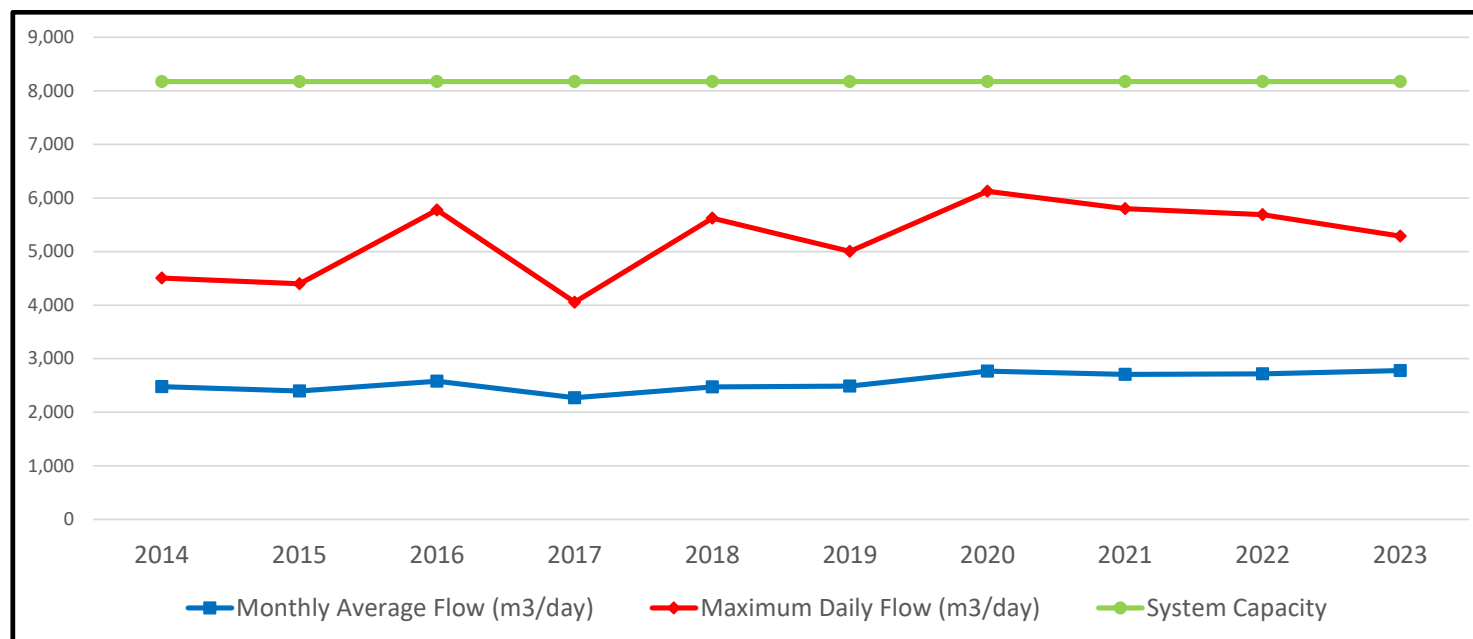
Month	Raw Water Monthly Average Flow Cubic metres per day (m ³ /day)	Raw Water Maximum Daily Flow (m ³ /day)	Total Raw Water Flow (m ³)	Treated Water Monthly Average Flow (m ³ /day)	Treated Water Maximum Daily Flow (m ³ /day)	Total Treated Water Flow (m ³)
January	2,491	3,313	77,221	2,362	3,161	73,208
February	2,464	3,224	68,989	2,334	3,103	65,355
March	2,427	3,199	75,238	2,300	3,077	71,293
April	2,567	3,503	77,000	2,429	3,276	72,873
May	3,132	4,913	97,094	2,954	4,670	91,563
June	3,466	4,666	103,970	3,268	4,396	98,026
July	3,546	4,727	109,938	3,359	4,299	104,132
August	3,373	4,298	104,573	3,176	4,019	98,443
September	3,575	5,513	107,237	3,384	5,290	101,509
October	2,896	4,464	89,785	2,704	4,263	83,825
November	2,746	4,070	82,388	2,550	3,736	76,503
December	2,742	3,857	85,002	2,531	3,602	78,452
Annual Total			1,078,435			1,015,182
Maximum		5,513			5,290	
Average	2,952			2,779		
% Capacity		30			65	
Permit to Take Water Limit		18,100				
Municipal Drinking Water Licence Limit					8,173	

The Regional Municipality of Durham
Newcastle Drinking Water System
2023 Flow Summary Report

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)
2014	2,480	4,504	8,173
2015	2,398	4,398	8,173
2016	2,579	5,777	8,173
2017	2,272	4,056	8,173
2018	2,476	5,623	8,173
2019	2,489	5,004	8,173
2020	2,767	6,125	8,173
2021	2,707	5,802	8,173
2022	2,716	5,690	8,173
2023	2,779	5,290	8,173

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Orono Drinking Water System
2023 Flow Summary Report

Month	Well # 3 Raw Water Maximum Taken per Minute (litres)	Well # 3 Raw Water Monthly Average Flow cubic metres per day (m ³ /day) Pro-rated	Well # 3 Raw Water Maximum Daily Flow (m ³ /day) Pro- rated	Well # 3 Total Raw Water Flow (m ³)	Well # 4 Raw Water Maximum Taken per Minute (litres)	Well # 4 Raw Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 4 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 4 Total Raw Water Flow (m ³)
January	756	262	312	6,222	720	254	298	1,801
February	762	308	385	6,398	714	178	356	2,173
March	762	328	508	6,850	690	309	387	3,400
April	768	281	414	6,389	696	160	319	1,943
May	762	278	549	6,862	702	103	464	2,469
June	768	346	544	7,886	672	137	430	3,271
July	756	371	514	8,479	660	372	509	3,393
August	744	327	425	7,115	660	366	436	3,307
September	744	328	454	7,429	648	267	339	1,897
October	744	272	399	6,459	648	247	312	2,035
November	738	230	290	4,543	654	231	277	2,348
December	738	247	335	6,098	666	216	276	1,535
Annual Total				80,730				29,572
Maximum	768		549		720		509	
Average		298				237		
% Capacity	84		63		79		58	
Permit to Take Water Limit	909		872		909		872	

*Well cannot be run for more than sixteen hours per day as indicated in the Permit to Take Water.

The Regional Municipality of Durham
Orono Drinking Water System
2023 Flow Summary Report

Month	Well # 5* Raw Water Monthly Average Flow cubic metres per day (m ³ /day) Pro-rated	Well # 5* Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 5* Total Raw Water Flow (m ³)	System Total Treated Water Monthly Average Flow (m ³ /day) Pro-rated	System Total Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	System Total Treated Water Flow (m ³)
January	0	0	0	255	312	7,860
February	0	0	0	303	386	8,429
March	0	0	0	326	508	10,047
April	0	0	0	266	414	8,164
May	0	0	0	296	637	9,191
June	0	0	0	358	549	10,993
July	0	0	0	379	514	11,712
August	0	0	0	333	425	10,242
September	0	0	0	308	454	9,146
October	0	0	0	270	399	8,334
November	0	0	0	218	290	6,711
December	0	0	0	243	335	7,454
Annual Total						108,283
Maximum					637	
Average				296		
% Capacity					73 / 37	
Permit to Take Water Limit	909	872				
Municipal Drinking Water Licence Limit***					873 / 1,745	

*Well not in service.

**Treated water volumes calculated by subtracting waste from raw water volumes.

***The rated capacity can be increased to 1,745 m³/day for up to 90 days per calendar year.

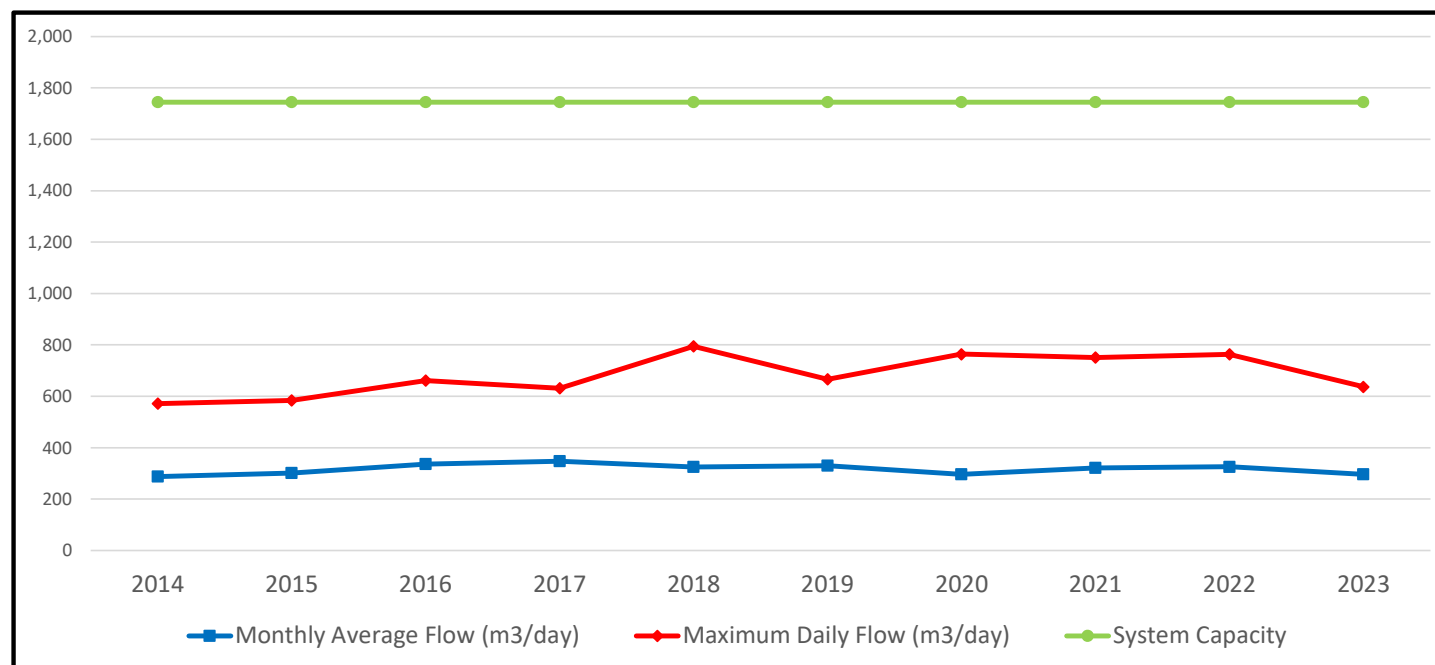
**The Regional Municipality of Durham
Orono Drinking Water System
2023 Flow Summary Report**

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)*
2014	288	572	1,745
2015	301	584	1,745
2016	336	661	1,745
2017	348	631	1,745
2018	325	794	1,745
2019	330	666	1,745
2020	296	764	1,745
2021	321	751	1,745
2022	326	764	1,745
2023	296	637	1,745

*The rated capacity can be increased to 1,745 m³/day not exceeding 90 days per calendar year.

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Oshawa Drinking Water System
2023 Flow Summary Report

Month	West Intake Raw Water Monthly Average Flow Cubic metres per day (m ³ /day)	West Intake Raw Water Maximum Daily Flow (m ³ /day)	West Intake Total Raw Water Flow (m ³)	East Intake Raw Water Monthly Average Flow (m ³ /day)	East Intake Raw Water Maximum Daily Flow (m ³ /day)	East Intake Total Raw Water Flow (m ³)
January	12,398	14,212	384,346	42,966	47,984	1,331,941
February	12,810	15,571	358,671	46,132	57,017	1,291,689
March	11,688	15,124	362,341	42,771	55,192	1,325,898
April	10,983	14,840	329,480	40,870	55,324	1,226,110
May	14,202	17,431	440,260	52,782	69,371	1,636,236
June	15,901	20,400	477,026	56,814	74,800	1,704,420
July	15,584	17,999	483,109	50,567	56,813	1,567,570
August	15,182	17,519	470,637	49,516	53,697	1,534,999
September	15,284	17,339	458,530	51,557	58,055	1,546,713
October	13,129	16,169	407,002	46,747	54,168	1,449,157
November	11,109	12,881	333,261	40,375	49,152	1,211,260
December	11,194	12,149	347,006	41,004	46,642	1,271,122
Annual Total			4,851,670			17,097,115
Maximum		20,400			74,800	
Average	13,289			46,842		
% Capacity		46			83	
Permit to Take Water Limit		44,000			90,000	

The Regional Municipality of Durham
Oshawa Drinking Water System
2023 Flow Summary Report

Month	Total Raw Water Monthly Average Flow Cubic metres per day (m ³ /day)	Total Raw Water Maximum Daily Flow (m ³ /day)	Total Raw Water Flow (m ³)	Total Treated Water Monthly Average Flow (m ³ /day)	Total Treated Water Maximum Daily Flow (m ³ /day)	Total Treated Water Flow (m ³)
January	55,364	62,196	1,716,287	47,342	52,839	1,467,606
February	58,941	72,588	1,650,359	50,800	61,823	1,422,405
March	54,459	70,317	1,688,239	47,011	60,600	1,457,341
April	51,853	70,164	1,555,591	45,992	61,225	1,379,769
May	66,984	86,803	2,076,496	58,644	73,942	1,817,977
June	72,715	93,623	2,181,445	64,023	79,808	1,920,696
July	66,151	71,515	2,050,680	61,692	64,432	1,912,447
August	63,212	68,602	1,959,577	61,555	63,641	1,908,191
September	66,841	75,394	2,005,243	61,688	66,645	1,850,639
October	59,876	70,069	1,856,160	53,998	62,778	1,673,934
November	53,755	62,253	1,612,640	49,728	57,182	1,491,824
December	52,198	58,720	1,618,127	49,923	55,369	1,547,624
Annual Total			21,970,844			19,850,452
Maximum		93,623			79,808	
Average	60,196			54,366		
% Capacity		70			75	
Permit to Take Water Limit*		134,000				
Municipal Drinking Water Licence Limit					107,000	

* Oshawa Plant 1 has a capacity of 27,000 m³/day. Plant 2 has a capacity of 107,000 m³/day. Only Plant 2 was operational during the reporting period.

The Regional Municipality of Durham
Oshawa Drinking Water System
2023 Flow Summary Report

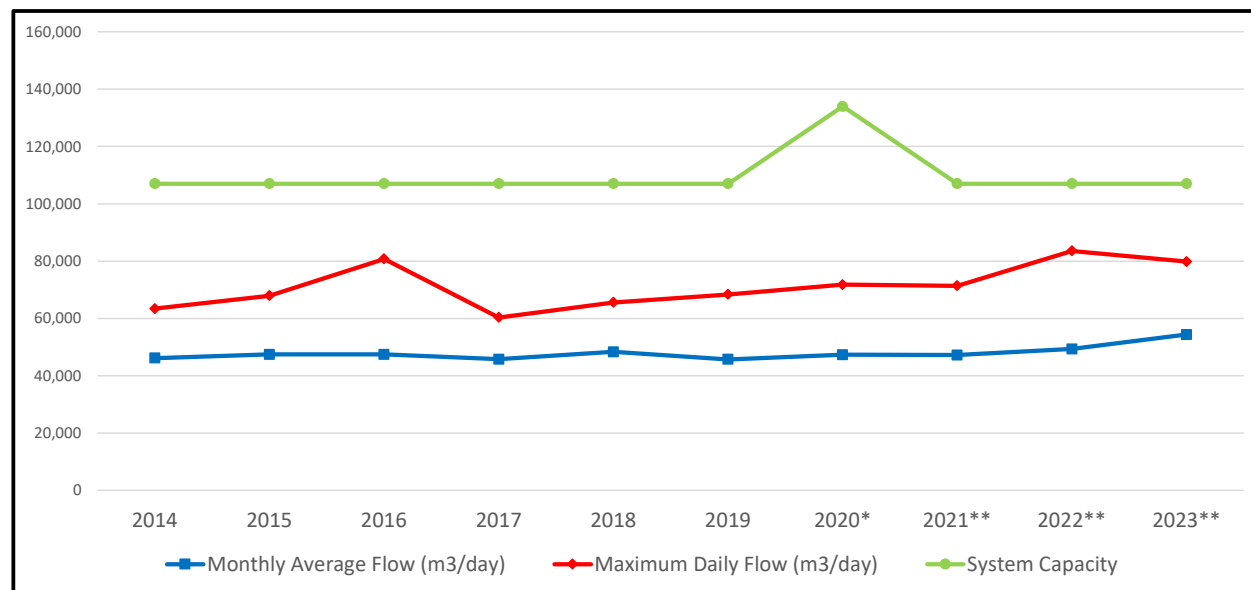
Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)
2014	46,124	63,427	107,000
2015	47,429	67,944	107,000
2016	47,443	80,756	107,000
2017	45,763	60,306	107,000
2018	48,334	65,556	107,000
2019	45,707	68,374	107,000
2020*	47,311	71,764	134,000
2021**	47,229	71,381	107,000
2022**	49,330	83,547	107,000
2023**	54,366	79,808	107,000

*Oshawa Plant 1 has a capacity of 27,000 m³/day. Plant 2 has a capacity of 107,000 m³/day. Plant 1 was out of service from 2010 to 2020 for upgrades. When it came online November 3rd, 2020 the system capacity increased from 107,000 m³/day to 134,000 m³/day.

** Oshawa Plant 1 was taken out of service on June 3, 2021.

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Port Perry Drinking Water System
2023 Flow Summary Report

Month	Well # 3 Maximum Taken per Minute (litres)	Well # 3 Monthly Average Flow cubic metres per day (m ³ /day) Pro-rated	Well # 3 Maximum Daily Flow (m ³ /day) Pro-rated	Well # 3 Total Water Flow (m ³)	Well # 5 Maximum Taken per Minute (litres)	Well # 5 Monthly Average Flow (m ³ /day) Pro-rated	Well # 5 Maximum Daily Flow (m ³ /day) Pro-rated	Well # 5 Total Water Flow (m ³)
January	1,700	222	322	6,803	1,700	195	263	5,965
February	1,700	213	330	5,885	1,600	167	257	4,628
March	1,700	196	347	6,147	1,600	142	313	4,430
April	1,700	190	333	5,740	1,200	128	223	3,855
May	1,700	182	305	5,616	1,400	125	209	3,863
June	1,700	242	509	6,211	1,250	150	225	3,987
July	1,700	289	389	1,732	1,200	124	268	1,354
August	1,700	251	417	7,749	1,200	173	286	5,346
September	1,700	214	419	2,961	1,200	169	284	2,007
October	1,700	29	59	146	0	0	0	0
November	1,700	515	1,168	12,332	1,700	506	1,209	12,585
December	1,700	204	284	6,423	1,700	207	285	6,491
Annual Total				67,745				54,511
Maximum	1,700		1,168		1,700		1,209	
Average		229				174		
% Capacity	94		45		94		46	
Permit to take water limit	1,817		2,617		1,817		2,617	
Municipal Drinking Water License Limit			2,618				2,618	

The Regional Municipality of Durham
Port Perry Drinking Water System
2023 Flow Summary Report

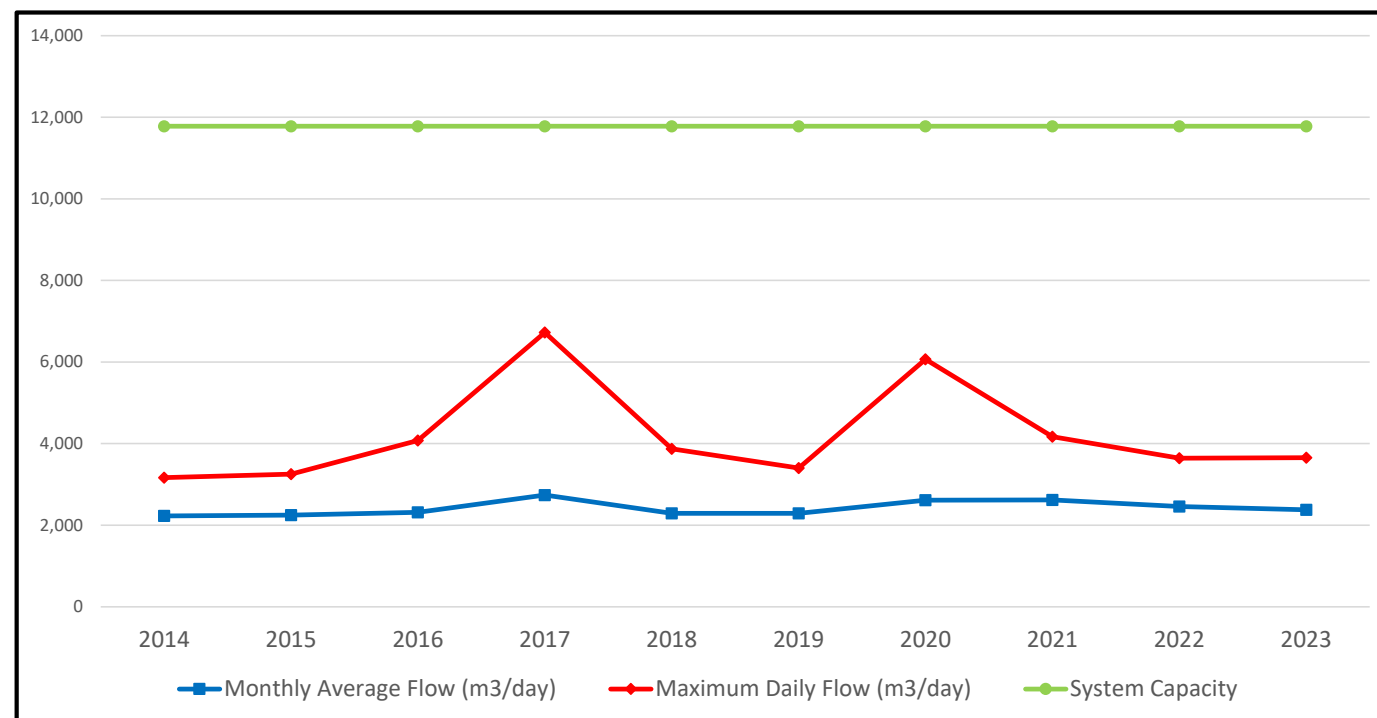
Month	Well # 6 Maximum Taken per Minute (litres)	Well # 6 Monthly Average Flow cubic metres per day (m ³ /day) Pro-rated	Well # 6 Maximum Daily Flow (m ³ /day) Pro-rated	Well # 6 Total Water Flow (m ³)	Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Total Treated Water Flow (m ³)
January	4,300	1,728	2,119	53,353	2,144	2,402	66,121
February	4,300	1,782	2,225	50,239	2,162	2,534	60,752
March	4,300	1,774	2,195	55,323	2,112	2,383	65,900
April	4,300	1,851	2,295	55,151	2,169	2,541	64,746
May	4,400	2,210	3,015	68,768	2,517	3,276	78,247
June	4,300	2,482	3,280	74,953	2,827	3,658	85,151
July	4,300	2,485	3,264	76,895	2,586	3,278	79,981
August	4,300	2,183	2,864	67,904	2,607	3,180	80,999
September	4,300	2,545	3,052	76,496	2,712	3,505	81,464
October	4,300	2,338	2,883	72,721	2,342	2,883	72,867
November	4,300	1,713	2,570	41,317	2,205	2,570	66,234
December	4,300	1,730	2,045	54,237	2,141	2,416	67,152
Annual Total				747,357			869,614
Maximum	4,400		3,280			3,658	
Average		2,069			2,377		
% Capacity	97		50			31	
Permit to take water limit	4,543		6,542				
Municipal Drinking Water License Limit			6,545			11,781	

**The Regional Municipality of Durham
Port Perry Drinking Water System
2023 Flow Summary Report**

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)
2014	2,228	3,167	11,781
2015	2,245	3,251	11,781
2016	2,317	4,075	11,781
2017	2,740	6,724	11,781
2018	2,289	3,873	11,781
2019	2,292	3,403	11,781
2020	2,613	6,070	11,781
2021	2,621	4,173	11,781
2022	2,462	3,644	11,781
2023	2,377	3,658	11,781

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Sunderland Drinking Water System
2023 Flow Summary Report

Month	Well # 1 Raw Water Maximum Taken per Minute (litres)	Well # 1 Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Well # 1 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 1 Total Raw Water Flow (m ³)	Well #1 Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Well #1 Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 1 Total Treated Water Flow (m ³)
January	450	305	407	9,444	305	407	9,444
February	450	172	274	3,970	172	274	3,970
March	450	189	357	5,887	189	357	5,887
April	450	199	305	5,962	199	305	5,962
May	456	217	352	6,743	217	352	6,743
June	450	223	406	6,735	223	406	6,735
July	450	174	307	5,394	174	307	5,394
August	450	202	301	6,291	202	301	6,291
September	450	227	278	1,146	227	278	1,146
October	468	108	407	1,674	89	407	1,378
November	438	170	273	5,111	170	273	5,111
December	450	161	258	5,037	161	258	5,037
Annual Total				63,393			63,096
Maximum	468		407			407	
Average		195			194		
% Capacity	46		30			30	
Permit to Take Water Limit	1,023		1,373				
Municipal Drinking Water Licence Limit						1,374	

Note: Treated water volumes calculated by subtracting waste from raw water volumes.

The Regional Municipality of Durham
Sunderland Drinking Water System
2023 Flow Summary Report

Month	Well # 2 Raw Water Maximum Taken per Minute (litres)	Well # 2 Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Well # 2 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 2 Total Raw Water Flow (m ³)	Well # 2 Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 2 Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 2 Total Treated Water Flow (m ³)
January	726	5	12	33	0	0	0
February	738	29	130	157	0	0	0
March	702	17	36	71	0	0	0
April	558	51	156	216	0	0	0
May	570	13	23	98	0	0	0
June	576	18	43	110	0	0	0
July	564	14	35	111	0	0	0
August	564	14	33	130	0	0	0
September	558	14	16	28	0	0	0
October	510	4	7	13	0	0	0
November	564	4	4	15	0	0	0
December	564	4	6	18	0	0	0
Annual Total				1,000			
Maximum			156			0	
Average		15			0		
% Capacity			11				
Permit to Take Water Limit	1,023		1,373				
Municipal Drinking Water Licence Limit							

Note: Well 2 was not in service in 2023.

The Regional Municipality of Durham
Sunderland Drinking Water System
2023 Flow Summary Report

Month	Well # 3 Raw Water Maximum Taken per Minute (litres)	Well # 3 Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Well # 3 Raw Water Maximum Daily Flow (m ³ /day) Pro- rated	Well # 3 Total Raw Water Flow (m ³)	Well # 3 Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 3 Treated Water Maximum Daily Flow (m ³ /day) Pro- rated	Well # 3 Total Treated Water Flow (m ³)
January	576	197	305	2,417	197	305	2,412
February	564	255	512	7,216	255	512	7,216
March	564	206	290	6,367	206	290	6,367
April	564	202	280	6,067	202	280	6,067
May	564	199	311	6,242	199	311	6,242
June	564	203	334	6,142	203	334	6,142
July	552	184	237	5,723	184	237	5,723
August	552	203	386	6,387	203	386	6,387
September	552	362	520	10,870	362	520	10,870
October	564	328	702	10,220	328	702	10,220
November	564	185	243	5,554	185	243	5,554
December	564	189	241	5,893	189	241	5,893
Annual Total				79,097			79,092
Maximum	576		702			702	
Average		226			226		
% Capacity	96		81			81	
Permit to Take Water Limit	600		864				
Municipal Drinking Water Licence Limit						864	

Note: Treated water volumes calculated by subtracting waste from raw water volumes.

The Regional Municipality of Durham
Sunderland Drinking Water System
2023 Flow Summary Report

Month	Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Total Raw Water Flow (m ³)	Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Total Treated Water Flow (m ³) Pro-rated
January	382	445	11,894	381	440	11,804
February	401	584	11,343	396	515	11,087
March	397	513	12,325	395	513	12,254
April	408	577	12,245	401	509	12,032
May	419	560	13,083	416	557	12,893
June	429	627	12,986	426	627	12,771
July	362	477	11,227	358	460	11,098
August	409	558	12,808	405	552	12,554
September	400	617	12,044	399	600	11,983
October	381	752	11,907	371	739	11,499
November	356	416	10,680	355	416	10,658
December	350	442	10,948	349	442	10,826
Annual Total			143,490			141,459
Maximum		752			739	
Average	391			388		
% Capacity		27			33	
Permit to Take Water Limit		2,745				
Municipal Drinking Water Licence Limit					2,238	

Note: Treated water volumes calculated by subtracting waste from raw water volumes.

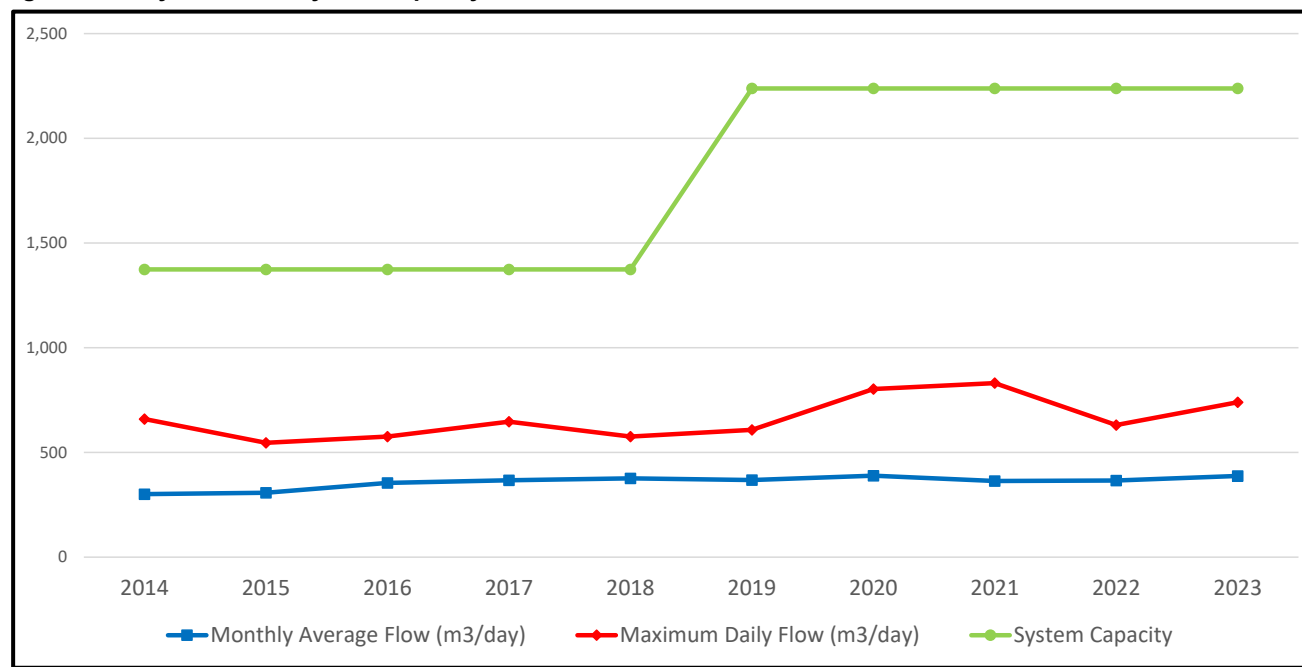
The Regional Municipality of Durham
Sunderland Drinking Water System
2023 Flow Summary Report

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)*
2014	301	660	1,374
2015	307	546	1,374
2016	355	576	1,374
2017	367	647	1,374
2018	376	576	1,374
2019	368	608	2,238
2020	389	803	2,238
2021	364	831	2,238
2022	366	631	2,238
2023	388	739	2,238

*Sunderland DWS cannot achieve its rated capacity due to hydraulic restrictions within the treatment process.

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Uxbridge Drinking Water System
2023 Flow Summary Report

Month	Well # 5 Raw Water Maximum Taken per Minute (litres)	Well # 5 Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Well # 5 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 5 Total Raw Water Flow (m ³)	Well # 5 Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 5 Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 5 Total Treated Water Flow (m ³)
January	2,700	1,014	1,223	15,249	1,012	1,223	15,219
February	2,700	1,032	1,313	17,486	1,030	1,313	17,456
March	2,700	954	1,175	18,164	951	1,175	18,119
April	2,700	1,034	1,280	17,470	1,032	1,280	17,440
May	2,700	1,349	1,899	24,296	1,347	1,899	24,266
June	2,700	1,572	2,265	45,422	1,572	2,265	45,412
July	2,700	1,416	2,021	43,972	1,416	2,021	43,972
August	2,700	1,161	1,900	33,508	1,194	1,900	33,248
September	2,700	1,308	1,880	36,328	1,308	1,880	36,328
October	2,700	1,065	1,674	19,431	1,064	1,674	19,416
November	2,700	996	1,202	16,893	995	1,202	16,863
December	2,700	1,112	1,411	18,961	1,110	1,411	18,931
Annual Total				307,180			
Maximum	2,700		2,265			2,265	
Average		1,168			1,169		
% Capacity	90		52			27	
Permit to take water limit	3,000		4,320				
Municipal Drinking Water License Limit*						8,251	

Note: Treated water volumes calculated by subtracting waste from raw water volumes.

*Limit is combined for Wells 5 and 7.

The Regional Municipality of Durham
Uxbridge Drinking Water System
2023 Flow Summary Report

Month	Well # 7 Raw Water Maximum Taken per Minute (litres)	Well # 7 Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Well # 7 Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 7 Total Raw Water Flow (m ³)	Well # 7 Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 7 Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 7 Total Treated Water Flow (m ³)
January	1,600	784	1,123	15,649	782	1,123	15,619
February	1,600	734	894	11,009	732	894	10,979
March	1,600	742	900	12,656	741	900	12,631
April	1,600	763	1,000	13,000	762	1,000	12,975
May	1,600	840	1,281	15,097	837	1,281	15,057
June	1,600	679	1,711	7,465	674	1,711	7,405
July	1,600	389	1,126	2,992	382	1,126	2,937
August	1,600	629	1,202	9,147	648	1,202	8,759
September	1,600	654	1,142	6,611	647	1,142	6,551
October	1,600	815	1,097	13,809	813	1,097	13,779
November	1,600	720	988	12,973	717	988	12,933
December	1,600	818	987	14,822	864	987	14,792
Annual Total				135,230			
Maximum	1,600		1,711			1,711	
Average		714			717		
% Capacity	53		40			21	
Permit to Take Water Limit	3,000		4,320				
Municipal Drinking Water Licence Limit*						8,251	

Note: Treated water volumes calculated by subtracting waste from raw water volumes.

*Limit is combined for Wells 5 and 7.

The Regional Municipality of Durham
Uxbridge Drinking Water System
2023 Flow Summary Report

Month	Well # 5 and 7 Treated Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Well # 5 and 7 Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 5 and 7 Total Treated Water Flow (m ³) Pro-rated**	Well # 6 Raw/Treated Water Maximum Taken per Minute (litres)	Well # 6 Raw/Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Well # 6 Raw/Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Well # 6 Total Raw/Treated Water Flow (m ³)
January	995	1,417	30,838	2,520	1,354	1,937	41,973
February	1,016	1,315	28,435	2,520	1,347	1,787	37,919
March	992	1,305	30,750	2,520	1,320	1,554	40,834
April	1,014	1,258	30,415	2,580	1,350	1,661	40,522
May	1,268	2,011	39,323	2,520	1,650	2,135	51,160
June	1,761	2,428	52,817	2,520	1,874	2,688	56,438
July	1,513	2,204	46,909	2,520	1,623	2,349	50,257
August	1,355	1,900	42,007	2,520	1,579	1,897	49,282
September	1,429	2,128	42,879	2,520	1,618	1,906	48,368
October	1,071	1,813	33,195	2,520	1,497	1,866	46,401
November	993	1,408	29,796	2,520	1,334	1,673	40,245
December	1,088	1,506	33,723	2,520	1,445	1,700	44,985
Annual Total							
Maximum		2,428		2,580		2,688	
Average	1,208						
% Capacity		29		95		68	
Permit to Take Water Limit		4,320		2,730		3,931	
Municipal Drinking Water Licence Limit		8,251*				3,931	

*Limit is combined for Wells 5 and 7.

**Treated water volumes for Wells 5 and 7 calculated by subtracting waste from raw water volumes.

The Regional Municipality of Durham
Uxbridge Drinking Water System
2023 Flow Summary Report

Month	Raw Water Monthly Average Flow Cubic metres per day (m ³ /day) Pro-rated	Raw Water Maximum Daily Flow (m ³ /day) Pro-rated	Total Raw Water Flow (m ³)	Treated Water Monthly Average Flow (m ³ /day) Pro-rated	Treated Water Maximum Daily Flow (m ³ /day) Pro-rated	Total Treated Water Flow (m ³)
January	2,351	3,131	72,871	2,348	3,131	72,811
February	2,366	2,525	66,414	2,364	2,525	66,354
March	2,309	2,569	71,654	2,309	2,422	71,584
April	2,369	2,772	70,992	2,366	2,661	70,937
May	2,921	3,971	90,553	2,918	3,807	90,483
June	3,650	4,971	109,325	3,640	4,468	109,255
July	3,137	3,867	97,221	3,137	4,132	97,166
August	2,969	3,734	92,202	2,929	3,256	91,289
September	3,051	3,898	91,307	3,055	3,668	91,247
October	2,562	3,389	79,641	2,561	3,298	79,596
November	2,338	2,701	70,111	2,328	2,610	70,041
December	2,536	3,089	78,768	2,527	2,855	78,708
Annual Total			991,059			
Maximum		4,971			4,468	
Average	2,713			2,707		
% Capacity		60				
Permit to Take Water Limit*		8,251				
Municipal Drinking Water Licence Limit**					8,251 3,931	

*Permit to Take Water allows two wells to operate simultaneously however, the daily total taking of water for any combination is limited to a maximum of 8,251 m³/day.

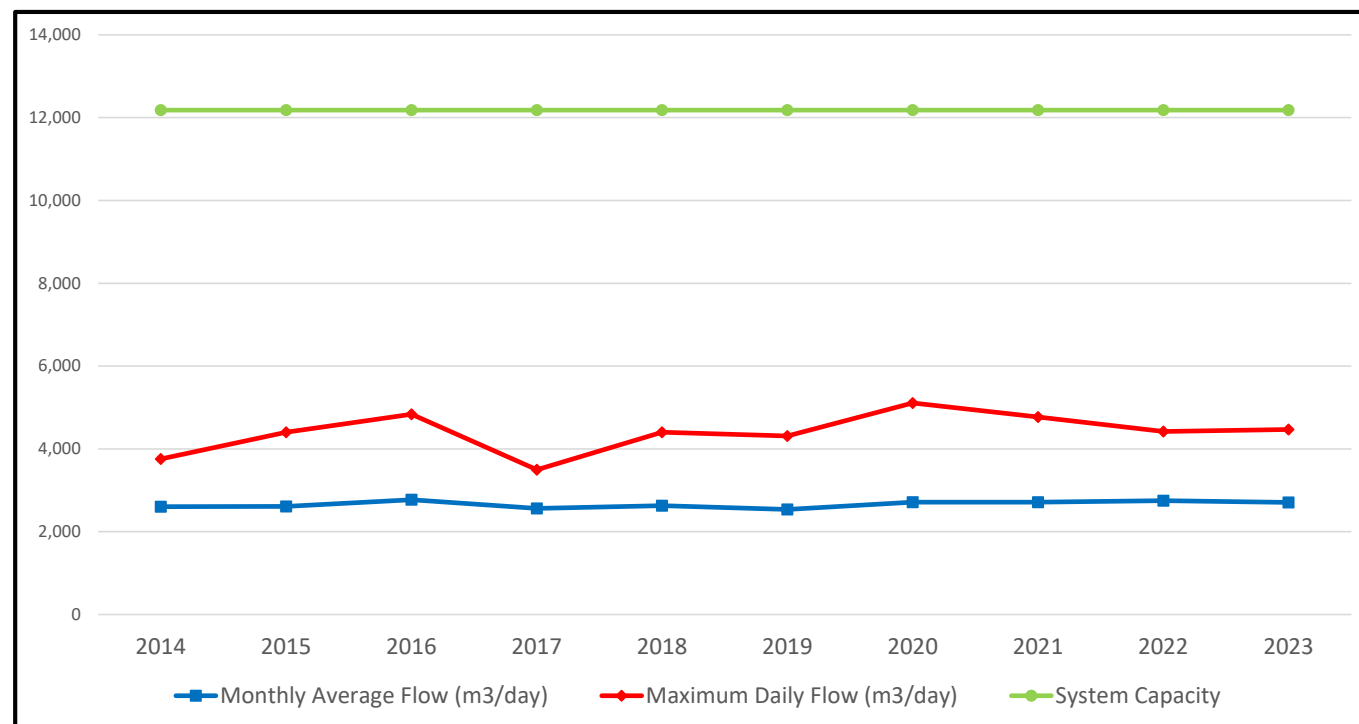
**8,251 m³/day is the rated capacity for Wells 5 and 7 and 3,931 m³/day is the rated capacity for Well 6.

The Regional Municipality of Durham
Uxbridge Drinking Water System
2023 Flow Summary Report

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)
2014	2,605	3,760	12,182
2015	2,609	4,401	12,182
2016	2,772	4,839	12,182
2017	2,564	3,497	12,182
2018	2,630	4,401	12,182
2019	2,538	4,310	12,182
2020	2,711	5,109	12,182
2021	2,715	4,771	12,182
2022	2,752	4,418	12,182
2023	2,707	4,468	12,182

Figure 1: Ten year annual system capacity and treated water flow data.



The Regional Municipality of Durham
Whitby Drinking Water System
2023 Flow Summary Report

Month	Raw Process Water Monthly Average Flow Cubic metres per day (m ³ /day)	Raw Process Water Maximum Daily Flow (m ³ /day)	Total Raw Process Water Flow (m ³)	Raw Industrial Water Monthly Average Flow (m ³ /day)	Raw Industrial Water Maximum Daily Flow (m ³ /day)	Total Raw Industrial Water Flow (m ³)
January	53,833	56,608	1,668,831	4,915	7,561	152,367
February	53,564	58,250	1,499,783	4,853	7,898	135,896
March	55,398	70,510	1,717,342	4,783	8,311	154,135
April	54,486	63,891	1,634,592	2,140	5,413	64,202
May	51,629	71,450	1,600,506	689	3,010	21,349
June	68,016	100,467	2,040,472	1,441	2,926	43,223
July	64,850	77,846	2,010,343	5,151	10,026	159,665
August	59,879	77,428	1,856,254	4,473	7,728	138,669
September	62,030	78,356	1,860,911	4,439	6,460	133,170
October	57,114	65,995	1,770,540	4,797	8,015	148,721
November	55,058	63,207	1,651,748	5,073	6,942	152,177
December	55,288	62,915	1,713,923	5,677	6,638	175,974
Annual Total			21,025,243			1,479,546
Maximum		100,467			10,026	
Average	57,596			4,036		

The Regional Municipality of Durham
Whitby Drinking Water System
2023 Flow Summary Report

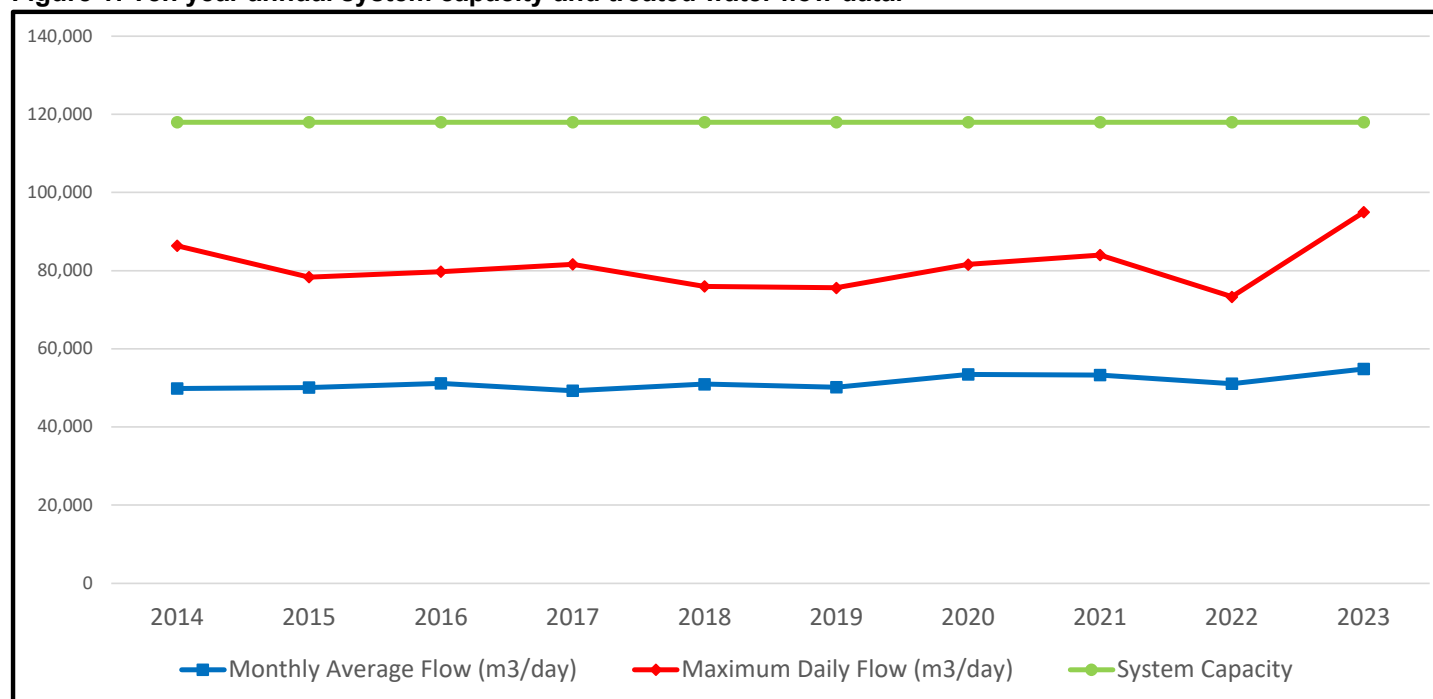
Month	Raw Water Monthly Average Flow Cubic metres per day (m ³ /day)	Raw Water Maximum Daily Flow (m ³ /day)	Total Raw Water Flow (m ³)	Treated Water Monthly Average Flow (m ³ /day)	Treated Water Maximum Daily Flow (m ³ /day)	Total Treated Water Flow (m ³)
January	59,048	62,439	1,830,471	52,080	55,149	1,614,482
February	58,724	65,091	1,644,283	51,899	56,576	1,453,172
March	60,540	76,720	1,876,735	53,415	67,259	1,655,852
April	56,928	67,369	1,707,834	52,535	60,519	1,576,042
May	52,544	71,717	1,628,860	48,684	68,861	1,509,196
June	69,912	103,309	2,097,356	64,457	94,951	1,933,701
July	70,459	82,860	2,184,238	61,094	74,120	1,893,897
August	64,712	85,598	2,006,063	56,469	72,106	1,750,548
September	66,836	81,719	2,005,073	58,384	74,731	1,751,506
October	62,211	71,857	1,928,538	54,123	62,407	1,677,806
November	60,427	69,300	1,812,809	52,309	60,887	1,569,256
December	61,273	69,557	1,899,467	52,526	59,082	1,628,304
Annual Total			22,621,726			20,013,763
Maximum		103,309			94,951	
Average	61,968			54,831		
% Capacity		72			80	
Permit to Take Water Limit		144,000				
Municipal Drinking Water Licence Limit					118,000	

**The Regional Municipality of Durham
Whitby Drinking Water System
2023 Flow Summary Report**

Table 1: Ten year annual system capacity and treated water flow data.

Year	Monthly Average Flow (m ³ /day)	Maximum Daily Flow (m ³ /day)	System Capacity (m ³ /day)
2014	49,822	86,351	118,000
2015	50,101	78,362	118,000
2016	51,136	79,744	118,000
2017	49,246	81,622	118,000
2018	50,954	75,943	118,000
2019	50,169	75,591	118,000
2020	53,472	81,583	118,000
2021	53,268	83,975	118,000
2022	51,072	73,316	118,000
2023	54,831	94,951	118,000

Figure 1: Ten year annual system capacity and treated water flow data.





The Regional Municipality of Durham

Report

To: Works Committee
From: Acting Commissioner of Works
Report: #2024-W-6
Date: March 6, 2024

Subject:

2024 Works Department Business Plan and Budget

Recommendation:

That the Works Committee recommends to the Finance and Administration Committee for subsequent recommendation to Regional Council that the 2024 Business Plan and Budget for the Works Department's General Tax and Solid Waste Management Operations be approved.

Report:

1. Purpose

- 1.1 The purpose of this report is to obtain Works Committee concurrence of the 2024 Business Plan and Budget for the Works Department's General Tax (including roads, bridges, and other general tax supported programs) and Solid Waste Management programs. The Works Department 2024 Business Plan and Budget will be considered by the Finance and Administration Committee during deliberations of the 2024 Property Tax Supported Business Plan and Budget.

2. Overview

- 2.1 The recommended 2024 Works Department Business Plan and Budget meets the Council-approved guideline for the 2024 Property Tax Supported Business Plan and Budget.

2.2 The 2024 Works Department Business Plan and Budget supports and advances the goals of the Regional Municipality of Durham's (Region) Strategic Plan, namely:

- Environmental Sustainability
- Community Vitality
- Economic Prosperity
- Social Investment
- Service Excellence

2.3 The recommended 2024 Works Department Business Plan and Budget includes:

- a. **Works General Tax:** gross expenditures to deliver roads, bridges and other general tax programs totalling \$219.21 million in gross expenditures, requiring \$61.72 million in property tax funding with the remaining funded by program fees, development charges, Canada Community-Building Fund proceeds, Investing in Canada Infrastructure Program (ICIP) grant financing, debenture financing, reserves and reserve funds; and,
- b. **Solid Waste Management:** gross expenditures to deliver solid waste management planning and operating activities totalling \$90.18 million, requiring \$61.07 million in property tax funding with the remaining expenditures funded by program fees, industry funding, reserves and reserve funds, and recoveries from the Regional Municipality of York.

2.4 The recommended 2024 Works Department Business Plan and Budget provides operating and capital funding for the following divisions:

Works General Tax

- a. Maintenance Operations
 - Winter Control
 - Roadside Maintenance
 - Regional Storm Sewers
- b. Traffic Operations
 - Signals and Systems
 - Signs, Markings and Roadside Protection
 - Engineering and Central Control Systems
- c. Engineering and Staff Support
- d. Facilities Management
- e. Durham Regional Forest

- f. Depot Operations
- g. Fleet Operations
- h. Administration

Solid Waste Management Operations

- a. Waste Management Facilities
- b. Collections, Processing and Disposal
- c. Administration
- d. Facilities Management
- e. Regional Corporate Costs
- f. Waste Management Centre
- g. Community Outreach
- h. Environmental Studies

2.5 The 2024 Works Department Business Plan and Budget also provide funding for a share of the operation and maintenance of Regional Headquarters.

3. 2023 Accomplishments

3.1 In 2023, the Works Department:

- a. Advanced the implementation of the Durham Vision Zero Safety Plan, including the installation of four new fixed Automated Speed Enforcement (ASE) cameras, and the deployment of two additional ASE cameras on a rotational basis. As of the end of 2023, the Region has 14 ASE cameras consisting of eight fixed and six mobile cameras covering approximately 40 locations.
- b. Completed the rehabilitation of 19 lane kilometres of Regional roads, including the installation of 31 lane kilometres of wider paved shoulders on rural roads.
- c. Completed several major growth-related and road reconstruction projects including the roundabout at Regional Road 57 and Regional Road 3, Westney Road widening from Rossland Road to Taunton Road, Cochrane Street Bridge replacement, and Lake Ridge Road rehabilitation from Myrtle Road to north of Chalk Lake Road.
- d. Advanced the visioning and initial business case study to explore rapid transit feasibility on Simcoe Street.

- e. Advanced detailed design for 13 kilometres of median Bus Rapid Transit lanes through the City of Pickering, the Town of Ajax, and the Town of Whitby.
- f. Ongoing collaboration with Indigenous communities for rapid transit initiatives.
- g. Acquired properties to support the advancement of Regional strategic initiatives and projects and negotiated leases for space for program delivery, including the following strategic acquisitions:
 - Secured leased spaces at 312 Colborne Street West and 117 King Street, in the Town of Whitby, for a shelter and transitional home for residents experiencing homelessness.
 - Secured leased space at 710 Wilson Road South, in the City of Oshawa, for Durham Regional Police Service for the Fleet and Canine operations which were displaced by fire.
 - Facilitated the purchase and refurbishment of the former Sunnycrest Long-Term Care Home (1635 Dundas Street East, Town of Whitby) for temporary housing solutions to address increased homelessness within the Region.
 - Acquired land requirements for several growth and road rehabilitation projects to advance the transportation objectives outlined in the Region of Durham Official Plan.
 - Acquired 20 properties for the Highway 2 Bus Rapid Transit project to advance the Rapid Transit Program in Durham Region and six properties for the Regional Road 57 widening project from Baseline Road to King Street West (Regional Highway 2), in the Municipality of Clarington.
- h. Provided service to more than 321,000 customers at the Region's Waste Management Facilities.
- i. Continued preparation for the Region's transition to the Extended Producer Responsibility Program in 2024.
- j. Awarded a 10-year contract for the anaerobic digestion of Green Bin organics allowing for the expansion of the Green Bin Program in 2024 and the future Green Bin Program for the multi-residential sector.
- k. Reached agreements with existing contractors to continue to provide curbside collection services for the Region's Business Improvement Areas during transition to the Extended Producer Responsibility Program.

- l. Negotiated agreements with Product Care Association for the continuation of the hazardous waste programs at the Region's Waste Management Facilities.
- m. Constructed a pilot biocover system at the closed Oshawa Landfill site to determine the extent of potential methane reduction method for closed landfills in the Region.
- n. Developed and launched an updated Waste Management Education Program for elementary and high schools, and released videos promoting the Region's waste services and initiatives.
- o. Conducted additional air monitoring studies to analyze and identify the effect of other local sources of gaseous air pollutant emissions.
- p. Adopted the Corporate Building Standard (Durham Building Standard) applicable to all Regional facilities.
- q. Supported the preparation of various grant applications for funding of projects related to the deep energy retrofits and building improvements within the Durham Regional Local Housing Corporation portfolio.
- r. Acquired the Leasing and Energy Sustainability Modules of the asset management software solution (Ameresco) to allow for tracking of landholdings, leased properties and Regional energy used by site.
- s. Advanced Regional facilities capital projects including:
 - Commenced construction of the Seaton Long-Term Care facility in the City of Pickering.
 - Continued construction of the Beaverton Supportive Housing with substantial performance expected for summer 2024.
 - Continued construction of the Region of Durham Paramedic Services (RDPS) Station and Training facility in Seaton with substantial performance expected for summer 2024.
 - Continued construction of the Phase 2 Clarington Police Complex for Durham Regional Police Service with substantial performance anticipated in spring of 2025.
 - Continued work on the York Durham Regional Environmental Lab with substantial performance expected for fall of 2024.
 - Completed building envelope improvements to Durham Regional Local Housing Corporation facilities at 155 King Street West, in the City of Oshawa, and 655 Harwood Avenue, in the Town of Ajax.

- Completed construction of Phase 1 of the Workplace Modernization Project at Regional Headquarters including occupancy of floors four and five.
 - Commenced refurbishment of the 1635 Dundas Street facility to accommodate 45 low-barrier shelter beds in the short term, and for future housing options to address increased homelessness within Durham Region.
 - Awarded the Request for Proposal to standardize the electric vehicle charging infrastructure supplier to support the installation of charging stations at Regional facilities over the next five years.
 - Awarded the Request for Proposal for consulting services for the community needs assessment and conceptual site master plans for the Ritson School Project and hosted public consultation meetings with businesses, service providers and residents.
 - Initiated the agreement with Infrastructure Ontario for the development of a business case to assess the feasibility of delivering housing outcomes by redeveloping the Malaga Road and Christine Crescent Durham Regional Local Housing Corporation sites.
 - Completed various state-of-good repair projects in alignment with the Region's Asset Management Plan; and
 - Completed the first round of Building Condition Assessments on all Regional buildings one year ahead of schedule.
- t. Supported the implementation of the Regional Cycling Plan to provide residents with a safe and accessible network through the addition of 14 kilometres of new cycling facilities.

Awards and Achievements

- Received the Ontario Public Works Association Project of the Year Award in the Structures less than \$2 million category for the Micro-home Supportive Housing Project.
- Received the Ontario Public Works Association Project of the Year Award in the Transportation, less than \$2 million category for the Newtonville Road (Regional Road 18) Rehabilitation Project using recycled materials.

4. 2024 Strategic Highlights

4.1 The Works Department 2024 Business Plan and Budget proposes significant investments for capital infrastructure, including:

- a. Total capital for Regional roads and infrastructure projects totalling \$161.1 million, including \$23.7 million in funding from the Federal and Provincial governments under the Investing in Canada Infrastructure Program (ICIP) applied towards projects costing a total of \$32.4 million. Of the remaining \$128.7 million, \$32.1 million are growth-related (including \$0.9 million for cycling infill projects), with the balance of \$96.6 million for rehabilitation of existing infrastructure and system improvement projects, including:
 - \$51.15 million for rehabilitation of roads and bridges and replacement of the Traffic Management Control System.
 - \$44.0 million in capital investments related to the expansion and modernization of Works maintenance depots. This includes \$35.0 million for the expansion of the Ajax/Pickering Maintenance Depot, including a 20-bay cold vehicle storage building, \$5.0 million for the design of the new Oshawa/Whitby Maintenance Depot and \$4.0 million for the design of the new Sunderland Maintenance Depot. Of this total \$44.0 million, \$29.3 million in financing was approved through the 2024 Water Supply and Sanitary Sewerage Business Plan and Budget with the balance of \$14.7 million proposed in the 2024 Works Department Business Plan and Budget to be financed through development charges and debt financing.
 - \$1.45 million in capital investments to achieve Durham Vision Zero's goals, with the financing of \$0.65 million provided from the Vision Zero Initiatives Reserve Fund, for enhanced pavement and line markings.
- b. 2024 capital projects for waste management total \$4.7 million and include a \$4.0 million investment to redesign and reconstruct the Oshawa Waste Management Facility, optimizing the site to ensure it is utilized to its full extent and achieves the goals outlined in the Region's Long-Term Waste Management Plan 2022-2040.

4.2 In addition to the capital priorities, the proposed 2024 Works Department Business Plan and Budget includes impacts for key operational initiatives such as:

- a. Increases in road maintenance costs in response to growth, historical service demands and increased cost of operations, totalling \$0.88 million.

- b. \$0.87 million investment to provide up to 35,000 green bins to residents at 50 per cent discount to accommodate additional capacity requirements and encourage participation in the Enhanced Green Bin Program.
 - c. Net savings of \$2.36 million for Waste Management Services due to the Region's planned transition to the Extended Producer Responsibility Program effective July 1, 2024, and the launch of the Enhanced Green Bin Program. The savings have been used to partially fund the significant capital improvements at the Oshawa Waste Management Facility in 2024 estimated at \$4.0 million. Future annual net savings will be used to fund large capital projects including the construction of an anaerobic digestion/pre-sort facility.
- 4.3 The Works Department also leads and supports key corporate projects and initiatives, including:
- a. Design, construction, and commissioning of the Seaton Long-Term Care Facility in the City of Pickering under an accelerated schedule, with an estimated project cost of \$162.25 million.
 - b. 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 of workplace for all projects related to the construction or renovation/retrofit of Regional facilities.
 - c. Redevelopment and delivery of deep energy retrofit work at various Durham Regional Local Housing Corporation sites, 101 Consumers Drive, in the Town of Whitby, and 300 Ritson Road South, in the City of Oshawa.
 - d. Design, construction, and property acquisition to advance Bus Rapid Transit initiatives, and Durham Region Transit facilities at 2400 Thornton Road North and 710 Raleigh Avenue, in the City of Oshawa.
 - e. Complete tree marking activities and standing timber sales at the Durham Regional Forest in the Township of Uxbridge to allow for natural regeneration of species such as sugar maple, red oak and American beech.
 - f. Continued support to Durham OneNet, Inc. (DONi) in advancing the Region's broadband expansion network.
- 4.4 The Works Department has modestly grown its workforce over the years. The amount of work required to support the services that the residents rely on and for the planning, detailed design and construction of road infrastructure that is required to achieve the Provincial housing targets and local municipal housing pledges continues to exceed existing staffing levels. To address this rapid population growth and to ensure efficient, timely and effective delivery of services, the Region engaged a third-party consultant to assess the Works Department's structure and

culture and to ensure the department is appropriately resourced to deliver the increasing scope and priority projects. As a result, the corporate portion of the 2024 General Tax and Waste Budget includes a provision of \$0.94 million for full time equivalent employees (FTEs) anticipated as a priority from the recommendations of the Works Department assessment. This is a minimum 2024 requirement to set the groundwork for resourcing and advancing a significant capital program, maintaining assets in a state of good repair, and operating the existing infrastructure in line with targeted levels of service and community expectations, all key to facilitating the achievement of housing targets.

4.5 The Works Department provides significant support and leadership to key Regional initiatives included in the 2024 Business Plan and Budget that provide mitigation and adaptation measures and strategies to address the Region's climate change initiatives, including:

- a. Replacement of seven electric hybrid half ton pick-up trucks at various locations for \$0.74 million, funded through the equipment replacement reserves.
- b. Continued support through the Rapid Transit Office and Corporate Real Estate for the implementation of Bus Rapid Transit on Highway 2.
- c. Design and construction of the Durham Region Transit Maintenance Facility on Thornton Road North, in the City of Oshawa. This facility will support a full fleet of zero-emission vehicles while aiming for high energy standards that will allow it to be a net-zero energy building.
- d. Complete deep energy building retrofits of Durham Regional Local Housing Authority's senior's housing portfolio to reduce energy consumption and carbon emissions under Federation of Canadian Municipalities' Sustainable Affordable Housing Program.
- e. Issue Greenhouse Gas Reduction Pathway Feasibility Studies for up to 55 Regional sites.
- f. Delivery of electrical vehicle charging infrastructure funded in part through Natural Resources Canada's (NRCAN) Zero Emission Vehicle Infrastructure Program (ZEVIP).
- g. Continued utilization of recycled materials for road construction.
- h. Expanding the Durham Active Transportation network.

5. 2024 Risks and Uncertainties

5.1 Areas of potential risks and pressures that could impact the operating and capital budgets of the Works Department include:

a. Risks related to legislative changes, regulations, and provincial reviews:

- Ongoing efforts to comply with Ontario Regulation 239/02 minimum road maintenance standards with the expansion of the Region's road network.
- Ongoing challenges to meet the requirements of the Accessibility for Ontarians with Disabilities Act (AODA) as it relates to the installation of Accessible Pedestrian Signals.
- Obligation to meet legislative standards such as the Ontario One-Call Program response time requirement.
- On-Site and Excess Soil Management Ontario Regulation 406/19.
- Transition to the Extended Producer Responsibility Program including the negotiated agreement with the Producers for Blue Box services. Poor performance of the new Blue Box Program could result in recyclables being placed in the garbage, leading to increased costs to the Region.
- Cost to continue providing recycling services at the Region's waste management facilities. The Region's current Blue Box collection contract includes curbside battery collection, and replacement contracts for these collections will be required.
- Requirements and timing of the Province's Food and Organic Waste Policy Statement/Framework. Resident uptake of the Green Bin expansion program in 2024 will ultimately determine the resources necessary to maximize the diversion of the added materials from the disposal stream. Negotiations for a shared services agreement with the City of Oshawa and Town of Whitby for a multi-residential Green Bin program are ongoing, and the terms of an agreement may impact the 2025 operating budget.

b. Revenue/Funding pressures:

- Uncertainty around revenue/funding pressures (e.g., Provincial/Federal infrastructure programs which require matching Regional investment).
- The Region has been using Development Charges to help finance the growth-related portion of the road and bridge expansion projects. It is projected that these reserve funds will be reduced significantly over the next five years because of Bill 23 'More Homes, Built Faster Act, 2022'

and Bill 134 'Affordable Homes and Good Jobs Act, 2023'. Additional information on the 2024 Capital Budget and Nine-year Forecast for roads and infrastructure, including the associated financing plan, financial risks and Bill 23 impacts will be included in Report 2024-F-3 being presented to Finance and Administration Committee at the March 19, 2024, meeting.

- Uncertainty around receipt and availability of development charge revenue to fund major projects. Any reduction in Development Charges for growth will result in increased pressure on road rehabilitation available financing.
- Uncertainty regarding Blue Box material commodity pricing and industry funding which will be ending on June 30, 2024, with the transition to the Extended Producer Responsibility Program.
- Federation of Canadian Municipalities' recent communication, highlighting Infrastructure Canada's review of the Canada Community Building Fund and potential changes to funding allocations raises risk around the long-term sustainable funding of critical road and bridge rehabilitation work.

c. Operating and Capital Pressures:

- Increasing costs of operations and capital construction due to unprecedented inflation on materials and supplies, including contractual increases and supply chain issues critical for service provision and capital project delivery.
- Resource pressures for the delivery of capital programs due to the increasing number and complexity of projects.
- Recruiting and retaining qualified staff, especially in the highly competitive job market.
- Ongoing difficulties experienced by contractors recruiting and retaining staff to deliver waste management services resulting in increased contract costs.
- Managing the pressures from growth and increased demand on services to support residents and businesses as well as the operational and maintenance requirements for Regional infrastructure including the transportation network and waste management operations.

6. Future Budget Pressures

6.1 Looking forward over the next four years, the following significant budget pressures include:

a. Growth Requirements:

- Increased demands for road maintenance, traffic signal maintenance and solid waste management programs in growth areas.
- Increased fleet and equipment requirements to service and maintain growing infrastructure.
- Increased capital infrastructure including new, expanded, and modernized facilities to accommodate service growth and development.

b. Asset Management and Infrastructure Requirements:

- Reconstruction, modernization and expansion of existing Maintenance Operations Depots and Regional Waste Management Facilities.
- Increased infrastructure to support Durham Regional Local Housing Corporation initiatives and the expansion of Long-Term Care, Region of Durham Paramedic Services, Durham Regional Police Service and Durham Region Transit needs.
- Replacement of the fuel management system and related infrastructure.
- Financial and staffing constraints to address state of goods repair for the road network. Over the 10-year capital forecast, annual funding for the road rehabilitation levy is projected to increase from \$26.1 million in 2024 to \$32.3 million in 2033. This increase is required to keep pace with project capital cost escalations and bring the annual road rehabilitation program in-line with the Region's pavement condition index service level.
- Roads, traffic control, bridge expansion and rehabilitation needs. The projected reserve/reserve funds draw for these programs between 2024 and 2033 is estimated at \$884.2 million for capital infrastructure.
- Increased demand for maintenance, cleaning and winter operations for new roads and sidewalks for a clean, safe and comfortable transport infrastructure for pedestrians, transit users, vehicles and the movement of goods.

c. Legislative and Regulatory Requirements:

- Schedule 10 of Bill 23 'Supporting Growth and Housing in York and Durham Regions Act, 2022' will impact the amount of development charges available to fund new and expanded infrastructure to service

growth. Without development charge revenues, financing for infrastructure will need to be provided from property taxes.

- Ongoing environmental protection, compliance, and rehabilitation requirements for closed landfills.
- Increased requirements for the reduction and diversion of food and organic waste including the roll-out of an Enhanced Green Bin Program for multi-residential properties.

7. Relationship to Strategic Plan

7.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan.

a. Goal 1 - Environmental Sustainability:

- Accelerating the adoption of green technologies and clean energy solutions through strategic partnerships and investment with internal and external partners and academic institutions. The Region is currently partnering with the Toronto Atmospheric Fund to deliver building retrofits of the seniors housing portfolio to reduce energy consumption and carbon emissions under Federation of Canadian Municipalities' Sustainable Affordable Housing Program.
- Increasing resource recovery through the implementation of an interim food and organic waste management strategy in 2024 with continued efforts to develop a long-term food and organic waste management strategy; converting the Region's contracted waste management fleet to renewable natural gas fuelling; and promoting the use of recycled materials in construction projects.
- Protecting, preserving and restoring the natural environment including greenspaces, waterways, parks, trails, and farmlands by exploring integrating environmentally sensitive solutions and practices; increasing restoration measures for impacted areas from construction projects; continuing controlled-harvest practices in all Durham Regional Forest tracts; exploring low and no-mow landscaping options and naturalization on sites; and ensuring site plan development preserves natural features and favours native plant restoration.
- Demonstrating leadership in sustainability and climate change action by mitigating the environmental impacts of projects and continuing to showcase environmental awareness and the importance of Regional assets, such as the Durham Regional Forest. Landfill reclamation and remediation work will continue, along with the ongoing implementation of

the Oshawa Landfill Pilot Project to study the potential of a biocover to mitigate landfill gas generation.

- Expanding sustainable and active transportation by promoting transit and cycling; identifying and prioritizing road maintenance and winter response on primary cycling routes.

b. Goal 2 - Community Vitality:

- Revitalizing existing neighbourhoods and building complete communities that are walkable, well-connected, and have a mix of attainable housing through the expansion of the Regional cycling network.
- Enhancing community safety and well-being with improvements to road traffic safety by advancing projects that are part of the Durham Vision Zero initiative.

c. Goal 3 - Economic Prosperity:

- Better connections for people and the movement of goods by constructing and maintaining an efficient goods movement network.
- Supporting the Bowmanville GO East extension and the Rapid Transit network.
- Centralizing Regional services at strategic facilities to reduce travelling time and increasing convenience for residents.
- Expediting the delivery of high-speed internet services to the rural and underserved communities across Durham Region by leveraging and expanding upon the existing Traffic Operations fibre optic network.

d. Goal 4 – Social Investment:

- Supporting the revitalization of Durham Regional Local Housing Corporation sites, including advancing the redevelopment of underutilized Regional sites to facilitate modern, safe mixed-income communities while increasing the number of affordable housing units.
- Collaborating with departments and community organizations to advance housing support across Durham Region, including leading the design and construction of modular supportive housing and micro-homes and advancing land banking opportunities.

e. Goal 5 - Service Excellence:

- Collaborating for a seamless service experience by partnering with local municipalities and maintaining the service request system to address external concerns through a single point of contact.

- Demonstrating commitment to continuous quality improvement and transparency through public engagement on all major public works initiatives in real-time.

7.2 The Strategic Priorities section of the 2024 Works Department Business Plan and Budget document further highlights planned activities for the current budget year which will contribute to the achievement of the priorities outlined in the Region's Strategic Plan.

8. Conclusion

8.1 The proposed 2024 Works Department Business Plan and Budget meet the Council-approved guideline for the 2024 Property Tax Supported Business Plan and Budget and supports the department's role in the provision of roads, bridges and other general tax supported programs and services.

8.2 It is recommended that the Works Committee approve the 2024 Business Plan and Budget for the Works Department's General Tax and Solid Waste Management Operations and forward this report to the Finance and Administration Committee for consideration during the budget deliberations of the 2024 Property Tax Supported Business Plan and Budget.

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 Christine Dunkley, Director, Corporate Infrastructure and Strategic Business Services, at 905-668-7711 extension 3475.

9. Attachments

Attachment #1: Detailed 2024 Business Plan and Budget for the Works Department's General Tax and Solid Waste Management Operations.

Respectfully submitted,

Original signed by:

Ramesh Jagannathan, MBA, M.Eng., P.Eng., PTOE
Acting Commissioner of Works

Recommended for Presentation to Committee

Original signed by:

Elaine Baxter-Trahair
Chief Administrative Officer

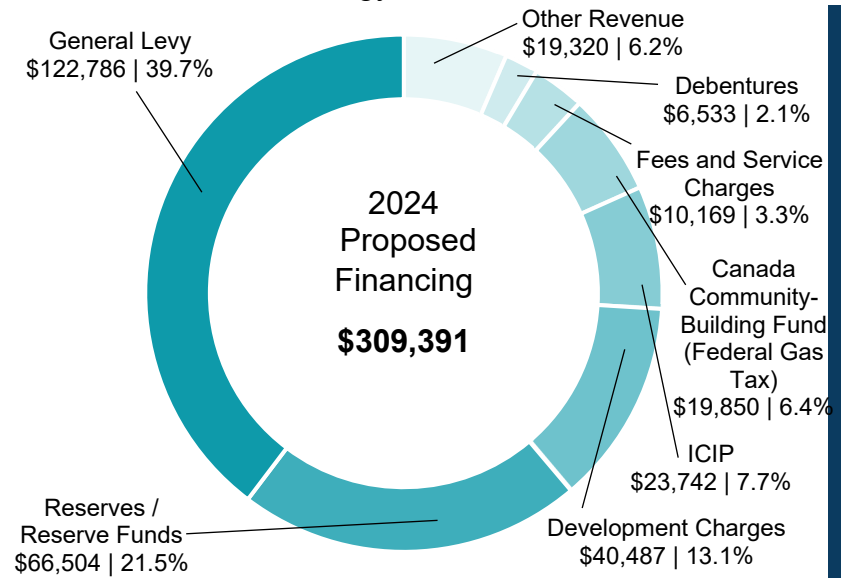
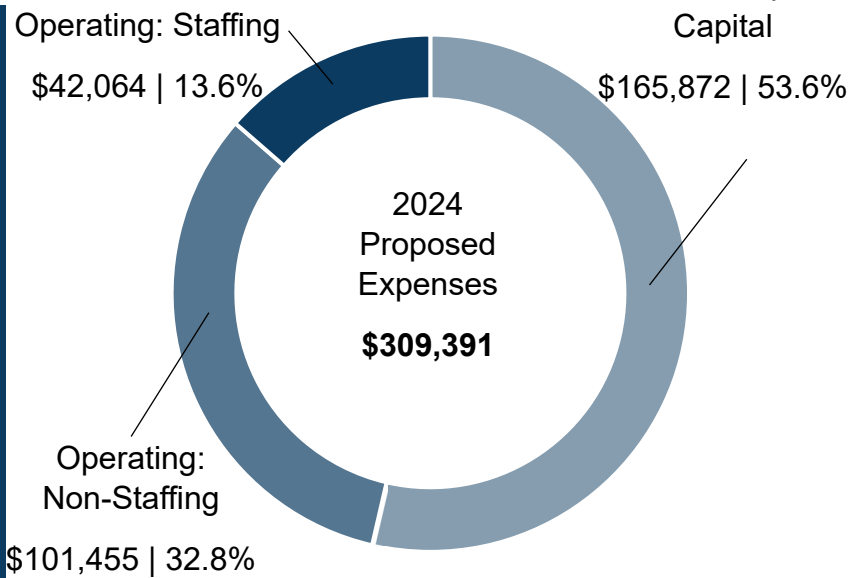


Durham
Budget

2024

WORKS DEPARTMENT

Plans, designs, constructs, operates, and maintains Regional roads, bridges, traffic signals and facilities. Responsible for the collection, processing and disposal of garbage, recyclables and compost, the collection of special waste such as electronic and household hazardous waste, and the operation of the Durham York Energy Centre



Amounts are in \$,000's

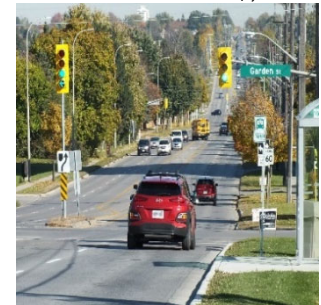


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Appendix D: 2024 - 2033 Solid Waste Management Capital Forecast

Major Programs and Services

Regional Roads and Infrastructure

Winter Control

Reduce the hazards of winter conditions on the Regional road network by responding to winter events in a timely manner, lessening impacts on economic activity and improving quality of life for residents and businesses. Includes snow plowing, salting and anti-icing measures and condition monitoring through road patrols and advanced monitoring technologies to assess and address rapidly changing road conditions. Additional activities include snow removal in commercial areas, drainage, and spring cleanup activities.

Roadside Maintenance

Maintain the Regional road network efficiently and effectively to reduce or eliminate hazards to Regional road users. Includes filling potholes, dust control applications and priming of road shoulders to control erosion, maintaining brush and vegetation, cleaning and regrading ditches, culverts and catch basins, and boulevard maintenance.

Storm Sewers

Maintain and operate the Regional storm sewer collection system efficiently and in a cost-effective manner to prevent unnecessary damage to public and private properties and pollution to the environment. Includes repair of maintenance holes, cleaning, installing and repair of storm sewer service connections within the road allowance and visual and closed-circuit camera inspection of the maintenance holes and sewers.

Traffic Signals and Systems

Install, maintain, and operate the Region's network of traffic control signals and associated devices to support the safe and efficient movement of motorists, cyclists, and pedestrians. Includes the installation and maintenance of traffic control devices and beacons, central traffic control system devices, closed circuit television and associated communication and intelligent transportation systems technology.

Traffic Signs, Markings and Roadside Protection

Improve safety and convenience for the users of the Regional road network while promoting the efficient movement of people and goods. Includes the design, manufacture, and installation of regulatory, warning and information signage, the installation and maintenance of guiderails, detour route and traffic control planning for roadworks and the application of lane line markings.

Major Programs and Services Continued

Traffic Safety

Supports the safe and efficient movement of traffic on the Regional road network through the provision of project management, functional planning and engineering studies, traffic signal design, and custodianship of the Region's Traffic By-laws. Includes the operation of the computerized central traffic control system and the development and management of Intelligent Transportation Systems, administration of the Red-Light Camera and Automated Speed Enforcement programs, undertaking road safety studies and implementation of recommendations supporting the Region's Vision Zero initiative.

Engineering and Staff Support

Support the delivery of capital projects and initiatives through design and construction activities, real estate services including land and lease acquisitions/management to all Regional programs, maintain linear infrastructure data within GIS systems, and provide 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 new Regional, Durham Regional Local Housing Corporation and Durham Regional Police Service facilities and leasehold improvements, lifecycle maintenance and replacement strategies for Regional facilities, corporate security services, and the ongoing and preventative maintenance and overall operation of Regional facilities, properties, and grounds.

Regional Forest

The Regional Forest, consisting of six tracts totaling approximately 598 hectares, is managed under contract by the Lake Simcoe Region Conservation Authority. The forest, a significant environmental asset, provides natural habitat for wildlife, maintenance of water levels and stream flows, prevention of erosion and floods and a space for nature appreciation and use through hiking, walking, cross-country skiing, mountain biking and horseback riding.

Depot Operations

Support the delivery of road maintenance activities including winter control, and roadside and storm sewer repairs and cleaning.

Fleet Operations

Support the acquisition, lifecycle management and maintenance of the Region's fleet of vehicles and equipment, excluding those operated by Durham Regional Police Service and Durham Region Transit. Ensures compliance with the requirements of the Highway Traffic Act and the Commercial Vehicle Operations Registration (CVOR) Program.

Major Programs and Services Continued

Fleet Clearing

Maintain the Region's fleet of vehicles and equipment, excluding those operated by Durham Regional Police Service and Durham Region Transit. Costs accumulated in this program are allocated out to programs and activities through a combination of direct charges and hourly vehicle utilization rates.

Payroll Clearing

Resources that undertake the maintenance of the Region's Road network, traffic signals, line markings, roadside signage and underground water and sewer infrastructure, provide utility locating services, conduct traffic data mapping and analysis and undertake water meter repairs. Costs accumulated in this program are allocated out to various activities within other Works Department maintenance programs through work orders generated for these activities.

Administration

Provide the overall strategic planning and direction to all programs within the Works Department – Regional Roads and Infrastructure.

Debt Service

To fund debt servicing costs for current and future major capital projects.

Headquarters Shared Costs – Regional Roads and Infrastructure Portion

The allocated share of costs attributable to the Works Department – Regional Roads and Infrastructure for the operation of Regional Headquarters facility.

Construction of Municipal Services

Plan, design and construction of the Regional road and infrastructure major capital program.

Solid Waste Management

Oshawa Waste Management Facility

Operate this facility, with the objective of protecting and enhancing the environment by providing a safe, convenient, and cost-effective location to receive residential waste for reuse, recycling, composting or disposal. This location receives and transfers garbage, e-waste, compostable material, municipal hazardous and special waste and delivers a paint re-use program.

Major Programs and Services Continued

Scugog Waste Management Facility

Operate this facility, with the objective of protecting and enhancing the environment by providing a safe, convenient, and cost-effective location to receive residential waste for reuse, recycling, composting or disposal. This location receives and transfers garbage, e-waste, compostable material, and municipal hazardous and special waste.

Brock Waste Management Facility

Operate this facility, with the objective of protecting and enhancing the environment by providing a safe, convenient, and cost-effective location to receive residential waste for reuse, recycling, composting or disposal. This location receives and transfers garbage, e-waste, compostable material, and municipal hazardous and special waste.

Pickering Waste Management Facility

Use of this private waste transfer facility, with the objective of protecting and enhancing the environment by providing a safe, convenient, and cost-effective location to receive municipal hazardous and special waste.

Clarington Environmental Facility

Operate this facility, with the objective of protecting and enhancing the environment by providing a safe, convenient, and cost-effective location to receive municipal hazardous and special waste.

Durham Material Recovery Facility

Operate this facility through a third-party service provider, with the objective of protecting and enhancing the environment through the safe and cost-effective receipt and processing of recycling material collected as part of the curbside program and at the Region's Waste Management Facilities. Recyclable materials processed at this facility are packaged for transport to end markets. This program will be impacted by the transition to extended producer responsibility.

Durham York Energy Centre

Operate this facility through a third-party service provider, providing a local long-term solution for the responsible management and disposal of residual municipal solid waste through thermal treatment for the Regions of Durham and York. Revenue is generated through the sale of materials recovered and energy generated from the thermal process.

Major Programs and Services Continued

Collections, Processing, and Disposal Services

Deliver the Region's curbside waste collection programs to residential, multi-residential and some small businesses. Services delivered across the Region include garbage, blue box, organics and leaf and yard waste collection, along with bulky waste collection and disposal as part of an integrated collection program. The City of Oshawa and Town of Whitby administer their own curbside garbage, green bin, and bulky waste collection services—the Region is responsible for all curbside blue box recycling collection. Collection and processing of blue box material will be impacted by the transition to extended producer responsibility.

Waste Administration

Support the delivery of capital initiatives through design and construction activities, undertaking studies to explore diversion opportunities and manage landfills, oversee contracted services, and provide administrative and technical support to the Region's Solid Waste Management programming.

Administration

Provide the overall strategic planning and direction to all programs within the Works Department – Solid Waste Management.

Facilities Management

Provide overall lifecycle management of all Regional facilities. Includes the design and construction of Regional waste facilities, lifecycle maintenance and replacement strategies, corporate security services, and the ongoing and preventative maintenance and overall operation of Regional facilities, properties, and grounds.

Headquarters Shared Costs - Solid Waste Management Portion

The allocated share of costs attributable to the Works Department – Solid Waste Management for the operation of Regional Headquarters facility.

Regional Corporate Costs

Support services across the organization are provided to support the delivery of Solid Waste Management programs and services. This program also captures the annual reserve fund contribution, setting aside sustainable funding for future solid waste capital and operating initiatives, and to mitigate significant financial impacts.

Major Programs and Services Continued

Waste Management Centre

In partnership with Service Durham, provide support and information to residents related to the Region's Solid Waste Management programs and services. Includes responding to social media, telephone, waste app and email inquiries, providing in-person customer service for bin exchanges and bin and bag tag sales, administering the Region's call-in waste collection services, providing by-law enforcement services, and collecting data and inventory information to support continuous improvement of Durham's waste collection programs.

Community Outreach

Promote and encourage participation in the Region's waste management and waste diversion programs. Includes sharing information on multiple media platforms including radio, television, print, internet, and public space advertising, promoting waste reduction and diversion through the development of school curriculum material and waste facility tours, and through public events including waste fairs, compost events and participation in Waste Reduction Week.

Environmental Studies

Protect and enhance the environment through the management, monitoring, and inspection of former landfill sites within the Region ensuring full environmental compliance. Includes examination of monitoring results, preparation of annual technical reports, undertaking site improvements, ground and surface water testing and undertaking any amendments to Environmental Compliance Approvals for landfill and waste management facility operations.

Blue Box Revenues and Subsidies

Includes the proceeds from the sale of newspaper, cardboard, steel, aluminum, and glass to end markets, along with Stewardship Ontario's Resource Productivity and Recovery Authority funding. This program will be impacted by the transition to extended producer responsibility.

Major Capital Projects

Consolidated capital program for Solid Waste Management.

Strategic Priorities

For 2024 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. 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 of workplace for all projects related to the construction or renovation/retrofit of Regional facilities



Continued efforts to develop a long-term food and organic waste management strategy; converting the Region's contracted waste management fleet to renewable natural gas fueling; and promoting the use of recycled materials in construction projects



Protect, preserve and restore the natural environment including greenspaces, waterways, parks, trails, and farmlands by exploring alternative winter de-icing materials to minimize salt impacts; integrating environmentally sensitive solutions and practices; increasing restoration measures for impacted areas from construction projects; continue controlled-harvest practices in all Durham Region Forest tracts; and ensuring site plan development preserve natural features and favour native plant restoration



Demonstrate leadership in sustainability and climate change action by mitigating the environmental impacts of projects and continuing to showcase environmental awareness and the importance of Regional assets, such as the Regional Forest. The continued focus on mitigation and improvement to the environment, as demonstrated by the redevelopment and delivery of deep energy retrofit work at various Durham Regional Local Housing Corporation sites, 101 Consumers Road and 300 Ritson Road South facility

Strategic Priorities Continued



Expand sustainable and active transportation by promoting transit and cycling; identifying and prioritizing road maintenance and winter response on primary cycling routes; embracing sustainable urban design principles; increasing availability of EV charging stations at Regional facilities; and exploring alternative fuels for the Regional fleet. The Region has installed 109 charging stations to date at various locations, with 59 dedicated to fleet/workplace charging. Lead the design and construction of the Durham Region Transit Maintenance facility on Thornton Road North in Oshawa. This facility will support a full fleet of zero emission vehicles while aiming for high energy standards that will allow it to be a net-zero energy building



Support rapid transit initiatives through the design and construction of dedicated transit lanes on Regional Roads. Continued support through the Rapid Transit Office and Corporate Real Estate for the implementation of Bus Rapid Transit on Highway 2



Implement measures aimed towards increasing organic and recyclable materials from curbside collection activities through ongoing community outreach, including ongoing education programs at the elementary, secondary and post-secondary level

Community Vitality



Revitalize existing neighbourhoods and build complete communities that are walkable, well-connected, and have a mix of attainable housing through the expansion of the Regional cycling network. In support of Durham Regional Local Housing Corporation, staff are engaged in the redevelopment and revitalization of community housing sites that will maximize transit-oriented development opportunities. Awarded the Request for Proposal for consulting services for the community needs assessment and conceptual site master plans for the 300 Ritson Road project and hosted public consultation meetings with businesses, service providers and residents

Strategic Priorities Continued



Enhance community safety and well-being with improvements to road traffic safety by advancing projects that are part of the Durham Vision Zero initiative



Support diversity and inclusion through updated building amenities and accessibility improvements, including the construction of all gender washroom facilities and wellness amenities and the installation of a lift between the lower galleria and upper galleria in Regional Headquarters



Position Durham Region as the location of choice for business by servicing strategic Employment Lands; and planning for growth

Economic Prosperity



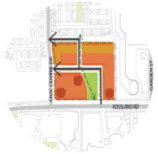
Better connect people and move goods more effectively by constructing and maintaining an efficient goods movement network; supporting the Bowmanville GO extension, Highway 2 Bus Rapid Transit and Simcoe Street Rapid Transit networks; and rationalizing the Region's building footprint through ongoing Master Accommodation Planning, centralizing Regional services at strategic facilities to reduce travelling time and increasing convenience for residents



Expedite the delivery of high-speed internet services to the rural and underserved communities across Durham Region by leveraging and expanding upon the existing Traffic Operations fibre network and supporting broadband construction being led by Durham OneNet Inc.

Strategic Priorities Continued

Social Investment



Support the preparation of various grant applications for funding of projects related to the deep energy retrofits and building improvements within the Durham Region Local Housing Corporation portfolio. Completed building envelope improvements to Durham Region Local Housing Corporation (DRLHC) facilities at 155 King Street and 655 Harwood Avenue



Collaborate with departments and community organizations to advance housing supports across the Region, including the continued construction of the Beaverton Supportive Housing facility with substantial performance expected for summer 2024. Facilitated the purchase and refurbishment of the former Sunnycrest Long-Term care home (1635 Dundas) to accommodate 45 low-barrier shelter beds in the short term and future housing options to address the increased homelessness within the Region

Service Excellence



Optimize resources and partnerships to deliver exceptional quality services and value by continuing a “customer first” focus. Shifting more services to an omnichannel service delivery mode as part of the MyDurham311 project. Continuation of Phase 2 of the Workplace Modernization and Optimization project at Regional Headquarters, which includes the consolidation of front counter space on the main level of the building to improve customer access and building security



Demonstrate commitment to continuous quality improvement and transparency through public engagement on all major public works initiatives in real time

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; continued expansion of the Region's Traffic Watch map tool to incorporate other activities such as real time snowplow routes and water main break repair updates

Key Targets for 2024

Regional Roads and Infrastructure

- Maintain over 2,400 lane kilometres of paved road surface
- Maintain over 240 bridges and culverts greater than 3 metres
- Maintain 335 kilometres of Regional storm sewers which includes over 5,300 maintenance holes, over 6,200 catch basins and 490 inlets/outlets
- Maintain and operate over 680 traffic signals across the Region, with Accessible Pedestrian Signals installed at 228 locations
- Rotate 6 mobile cameras through 36 Automated Speed Enforcement sites and operate 10 fixed location Automated Speed Enforcement cameras (includes 2 new fixed locations to be added in 2024). Administer 12 Red Light Camera sites; Vision Zero collision reduction goal is a 10% reduction in fatal injury collision over a 5-year period
- Apply 4,804 kilometres of line painting and pavement markings on Regional roads
- Maintain and operate over 460,000 square metres of facility space
- Construction funding for 19.3 centreline kilometres of new cycling facilities included with Region road projects

Solid Waste Management


- Serve 325,000 visitors at the Region's Waste Management facilities
- Collect 30,000 tonnes of material at the Region's Waste Management facilities
- Recycle, compost or re-use 6,250 tonnes of material collected at the Region's Waste Management facilities
- Process 20,350 tonnes of recyclable materials through the Region's Material Recovery Facility
- Generate 110,550 megawatts of energy at the Durham York Energy Centre
- Collect 23,100 tonnes of recyclable material through the curbside blue box recycling program

Key Targets for 2024

- Collect 67,800 tonnes of organic material through the curbside green bin and leaf and yard waste programs
- Collect 118,500 tonnes of garbage material through the curbside program
- Complete 90,000 public interactions through the Waste Management Centre
- Reach 4,000 students through school engagement activities
- Deliver communications regarding waste programs including:
 - 1,500 radio advertisements;
 - 500 television advertisements;
 - 145,000 Durham Waste mobile app installation; and
 - Over 1 million digital impressions promoting various waste campaigns


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

Provides the gross expenditures and revenues - including both operating and capital - and the resulting net property tax requirement

 Durham Budget	2024	2023 Estimated Actuals	2023 Approved Budget	2024 Proposed Budget	Variance	
					\$	%
Expenses						
Operating Expenses						
Personnel Expenses		38,446	39,733	42,064		
Personnel Related		1,645	1,631	2,139		
Communications		1,621	1,541	1,394		
Supplies		2,612	1,939	3,058		
Utilities		754	740	772		
Computer Maintenance & Operations		439	364	444		
Materials & Services		12,289	13,010	12,621		
Buildings & Grounds Operations		2,211	1,838	2,039		
Equipment Maintenance & Repairs		560	525	514		
Vehicle Operations		10,291	9,006	10,244		
Debt Charges		-	-	1,547		
Professional Services		2,559	2,431	2,502		
Contracted Services		69,359	70,187	63,744		
Leased Facilities Expenses		193	193	327		
Financial Expenses		614	591	787		
Property Taxes		1,059	1,049	1,077		
Minor Assets & Equipment		100	100	150		
Major Repairs & Renovations		318	306	252		
Contribution to Reserves / Reserve Funds		6,628	6,628	9,735		
Headquarters Shared Costs		1,283	1,283	1,632		
Operating Expenses Subtotal		152,981	153,095	157,042	3,947	2.6%


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

Provides the gross expenditures and revenues - including both operating and capital - and the resulting net property tax requirement


	2023 Estimated Actuals	2023 Approved Budget	2024 Proposed Budget	Variance	
				\$	%
Internal Transfers & Recoveries					
NextGen Charges	26	26	28		
Communication Charge	72	72	50		
Departmental Charges	1,544	1,544	1,551		
Corporate HR Charge	50	50	50		
Works - General Tax Charge	338	338	338		
Works - Ajax WSP	2	2	-		
Recovery - Social Housing	(134)	(134)	(138)		
Recovery - Regional Environmental Lab	(50)	(50)	(50)		
Recovery - Fleet	(14,474)	(14,474)	(15,352)		
Internal Transfers & Recoveries Subtotal	(12,626)	(12,626)	(13,523)	(897)	(7.1%)
Gross Operating Expenses	140,355	140,469	143,519	3,050	2.2%
Capital Expenses					
New	15,773	15,773	1,365		
Replacement	14,866	14,866	16,769		
Major Capital	184,278	184,278	147,738		
Capital Expenses Subtotal	214,917	214,917	165,872	(49,045)	(22.8%)
Total Expenses	355,272	355,386	309,391	(45,995)	(12.9%)
Operating Revenue					
Provincial Subsidy General	(8,125)	(8,267)	(4,018)		
Fees & Service Charges	(11,142)	(12,136)	(10,169)		
Sale of Publications	(1,081)	(1,081)	(782)		
Rents	(55)	(55)	(510)		
Sundry Revenue	(7,520)	(8,441)	(8,612)		
Revenue from Municipalities	(4,735)	(4,878)	(4,995)		
Investment & Interest Income	(110)	(110)	(110)		
Development Charge Revenues-DC Debt	-	-	(727)		
Reserve Fund Financing for Operations	(9)	(9)	(9)		
Revenue from Related Entities	(320)	(320)	(293)		
Operating Revenue Subtotal	(33,097)	(35,297)	(30,225)	5,072	14.4%

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

Provides the gross expenditures and revenues - including both operating and capital - and the resulting net property tax requirement

 Durham Budget 2024		2023 Estimated Actuals	2023 Approved Budget	2024 Proposed Budget	Variance	
					\$	%
Capital Financing						
ICIP Grant		(57,665)	(57,665)	(23,742)		
Roads - Residential DC		(41,108)	(41,108)	(33,584)		
Roads - Commercial DC		(4,698)	(4,698)	(4,974)		
Roads - Industrial DC		(5,000)	(5,000)	(641)		
Roads - Institutional DC		-	-	(561)		
Canada Community-Building Fund (Federal Gas Tax)		(18,275)	(18,275)	(19,850)		
Equipment Replacement Reserve		(7,679)	(7,679)	(15,042)		
Regional Roads Reserve		(8,892)	(8,892)	(9,424)		
Transit Capital Reserve Fund		(7,474)	(7,474)	(544)		
Waste Management Reserve Fund		(1,000)	(1,000)	(4,000)		
Roads Rehabilitation Reserve Fund		(27,710)	(27,710)	(27,710)		
Bridge Rehabilitation Reserve Fund		(5,525)	(5,525)	(7,800)		
Capital Impact Stabilization Reserve Fund		(5,847)	(5,847)	(1,325)		
Vision Zero Reserve Fund		(675)	(675)	(650)		
Recoveries from Others		(55)	(55)	-		
Region of Durham Debenture		(15,667)	(15,667)	(6,533)		
Capital Financing Subtotal		(207,270)	(207,270)	(156,380)	50,890	24.6%
Total Revenues and Financing		(240,367)	(242,567)	(186,605)	55,962	23.1%
Property Tax Requirement Works Department		114,905	112,819	122,786	9,967	8.8%

Financial Details: Summary by Program (\$,000's)
Provides the total operating expense, capital expense, subsidy, other revenue and the resulting property tax requirement for each major program and service

 Durham Budget 2024		2023 Estimated Actuals	2023 Restated Budget (000)'s				2024 Proposed Budget (000)'s					Variance		
			Operating Expenses	Gross Capital	Subsidy Funding	Other Funding	Approved Budget	Operating Expenses	Gross Capital	Subsidy Funding	Other Funding	Proposed Budget	\$	%
Works - General Tax														
1	Winter Control	11,090	11,803	-	-	-	11,803	12,205	-	-	-	12,205	402	
2	Roadside Maintenance	6,406	5,199	-	-	(85)	5,114	6,104	-	-	(113)	5,991	877	
3	Storm Sewers	292	198	-	-	(3)	195	218	-	-	(3)	215	20	
4	Traffic - Signals and Systems	5,299	5,708	-	-	(1,712)	3,996	5,774	-	-	(1,753)	4,021	25	
5	Traffic - Signs, Markings and Roadside Protection	2,832	3,856	-	-	(1,058)	2,798	4,170	-	-	(973)	3,197	399	
6	Traffic - Safety	3,508	3,527	-	-	(39)	3,488	3,954	-	-	(22)	3,932	444	
7	Engineering and Staff Support	7,719	8,806	381	-	(787)	8,400	8,926	1,020	-	(625)	9,321	921	
8	Facilities Management	4,939	5,197	21,672	-	(21,570)	5,299	5,322	1,018	-	(188)	6,152	853	
9	Regional Forest	-	237	-	-	(237)	-	354	-	-	(354)	-	-	
10	Depot Operations	5,777	5,907	21	-	(337)	5,591	7,056	521	-	(350)	7,227	1,636	
11	Fleet Operations	-	(6)	7,685	-	(7,679)	-	-	15,043	-	(15,043)	-	-	
12	Fleet Clearing	-	-	-	-	-	-	-	-	-	-	-	-	
13	Payroll Clearing	-	-	-	-	-	-	-	-	-	-	-	-	
14	Administration	383	505	-	-	-	505	1,334	-	-	-	1,334	829	
15	Debt Service	-	-	-	-	-	-	1,547	-	-	(727)	820	820	
16	Headquarters Shared Cost - Works - General Tax Portion	767	767	-	-	-	767	1,105	-	-	-	1,105	338	
17	Construction of Municipal Services	6,200	-	183,278	-	(177,078)	6,200	-	143,538	-	(137,338)	6,200	-	
Works - General Tax Subtotal		55,212	51,704	213,037	-	(210,585)	54,156	58,069	161,140	-	(157,489)	61,720	7,564	14.0%

Solid Waste Management

WASTE MANAGEMENT FACILITIES:


1	Oshawa Waste Management Facility	355	3,383	257	(317)	(2,986)	337	3,277	107	(213)	(3,385)	(214)	(551)	
2	Scugog Waste Management Facility	(45)	998	-	(157)	(853)	(12)	1,039	-	(23)	(1,010)	6	18	
3	Brock Waste Management Facility	102	632	-	(119)	(369)	144	611	150	(21)	(533)	207	63	
4	Pickering Waste Management Facility	84	202	-	(112)	(11)	79	340	-	(87)	(5)	248	169	
5	Clarington Waste Management Facility	111	255	-	(111)	(34)	110	255	-	(33)	(51)	171	61	
6	Durham Material Recovery Facility	-	369	-	-	(369)	-	215	-	-	(670)	(455)	(455)	
7	Durham York Energy Centre	11,162	24,148	-	-	(13,254)	10,894	23,896	22	-	(13,272)	10,646	(248)	

Financial Details: Summary by Program (\$,000's)
Provides the total operating expense, capital expense, subsidy, other revenue and the resulting property tax requirement for each major program and service

	2023 Estimated Actuals	2023 Restated Budget (000)'s					2024 Proposed Budget (000)'s					Variance	
		Operating Expenses	Gross Capital	Subsidy Funding	Other Funding	Approved Budget	Operating Expenses	Gross Capital	Subsidy Funding	Other Funding	Proposed Budget	\$	%
8 Collection Services													
(a) Garbage	7,076	6,841	-	-	-	6,841	8,328	-	-	-	8,328	1,487	
(b) Blue Box Curbside Recycle	14,140	13,859	-	-	-	13,859	7,899	-	-	-	7,899	(5,960)	
(c) Composting	5,238	5,049	-	-	-	5,049	6,460	-	-	-	6,460	1,411	
(d) Other Diversion	227	227	-	-	-	227	288	-	-	-	288	61	
8 Processing and Disposal Services													
(a) Garbage	2,754	2,866	-	-	-	2,866	2,817	-	-	-	2,817	(49)	
(b) Blue Box Curbside Recycle	5,195	6,179	-	-	-	6,179	2,927	-	-	-	2,927	(3,252)	
(c) Composting	9,225	8,986	-	-	-	8,986	8,500	-	-	-	8,500	(486)	
(d) Other Diversion	(17)	31	-	(21)	(27)	(17)	35	-	(3)	(28)	4	21	
(e) Diversion Promotional Items	477	477	-	-	-	477	405	-	-	-	405	(72)	
(f) Waste Composition Study	-	-	-	-	-	-	-	-	-	-	-	-	
9 Waste Administration	4,261	4,573	60	-	(22)	4,611	5,079	225	-	(22)	5,282	671	
10 Administration	504	503	-	-	-	503	742	-	-	-	742	239	
11 Facilities Management	3,021	2,458	563	-	-	3,021	2,616	28	-	-	2,644	(377)	
12 Headquarters Shared Cost - Works - Solid Waste Management Portion	516	516	-	-	-	516	527	-	-	-	527	11	
13 Regional Corporate Costs	3,718	3,828	-	-	(110)	3,718	6,212	-	-	(110)	6,102	2,384	
14 Waste Management Centre	672	786	-	-	(114)	672	1,778	-	-	(464)	1,314	642	
15 Community Outreach	625	625	-	-	-	625	625	-	-	(53)	572	(53)	
16 Environmental Studies	395	395	-	-	-	395	395	-	-	-	395	-	
17 Blue Box Recoveries & Subsidies:													
(a) Industry Funding	(7,433)	-	-	(7,430)	-	(7,430)	-	-	(3,638)	-	(3,638)	3,792	
(b) Revenues - Diversion Materials	(2,670)	579	-	-	(4,566)	(3,987)	184	-	-	(1,495)	(1,311)	2,676	
18 Major Capital Projects	-	-	1,000	-	(1,000)	-	-	4,200	-	(4,000)	200	200	
Solid Waste Management Subtotal	59,693	88,765	1,880	(8,267)	(23,715)	58,663	85,450	4,732	(4,018)	(25,098)	61,066	2,403	4.1%
Property Tax Requirement Works Department	114,905	140,469	214,917	(8,267)	(234,300)	112,819	143,519	165,872	(4,018)	(182,587)	122,786	9,967	8.8%


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 Budget	2024	2023 Approved Budget	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
Regional Roads and Infrastructure									
Capital Expenditures									
Road / Structure Construction - Growth		39,570	26,524	91,655	160,475	175,020	159,565	1,307,728	1,894,443
Traffic Control & Other Programs - Growth		6,580	5,135	5,030	5,120	4,775	4,730	24,540	44,195
Transportation Plans & Studies - Growth		150	500	250	150	150	150	750	1,450
Bus Rapid Transit Implementation		78,638	32,377	23,500	-	-	58,000	-	81,500
Road Rehabilitation/Reconstruction Projects		38,660	38,660	47,000	47,000	47,000	47,000	235,000	423,000
Structure Rehabilitation / Replacement		13,725	18,060	32,285	24,000	22,720	12,485	45,435	136,925
Traffic Control & Other Programs - Non-Growth		3,740	5,265	3,740	3,390	3,410	3,320	18,705	32,565
Road & Traffic Safety Program (Vision Zero)		1,675	1,450	1,300	1,615	800	800	4,000	8,515
Cycling Infill Projects		540	900	900	1,000	1,000	1,000	8,500	12,400
Building & Structures		21,662	15,672	69,170	456	2,467	1,032	2,243	75,368
Machinery & Equipment		51	40	296	58	11	45	115	525
Information Technology Infrastructure		357	263	865	306	285	371	1,330	3,157
Vehicles		7,679	16,169	3,571	4,748	1,902	7,606	16,595	34,422
Furniture & Fixtures		10	125	20	11	10	11	10	62
Capital Expenditure Subtotal		213,037	161,140	279,582	248,329	259,550	296,115	1,664,951	2,748,527

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


	2023 Approved Budget	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033	
Capital Financing								
General Levy	6,767	8,760	8,863	7,035	7,001	7,574	32,571	63,044
Equipment Replacement Reserve	7,679	15,042	2,259	4,571	1,814	7,501	16,479	32,624
Capital Impact Stabilization Reserve Fund	5,847	1,325	-	-	-	-	-	-
Roads Rehab Reserve Fund	27,710	27,710	45,955	45,605	43,710	34,385	157,040	326,695
Bridge Rehab Reserve Fund	5,525	7,800	5,525	5,525	5,525	5,525	27,625	49,725
Regional Roads Levy	8,892	9,424	17,199	25,724	41,587	41,981	315,561	442,052
Vision Zero Reserve Fund	675	650	500	814	-	-	-	1,314
Transit Capital Reserve Fund	7,474	544	313	-	-	16,690	-	17,003
Residential Development Charges	41,108	33,584	66,012	111,344	111,400	130,033	820,771	1,239,560
Commercial Development Charges	4,698	4,974	13,557	16,551	16,560	19,329	122,007	188,004
Institutional Development Charges	-	561	4,277	1,158	1,310	1,439	8,613	16,797
Industrial Development Charges	5,000	641	9,860	12,037	12,043	14,058	76,284	124,282
Canada Community-Building Fund (Federal Gas Tax)	18,275	19,850	23,525	17,965	17,600	17,600	88,000	164,690
Bus Rapid Transit Implementation	57,665	23,742	17,233	-	-	-	-	17,233
Recoveries From Others ¹	55	-	2,725	-	1,000	-	-	3,725
Debentures - User Rate Funded	15,667	6,533	61,779	-	-	-	-	61,779
Capital Financing Subtotal	213,037	161,140	279,582	248,329	259,550	296,115	1,664,951	2,748,527
Total Capital Regional Roads and Infrastructure	213,037	161,140	279,582	248,329	259,550	296,115	1,664,951	2,748,527

¹ Recoveries from Others includes:

- 2023 - \$55 thousand in contributions from CN Rail
- 2025 - \$2.625 million in contributions from CN Rail
- 2025 - \$100 thousand in contributions from the County of Simcoe
- 2027 - \$1.0 million in contributions from the County of Simcoe

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 Budget	2024	2023 Approved Budget	2024 Proposed Budget	Forecast				Forecast Total	
				2025	2026	2027	2028		2029-2033
Solid Waste Management									
Capital Expenditures									
Building & Structures		1,510	4,226	8,501	6,890	15,450	1,385	192,600	224,826
Machinery & Equipment		310	278	279	257	107	107	535	1,285
Information Technology Infrastructure		60	53	108	54	91	108	280	641
Vehicles		-	175	300	-	1,080	-	-	1,380
Landfill Remediation / Rehabilitation		-	-	950	2,325	525	6,698	3,400	13,898
Capital Expenditure Subtotal		1,880	4,732	10,138	9,526	17,253	8,298	196,815	242,030
Capital Financing									
General Levy		880	732	2,188	1,126	1,628	1,600	815	7,357
Waste Management Reserve Fund		1,000	4,000	7,950	8,111	15,259	6,698	41,920	79,938
Canada Community-Building Fund (Federal Gas Tax)		-	-	-	-	-	-	13,289	13,289
Residential Development Charges		-	-	-	289	366	-	-	655
Debentures		-	-	-	-	-	-	140,791	140,791
Capital Financing Subtotal		1,880	4,732	10,138	9,526	17,253	8,298	196,815	242,030
Total Capital Solid Waste Management		1,880	4,732	10,138	9,526	17,253	8,298	196,815	242,030
Total Capital Works Department		214,917	165,872	289,720	257,855	276,803	304,413	1,861,766	2,990,557

Details of Budget Changes

Strategic Investments: Regional Roads and Infrastructure	2024 Impact (\$ 000's)
Staffing provision to ensure availability of resources required to address increasing demands for services and a growing infrastructure base	735
New impact of 1.25 FTEs approved in year. Details are provided in the Staffing Details section	45
Undertake a service review in partnership with Area Municipalities to explore opportunities to improve the quality of developer installed noise barriers along Regional road corridors by proposing the adoption of higher minimum standards (Report 2023-COW-33)	100
Mandatory cyclical training including both catch-up training delayed by the COVID-19 pandemic and current training required by staff	505
Increase in contribution to the Works Equipment Reserve to ensure sustainability of the resources for future vehicle and equipment replacements	737
Incremental investment in Major Repairs and Renovations (\$15k) and Minor Assets & Equipment (\$50k)	65
Net increase investment in capital – see Appendix A for detailed project listing	1,993
Strategic Investments: Regional Roads and Infrastructure Subtotal	4,180

Details of Budget Changes Continued

Base Adjustments: Regional Roads and Infrastructure	2024 Impact (\$ 000's)
Economic Increases	1,246
Annualization of 21.594 FTEs approved in the 2023 budget	800
Realignment of staffing resources to reflect effort on priority activities and capital works resulting in a net decrease in payroll costs in General Tax program areas (-2.171 FTE)	(686)
Inflationary increases including vehicle repairs and maintenance (\$1,261k), program materials and supplies (\$224k) insurance (\$56k), software maintenance and licenses (\$81k), utilities (\$27k), salt and snow removal (\$36k)	1,685
Line-by-line savings	(519)
Increase in debt servicing costs for debt financing approved in 2023 budget for the modernization of the Ajax, Oshawa/Whitby and Sunderland Depots (\$1,547k). Development Charges will fund \$727k of these debt servicing costs with the balance of \$820k from property taxes	820
Increase in Work's – Regional Roads and Infrastructure share of costs for the operation and maintenance of Regional Headquarters	38
Base Adjustments: Regional Roads and Infrastructure Subtotal	3,384
Net Changes: Regional Roads and Infrastructure	7,564

Details of Budget Changes Continued

Strategic Investments: Solid Waste Management	2024 Impact (\$ 000's)
New positions – details of the 0.25 FTEs are provided in in the Staffing Details section	45
Staffing provision to ensure availability of resources required to address increasing demands for services and a growing infrastructure base	200
Increase in DYEC operating costs (\$481k) and a reduction in revenue from sales of recovered materials (\$297k) due to lower commodity pricing. This is offset by a projected increase in electricity revenue (-\$215k) and an increase in the recovery from York Region (-\$100k). A decrease in projected by-passed tonnes (-\$711k) that is partially attributable to the introduction of the enhanced green bin program (this savings of \$521k is reflected in the bullet below)	273
Net savings of \$2,370k for Waste Management Services due to the Region's planned transition to the Extended Producer's Responsibility program effective July 1, 2024, and the launch of the enhanced green bin program. The savings have been used to partially fund the significant capital improvements at the Oshawa Waste Management facility in 2024 estimated at \$4.0 million. Future annual net savings will be used to fund large capital projects including the construction of an anaerobic digestion/pre-sort facility	-
Net revenue adjustments due to user rate increase and subsidy reductions	(331)
Net decrease in capital – see Appendix C for detailed project listing	(169)
Strategic Investments: Solid Waste Management Subtotal	18

Details of Budget Changes Continued

Base Adjustments: Solid Waste Management	2024 Impact (\$ 000's)
Economic increases	381
Annualization of 0.36 FTEs approved in the 2023 budget	23
Inflationary increases including waste processing and collection contracted services (\$1,922k), grounds maintenance (\$67k), insurance (\$28k)	2,153
Line-by-line savings	(183)
Increase in Work's – Solid Waste Management share of costs for the operation and maintenance of Regional Headquarters	11
Base Adjustments: Solid Waste Management Subtotal	2,385
Net Changes: Solid Waste Management	2,403
Net Changes: Works Department	9,967

Staffing Details

Regional Roads and Infrastructure

**Full Time Equivalents
(FTE's)**

2023 Approved Complement

454.698

Positions Approved In-Year

Program Manager, Indigenous Implementation to strengthen relationships with the Indigenous communities and lead the consultation for development and implementation of regional road project engagement plans. (Note: this position is shared with Sanitary Sewerage, Water Supply, and Waste Management). (Note this position was approved in-year in accordance with Section 8.1 of the Budget Management Policy)

0.250

Works Technician 5 – conversion of a temporary position to a permanent position to support the advancement of building high-speed broadband infrastructure across the Region. The cost for this position is fully recovered from Durham OneNet Inc. (Note: This position conversion was approved in-year in accordance with Section 8.1 of the Budget Management Policy)

1.000

Total Positions Approved In-Year

1.250

Proposed Position Transfers

Maintenance Depot supervisory positions were previously budgeted in Works General Tax with a portion of costs allocated to various water and sewer activities. For the 2024 budget, these positions have been transferred directly to the various water and sewer activities eliminating the need for allocation administration. There is no financial impact resulting from this change

(13.970)

Staffing Details Continued

Realignment of staff resources to reflect actual effort on activities resulting in a net decrease in full-time equivalent staff charged to General Tax programs areas. (Note: the net adjustments for these positions between funds is zero. General Tax - 2.171 FTEs; Sanitary Sewerage + 1.526 FTEs; Water Supply + 0.74 FTEs; Solid Waste - 0.095 FTEs) (2.171)

Support Clerk (0.366 FTE) and Clerk 3 (3.0 FTEs) transferred to Service Durham to centralize and improve the customer experience across all channels within the Region (3.366)

Total Proposed Position Transfers (19.507)

Regional Roads Infrastructure Subtotal 436.441

Solid Waste Management

**Full Time Equivalents
(FTE's)**

2023 Approved Complement 73.825

Positions Approved In-Year

Program Manager, Indigenous Implementation to strengthen relationships with the Indigenous communities and lead the consultation for development and implementation of waste capital infrastructure project engagement plans. (Note: this position is shared with Sanitary Sewerage, Water Supply, and General Tax). (Note this position was approved in-year in accordance with Section 8.1 of the Budget Management Policy) 0.250

Total Positions Approved In-Year 0.250

Staffing Details Continued

Proposed Position Transfers

Realignment of staff resources to reflect actual effort on activities resulting in a net decrease in full-time equivalent staff charged to Solid Waste programs areas. (Note: the net adjustments for these positions between funds is zero. General Tax - 2.171 FTEs; Sanitary Sewerage + 1.526 FTEs; Water Supply + 0.74 FTEs; Solid Waste - 0.095 FTEs) (0.095)

Total Proposed Position Transfers	<u>(0.095)</u>
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Solid Waste Management Subtotal	73.980
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Total Complement: Works Department	510.421
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Looking Forward

The Works Department provides public infrastructure and services including Regional roads, reliable solid waste services, and support for residents, businesses, and institutions so that healthy and sustainable communities thrive. To support these commitments the Region continues to modernize operations through a variety of initiatives including:

- Ongoing implementation of Vision Zero safety plan initiatives;
- Implementing climate mitigation and GHG reduction strategies and measures, including a proposed green roof at Regional Headquarters, piloting of low water/low mow and naturalized landscaping at Regional locations, conversion of the Region's fleet of vehicles and equipment to lower carbon options and pursuing deep energy retrofit projects;
- 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;
- Expansion and renewal of Regional infrastructure to ensure service levels keep pace with growth;
- Continued delivery of projects supporting the Community Housing Portfolio Revitalization work, advancing the At Home In Durham goals and objectives, and implementing the facility recommendations for various master plans, including the Master Plan for Paramedic Services, the Transit Master Plan, and the Depot Modernization and Rationalization plan;
- The utilization of technology such as artificial intelligence, sensors, 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 addition of permits to the system;
- Utilizing asset lifecycle data to forecast state of good repair needs for Regional assets collected through the Enterprise Maintenance Management System;
- Ongoing Workplace Modernization work, including construction of Phases 2 and 3 at Regional Headquarters, review and rationalization of the current building portfolio and implementation of Workplace Modernization principles;
- Introduction and expansion of advanced technologies and countermeasures to relieve traffic congestion; and

Looking Forward Continued

- 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.

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div>DURHAM REGION</div></div><div>Durham Budget</div></div></div> <div>2024</div>		Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033	
Regional Roads and Infrastructure																
Road / Structure Construction - Growth																
5	Reg. Rd. 1, Brock Rd. / Goodwood Rd. Intersection, Reconstruct to a roundabout, Uxbridge	-	-	-	165	-	-	69	466	-	-	-	700	701	9,150	10,551
26	Reg. Rd. 4, Taunton Rd. / Anderson St. Intersection, Intersection modifications at Taunton Rd. / Anderson St. including Taunton Rd. / DDSB and Taunton Rd. / DRPS entrances, Whitby	-	-	-	103	-	-	44	293	-	-	-	440	4,620	-	5,060
28	Reg. Rd. 4, Taunton Rd. from 0.4 km west of Solina Rd. to 0.2 km west of Bowmanville Ave., Reconstruct and modify intersection to a roundabout (Combined with rehab item 139), Clarington	-	-	-	59	-	-	25	166	-	-	-	250	-	5,500	5,750
32	Reg. Rd. 14, Liberty St. from Baseline Rd. to King St., Widen road from 2 to 3 lanes. Associated water supply and sanitary sewer works, Clarington	-	-	-	122	-	-	23	155	-	-	-	300	2,200	7,650	10,150
34	Reg. Rd. 14, Liberty St. from Longworth Ave. to Concession Rd. 3, Reconstruct and modify intersection to a roundabout at Concession Rd. 3 and signalization and modifications at Freeland Ave. - Bons Ave. (combined with road rehab item) Associated water supply works, Clarington	-	-	-	282	-	-	119	799	-	-	-	1,200	6,360	-	7,560
38	Reg. Rd. 16, Ritson Rd. from north of Taunton Rd. to Conlin Rd., Widen road from 2 / 3 to 5 lanes, Oshawa	-	-	-	377	-	-	216	1,457	-	-	-	2,050	1,352	19,100	22,502
58	Reg. Rd. 23, Lake Ridge Rd. from Bayly St. to Kingston Rd. - Dundas St., Widen road from 2 to 4 / 5 lanes, Ajax / Whitby	-	-	-	1,608	-	-	827	5,565	-	-	-	8,000	3,410	5,000	16,410
63	Reg. Rd. 26, Thickson Rd. from Wentworth St. to C.N. Rail Kingston, Reconstruct and widen road from 2 to 4 lanes, Whitby	-	-	-	324	-	-	62	414	-	-	-	800	7,300	-	8,100

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div><div></div><div>DURHAM REGION</div></div><div><div>Durham</div><div>Budget</div></div></div><div>2024</div></div></div>		Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033	
			Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy					
65	Reg. Rd. 26, Thickson Rd. / Rossland Rd. Intersection, Reconstruct and modify intersection, Whitby	-	-	-	1,410	-	-	594	3,996	-	-	-	6,000	996	-	6,996
72	Reg. Rd. 28, Rossland Rd. / Garden St. Intersection, Intersection modifications, Whitby	-	-	-	125	-	-	52	353	-	-	-	530	2,329	4,150	7,009
77	Reg. Rd. 31, Westney Rd. from Finley Ave. to Harwood Ave., Intersection modifications at Finley Ave., Monarch Ave., and Harwood Ave. (combined with road rehab item 159) Associated water supply works, Ajax	-	-	-	24	-	-	10	70	-	-	-	104	700	3,225	4,029
82	Reg. Rd. 33, Harmony Rd. from Conlin Rd. to Britannia Ave., Widen road from 2 to 4 lanes, Oshawa	-	-	-	98	-	-	46	306	-	-	-	450	-	8,455	8,905
92	Reg. Rd. 38, Whites Rd. from Finch Ave. to approximately 0.3 km south of Third Concession Rd., Widen road from 2 to 6 lanes to add HOV lanes, with new CPR grade separation, Pickering	-	-	-	474	-	-	288	1,938	-	-	-	2,700	1,200	45,000	48,900
93	Reg. Rd. 38, Whites Rd. from south of Third Concession Rd. to Taunton Rd., Construct new alignment to 6 lanes to add through lanes and HOV lanes, with new bridge crossing of West Duffins Creek. The Region's portion shown is for 1% of the project cost. Seaton Landowners responsible for 99% of the project cost, Pickering	-	-	-	79	-	-	54	367	-	-	-	500	400	1,500	2,400
105	Reg. Rd. 57, Bowmanville Ave. from Baseline Rd. to south of Reg. Hwy. 2, Widen road from 2 to 4 lanes from Baseline Rd. to S. of Hwy. 2, including structure widening. Associated water supply and sanitary sewer works, Clarington	-	-	-	673	-	-	237	1,590	-	-	-	2,500	3,901	38,985	45,386
Road / Structure Construction - Growth Subtotal				-	5,923	-	-	2,666	17,935	-	-	-	26,524	35,469	147,715	209,708

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div>DURHAM REGION</div></div><div>Durham Budget</div></div><div>2024</div></div>		Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033	
		Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy						
Traffic Control & Other Programs - Growth																
120	Bridge and Pavement Management Program, Various	-	-	-	54	-	-	40	266	-	-	40	400	400	3,600	4,400
121	Signal Installation Program, Various	-	-	-	564	-	-	238	1,598	-	-	-	2,400	2,725	22,025	27,150
122	Intelligent Transportation System (ITS) Projects, Various	-	-	-	149	-	-	63	423	-	-	-	635	655	6,020	7,310
123	Engineering Activities, Various	-	-	-	61	-	-	44	300	-	-	45	450	450	4,050	4,950
124	Property Acquisition, Various	-	-	-	71	-	-	29	200	-	-	-	300	300	1,300	1,900
125	Roadside Landscaping Projects, Various	-	-	-	20	-	-	15	100	-	-	15	150	151	1,800	2,101
126	Contingencies Development Related, Various	-	-	-	71	-	-	29	200	-	-	-	300	300	2,700	3,300
127	Regional Share of Services for Residential Subdivision Development, Various	-	-	-	75	-	-	55	370	-	-	-	500	1,600	2,700	4,800
Traffic Control & Other Programs - Growth Subtotal				-	1,065	-	-	513	3,457	-	-	100	5,135	6,581	44,195	55,911
Transportation Plans & Studies - Growth																
128	Transportation Plans and Studies, Various ¹	-	-	-	500	-	-	-	-	-	-	-	500	-	1,450	1,950
Transportation Plans & Studies - Growth Subtotal				-	500	-	-	-	-	-	-	-	500	-	1,450	1,950

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div>DURHAM REGION</div></div><div>Durham Budget</div></div></div> <div>2024</div>		Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033	
				Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy				
Bus Rapid Transit Implementation																
129	Reg. Hwy. 2, Kingston Rd. from Altona Rd. to Notion Rd., Bus Rapid Transit Lanes, Pickering	-	-	-	588	-	-	319	2,148	8,400	-	-	11,455	77,175	23,500	112,130
131	Reg. Hwy. 2, Kingston Rd. - Dundas St. from Westney Rd. to Hwy. 412, Bus Rapid Transit Lanes (DC Elig), Ajax / Whitby	-	-	-	1,168	-	-	571	3,841	15,342	-	-	20,922	25,174	-	46,096
Bus Rapid Transit Implementation Subtotal				-	1,756	-	-	890	5,989	23,742	-	-	32,377	102,349	23,500	158,226
Road Rehabilitation / Reconstruction Projects																
133	Reg. Rd. 1, Brock Rd. from Reg. Rd. 5 to 0.2 km north of Uxbridge/Pickering Townline Rd., Road rehabilitation, Pickering	-	-	-	-	-	-	-	-	2,200	-	-	2,200	-	-	2,200
134	Reg. Rd. 1, Conc. Rd. 7 from 0.4 km north of Ashworth Rd. to south of Foster Dr., Road rehabilitation, Uxbridge	-	-	-	350	-	-	-	-	-	-	-	350	-	3,350	3,700
135	Reg. Rd. 2, Simcoe St. from 0.6 km south of River St. to Saintfield Rd., Road rehabilitation, Scugog	-	-	-	100	-	-	-	-	2,600	-	-	2,700	-	-	2,700
136	Reg. Rd. 3, Grandview St. N. from Hwy. 407 to Columbus Rd. E. and Columbus Rd. E. from Grandview St. N. to Townline Rd. N., Road rehabilitation / reconstruction, Oshawa / Clarington	-	-	-	1,600	-	-	-	-	-	-	-	1,600	7,000	-	8,600
137	Reg. Rd. 3 from Townline Rd. N. to Enfield Rd., Road rehabilitation / reconstruction, Oshawa / Clarington	-	-	-	2,500	-	-	-	-	-	-	-	2,500	5,400	-	7,900
138	Reg. Rd. 4, Taunton Rd. from east of Townline Rd. to west of Enfield Rd., Road rehabilitation, Clarington	-	-	-	825	-	-	-	-	-	-	-	825	11,673	-	12,498

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div><div></div><div>DURHAM REGION</div></div><div><div>Durham</div><div>Budget</div></div></div><div>2024</div></div></div>		Quantity	New / Replacement	2024 Proposed Financing									2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
141	Reg. Rd. 5, Myrtle Rd. from Dagmar Rd. to west limit of Ashburn, Road rehabilitation, Whitby	-	-	-	-	-	-	-	-	2,800	-	-	2,800	-	-	2,800
142	Reg. Rd. 7, Island Rd. from Hwy. 7A to Gerrow Rd., Road rehabilitation, Scugog	-	-	-	100	-	-	-	-	-	-	-	100	300	2,500	2,900
145	Reg. Rd. 8, Reach St. from east of Old Simcoe St. to Bigelow St., Road rehabilitation / reconstruction, Scugog	-	-	-	3,100	-	-	-	-	-	-	-	3,100	550	-	3,650
146	Reg. Rd. 9, Ganaraska Rd. from 2.0 km east of Maynard Rd. to 0.4 km east of Newtonville Rd., Road rehabilitation / reconstruction in combination with Newtonville Rd., Clarington	-	-	-	100	-	-	-	-	-	-	-	100	700	4,400	5,200
147	Reg. Rd. 13, Zephyr Rd. from Conc. 3 (Reg. Rd. 39) to Conc. 4, Road rehabilitation / reconstruction, Uxbridge	-	-	-	520	-	-	-	-	-	-	-	520	9,050	-	9,570
151	Reg. Rd. 19, Shirley Rd. from Simcoe St. to 0.5 km east of Graham Rd., Road rehabilitation, Scugog	-	-	-	1,200	-	-	-	-	-	-	-	1,200	-	-	1,200
152	Reg. Rd. 19, Shirley Rd. from 0.5 km east of Graham Rd. to Old Scugog Rd., Road reconstruction, Scugog	-	-	-	1,000	-	-	-	-	-	-	-	1,000	-	9,800	10,800
153	Reg. Rd. 21, Goodwood Rd. from Reg. Hwy. 47 to Ridge Rd., Urbanize road and modify corridor through hamlet of Goodwood, including streetscape modifications, Uxbridge	-	-	-	500	-	-	-	-	-	-	-	500	-	5,100	5,600
154	Reg. Rd. 23, Lake Ridge Rd. from 0.1 km south of Vallentyne to 0.25 km north of Ravenshoe Rd., Road rehabilitation and curve reconfiguration, Uxbridge / Brock	-	-	-	150	-	-	-	-	-	-	-	150	450	2,500	3,100

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div><div></div><div>DURHAM REGION</div></div><div><div>Durham</div><div>Budget</div></div></div><div>2024</div></div></div>		Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
		Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy					
159	Reg. Rd. 31, Westney Rd. from Finley Ave. to Harwood Ave., Road rehabilitation (combined with intersection item 77) Associated water supply works., Ajax	-	-	-	120	-	-	-	-	-	-	120	-	3,355	3,475
161	Reg. Rd. 56, Farewell St. from Harbour Rd. to Bloor St., Road rehabilitation / reconstruction. Associated water supply works, Oshawa	-	-	-	200	-	-	-	-	-	-	200	8,350	-	8,550
162	Reg. Rd. 59, Olive Ave. from Simcoe St. to Drew St., Road rehabilitation / reconstruction in conjunction with water / sewer project, Oshawa	-	-	-	275	-	-	-	-	-	-	275	825	-	1,100
163	Reg. Rd. 60, Wentworth St. from Park Rd. to west of Cedar St., Road rehabilitation / reconstruction, Oshawa	-	-	-	1,500	-	-	-	-	-	-	1,500	300	-	1,800
165	Reg. Hwy. 2 from Ovens Rd. to East Townline Rd., Road rehabilitation, Clarington	-	-	-	1,250	-	-	-	-	-	-	1,250	-	-	1,250
166	Reg. Hwy. 47 from 0.9 km east of Reg. Rd. 30 to west of Reg. Rd. 21, Road rehabilitation, Uxbridge	-	-	-	-	-	-	-	2,500	-	-	2,500	-	-	2,500
167	Road Resurfacing and Rehabilitation Preparatory Activities Allowance, Various	-	-	-	-	-	-	-	-	-	350	350	350	3,150	3,850
168	Road Rehabilitation Program, Various	-	-	-	-	-	-	-	-	500	-	500	500	26,400	27,400
169	Road Resurfacing / Rehabilitation Other Locations, Various	-	-	-	12,320	-	-	-	-	-	-	12,320	5,752	290,070	308,142
Road Rehabilitation / Reconstruction Projects Subtotal		-	27,710	-	-	-	-	10,100	-	850	-	38,660	51,200	350,625	440,485

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div>DURHAM REGION</div></div><div>Durham Budget</div></div><div>2024</div></div>		Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033	
Structure Rehabilitation / Replacement				Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy				
170	Bridge Maintenance and Repairs Program, Various	-	-	-	-	-	-	-	-	-	-	260	260	260	2,340	2,860
171	Culvert Maintenance and Repairs Program, Various	-	-	-	-	-	-	-	-	-	-	250	250	250	2,250	2,750
179	Reg. Rd. 4, W.A. Twelvetrees Bridge, 0.3 km east of Whites Rd., Bridge rehabilitation of existing 4 lane structure, Pickering	-	-	-	200	-	-	-	-	-	-	-	200	450	7,500	8,150
187	Reg. Rd. 4, Wilmot Creek Bridge, 1.3 km east of Reg. Rd. 42, Bridge rehabilitation, Clarington	-	-	-	125	-	-	-	-	-	-	-	125	-	1,450	1,575
191	Reg. Rd. 5, Central St. Over Mitchell Creek Tributary Bridge, 1 km west of Brock Rd., Bridge replacement, Pickering	-	-	-	650	-	-	-	-	850	-	-	1,500	450	-	1,950
192	Reg. Rd. 5, Ninth Concession Rd. Over Duffins Creek Tributary Culvert, 0.05 km west of Sideline 12, Culvert replacement, Pickering	-	-	-	650	-	-	-	-	1,300	-	-	1,950	100	-	2,050
193	Reg. Rd. 6, Saintfield Rd. Bridge, 4 km east of Hwy. 12, Bridge replacement, Scugog	-	-	-	900	-	-	-	-	3,100	-	-	4,000	400	-	4,400
195	Reg. Rd. 8 Over Pefferlaw Brook Tributary Culvert, 0.3 km west of Concession 4, Culvert replacement, Uxbridge	-	-	-	175	-	-	-	-	-	-	-	175	-	1,000	1,175
198	Reg. Rd. 9, Ganaraska Rd. Cross Culvert, east of Regional Road 18, Culvert replacement, Clarington	-	-	-	100	-	-	-	-	-	-	-	100	-	-	100
200	Reg. Rd. 12, Dobson Bridge, 0.2 km east of McRae St., Bridge rehabilitation in conjunction with watermain replacement, Brock	-	-	-	125	-	-	-	-	-	-	-	125	-	1,500	1,625

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

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<div><div><div><div><div></div></div><div>DURHAM REGION</div></div><div><div>Durham</div><div>Budget</div></div></div><div>2024</div></div>		Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
			Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy				
212	Reg. Rd. 20, Mosport Rd. west of Liberty St. north Cross-culvert, Culvert replacement, Clarington	-	-	-	120	-	-	-	-	-	-	120	-	770	890
213	Reg. Rd. 22, Bayly St. at Westshore Blvd. Culvert, Culvert rehabilitation, Pickering	-	-	-	125	-	-	-	-	-	-	125	-	1,500	1,625
216	Reg. Rd. 23, Lake Ridge Rd. Culvert north of Reg. Rd. 12, Culvert replacement, Brock	-	-	-	150	-	-	-	-	-	-	150	-	2,000	2,150
218	Reg. Rd. 26, Thickson Rd. Culvert at Wentworth St., Culvert rehabilitation in conjunction with watermain replacement, Whitby	-	-	-	300	-	-	-	1,000	-	-	1,300	50	-	1,350
219	Reg. Rd. 26, Thickson Rd. south of Taunton Rd. Cross-culvert , Culvert replacement, Whitby	-	-	-	280	-	-	-	-	-	-	280	-	1,840	2,120
223	Reg. Rd. 28, Rossland Rd. west of Anderson St. Cross-culvert , Culvert replacement, Whitby	-	-	-	250	-	-	-	-	-	-	250	-	1,620	1,870
226	Reg. Rd. 31, Westney Rd. Over Miller Creek West Bridge, 0.1 km north of Ritchie Ave., Bridge rehabilitation, Ajax	-	-	-	100	-	-	-	-	-	-	100	-	1,100	1,200
227	Reg. Rd. 31, Westney Rd. Over Miller Creek East Bridge, 0.1 km north of Ritchie Ave., Bridge rehabilitation, Ajax	-	-	-	100	-	-	-	-	-	-	100	-	750	850
228	Reg. Rd. 31, Westney Rd. Over CPR Bridge, 0.4 km north of Taunton Rd., Bridge rehabilitation, Ajax	-	-	-	350	-	-	-	-	-	-	350	-	4,200	4,550
233	Reg. Rd. 34, Courtice Rd. north of Reg. Hwy. 2 Cross-culvert , Culvert replacement, Clarington	-	-	-	270	-	-	-	-	-	-	270	-	1,780	2,050

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div><div></div><div>DURHAM REGION</div></div><div><div>Durham</div><div>Budget</div></div></div><div>2024</div></div></div>		Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
Other		Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy						
234 Reg. Rd. 34, Enfield Rd. south of Hwy. 407 Cross-culvert , Culvert replacement, Clarington		-	-	-	80	-	-	-	-	-	-	80	-	490	570
242 Reg. Rd. 57, Bowmanville Creek Bridge, 1.9 km north of Reg. Hwy. 2, Bridge rehabilitation, Clarington		-	-	-	250	-	-	-	-	-	-	250	150	4,800	5,200
243 Reg. Rd. 57, Burketon CPR Bridge, 3.3 km south of Shirley Rd., Bridge Replacement, Clarington		-	-	-	2,500	-	-	-	3,500	-	-	6,000	7,142	-	13,142
Structure Rehabilitation / Replacement Subtotal				-	7,800	-	-	-	9,750	-	510	18,060	9,252	36,890	64,202
Traffic Control & Other Programs - Non-Growth															
249 Miscellaneous Road and Storm Sewer Reconstruction Projects, Various		-	-	-	-	-	-	-	-	-	400	400	400	3,600	4,400
250 Signal Modernization Program, Various		-	-	-	-	-	-	-	-	-	1,510	1,510	1,640	14,950	18,100
251 Accessible Pedestrian Signal (APS) Installation Program, Various		-	-	-	-	-	-	-	-	-	1,000	1,000	1,000	7,800	9,800
252 Advance Traffic Management Systems (ATMS) Upgrades, Various		-	-	-	1,325	-	-	-	-	-	430	1,755	100	815	2,670
253 Uninterruptible Power Supply (UPS) Installation Program, Various		-	-	-	-	-	-	-	-	-	500	500	500	4,500	5,500
254 Contingencies Non-Development Related, Various		-	-	-	-	-	-	-	-	-	100	100	100	900	1,100
Traffic Control & Other Programs - Non-Growth Subtotal				-	1,325	-	-	-	-	-	3,940	5,265	3,740	32,565	41,570
Road & Traffic Safety Program (Vision Zero)															
255 Roadside Safety Program, Various		-	-	-	-	-	-	-	-	-	800	800	1,000	7,200	9,000

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div><div></div><div>DURHAM REGION</div></div><div><div>Durham</div><div>Budget</div></div></div><div>2024</div></div></div>			Quantity	New / Replacement	2024 Proposed Financing							2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033		
			Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy						
256 Durham Vision Zero Program, Various			-	-	-	650	-	-	-	-	-	-	650	675	1,314	2,639	
Road & Traffic Safety Program (Vision Zero) Subtotal					-	650	-	-	-	-	-	800	1,450	1,675	8,514	11,639	
Cycling Infill Projects																	
257 Cycling Infill Projects, Various			-	-	-	724	-	-	23	153	-	-	900	700	12,400	14,000	
Cycling Infill Projects Subtotal					-	724	-	-	23	153	-	-	900	700	12,400	14,000	
Building & Structures																	
258	Depot Rationalization - Ajax Depot Expansion ²	-	-	-	-	503	440	691	4,783	-	5,250	-	11,667	-	-	11,667	
261	Depot Rationalization - New Oshawa/Whitby Depot ³	-	-	-	-	56	49	78	534	-	950	-	1,667	-	55,000	56,667	
264	Depot Rationalization - New Sunderland Depot ⁴	-	-	-	-	82	72	113	733	-	333	-	1,333	-	14,000	15,333	
269	Materials Testing Lab Relocation - Oshawa/Whitby Depot	1	Replacement	-	-	-	-	-	-	-	-	668	668	-	-	668	
270	Repairs and Epoxy Coat Fleet Bay - Scugog Depot	1	Replacement	-	-	-	-	-	-	-	-	57	57	-	-	57	
274	Roof Replacement on Vehicle Storage Bays - Orono Depot	1	Replacement	-	-	-	-	-	-	-	-	173	173	-	-	173	
275	Thermal Glass Panels for Rollup Doors and Door operators - Orono Depot	1	Replacement	-	-	-	-	-	-	-	-	66	66	-	-	66	
276	Widening of Existing Canopy Entrance - Sunderland Depot	1	Replacement	-	-	-	-	-	-	-	-	41	41	-	-	41	
Building & Structures Subtotal					-	-	641	561	882	6,050	-	6,533	1,005	15,672	-	69,000	84,672


Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div>DURHAM REGION</div></div><div>Durham Budget</div></div><div>2024</div></div>		Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
Machinery & Equipment				Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy			
282	Latex Printer/Cutter - Traffic Engineering & Operations	1	New	-	-	-	-	-	-	-	-	-	-	35	35
290	Rollover flat bed applicator - Traffic Engineering & Operations	1	Replacement	-	-	-	-	-	-	-	-	-	-	32	32
292	Security Platform Replacement - Various Locations	7	Replacement	-	-	-	-	-	-	-	-	13	13	-	13
294	Survey GPS Instrument - Construction	1	Replacement	-	-	-	-	-	-	-	-	10	10	-	10
295	Survey Total Station Replacement - Construction	1	Replacement	-	-	-	-	-	-	-	-	17	17	-	17
Machinery & Equipment Subtotal				-	-	-	-	-	-	-	-	40	40	-	107
Information Technology Infrastructure															
299	Computers & Monitors Refresh - Financial Services	1	Replacement	-	-	-	-	-	-	-	-	223	223	-	223
302	Large Format Colour Plotter - Traffic Engineering & Operations	1	Replacement	-	-	-	-	-	-	-	-	30	30	-	30
303	Power Laptops - Various Locations	4	New	-	-	-	-	-	-	-	-	10	10	-	10
Information Technology Infrastructure Subtotal				-	-	-	-	-	-	-	-	263	263	-	263
Vehicles															
307	1 Ton Plow Truck - Ajax Depot	1	Replacement	-	145	-	-	-	-	-	-	-	145	-	145
308	1 Ton Plow Truck - Sunderland Depot	1	Replacement	-	145	-	-	-	-	-	-	-	145	-	145

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

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 <div> <div>Durham</div> <div>Budget</div> </div> <div>2024</div>		Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
			Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy				
309	1/2 ton Pick-up Truck - Traffic Engineering & Operations	7	Replacement	-	735	-	-	-	-	-	-	735	-	-	735
309	1/2 ton Pick-up Truck - Traffic Engineering & Operations	1	New	-	-	-	-	-	-	-	105	105	-	-	105
312	3 Ton Crew Cab - Various Locations	9	Replacement	-	1,835	-	-	-	-	-	-	1,835	-	-	1,835
313	3 Ton Service Truck - Traffic Engineering & Operations	2	Replacement	-	1,100	-	-	-	-	-	-	1,100	-	-	1,100
314	3/4 Ton Pick Up Truck - Various Locations	1	Replacement	-	125	-	-	-	-	-	-	125	-	-	125
315	3/4 Ton Van - Ajax WSP	1	Replacement	-	160	-	-	-	-	-	-	160	-	-	160
316	5 Ton Flatbed - Traffic Engineering & Operations	1	New	-	-	-	-	-	-	-	625	625	-	-	625
317	6 Ton Tandem - Orono Depot	1	Replacement	-	649	-	-	-	-	-	-	649	-	-	649
318	6 Ton Tandem - Oshawa/Whitby Depot	1	Replacement	-	650	-	-	-	-	-	-	650	-	-	650
319	6 Ton Tandem - Sunderland Depot	1	Replacement	-	650	-	-	-	-	-	-	650	-	-	650
321	Asphalt Hot Box - Ajax Depot	1	Replacement	-	72	-	-	-	-	-	-	72	-	-	72
322	Asphalt Hot Box - Orono Depot	1	Replacement	-	72	-	-	-	-	-	-	72	-	-	72
323	Asphalt Hot Box - Oshawa/Whitby Depot	1	Replacement	-	72	-	-	-	-	-	-	72	-	-	72

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

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<div><div><div><div>DURHAM REGION</div></div><div>Durham Budget</div></div></div> <div>2024</div>	Quantity	New / Replacement	2024 Proposed Financing									2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
			Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy				
324 Asphalt Hot Box - Scugog Depot	1	Replacement	-	72	-	-	-	-	-	-	-	72	-	-	72
325 Asphalt Hot Box - Sunderland Depot	2	Replacement	-	144	-	-	-	-	-	-	-	144	-	-	144
327 Breaker - Various Locations	3	Replacement	-	150	-	-	-	-	-	-	-	150	-	-	150
328 Cube Van - 289 Water St	1	Replacement	-	165	-	-	-	-	-	-	-	165	-	-	165
329 Emergency Fleet Equipment Replacement - Fleet	1	Replacement	-	295	-	-	-	-	-	-	-	295	-	-	295
332 Forklift - Ajax Depot	1	Replacement	-	-	-	-	-	-	-	-	42	42	-	-	42
333 Generator - Oshawa/Whitby Depot	1	Replacement	-	15	-	-	-	-	-	-	-	15	-	-	15
334 Geodimeter - Construction	3	Replacement	-	396	-	-	-	-	-	-	-	396	-	-	396
335 Gradall - Orono Depot	1	Replacement	-	950	-	-	-	-	-	-	-	950	-	-	950
336 Gradall - Sunderland Depot	1	Replacement	-	950	-	-	-	-	-	-	-	950	-	-	950
340 Large Paint Truck - Traffic Engineering & Operations	1	Replacement	-	1,100	-	-	-	-	-	-	-	1,100	-	-	1,100
341 Liquid Spray Tank - Various Locations	3	Replacement	-	300	-	-	-	-	-	-	-	300	-	-	300
342 Pole Trailer - Sunderland Depot	1	Replacement	-	50	-	-	-	-	-	-	-	50	-	-	50

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

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<div><div><div><div>DURHAM REGION</div></div><div>Durham Budget</div></div></div> <div>2024</div>	Quantity	New / Replacement	2024 Proposed Financing									2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
			Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy				
345	Single Axle Dump Truck - Ajax Depot	1	New	-	-	-	-	-	-	-	167	167	-	-	167
346	Single Axle Trailer - Oshawa/Whitby Depot	1	Replacement	-	30	-	-	-	-	-	-	30	-	-	30
347	Single Axle Trailer - Traffic Engineering & Operations	1	Replacement	-	35	-	-	-	-	-	-	35	-	-	35
348	Small Paint Truck - Traffic Engineering & Operations	1	Replacement	-	882	-	-	-	-	-	-	882	-	-	882
349	Snow Blower - Oshawa/Whitby Depot	1	Replacement	-	20	-	-	-	-	-	-	20	-	-	20
350	Snow Blower - Scugog Depot	1	Replacement	-	300	-	-	-	-	-	-	300	-	-	300
352	Special Pump - Oshawa/Whitby Depot	1	Replacement	-	85	-	-	-	-	-	-	85	-	-	85
355	Tamper - Various Locations	4	Replacement	-	83	-	-	-	-	-	-	83	-	-	83
358	Tandem Dump Trailer - Oshawa/Whitby Depot	1	Replacement	-	32	-	-	-	-	-	-	32	-	-	32
359	Tandem Trailer - Various Locations	7	Replacement	-	350	-	-	-	-	-	-	350	-	-	350
360	Tapping Machine - Oshawa/Whitby Depot	1	Replacement	-	30	-	-	-	-	-	-	30	-	-	30
361	Tractor - Ajax Depot	4	Replacement	-	2,180	-	-	-	-	-	-	2,180	-	-	2,180
361	Tractor - Ajax Depot	1	New	-	-	-	-	-	-	-	188	188	-	-	188

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div><div></div><div>DURHAM REGION</div></div><div><div>Durham</div><div>Budget</div></div></div><div>2024</div></div></div>	Quantity	New / Replacement	2024 Proposed Financing									2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
			Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy				
362 Water Pump - Various Locations	3	Replacement	-	18	-	-	-	-	-	-	-	18	-	-	18
Vehicles Subtotal			-	15,042	-	-	-	-	-	-	1,127	16,169	-	-	16,169
Furniture & Fixtures															
365 Parts Cabinets - Various Locations	117	New	-	-	-	-	-	-	-	-	125	125	-	-	125
Furniture & Fixtures Subtotal			-	-	-	-	-	-	-	-	125	125	-	-	125
Total Capital Regional Roads and Infrastructure			-	62,495	641	561	4,974	33,584	43,592	6,533	8,760	161,140	210,966	726,921	1,099,027

* Rows and columns may not add due to rounding

** Appendix A includes Subsidy/Grant financing of \$19.850 million from the Canada-Community Building Fund (Federal Gas Tax) and \$23.742 million from the Investing in Canada Infrastructure Program (ICIP) Grant

*** Appendix A includes Reserve/Reserve Fund financing as follows:

	2024
Reserve Fund	
Equipment Replacement Reserve	15,042
Capital Impact Stabilization Reserve Fund	1,325
Roads Rehab Reserve Fund	27,710
Bridge Rehab Reserve Fund	7,800
Regional Roads Levy	9,424
Vision Zero Reserve Fund	650
Transit Capital Reserve Fund	544
Total Reserve/Reserve Fund Financing	62,495

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

	2024
DC Shortfall	
Residential DC Shortfall	-
Commercial DC Shortfall	-
Institutional DC Shortfall	2,605
Industrial DC Shortfall	2,976
Total DC Shortfall	5,581
Shortfall Financing Source	
Regional Roads Levy	5,581
Total Funding	5,581

Appendix A: 2024 Regional Roads and Infrastructure Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix B for the comprehensive 2024 capital budget and 2025-2033 forecast


<div><div><div><div>DURHAM REGION</div></div><div>Durham Budget</div></div></div> <div>2024</div>		Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
				Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy			

***** Project Notes:

- ¹ Project 128 Transportation Plans and Studies - The provincial government is currently reviewing changes made to the Development Charges Act that deem growth related studies as ineligible for development charge funding. Should this review result in these costs now being eligible for development charge financing, the Commissioner of Finance/Regional Treasurer will adjust the financing to apply development charges.
- ² Project 258 Depot Rationalization-Ajax Depot Expansion - The budget of \$11.667 million is the 2024 general tax portion. The estimated total cost is \$40.000 million with \$13.333 million funded from the General Tax Fund, \$13.333 million funded from the Water Supply Fund, and \$13.334 million funded from the Sanitary Sewerage Fund.
- ³ Project 261 Depot Rationalization-New Oshawa/Whitby Depot Expansion - The budget of \$1.667 million is the 2024 general tax portion. The estimated total cost is \$208.000 million with \$69.334 million funded from the General Tax Fund, \$69.333 million funded from the Water Supply Fund, and \$69.333 million funded from the Sanitary Sewerage Fund.
- ⁴ Project 264 Depot Rationalization-New Sunderland Depot - The budget of \$1,333 million is the 2024 general tax portion. The estimated total cost is \$50.000 million with \$16.666 million funded from the General Tax Fund, \$16.667 million funded from the Water Supply Fund, and \$16.667 million funded from the Sanitary Sewerage Fund.


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
Regional Roads and Infrastructure										
Road / Structure Construction - Growth										
1	Reg. Rd. 1, Brock Rd. from Finch Ave. to Taunton Rd., Widen road from 5 to 7 lanes to add HOV lanes, including structure widening, Pickering	Pre-Construction	-	-	-	-	-	6,745	6,745	
		Construction	-	-	-	-	-	61,800	61,800	
		Total	-	-	-	-	-	68,545	68,545	
2	Reg. Rd. 1, Brock Rd. from Taunton Rd. to Alexander Knox Rd. - 5th Concession Rd., Widen road from 2 to 4 lanes including intersection modifications at Brock Rd. and Taunton Rd. The Region's portion shown is for 10% of the intersection project cost. Seaton Landowners responsible for 90% of the Intersection cost, Pickering	Pre-Construction	-	-	1,250	-	-	-	1,250	
		Construction	-	-	1,500	-	-	-	1,500	
		Total	-	-	2,750	-	-	-	2,750	
3	Reg. Rd. 1, Brock Rd. from Taunton Rd. to Alexander Knox Rd. - 5th Concession Rd., Widen road from 4 to 6 lanes to add HOV lanes, Pickering	Pre-Construction	-	-	-	1,545	515	2,100	4,160	
		Construction	-	-	-	-	-	14,935	14,935	
		Total	-	-	-	1,545	515	17,035	19,095	
4	Reg. Rd. 1, Brock Rd. / 7th Concession Rd. Intersection, Intersection modifications, Pickering	Pre-Construction	-	-	320	320	-	-	640	
		Construction	-	-	-	-	-	5,305	5,305	
		Total	-	-	320	320	-	5,305	5,945	
5	Reg. Rd. 1, Brock Rd. / Goodwood Rd. Intersection, Reconstruct to a roundabout, Uxbridge	Pre-Construction	700	600	550	-	-	-	1,150	
		Construction	-	-	-	8,000	-	-	8,000	
		Total	700	600	550	8,000	-	-	9,150	
6	Reg. Rd. 1, Brock Rd. / Reg. Hwy. 47 Intersection, Intersection modifications, Uxbridge	Pre-Construction	-	-	-	-	515	620	1,135	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	-	-	515	5,770	6,285	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033			
7	Reg. Rd. 2, Simcoe St. / Russett Ave. Intersection, Intersection modifications, Oshawa	Pre-Construction	-	-	515	310	310	-	1,135	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	515	310	310	5,150	6,285	
8	Reg. Rd. 2, Simcoe St. from north of Hwy. 407 to future arterial road, Widen road from 2 to 4 lanes (To be confirmed in future DC By-law or By-law amendment), Oshawa	Pre-Construction	-	-	-	-	-	1,250	1,250	
		Construction	-	-	-	-	-	2,750	2,750	
		Total	-	-	-	-	-	4,000	4,000	
9	Reg. Rd. 2, Simcoe St. from future arterial road to 0.5 km north of Ridge Top Ct., Modify corridor (To be confirmed in future DC By-law or By-law amendment), Oshawa	Pre-Construction	-	-	-	-	-	1,000	1,000	
		Construction	-	-	-	-	-	4,000	4,000	
		Total	-	-	-	-	-	5,000	5,000	
10	Reg. Rd. 2, Simcoe St. / Howden Rd. Intersection, Intersection modifications, Oshawa	Pre-Construction	-	-	-	-	50	1,050	1,100	
		Construction	-	-	-	-	-	2,000	2,000	
		Total	-	-	-	-	50	3,050	3,100	
11	Reg. Rd. 2, Simcoe St. / Shirley Rd. Intersection, Intersection modifications, Scugog	Pre-Construction	-	-	300	300	-	-	600	
		Construction	-	-	-	-	-	5,000	5,000	
		Total	-	-	300	300	-	5,000	5,600	
12	Reg. Rd. 2, Simcoe St. / King St. - Oyler St. Intersection, Widen road from 2 to 3 lanes. Including intersection modifications at King St. - Oyler St., Scugog	Pre-Construction	-	-	-	515	310	310	1,135	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	-	515	310	5,460	6,285	
13	Reg. Rd. 2, Simcoe St. from south of King St. to south of Greenway Blvd., Widen road from 2 to 3 lanes. Including intersection modifications at King St. - Oyler St., Scugog	Pre-Construction	-	-	310	720	425	425	1,880	
		Construction	-	-	-	-	-	2,100	2,100	
		Total	-	-	310	720	425	2,525	3,980	

Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033			
14	Reg. Rd. 2, Simcoe St. / Whitfield Rd. Intersection, Intersection modifications, Scugog	Pre-Construction	-	-	500	310	310	-	1,120	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	500	310	310	5,150	6,270	
15	Reg. Rd. 2, Simcoe St. / Saintfield Rd. Intersection, Intersection modifications, Scugog	Pre-Construction	-	-	-	515	310	310	1,135	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	-	515	310	5,460	6,285	
16	Reg. Rd. 3, Winchester Rd. from Garrard Rd. to Simcoe St., Widen road from 2 to 4 lanes, Whitby / Oshawa	Pre-Construction	-	-	-	1,050	-	5,725	6,775	
		Construction	-	-	-	-	-	18,540	18,540	
		Total	-	-	-	1,050	-	24,265	25,315	
17	Reg. Rd. 3, Winchester Rd. / Bridle Rd. Intersection, Intersection modifications, Oshawa	Pre-Construction	-	-	500	310	310	-	1,120	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	500	310	310	5,150	6,270	
18	Reg. Rd. 3 / Enfield Rd. Intersection, Intersection modifications, Clarington	Pre-Construction	-	200	310	310	-	-	820	
		Construction	-	-	-	-	5,150	-	5,150	
		Total	-	200	310	310	5,150	-	5,970	
19	Reg. Rd. 3 / Old Scugog Rd. Intersection, Intersection modifications, Clarington	Pre-Construction	-	-	400	105	-	-	505	
		Construction	-	-	-	-	1,545	-	1,545	
		Total	-	-	400	105	1,545	-	2,050	
20	Reg. Rd. 4, Taunton Rd. from Toronto / Pickering Townline to west of Twelvetrees Bridge, Widen road from 4 to 6 lanes to add HOV lanes, Pickering	Pre-Construction	-	-	-	2,575	-	2,595	5,170	
		Construction	-	-	-	-	-	22,660	22,660	
		Total	-	-	-	2,575	-	25,255	27,830	
21	Reg. Rd. 4, Taunton Rd. from west of Twelvetrees Bridge to east limit of Phase 1 / Peter Matthews Dr., Widen road from 4 to 6 lanes to add HOV lanes, including structure widening, Pickering	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	-	-	-	-	5,170	5,170	
		Total	-	-	-	-	-	5,170	5,170	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033		
22	Reg. Rd. 4, Taunton Rd. from Peter Matthews Dr. to Brock Rd., Widen road from 4 to 6 / 7 lanes to add HOV lanes including structure widening, Pickering	Pre-Construction	-	-	-	2,100	515	1,050	3,665	
		Construction	-	-	-	-	-	48,100	48,100	
		Total	-	-	-	2,100	515	49,150	51,765	
23	Reg. Rd. 4, Taunton Rd. from Brock Rd. to Lake Ridge Rd., Widen road from 5 to 7 lanes to add HOV lanes including structure widening, Pickering / Ajax / Whitby	Pre-Construction	-	-	-	2,100	-	15,500	17,600	
		Construction	-	-	-	-	-	101,765	101,765	
		Total	-	-	-	2,100	-	117,265	119,365	
24	Reg. Rd. 4, Taunton Rd. from Lake Ridge Rd. to Brock St. / Baldwin St., Widen road from 5 to 7 lanes to add HOV lanes, Ajax / Whitby	Pre-Construction	-	-	-	2,100	-	7,300	9,400	
		Construction	-	-	-	-	-	48,000	48,000	
		Total	-	-	-	2,100	-	55,300	57,400	
25	Reg. Rd. 4, Taunton Rd. from Brock St. / Baldwin St. to Simcoe St., Widen road from 5 to 7 lanes to add HOV lanes, Whitby / Oshawa	Pre-Construction	-	-	-	2,100	2,100	4,200	8,400	
		Construction	-	-	-	-	-	105,100	105,100	
		Total	-	-	-	2,100	2,100	109,300	113,500	
26	Reg. Rd. 4, Taunton Rd. / Anderson St. Intersection, Intersection modifications at Taunton Rd. / Anderson St. including Taunton Rd. / DDSB and Taunton Rd. / DRPS entrances, Whitby	Pre-Construction	440	-	-	-	-	-	-	
		Construction	-	-	-	-	-	-	-	
		Total	440	-	-	-	-	-	-	
27	Reg. Rd. 4, Taunton Rd. / Courtice Rd. Intersection, Reconstruct and modify intersection to a roundabout, Clarington	Pre-Construction	-	-	500	-	-	-	500	
		Construction	-	-	-	11,845	-	-	11,845	
		Total	-	-	500	11,845	-	-	12,345	
28	Reg. Rd. 4, Taunton Rd. from 0.4 km west of Solina Rd. to 0.2 km west of Bowmanville Ave., Reconstruct and modify intersection to a roundabout (Combined with rehab item 139), Clarington	Pre-Construction	250	500	-	-	-	-	500	
		Construction	-	-	-	5,000	-	-	5,000	
		Total	250	500	-	5,000	-	-	5,500	
29	Reg. Rd. 4, Taunton Rd. / Reg. Rd. 42 Darlington - Clarke Townline Intersection, Reconstruct and modify intersection to a roundabout, Clarington	Pre-Construction	-	205	310	-	-	-	515	
		Construction	-	-	-	5,150	-	-	5,150	
		Total	-	205	310	5,150	-	-	5,665	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					
					2025	2026	2027	2028	2029-2033	Forecast Total
30	Reg. Rd. 5, Central St. from 0.15 km west of Canso Dr. to Brock Rd., Urbanize road and modify corridor through village of Clarendon, including streetscape modifications, Pickering	Pre-Construction	-	-	350	310	210	210		1,080
		Construction	-	-	-	-	-	5,150		5,150
		Total	-	-	350	310	210	5,360		6,230
31	Reg. Rd. 10, River St. / Lake Ridge Rd. Intersection, Intersection modifications, Brock	Pre-Construction	-	-	500	310	310	-		1,120
		Construction	-	-	-	-	-	5,150		5,150
		Total	-	-	500	310	310	5,150		6,270
32	Reg. Rd. 14, Liberty St. from Baseline Rd. to King St., Widen road from 2 to 3 lanes. Associated water supply and sanitary sewer works, Clarington	Pre-Construction	300	400	-	-	-	-		400
		Construction	-	-	7,250	-	-	-		7,250
		Total	300	400	7,250	-	-	-		7,650
33	Reg. Rd. 14, Liberty St. / Meadowview Blvd. - Scottsdale Dr. Intersection, Intersection modifications, Clarington	Pre-Construction	-	-	400	210	310	-		920
		Construction	-	-	-	-	-	3,200		3,200
		Total	-	-	400	210	310	3,200		4,120
34	Reg. Rd. 14, Liberty St. from Longworth Ave. to Concession Rd. 3, Reconstruct and modify intersection to a roundabout at Concession Rd. 3 and signalization and modifications at Freeland Ave. - Bons Ave. (combined with road rehab item) Associated water supply works, Clarington	Pre-Construction	1,200	-	-	-	-	-		-
		Construction	-	-	-	-	-	-		-
		Total	1,200	-	-	-	-	-		-
35	Reg. Rd. 16, Ritson Rd. / Bloor St. Intersection, Intersection modifications, Oshawa	Pre-Construction	-	-	-	515	310	310		1,135
		Construction	-	-	-	-	-	5,150		5,150
		Total	-	-	-	515	310	5,460		6,285


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033			
36	Reg. Rd. 16, Ritson Rd. / William St. Intersection, Intersection modifications, Oshawa	Pre-Construction	-	-	-	-	420	550	970	
		Construction	-	-	-	-	-	3,200	3,200	
		Total	-	-	-	-	420	3,750	4,170	
37	Reg. Rd. 16, Ritson Rd. / Beatrice St. Intersection, Intersection modifications, Oshawa	Pre-Construction	-	150	275	50	-	-	475	
		Construction	-	-	-	-	2,575	-	2,575	
		Total	-	150	275	50	2,575	-	3,050	
38	Reg. Rd. 16, Ritson Rd. from north of Taunton Rd. to Conlin Rd., Widen road from 2 / 3 to 5 lanes, Oshawa	Pre-Construction	2,050	-	-	300	800	-	1,100	
		Construction	-	-	4,000	-	-	14,000	18,000	
		Total	2,050	-	4,000	300	800	14,000	19,100	
39	Reg. Rd. 16, Ritson Rd. from Conlin Rd. to Britannia Ave., Widen road from 2 to 4 lanes (To be confirmed in future DC By-law or By-law amendment), Oshawa	Pre-Construction	-	-	-	-	-	1,750	1,750	
		Construction	-	-	-	-	-	3,500	3,500	
		Total	-	-	-	-	-	5,250	5,250	
40	Reg. Rd. 17 from north of CPR to Concession Rd. 3, Widen road and construct new alignment from 2 to 3 lanes, Clarington	Pre-Construction	-	-	-	1,050	1,050	515	2,615	
		Construction	-	-	-	-	-	6,900	6,900	
		Total	-	-	-	1,050	1,050	7,415	9,515	
41	Reg. Rd. 19, Shirley Rd. / Reg. Rd. 57 Intersection, Intersection modifications, Scugog	Pre-Construction	-	-	-	-	515	620	1,135	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	-	-	515	5,770	6,285	
42	Reg. Rd. 21, Goodwood Rd. / Concession Rd. 6 Intersection, Intersection modifications, Uxbridge	Pre-Construction	-	-	500	310	310	-	1,120	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	500	310	310	5,150	6,270	
43	Reg. Rd. 22, Bayly St. from Liverpool Rd. to Brock Rd., Widen road from 5 to 6 / 7 lanes to add HOV lanes, Pickering	Pre-Construction	-	-	-	1,000	2,100	3,090	6,190	
		Construction	-	-	-	-	-	21,225	21,225	
		Total	-	-	-	1,000	2,100	24,315	27,415	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033			
44	Reg. Rd. 22, Bayly St. / Sandy Beach Rd. Intersection, Intersection modifications, Pickering	Pre-Construction	-	-	-	-	415	105	520	
		Construction	-	-	-	-	-	3,100	3,100	
		Total	-	-	-	-	415	3,205	3,620	
45	Reg. Rd. 22, Bayly St. from Brock Rd. to Westney Rd., Widen road from 5 to 7 lanes to add HOV lanes including structure widening, Pickering / Ajax	Pre-Construction	-	-	1,545	-	2,575	1,545	5,665	
		Construction	-	-	-	-	-	30,900	30,900	
		Total	-	-	1,545	-	2,575	32,445	36,565	
46	Reg. Rd. 22, Bayly St. from Westney Rd. to Harwood Ave., Widen road from 5 to 7 lanes to add HOV lanes. Associated water supply and sanitary sewer works, Ajax	Pre-Construction	-	-	310	515	415	515	1,755	
		Construction	-	-	-	-	-	15,450	15,450	
		Total	-	-	310	515	415	15,965	17,205	
47	Reg. Rd. 22, Bayly St. from Harwood Ave. to Salem Rd., Widen road from 4 to 6 lanes to add HOV lanes, Ajax	Pre-Construction	-	-	-	1,050	1,050	2,100	4,200	
		Construction	-	-	-	-	-	16,500	16,500	
		Total	-	-	-	1,050	1,050	18,600	20,700	
48	Reg. Rd. 22, Bayly St. from Salem Rd. to Lake Ridge Rd., Widen road from 4 to 6 lanes to add HOV lanes, Ajax	Pre-Construction	-	-	-	1,050	2,100	3,150	6,300	
		Construction	-	-	-	-	-	26,100	26,100	
		Total	-	-	-	1,050	2,100	29,250	32,400	
49	Reg. Rd. 22, Victoria St. / Brock St. Intersection, Intersection modifications, Whitby	Pre-Construction	-	150	310	210	-	-	670	
		Construction	-	-	-	-	4,120	-	4,120	
		Total	-	150	310	210	4,120	-	4,790	
50	Reg. Rd. 22, Victoria St. from South Blair St. to west of Thickson Rd., Construct new alignment and widen road to 5 lanes. Associated water supply - feedermain works, Whitby	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	2,800	-	-	-	-	2,800	
		Total	-	2,800	-	-	-	-	2,800	
51	Reg. Rd. 22, Victoria St. / Thickson Rd. Intersection, Intersection modification. Associated water supply works, Whitby	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	1,100	-	-	-	-	1,100	
		Total	-	1,100	-	-	-	-	1,100	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033		
52	Reg. Rd. 22, Victoria St. / Bloor St. from east of Thickson Rd. to west of Stevenson Rd., Widen road from 2 / 3 to 4 / 5 lanes. Associated water supply works, Whitby / Oshawa	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	14,000	-	-	-	-	14,000	
		Total	-	14,000	-	-	-	-	14,000	
53	Reg. Rd. 22, Bloor St. from Ritson Rd. to Farewell St., Widen road from 3 to 5 lanes including intersection modifications at Bloor St. and Ritson Rd., Oshawa	Pre-Construction	-	-	-	775	1,050	790	2,615	
		Construction	-	-	-	-	-	8,250	8,250	
		Total	-	-	-	775	1,050	9,040	10,865	
54	Reg. Rd. 22, Bloor St. from east of Harmony Rd. to Grandview St., Realignment and widen existing road to 4 / 5 lanes with new CP Rail grade separation, Oshawa	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	-	25,000	-	-	-	25,000	
		Total	-	-	25,000	-	-	-	25,000	
55	Reg. Rd. 22, Bloor St. from Grandview St. to Prestonvale Rd., Widen road from 2 to 4 lanes, Oshawa / Clarington	Pre-Construction	-	-	1,050	1,550	3,100	1,550	7,250	
		Construction	-	-	-	-	-	11,850	11,850	
		Total	-	-	1,050	1,550	3,100	13,400	19,100	
56	Reg. Rd. 22, Bloor St. from Prestonvale Rd. to Courtice Rd., Widen road from 2 to 3 lanes and modify profile. Associated water supply - feedermain (Townline Rd. to Trulls Rd.) and sanitary sewer - Trunk Sewer, Clarington	Pre-Construction	-	-	725	1,050	515	415	2,705	
		Construction	-	-	-	-	-	17,100	17,100	
		Total	-	-	725	1,050	515	17,515	19,805	
57	Reg. Rd. 22, Bloor St. / Trulls Rd. Intersection, Intersection modifications, Clarington	Pre-Construction	-	-	515	310	310	-	1,135	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	515	310	310	5,150	6,285	
58	Reg. Rd. 23, Lake Ridge Rd. from Bayly St. to Kingston Rd. - Dundas St., Widen road from 2 to 4 / 5 lanes, Ajax / Whitby	Pre-Construction	-	-	-	-	-	-	-	
		Construction	8,000	5,000	-	-	-	-	5,000	
		Total	8,000	5,000	-	-	-	-	5,000	


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 Durham Budget 2024			Forecast						
Expenditure Category			2024 Proposed Budget	2025	2026	2027	2028	2029-2033	Forecast Total
59	Reg. Rd. 23, Lake Ridge Rd. from Kingston Rd. - Dundas St. to Rossland Rd., Widen road from 2 to 4 / 5 lanes. 2026: Lake Ridge Road and Rossland Road Intersection 2028: Widen road from north of Kingston Rd. / Dundas St. to south of Rossland Road, Ajax / Whitby	Pre-Construction	-	725	1,250	210	-	-	2,185
		Construction	-	-	7,000	-	10,300	-	17,300
		Total	-	725	8,250	210	10,300	-	19,485
60	Reg. Rd. 23, Lake Ridge Rd. / Davis Dr. Intersection, Intersection modifications, Uxbridge / Scugog	Pre-Construction	-	-	500	310	310	-	1,120
		Construction	-	-	-	-	-	5,150	5,150
		Total	-	-	500	310	310	5,150	6,270
61	Reg. Rd. 24, Church St. from Bayly St. to Durham Live Ave., Widen road from 2 to 4 lanes, Pickering	Pre-Construction	-	-	-	1,050	1,050	1,030	3,130
		Construction	-	-	-	-	-	4,350	4,350
		Total	-	-	-	1,050	1,050	5,380	7,480
62	Reg. Rd. 25, Stellar Dr. from Thornton Rd. to Fox St., Construct new alignment to 4 lanes, Oshawa	Pre-Construction	-	-	1,050	1,050	515	515	3,130
		Construction	-	-	-	-	-	7,100	7,100
		Total	-	-	1,050	1,050	515	7,615	10,230
63	Reg. Rd. 26, Thickson Rd. from Wentworth St. to C.N. Rail Kingston, Reconstruct and widen road from 2 to 4 lanes, Whitby	Pre-Construction	700	-	-	-	-	-	-
		Construction	100	-	-	-	-	-	-
		Total	800	-	-	-	-	-	-
64	Reg. Rd. 26, Thickson Rd. from Consumers Dr. to Dundas St., Widen road from 5 to 7 lanes, including new structure. Associated water supply works, Whitby	Pre-Construction	-	-	1,300	2,575	-	3,090	6,965
		Construction	-	-	-	-	-	23,700	23,700
		Total	-	-	1,300	2,575	-	26,790	30,665
65	Reg. Rd. 26, Thickson Rd. / Rossland Rd. Intersection, Reconstruct and modify intersection, Whitby	Pre-Construction	-	-	-	-	-	-	-
		Construction	6,000	-	-	-	-	-	-
		Total	6,000	-	-	-	-	-	-


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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			Expenditure Category	2024 Proposed Budget	Forecast				
		2025			2026	2027	2028	2029-2033	Forecast Total
66	Reg. Rd. 26, Thickson Rd. from Taunton Rd. to Hwy. 407, Widen road from 2 to 4 / 5 lanes, Whitby	Pre-Construction	-	-	1,545	515	1,050	-	3,110
		Construction	-	-	-	-	-	25,750	25,750
		Total	-	-	1,545	515	1,050	25,750	28,860
67	Reg. Rd. 26, Thickson Rd. from Winchester Rd. to Baldwin St., Widen road from 2 to 5 lanes, Whitby	Pre-Construction	-	-	-	2,000	-	5,425	7,425
		Construction	-	-	4,000	-	-	32,000	36,000
		Total	-	-	4,000	2,000	-	37,425	43,425
68	Reg. Rd. 27, Altona Rd. from north of Strouds Ln. to Finch Ave., Widen road from 2 to 3 lanes, Pickering	Pre-Construction	-	-	-	1,050	515	275	1,840
		Construction	-	-	-	-	-	12,700	12,700
		Total	-	-	-	1,050	515	12,975	14,540
69	Reg. Rd. 27, Altona Rd. / Pinegrove Ave. Intersection, Intersection modifications, Pickering	Pre-Construction	-	-	400	250	275	-	925
		Construction	-	-	-	-	-	3,200	3,200
		Total	-	-	400	250	275	3,200	4,125
70	Reg. Rd. 28, Peter Matthews Dr. from Alexander Knox Rd. to Hwy. 7, Construct new alignment to 2 lanes, Pickering	Pre-Construction	-	-	-	3,050	-	9,150	12,200
		Construction	-	-	-	-	-	21,750	21,750
		Total	-	-	-	3,050	-	30,900	33,950
71	Reg. Rd. 28, Rossland Rd. from Cochrane St. to Whitburn St. / Redoak St., Intersection modifications at Cochrane St. (combined with rehab item 157), Whitby	Pre-Construction	-	150	-	-	-	-	150
		Construction	-	-	6,200	-	-	-	6,200
		Total	-	150	6,200	-	-	-	6,350
72	Reg. Rd. 28, Rossland Rd. / Garden St. Intersection, Intersection modifications, Whitby	Pre-Construction	200	-	-	-	-	-	-
		Construction	330	4,150	-	-	-	-	4,150
		Total	530	4,150	-	-	-	-	4,150


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033		
73	Reg. Rd. 28, Rossland Rd. from Ritson Rd. to Harmony Rd., Widen road from 3 to 5 lanes, including structure widening. Associated water supply works, Oshawa	Pre-Construction	-	-	1,050	1,050	-	-	2,100	
		Construction	-	-	-	-	15,975	-	15,975	
		Total	-	-	1,050	1,050	15,975	-	18,075	
74	Reg. Rd. 28, Rossland Rd. from Harmony Rd. to east of Townline Rd., Construct new alignment to 3 lanes, including new bridge crossing of Harmony Creek tributary, Oshawa / Clarington	Pre-Construction	-	-	775	2,100	3,100	515	6,490	
		Construction	-	-	-	-	-	31,100	31,100	
		Total	-	-	775	2,100	3,100	31,615	37,590	
75	Reg. Rd. 29, Liverpool Rd. from Hwy. 401 to Kingston Rd., Widen road from 5 to 6 / 7 lanes. Associated water supply works, Pickering	Pre-Construction	-	715	415	-	-	-	1,130	
		Construction	-	-	-	6,200	-	-	6,200	
		Total	-	715	415	6,200	-	-	7,330	
76	Reg. Rd. 30, York / Durham Line / Sandford Rd. Intersection, Intersection modifications, Uxbridge	Pre-Construction	-	-	500	310	310	-	1,120	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	500	310	310	5,150	6,270	
77	Reg. Rd. 31, Westney Rd. from Finley Ave. to Harwood Ave., Intersection modifications at Finley Ave., Monarch Ave., and Harwood Ave. (combined with road rehab item 159) Associated water supply works, Ajax	Pre-Construction	104	-	320	-	-	-	320	
		Construction	-	-	-	2,905	-	-	2,905	
		Total	104	-	320	2,905	-	-	3,225	
78	Reg. Rd. 31, Westney Rd. from Bayly St. to Hwy. 401., Widen road from 5 to 7 lanes, Ajax	Pre-Construction	-	-	310	310	-	-	620	
		Construction	-	-	-	-	9,270	-	9,270	
		Total	-	-	310	310	9,270	-	9,890	
79	Reg. Rd. 31, Westney Rd. from Hwy. 401 to south of Kingston Rd., Widen road from 5 to 7 lanes, including structure widening, Ajax	Pre-Construction	-	515	375	-	-	-	890	
		Construction	-	-	-	-	7,200	-	7,200	
		Total	-	515	375	-	7,200	-	8,090	
80	Reg. Rd. 31, Westney Rd. / Fifth Concession Rd. Intersection, Intersection modifications, Ajax / Pickering	Pre-Construction	-	-	-	515	310	310	1,135	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	-	515	310	5,460	6,285	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033			
81	Reg. Rd. 31, Westney Rd. from south of Greenwood to Hwy. 407, Construct new 2 lane Greenwood by-pass, Pickering	Pre-Construction	-	-	-	-	415	3,605	4,020	
		Construction	-	-	-	-	-	17,510	17,510	
		Total	-	-	-	-	415	21,115	21,530	
82	Reg. Rd. 33, Harmony Rd. from Conlin Rd. to Britannia Ave., Widen road from 2 to 4 lanes, Oshawa	Pre-Construction	450	-	-	515	775	790	2,080	
		Construction	-	-	1,000	-	-	5,375	6,375	
		Total	450	-	1,000	515	775	6,165	8,455	
83	Reg. Rd. 33, Harmony Rd. from Britannia Ave. to Nancy Diamond Blvd., Widen road from 2 to 4 lanes (To be confirmed in future DC By-law or By-law amendment), Oshawa	Pre-Construction	-	-	-	-	-	2,000	2,000	
		Construction	-	-	-	-	-	5,000	5,000	
		Total	-	-	-	-	-	7,000	7,000	
84	Reg. Rd. 34, Courtice Rd. / Sandringham Dr. Intersection, Intersection modifications, Clarington	Pre-Construction	-	-	400	250	250	-	900	
		Construction	-	-	-	-	-	3,200	3,200	
		Total	-	-	400	250	250	3,200	4,100	
85	Reg. Rd. 34, Courtice Rd. / Nash Rd. Intersection, Intersection modifications, Clarington	Pre-Construction	-	-	400	275	275	-	950	
		Construction	-	-	-	-	-	3,200	3,200	
		Total	-	-	400	275	275	3,200	4,150	
86	Reg. Rd. 34, Enfield Rd. / Concession Rd. 7 Intersection, Intersection modifications, Clarington	Pre-Construction	-	-	-	-	515	620	1,135	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	-	-	515	5,770	6,285	
87	Reg. Rd. 35, Wilson Rd. from Bloor St. to Olive Ave., Widen road from 2 / 3 to 4 lanes, Oshawa	Pre-Construction	-	-	-	750	1,250	2,595	4,595	
		Construction	-	-	-	-	-	14,625	14,625	
		Total	-	-	-	750	1,250	17,220	19,220	
88	Reg. Rd. 36, Hopkins St. Overpass, Construct new 4 lane Hopkins St. overpass of Hwy. 401. Associated water supply works, Whitby	Pre-Construction	-	-	-	-	500	5,060	5,560	
		Construction	-	-	-	-	-	20,600	20,600	
		Total	-	-	-	-	500	25,660	26,160	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					
					2025	2026	2027	2028	2029-2033	Forecast Total
89	Reg. Rd. 36, Hopkins St. from Consumers Dr. to Dundas St., Widen road from 2 to 3 lanes, with new CPR grade separation. Associated water supply and sanitary sewer works, Whitby	Pre-Construction	-	-	2,075	310	515	-	2,900	
		Construction	-	-	-	-	-	17,510	17,510	
		Total	-	-	2,075	310	515	17,510	20,410	
90	Reg. Rd. 37, Finch Ave. from Altona Rd. to Brock Rd., Widen road from 2 to 3 lanes. Associated water supply and sanitary sewer works, Pickering	Pre-Construction	-	-	1,000	1,000	-	-	2,000	
		Construction	-	-	-	-	30,000	-	30,000	
		Total	-	-	1,000	1,000	30,000	-	32,000	
91	Reg. Rd. 38, Whites Rd. from north of Kingston Rd. to Finch Ave., Widen road from 5 to 7 lanes to add HOV lanes, including structure replacement. Associated water supply works, Pickering	Pre-Construction	-	-	1,545	2,575	310	310	4,740	
		Construction	-	-	-	-	-	25,750	25,750	
		Total	-	-	1,545	2,575	310	26,060	30,490	
92	Reg. Rd. 38, Whites Rd. from Finch Ave. to approximately 0.3 km south of Third Concession Rd., Widen road from 2 to 6 lanes to add HOV lanes, with new CPR grade separation, Pickering	Pre-Construction	2,700	8,000	5,000	-	-	-	13,000	
		Construction	-	-	-	32,000	-	-	32,000	
		Total	2,700	8,000	5,000	32,000	-	-	45,000	
93	Reg. Rd. 38, Whites Rd. from south of Third Concession Rd. to Taunton Rd., Construct new alignment to 6 lanes to add through lanes and HOV lanes, with new bridge crossing of West Duffins Creek. The Region's portion shown is for 1% of the project cost. Seaton Landowners responsible for 99% of the project cost, Pickering	Pre-Construction	500	-	-	-	-	-	-	
		Construction	-	1,500	-	-	-	-	1,500	
		Total	500	1,500	-	-	-	-	1,500	
94	Reg. Rd. 40, Alexander Knox Rd. from York Durham Line to Golf Club Rd., Construct new 2 lane alignment, including new structure, Pickering	Pre-Construction	-	-	-	-	-	11,350	11,350	
		Construction	-	-	-	-	-	65,405	65,405	
		Total	-	-	-	-	-	76,755	76,755	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033		
95	Reg. Rd. 40, Alexander Knox Rd. from Golf Club Rd. to west limit of Phase 1, Construct new 4 lane alignment, Pickering	Pre-Construction	-	-	700	2,000	1,400	-	4,100	
		Construction	-	-	-	-	-	20,000	20,000	
		Total	-	-	700	2,000	1,400	20,000	24,100	
96	Reg. Rd. 41, Salem Rd. from Hwy. 401 to Kingston Rd., Widen road from 4 to 6 lanes, Ajax	Pre-Construction	-	-	750	1,000	1,050	1,050	3,850	
		Construction	-	-	-	-	-	6,100	6,100	
		Total	-	-	750	1,000	1,050	7,150	9,950	
97	Reg. Rd. 41, Salem Rd. / Rossland Rd. Intersection, Intersection modifications, Ajax	Pre-Construction	-	105	-	-	-	-	105	
		Construction	-	-	1,650	-	-	-	1,650	
		Total	-	105	1,650	-	-	-	1,755	
98	Reg. Rd. 42, Darlington - Clark Townline Rd. / Reg. Hwy. 2 Intersection, Intersection modifications, Clarington	Pre-Construction	-	-	300	300	-	-	600	
		Construction	-	-	-	-	5,000	-	5,000	
		Total	-	-	300	300	5,000	-	5,600	
99	Reg. Rd. 52, Thornton Rd. from north of Stellar Dr. to King St., Widen road from 2 to 4 / 5 lanes, with new CPR grade separation. Associated water supply and sanitary sewer works, Oshawa	Pre-Construction	-	300	515	310	515	-	1,640	
		Construction	-	-	-	-	-	17,510	17,510	
		Total	-	300	515	310	515	17,510	19,150	
100	Reg. Rd. 52, Phillip Murray Ave. / Stevenson Rd. Intersection, Intersection modifications, Oshawa	Pre-Construction	-	150	50	-	-	-	200	
		Construction	-	-	-	2,000	-	-	2,000	
		Total	-	150	50	2,000	-	-	2,200	
101	Reg. Rd. 53, Stevenson Rd. / Laval Dr. Intersection, Intersection modifications, Oshawa	Pre-Construction	-	-	400	250	250	-	900	
		Construction	-	-	-	-	-	3,193	3,193	
		Total	-	-	400	250	250	3,193	4,093	
102	Reg. Rd. 53, Stevenson Rd. from CPR Belleville to Bond St., Widen road from 4 to 5 lanes. Associated water supply (Hwy. 401 - Bond St.) and sanitary sewer works, Oshawa	Pre-Construction	-	500	625	-	-	-	1,125	
		Construction	-	-	-	10,300	-	-	10,300	
		Total	-	500	625	10,300	-	-	11,425	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033		
103	Reg. Rd. 53, Stevenson Rd. from Bond St. to Rossland Rd., Widen road from 3 / 4 to 5 lanes. Associated water supply works, Oshawa	Pre-Construction	-	500	625	-	-	-	1,125	
		Construction	-	-	-	18,250	-	-	18,250	
		Total	-	500	625	18,250	-	-	19,375	
104	Reg. Rd. 55, Townline Rd. from Beatrice St. to Taunton Rd., Widen and urbanize road from 2 to 3 lanes from Whitelaw Ave. to Taunton Rd. and storm sewer from Beatrice St. to Taunton Rd., Oshawa / Clarington	Pre-Construction	-	1,080	-	-	-	-	1,080	
		Construction	-	3,000	-	-	-	-	3,000	
		Total	-	4,080	-	-	-	-	4,080	
105	Reg. Rd. 57, Bowmanville Ave. from Baseline Rd. to south of Reg. Hwy. 2, Widen road from 2 to 4 lanes from Baseline Rd. to S. of Hwy. 2, including structure widening. Associated water supply and sanitary sewer works, Clarington	Pre-Construction	2,500	-	-	-	-	-	-	
		Construction	-	38,985	-	-	-	-	38,985	
		Total	2,500	38,985	-	-	-	-	38,985	
106	Reg. Rd. 57, Bowmanville Ave. from north of Stevens Rd. to Nash Rd., Widen road from 2 to 4 lanes from north of Stevens Rd. to Nash Rd. Associated sanitary sewer works, Clarington	Pre-Construction	-	-	100	515	-	-	615	
		Construction	-	-	-	-	12,360	-	12,360	
		Total	-	-	100	515	12,360	-	12,975	
107	Reg. Rd. 57, Bowmanville Ave. / Concession Road 6 Intersection, Intersection modifications, Clarington	Pre-Construction	-	-	515	-	310	310	1,135	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	515	-	310	5,460	6,285	
108	Reg. Rd. 57, Bowmanville Ave. / Concession 7 Intersection, Intersection modifications, Clarington	Pre-Construction	-	700	500	-	-	-	1,200	
		Construction	-	-	-	5,150	-	-	5,150	
		Total	-	700	500	5,150	-	-	6,350	
109	Reg. Rd. 58, Manning Rd. / Adelaide Ave. Connection from Garrard Rd. to Thornton Rd., Construct new alignment to 3 lanes with new crossing of Corbett Creek. Associated water supply works, Whitby / Oshawa	Pre-Construction	-	200	-	-	-	-	200	
		Construction	-	-	23,000	-	-	-	23,000	
		Total	-	200	23,000	-	-	-	23,200	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033		
110	Reg. Rd. 58, Adelaide Ave. from Townline Rd. to Trulls Rd., Construct new alignment to 3 lanes with new bridge crossing of Farewell Creek. Associated sanitary sewer works, Oshawa / Clarington	Pre-Construction	-	5,000	5,000	-	275	-	10,275	
		Construction	-	-	-	-	-	22,260	22,260	
		Total	-	5,000	5,000	-	275	22,260	32,535	
111	Reg. Rd. 59, Gibb St. from east of Stevenson Rd. to Simcoe St., Widen road from 3 to 4 lanes. Associated water supply and sanitary sewer works, Oshawa	Pre-Construction	-	-	9,500	-	-	-	9,500	
		Construction	-	-	-	12,360	-	-	12,360	
		Total	-	-	9,500	12,360	-	-	21,860	
112	Reg. Rd. 59, Gibb St. / Olive Ave. Connection from Simcoe St. to Ritson Rd., Construct new alignment and widen existing from 2 / 3 to 4 / 5 lanes. Associated water supply and sanitary sewer works, Oshawa	Pre-Construction	-	-	20,950	-	-	-	20,950	
		Construction	-	-	-	-	12,360	-	12,360	
		Total	-	-	20,950	-	12,360	-	33,310	
113	Reg. Rd. 60, Wentworth St. / Thornton Rd. Intersection, Intersection modifications, Oshawa	Pre-Construction	-	-	400	275	275	-	950	
		Construction	-	-	-	-	-	3,200	3,200	
		Total	-	-	400	275	275	3,200	4,150	
114	Reg. Rd. 60, Wentworth St. / Nelson St. Intersection, Intersection modifications at Nelson St. (combined with rehab item 164), Oshawa	Pre-Construction	-	275	-	-	-	-	275	
		Construction	-	-	2,400	-	-	-	2,400	
		Total	-	275	2,400	-	-	-	2,675	
115	Reg. Hwy. 2 from Townline Rd. to Courtice Rd., Modify corridor, Oshawa / Clarington	Pre-Construction	-	-	515	825	-	210	1,550	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	515	825	-	5,360	6,700	
116	Reg. Hwy. 2 / Lambs Rd. Intersection, Intersection modifications, Clarington	Pre-Construction	-	-	310	-	310	-	620	
		Construction	-	-	-	-	-	5,150	5,150	
		Total	-	-	310	-	310	5,150	5,770	
117	Reg. Hwy. 12, Baldwin St. from north of Taunton Rd. to north of Garden St., Widen road from 2 to 4 / 5 lanes, Whitby	Pre-Construction	-	-	1,565	515	1,450	-	3,530	
		Construction	-	-	-	-	-	25,750	25,750	
		Total	-	-	1,565	515	1,450	25,750	29,280	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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			Forecast					
Expenditure Category			2025	2026	2027	2028	2029-2033	Forecast Total
118 Reg. Hwy. 47 from York Durham Line to Goodwood Rd., Widen road from 2 to 4 lanes with intersection modifications at Goodwood Rd., Uxbridge	Pre-Construction	-	-	1,545	-	2,100	1,565	5,210
	Construction	-	-	-	-	-	20,600	20,600
	Total	-	-	1,545	-	2,100	22,165	25,810
119 Reg. Hwy. 47 / Concession 6 Intersection, Reconstruct and modify intersection to a roundabout, Uxbridge	Pre-Construction	-	-	155	-	-	620	775
	Construction	-	-	-	-	-	5,150	5,150
	Total	-	-	155	-	-	5,770	5,925
Road / Structure Construction - Growth Subtotal		26,524	91,655	160,475	175,020	159,565	1,307,728	1,894,443
Traffic Control & Other Programs - Growth								
120 Bridge and Pavement Management Program, Various	Pre-Construction	400	400	400	400	400	2,000	3,600
	Construction	-	-	-	-	-	-	-
	Total	400	400	400	400	400	2,000	3,600
121 Signal Installation Program, Various	Pre-Construction	-	-	-	-	-	-	-
	Construction	2,400	2,400	2,400	2,400	2,400	12,425	22,025
	Total	2,400	2,400	2,400	2,400	2,400	12,425	22,025
122 Intelligent Transportation System (ITS) Projects, Various	Pre-Construction	-	-	-	-	-	-	-
	Construction	635	680	770	625	580	3,365	6,020
	Total	635	680	770	625	580	3,365	6,020
123 Engineering Activities, Various	Pre-Construction	450	450	450	450	450	2,250	4,050
	Construction	-	-	-	-	-	-	-
	Total	450	450	450	450	450	2,250	4,050
124 Property Acquisition, Various	Pre-Construction	300	300	300	100	100	500	1,300
	Construction	-	-	-	-	-	-	-
	Total	300	300	300	100	100	500	1,300
125 Roadside Landscaping Projects, Various	Pre-Construction	-	-	-	-	-	-	-
	Construction	150	200	200	200	200	1,000	1,800
	Total	150	200	200	200	200	1,000	1,800


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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					
				2025	2026	2027	2028	2029-2033	Forecast Total	
126	Contingencies Development Related, Various	Pre-Construction	-	-	-	-	-	-	-	
		Construction	300	300	300	300	300	1,500	2,700	
		Total	300	300	300	300	300	1,500	2,700	
127	Regional Share of Services for Residential Subdivision Development, Various	Pre-Construction	-	-	-	-	-	-	-	
		Construction	500	300	300	300	300	1,500	2,700	
		Total	500	300	300	300	300	1,500	2,700	
Traffic Control & Other Programs - Growth Subtotal				5,135	5,030	5,120	4,775	4,730	24,540	44,195
Transportation Plans & Studies - Growth										
128	Transportation Plans and Studies, Various	Pre-Construction	500	250	150	150	150	750	1,450	
		Construction	-	-	-	-	-	-	-	
		Total	500	250	150	150	150	750	1,450	
Transportation Plans & Studies - Growth Subtotal				500	250	150	150	150	750	1,450
Bus Rapid Transit Implementation										
129	Reg. Hwy. 2, Kingston Rd. from Altona Rd. to Notion Rd., Bus Rapid Transit Lanes, Pickering	Pre-Construction	-	-	-	-	-	-	-	
		Construction	11,455	23,500	-	-	-	-	23,500	
		Total	11,455	23,500	-	-	-	-	23,500	
130	Reg. Hwy. 2, Kingston Rd. from Notion Rd. to Westney Rd., Bus Rapid Transit Lanes, Pickering / Ajax	Pre-Construction	-	-	-	-	26,000	-	26,000	
		Construction	-	-	-	-	27,000	-	27,000	
		Total	-	-	-	-	53,000	-	53,000	
131	Reg. Hwy. 2, Kingston Rd. - Dundas St. from Westney Rd. to Hwy. 412, Bus Rapid Transit Lanes (DC Elig), Ajax / Whitby	Pre-Construction	-	-	-	-	-	-	-	
		Construction	20,922	-	-	-	-	-	-	
		Total	20,922	-	-	-	-	-	-	
132	Reg. Hwy. 2, Dundas St. from Des Newman Blvd. to Fothergill Ct., Bus Rapid Transit Lanes (DC Elig), Whitby	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	-	-	-	5,000	-	5,000	
		Total	-	-	-	-	5,000	-	5,000	
Bus Rapid Transit Implementation Subtotal				32,377	23,500	-	-	58,000	-	81,500


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033		
Road Rehabilitation / Reconstruction Projects										
133	Reg. Rd. 1, Brock Rd. from Reg. Rd. 5 to 0.2 km north of Uxbridge/Pickering Townline Rd., Road rehabilitation, Pickering	Pre-Construction	-	-	-	-	-	-	-	
		Construction	2,200	-	-	-	-	-	-	
		Total	2,200	-	-	-	-	-	-	
134	Reg. Rd. 1, Conc. Rd. 7 from 0.4 km north of Ashworth Rd. to south of Foster Dr., Road rehabilitation, Uxbridge	Pre-Construction	350	200	150	-	-	-	350	
		Construction	-	-	-	3,000	-	-	3,000	
		Total	350	200	150	3,000	-	-	3,350	
135	Reg. Rd. 2, Simcoe St. from 0.6 km south of River St. to Saintfield Rd., Road rehabilitation, Scugog	Pre-Construction	-	-	-	-	-	-	-	
		Construction	2,700	-	-	-	-	-	-	
		Total	2,700	-	-	-	-	-	-	
136	Reg. Rd. 3, Grandview St. N. from Hwy. 407 to Columbus Rd. E. and Columbus Rd. E. from Grandview St. N. to Townline Rd. N., Road rehabilitation / reconstruction, Oshawa / Clarington	Pre-Construction	400	-	-	-	-	-	-	
		Construction	1,200	-	-	-	-	-	-	
		Total	1,600	-	-	-	-	-	-	
137	Reg. Rd. 3 from Townline Rd. N. to Enfield Rd., Road rehabilitation / reconstruction, Oshawa / Clarington	Pre-Construction	-	-	-	-	-	-	-	
		Construction	2,500	-	-	-	-	-	-	
		Total	2,500	-	-	-	-	-	-	
138	Reg. Rd. 4, Taunton Rd. from east of Townline Rd. to west of Enfield Rd., Road rehabilitation, Clarington	Pre-Construction	-	-	-	-	-	-	-	
		Construction	825	-	-	-	-	-	-	
		Total	825	-	-	-	-	-	-	
139	Reg. Rd. 4, Taunton Rd. from 0.4 km west of Solina Rd. to 0.2 km west of Bowmanville Ave., Road rehabilitation. 2026: West of Holt Rd. to west of Bowmanville Ave. 2027: West of Solina Rd. to Hwy. 418 and roundabout at Solina Rd. (Combined with intersection item 28), Clarington	Pre-Construction	-	250	500	-	-	-	750	
		Construction	-	-	12,000	4,300	-	-	16,300	
		Total	-	250	12,500	4,300	-	-	17,050	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

			Forecast					
Expenditure Category			2025	2026	2027	2028	2029-2033	Forecast Total
140	Reg. Rd. 4, Taunton Rd. from Reg. Rd. 17 to 0.1 km west of Tamblyn Rd., Road rehabilitation and intersection modifications at Reg. Rd. 17 - Best Rd., Clarington	Pre-Construction	-	-	-	-	-	-
		Construction	-	-	3,000	-	-	3,000
		Total	-	-	3,000	-	-	3,000
141	Reg. Rd. 5, Myrtle Rd. from Dagmar Rd. to west limit of Ashburn, Road rehabilitation, Whitby	Pre-Construction	-	-	-	-	-	-
		Construction	2,800	-	-	-	-	-
		Total	2,800	-	-	-	-	-
142	Reg. Rd. 7, Island Rd. from Hwy. 7A to Gerrow Rd., Road rehabilitation, Scugog	Pre-Construction	100	-	-	-	-	-
		Construction	-	2,500	-	-	-	2,500
		Total	100	2,500	-	-	-	2,500
143	Reg. Rd. 7, Island Rd. from Gerrow Rd. to north side of Demara Rd., Road rehabilitation, Scugog	Pre-Construction	-	300	-	250	-	550
		Construction	-	-	-	7,500	-	7,500
		Total	-	300	-	250	7,500	8,050
144	Reg. Rd. 7, Island Rd. from north side of Demara Rd. to Fralicks Beach Rd., Road rehabilitation, Scugog	Pre-Construction	-	-	-	250	-	450
		Construction	-	-	-	-	5,000	5,000
		Total	-	-	-	250	5,200	5,450
145	Reg. Rd. 8, Reach St. from east of Old Simcoe St. to Bigelow St., Road rehabilitation / reconstruction, Scugog	Pre-Construction	-	-	-	-	-	-
		Construction	3,100	-	-	-	-	-
		Total	3,100	-	-	-	-	-
146	Reg. Rd. 9, Ganaraska Rd. from 2.0 km east of Maynard Rd. to 0.4 km east of Newtonville Rd., Road rehabilitation / reconstruction in combination with Newtonville Rd., Clarington	Pre-Construction	100	-	-	-	-	-
		Construction	-	4,400	-	-	-	4,400
		Total	100	4,400	-	-	-	4,400
147	Reg. Rd. 13, Zephyr Rd. from Conc. 3 (Reg. Rd. 39) to Conc. 4, Road rehabilitation / reconstruction, Uxbridge	Pre-Construction	300	-	-	-	-	-
		Construction	220	-	-	-	-	-
		Total	520	-	-	-	-	-


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033			
148	Reg. Rd. 13 from Lake Ridge Rd. to 1.5 km east of Sideroad 17, Road rehabilitation / reconstruction including modifications to the profile. 2025: road reconstruction from 0.4 km east of Sideroad 17 to 1.5 km east of Sideroad 17, Brock	Pre-Construction	-	-	-	-	-	-		
		Construction	-	5,550	-	-	-	-		
		Total	-	5,550	-	-	-	-		
149	Reg. Rd. 17, Main St. from Winter Rd. to Station St., Road rehabilitation / reconstruction. Associated water supply works, Clarington	Pre-Construction	-	-	-	-	-	-		
		Construction	-	-	2,000	-	-	-		
		Total	-	-	2,000	-	-	-		
150	Reg. Rd. 18, Newtonville Rd. from north of Kendal Bridge to Ganaraska Rd., Road rehabilitation / reconstruction in combination with Ganaraska Rd., Clarington	Pre-Construction	-	-	-	-	-	-		
		Construction	-	3,000	-	-	-	-		
		Total	-	3,000	-	-	-	-		
151	Reg. Rd. 19, Shirley Rd. from Simcoe St. to 0.5 km east of Graham Rd., Road rehabilitation, Scugog	Pre-Construction	-	-	-	-	-	-		
		Construction	1,200	-	-	-	-	-		
		Total	1,200	-	-	-	-	-		
152	Reg. Rd. 19, Shirley Rd. from 0.5 km east of Graham Rd. to Old Scugog Rd., Road reconstruction, Scugog	Pre-Construction	1,000	600	200	-	-	800		
		Construction	-	-	-	9,000	-	-		
		Total	1,000	600	200	9,000	-	-		
153	Reg. Rd. 21, Goodwood Rd. from Reg. Hwy. 47 to Ridge Rd., Urbanize road and modify corridor through hamlet of Goodwood, including streetscape modifications, Uxbridge	Pre-Construction	500	-	100	-	-	100		
		Construction	-	-	-	5,000	-	-		
		Total	500	-	100	5,000	-	-		
154	Reg. Rd. 23, Lake Ridge Rd. from 0.1 km south of Vallentyne to 0.25 km north of Ravenshoe Rd., Road rehabilitation and curve reconfiguration, Uxbridge / Brock	Pre-Construction	150	-	-	-	-	-		
		Construction	-	2,500	-	-	-	-		
		Total	150	2,500	-	-	-	-		


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
					2025	2026	2027	2028	2029-2033	
155	Reg. Rd. 23, Beach Rd. / Commodore Rd. Intersection, Curve Reconfiguration, Brock	Pre-Construction	-	-	-	-	250	-	100	350
		Construction	-	-	-	-	-	-	1,250	1,250
		Total	-	-	-	-	250	-	1,350	1,600
156	Reg. Rd. 23, Mara Rd. / Shore Line Rd. Intersection, Curve Reconfiguration, Brock	Pre-Construction	-	-	-	-	250	-	100	350
		Construction	-	-	-	-	-	-	1,800	1,800
		Total	-	-	-	-	250	-	1,900	2,150
157	Reg. Rd. 28, Rossland Rd. from Cochrane St. to Whitburn St. / Redoak St., Road Rehabilitation (combined with intersection item 71), Whitby	Pre-Construction	-	-	-	-	-	-	-	-
		Construction	-	-	1,300	-	-	-	-	1,300
		Total	-	-	1,300	-	-	-	-	1,300
158	Reg. Rd. 28, Rossland Rd. from Park Rd. to Simcoe St., Road rehabilitation / reconstruction in conjunction with bridge rehabilitation. Associated water supply works, Oshawa	Pre-Construction	-	150	250	400	-	-	-	800
		Construction	-	-	-	-	-	-	5,000	5,000
		Total	-	150	250	400	-	-	5,000	5,800
159	Reg. Rd. 31, Westney Rd. from Finley Ave. to Harwood Ave., Road rehabilitation (combined with intersection item 77) Associated water supply works., Ajax	Pre-Construction	120	-	80	-	-	-	-	80
		Construction	-	-	-	3,275	-	-	-	3,275
		Total	120	-	80	3,275	-	-	-	3,355
160	Reg. Rd. 42, Darlington - Clark Townline Rd. from 50 m north of Reg. Hwy. 2 to Concession St., Road rehabilitation / reconstruction, Clarington	Pre-Construction	-	-	-	-	-	-	-	-
		Construction	-	3,000	-	-	-	-	-	3,000
		Total	-	3,000	-	-	-	-	-	3,000
161	Reg. Rd. 56, Farewell St. from Harbour Rd. to Bloor St., Road rehabilitation / reconstruction. Associated water supply works, Oshawa	Pre-Construction	-	-	-	-	-	-	-	-
		Construction	200	-	-	-	-	-	-	-
		Total	200	-	-	-	-	-	-	-
162	Reg. Rd. 59, Olive Ave. from Simcoe St. to Drew St., Road rehabilitation / reconstruction in conjunction with water / sewer project, Oshawa	Pre-Construction	-	-	-	-	-	-	-	-
		Construction	275	-	-	-	-	-	-	-
		Total	275	-	-	-	-	-	-	-


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
163	Reg. Rd. 60, Wentworth St. from Park Rd. to west of Cedar St., Road rehabilitation / reconstruction, Oshawa	Pre-Construction	-	-	-	-	-	-	-
		Construction	1,500	-	-	-	-	-	-
		Total	1,500	-	-	-	-	-	-
164	Reg. Rd. 60, Wentworth St. from west of Cedar St. to Farewell St., Road rehabilitation / reconstruction (combined with intersection item 114), Oshawa	Pre-Construction	-	825	-	-	-	-	825
		Construction	-	4,000	9,600	-	-	-	13,600
		Total	-	4,825	9,600	-	-	-	14,425
165	Reg. Hwy. 2 from Ovens Rd. to East Townline Rd., Road rehabilitation, Clarington	Pre-Construction	-	-	-	-	-	-	-
		Construction	1,250	-	-	-	-	-	-
		Total	1,250	-	-	-	-	-	-
166	Reg. Hwy. 47 from 0.9 km east of Reg. Rd. 30 to west of Reg. Rd. 21, Road rehabilitation, Uxbridge	Pre-Construction	-	-	-	-	-	-	-
		Construction	2,500	-	-	-	-	-	-
		Total	2,500	-	-	-	-	-	-
167	Road Resurfacing and Rehabilitation Preparatory Activities Allowance, Various	Pre-Construction	350	350	350	350	350	1,750	3,150
		Construction	-	-	-	-	-	-	-
		Total	350	350	350	350	350	1,750	3,150
168	Road Rehabilitation Program, Various	Pre-Construction	-	-	-	-	-	-	-
		Construction	500	2,700	2,800	2,900	3,000	15,000	26,400
		Total	500	2,700	2,800	2,900	3,000	15,000	26,400
169	Road Resurfacing / Rehabilitation Other Locations, Various	Pre-Construction	-	-	-	-	-	-	-
		Construction	12,320	16,675	14,670	17,775	36,150	204,800	290,070
		Total	12,320	16,675	14,670	17,775	36,150	204,800	290,070
Road Rehabilitation / Reconstruction Projects Subtotal			38,660	47,000	47,000	47,000	47,000	235,000	423,000
Structure Rehabilitation / Replacement									
170	Bridge Maintenance and Repairs Program, Various	Pre-Construction	-	-	-	-	-	-	-
		Construction	260	260	260	260	260	1,300	2,340
		Total	260	260	260	260	260	1,300	2,340


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
2025					2026	2027	2028	2029-2033		
171	Culvert Maintenance and Repairs Program, Various	Pre-Construction	-	-	-	-	-	-	-	
		Construction	250	250	250	250	250	1,250	2,250	
		Total	250	250	250	250	250	1,250	2,250	
172	Reg. Rd. 1, Brock Rd. Over Duffins Creek Bridge, 0.37 km north of Kingston Rd., Bridge rehabilitation, Pickering	Pre-Construction	-	-	-	-	-	100	100	
		Construction	-	-	-	-	-	600	600	
		Total	-	-	-	-	-	700	700	
173	Reg. Rd. 1, Main St. Over Uxbridge Brook Culvert, 0.3 km north of Brock St., Culvert rehabilitation, Uxbridge	Pre-Construction	-	-	-	-	-	150	150	
		Construction	-	-	-	-	-	1,800	1,800	
		Total	-	-	-	-	-	1,950	1,950	
174	Reg. Rd. 2, Simcoe St. Culvert, 0.5 km north of Scugog Line 3, Culvert rehabilitation, Scugog	Pre-Construction	-	-	-	-	-	50	50	
		Construction	-	-	-	-	-	350	350	
		Total	-	-	-	-	-	400	400	
175	Reg. Rd. 2, Seagrave Bridge, 0.55 km south of Saintfield Rd., Bridge rehabilitation, Scugog	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	2,950	-	-	-	-	2,950	
		Total	-	2,950	-	-	-	-	2,950	
176	Reg. Rd. 3, Bickle Bridge, 1.1 km east of Thickson Rd., Bridge rehabilitation, Whitby	Pre-Construction	-	-	-	-	-	125	125	
		Construction	-	-	-	-	-	2,000	2,000	
		Total	-	-	-	-	-	2,125	2,125	
177	Reg. Rd. 3, Winchester Rd. Culvert, 0.3 km west of Given Rd., Culvert rehabilitation, Oshawa	Pre-Construction	-	75	-	-	-	-	75	
		Construction	-	-	-	1,300	-	-	1,300	
		Total	-	75	-	1,300	-	-	1,375	
178	Reg. Rd. 3, Enniskillen Bridge, 2.1 km west of Scugog Rd., Bridge rehabilitation, Clarington	Pre-Construction	-	-	-	200	-	-	200	
		Construction	-	-	-	-	-	2,400	2,400	
		Total	-	-	-	200	-	2,400	2,600	
179	Reg. Rd. 4, W.A. Twelvetrees Bridge, 0.3 km east of Whites Rd., Bridge rehabilitation of existing 4 lane structure, Pickering	Pre-Construction	200	-	-	-	-	-	-	
		Construction	-	-	7,500	-	-	-	7,500	
		Total	200	-	7,500	-	-	-	7,500	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
180	Reg. Rd. 4, Taunton Rd. west Over CPR Bridge, 0.8 km east of Brock Rd., Bridge rehabilitation, Pickering	Pre-Construction	-	-	-	-	-	75	75
		Construction	-	-	-	-	-	500	500
		Total	-	-	-	-	-	575	575
181	Reg. Rd. 4, CPR over Taunton Rd. Bridge, 0.8 km east of Westney Rd., Bridge rehabilitation, Ajax	Pre-Construction	-	-	-	-	-	100	100
		Construction	-	-	-	-	-	600	600
		Total	-	-	-	-	-	700	700
182	Reg. Rd. 4, Taunton Rd. Cross-culvert, east of Thornton Rd., Culvert rehabilitation, Oshawa	Pre-Construction	-	-	250	-	-	-	250
		Construction	-	-	-	-	1,350	-	1,350
		Total	-	-	250	-	1,350	-	1,600
183	Reg. Rd. 4, Taunton Rd. Culvert, 0.9 km east of Courtice Rd., Culvert Replacement in conjunction with road rehabilitation, Clarington	Pre-Construction	-	-	-	-	-	-	-
		Construction	-	-	-	3,000	-	-	3,000
		Total	-	-	-	3,000	-	-	3,000
184	Reg. Rd. 4, Hampton Bridge, 1.0 km west of Bowmanville Ave., Bridge rehabilitation / replacement in conjunction with road rehabilitation, Clarington	Pre-Construction	-	-	-	-	-	-	-
		Construction	-	-	3,100	-	-	-	3,100
		Total	-	-	3,100	-	-	-	3,100
185	Reg. Rd. 4, Taunton Rd. Culvert, 0.7 km east of Bethesda Rd., Culvert rehabilitation, Clarington	Pre-Construction	-	-	-	-	-	-	-
		Construction	-	750	-	-	-	-	750
		Total	-	750	-	-	-	-	750
186	Reg. Rd. 4, Soper Creek Bridge, 2.97 km east of Liberty St., Bridge rehabilitation, Clarington	Pre-Construction	-	-	-	-	-	-	-
		Construction	-	2,550	-	-	-	-	2,550
		Total	-	2,550	-	-	-	-	2,550
187	Reg. Rd. 4, Wilmot Creek Bridge, 1.3 km east of Reg. Rd. 42, Bridge rehabilitation, Clarington	Pre-Construction	125	-	-	-	-	-	-
		Construction	-	1,450	-	-	-	-	1,450
		Total	125	1,450	-	-	-	-	1,450
188	Reg. Rd. 5, Ninth Concession Rd. Bridge, 0.04 km east of Sideline 30, Bridge rehabilitation, Pickering	Pre-Construction	-	-	100	-	-	-	100
		Construction	-	-	-	-	300	-	300
		Total	-	-	100	-	300	-	400


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 Durham Budget 2024		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
189	Reg. Rd. 5, Ninth Concession Rd. Bridge, 0.16 km west of Sideline 28, Bridge rehabilitation, Pickering	Pre-Construction	-	-	100	-	-	-	100
		Construction	-	-	-	-	300	-	300
		Total	-	-	100	-	300	-	400
190	Reg. Rd. 5, Ninth Concession Rd. Bridge, 0.5 km east of Sideline 22, Bridge rehabilitation, Pickering	Pre-Construction	-	-	50	-	-	-	50
		Construction	-	-	-	-	300	-	300
		Total	-	-	50	-	300	-	350
191	Reg. Rd. 5, Central St. Over Mitchell Creek Tributary Bridge, 1 km west of Brock Rd., Bridge replacement, Pickering	Pre-Construction	-	-	-	-	-	-	-
		Construction	1,500	-	-	-	-	-	-
		Total	1,500	-	-	-	-	-	-
192	Reg. Rd. 5, Ninth Concession Rd. Over Duffins Creek Tributary Culvert, 0.05 km west of Sideline 12, Culvert replacement, Pickering	Pre-Construction	-	-	-	-	-	-	-
		Construction	1,950	-	-	-	-	-	-
		Total	1,950	-	-	-	-	-	-
193	Reg. Rd. 6, Saintfield Rd. Bridge, 4 km east of Hwy. 12, Bridge replacement, Scugog	Pre-Construction	-	-	-	-	-	-	-
		Construction	4,000	-	-	-	-	-	-
		Total	4,000	-	-	-	-	-	-
194	Reg. Rd. 6 Over Nonquon River Tributary Culvert, 1.1 km west of Simcoe St., Culvert rehabilitation, Scugog	Pre-Construction	-	-	-	-	-	50	50
		Construction	-	-	-	-	-	300	300
		Total	-	-	-	-	-	350	350
195	Reg. Rd. 8 Over Pepperlaw Brook Tributary Culvert, 0.3 km west of Concession 4, Culvert replacement, Uxbridge	Pre-Construction	175	-	-	-	-	-	-
		Construction	-	-	-	1,000	-	-	1,000
		Total	175	-	-	1,000	-	-	1,000
196	Reg. Rd. 8, Brock St. W Culvert, 0.05 km west of Victoria St., Culvert replacement, Uxbridge	Pre-Construction	-	-	-	-	-	200	200
		Construction	-	-	-	-	-	2,300	2,300
		Total	-	-	-	-	-	2,500	2,500
197	Reg. Rd. 8, Reach St. Culvert, 0.4 km east of Lake Ridge Rd., Culvert rehabilitation, Scugog	Pre-Construction	-	-	-	75	-	-	75
		Construction	-	-	-	-	-	1,000	1,000
		Total	-	-	-	75	-	1,000	1,075


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033			
198	Reg. Rd. 9, Ganaraska Rd. Cross Culvert, east of Regional Road 18, Culvert replacement, Clarington	Pre-Construction	-	-	-	-	-	-	-	
		Construction	100	-	-	-	-	-	-	
		Total	100	-	-	-	-	-	-	
199	Reg. Rd. 11, Sandford Rd Over Uxbridge Brook Tributary Culvert, 0.1 km west of Concession 5, Culvert rehabilitation, Uxbridge	Pre-Construction	-	-	-	-	50	50		
		Construction	-	-	-	-	300	300		
		Total	-	-	-	-	350	350		
200	Reg. Rd. 12, Dobson Bridge, 0.2 km east of McRae St., Bridge rehabilitation in conjunction with watermain replacement, Brock	Pre-Construction	125	-	-	-	-	-		
		Construction	-	1,500	-	-	-	1,500		
		Total	125	1,500	-	-	-	1,500		
201	Reg. Rd. 12, Cameron St. over Beaver River Tributary Cross-culvert, Culvert replacement in conjunction with watermain replacement, Brock	Pre-Construction	-	-	-	-	-	-		
		Construction	-	1,550	-	-	-	1,550		
		Total	-	1,550	-	-	-	1,550		
202	Reg. Rd. 13 Retaining Wall, 0.2 km east of Hwy. 7 / 12, north side, Retaining wall replacement, Brock	Pre-Construction	-	-	-	-	30	30		
		Construction	-	-	-	-	300	300		
		Total	-	-	-	-	330	330		
203	Reg. Rd. 14, Liberty St. north of Concession Road 3 Cross-culvert, Culvert replacement, Clarington	Pre-Construction	-	-	300	-	-	300		
		Construction	-	-	-	-	650	650		
		Total	-	-	300	-	650	950		
204	Reg. Rd. 15, McRae Bridge, 1.0 km west of Thorah Sideroad, Bridge rehabilitation, Brock	Pre-Construction	-	-	125	-	-	125		
		Construction	-	-	-	-	2,000	2,000		
		Total	-	-	125	-	2,000	2,125		
205	Reg. Rd. 16, Ritson Rd. Over CNR Bridge, 0.2 km south of Bloor St., Bridge rehabilitation. 50% of costs to be recovered from CNR as per Board Order No. 98034, Oshawa	Pre-Construction	-	-	-	-	-	-		
		Construction	-	5,250	-	-	-	5,250		
		Total	-	5,250	-	-	-	5,250		


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033			
206	Reg. Rd. 16, Ritson Rd. Lot 8 / 9 Concession 4 Culvert, 0.01 km North of Given Rd., Culvert rehabilitation, Oshawa	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	-	-	1,300	-	-	1,300	
		Total	-	-	-	1,300	-	-	1,300	
207	Reg. Rd. 17, Main St. Over Orono Creek Culvert, 0.8 km south of Station St., Culvert rehabilitation, Clarington	Pre-Construction	-	-	-	-	-	50	50	
		Construction	-	-	-	-	-	300	300	
		Total	-	-	-	-	-	350	350	
208	Reg. Rd. 18, Newtonville Rd. Culvert, 0.37 km south of Concession Rd. 3, Culvert rehabilitation, Clarington	Pre-Construction	-	-	100	-	-	-	100	
		Construction	-	-	-	-	1,500	-	1,500	
		Total	-	-	100	-	1,500	-	1,600	
209	Reg. Rd. 18, Newtonville Rd. Culvert, 0.1 km north of Concession Rd. 4, Culvert rehabilitation, Clarington	Pre-Construction	-	-	75	-	-	-	75	
		Construction	-	-	-	-	1,300	-	1,300	
		Total	-	-	75	-	1,300	-	1,375	
210	Reg. Rd. 18, Kendal Bridge, 1.18 km south of Ganaraska Rd., Bridge rehabilitation, Clarington	Pre-Construction	-	-	-	-	125	-	125	
		Construction	-	-	-	-	-	2,000	2,000	
		Total	-	-	-	-	125	2,000	2,125	
211	Reg. Rd. 19, Shirley Rd. Culvert, 0.45 km west of Sandy Rd., Culvert replacement, Scugog	Pre-Construction	-	-	-	-	-	200	200	
		Construction	-	-	-	-	-	2,400	2,400	
		Total	-	-	-	-	-	2,600	2,600	
212	Reg. Rd. 20, Mosport Rd. west of Liberty St. north Cross-culvert, Culvert replacement, Clarington	Pre-Construction	120	-	-	-	-	-	-	
		Construction	-	-	-	770	-	-	770	
		Total	120	-	-	770	-	-	770	
213	Reg. Rd. 22, Bayly St. at Westshore Blvd. Culvert, Culvert rehabilitation, Pickering	Pre-Construction	125	-	-	-	-	-	-	
		Construction	-	-	1,500	-	-	-	1,500	
		Total	125	-	1,500	-	-	-	1,500	
214	Reg. Rd. 22, Bloor St. W. Over Oshawa Creek, 0.2 km west of Simcoe St. S., Bridge rehabilitation, Oshawa	Pre-Construction	-	-	-	-	-	200	200	
		Construction	-	-	-	-	-	2,500	2,500	
		Total	-	-	-	-	-	2,700	2,700	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033			
215	Reg. Rd. 23, Lake Ridge Rd. Culvert 0.3 km north of Conc. Rd. 2, Culvert rehabilitation, Brock	Pre-Construction	-	-	-	-	-	-		
		Construction	-	1,200	-	-	-	-		
		Total	-	1,200	-	-	-	-		
216	Reg. Rd. 23, Lake Ridge Rd. Culvert north of Reg. Rd. 12, Culvert replacement, Brock	Pre-Construction	150	-	-	-	-	-		
		Construction	-	-	2,000	-	-	-		
		Total	150	-	2,000	-	-	-		
217	Reg. Rd. 23 Culvert, 1.0 km north of Thorah Concession Rd 7, Culvert rehabilitation, Brock	Pre-Construction	-	-	-	-	-	50		
		Construction	-	-	-	-	-	300		
		Total	-	-	-	-	-	350		
218	Reg. Rd. 26, Thickson Rd. Culvert at Wentworth St., Culvert rehabilitation in conjunction with watermain replacement, Whitby	Pre-Construction	-	-	-	-	-	-		
		Construction	1,300	-	-	-	-	-		
		Total	1,300	-	-	-	-	-		
219	Reg. Rd. 26, Thickson Rd. south of Taunton Rd. Cross-culvert , Culvert replacement, Whitby	Pre-Construction	280	-	-	-	-	-		
		Construction	-	-	-	1,840	-	-		
		Total	280	-	-	1,840	-	-		
220	Reg. Rd. 27, Altona Rd. Over Petticoat Creek Tributary Culvert, 0.6 km north of Twyn Rivers Dr., Culvert rehabilitation, Pickering	Pre-Construction	-	-	-	-	-	100		
		Construction	-	-	-	-	-	650		
		Total	-	-	-	-	-	750		
221	Reg. Rd. 27, Altona Rd. Over Petticoat Creek Tributary Culvert, 0.2 km north of Finch Ave., Culvert replacement, Pickering	Pre-Construction	-	-	-	-	-	200		
		Construction	-	-	-	-	-	2,100		
		Total	-	-	-	-	-	2,300		
222	Reg. Rd. 27, Altona Rd. Over Petticoat Creek Tributary Culvert, 1.1 km north of Finch Ave., Culvert rehabilitation, Pickering	Pre-Construction	-	-	-	-	-	50		
		Construction	-	-	-	-	-	750		
		Total	-	-	-	-	-	800		
223	Reg. Rd. 28, Rossland Rd. west of Anderson St. Cross-culvert , Culvert replacement, Whitby	Pre-Construction	250	-	-	-	-	-		
		Construction	-	-	1,620	-	-	-		
		Total	250	-	1,620	-	-	-		


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033			
224	Reg. Rd. 28, Rossland Rd. Over Oshawa Creek, 0.45 km east of Park Rd., Bridge rehabilitation in conjunction with road rehabilitation / reconstruction, Oshawa	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	-	-	-	-	5,100	5,100	
		Total	-	-	-	-	-	5,100	5,100	
225	Reg. Rd. 29, Liverpool Rd. Over CNR Bridge, 0.1 km north of Bayly St., Bridge rehabilitation, Pickering	Pre-Construction	-	-	-	-	150	-	150	
		Construction	-	-	-	-	-	2,500	2,500	
		Total	-	-	-	-	150	2,500	2,650	
226	Reg. Rd. 31, Westney Rd. Over Miller Creek West Bridge, 0.1 km north of Ritchie Ave., Bridge rehabilitation, Ajax	Pre-Construction	100	-	-	-	-	-	-	
		Construction	-	-	-	1,100	-	-	1,100	
		Total	100	-	-	1,100	-	-	1,100	
227	Reg. Rd. 31, Westney Rd. Over Miller Creek East Bridge, 0.1 km north of Ritchie Ave., Bridge rehabilitation, Ajax	Pre-Construction	100	-	-	-	-	-	-	
		Construction	-	-	-	750	-	-	750	
		Total	100	-	-	750	-	-	750	
228	Reg. Rd. 31, Westney Rd. Over CPR Bridge, 0.4 km north of Taunton Rd., Bridge rehabilitation, Ajax	Pre-Construction	350	-	-	-	-	-	-	
		Construction	-	-	4,200	-	-	-	4,200	
		Total	350	-	4,200	-	-	-	4,200	
229	Reg. Rd. 31, Bayles Bridge, 2.8 km east of Brock Rd., Bridge rehabilitation, Pickering	Pre-Construction	-	-	-	175	-	-	175	
		Construction	-	-	-	-	-	2,000	2,000	
		Total	-	-	-	175	-	2,000	2,175	
230	Reg. Rd. 31, Seventh Concession Rd. Over Brougham Creek Tributary Culvert, 0.34 km west of Paddock Rd., Culvert replacement, Pickering	Pre-Construction	-	175	-	-	-	-	175	
		Construction	-	-	-	1,700	-	-	1,700	
		Total	-	175	-	1,700	-	-	1,875	
231	Reg. Rd. 33, Harmony Rd. Over CPR Bridge, 0.2 km south of Olive Ave., Bridge rehabilitation / replacement. Coordinate with Metrolinx extension to Bowmanville, Oshawa	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	2,400	-	-	-	-	2,400	
		Total	-	2,400	-	-	-	-	2,400	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033			
232	Reg. Rd. 33, Hoskin Bridge, 0.55 km north of Rossland Rd. East, Bridge rehabilitation, Oshawa	Pre-Construction	-	-	-	-	-	125	125	
		Construction	-	-	-	-	-	2,000	2,000	
		Total	-	-	-	-	-	2,125	2,125	
233	Reg. Rd. 34, Courtice Rd. north of Reg. Hwy. 2 Cross-culvert , Culvert replacement, Clarington	Pre-Construction	270	-	-	-	-	-	-	
		Construction	-	-	1,780	-	-	-	1,780	
		Total	270	-	1,780	-	-	-	1,780	
234	Reg. Rd. 34, Enfield Rd. south of Hwy. 407 Cross-culvert , Culvert replacement, Clarington	Pre-Construction	80	-	-	-	-	-	-	
		Construction	-	-	490	-	-	-	490	
		Total	80	-	490	-	-	-	490	
235	Reg. Rd. 35, Wilson Rd. North Pedestrian Underpass, 0.69 km north of Rossland Rd. East, Bridge rehabilitation, Oshawa	Pre-Construction	-	-	-	100	-	-	100	
		Construction	-	-	-	-	-	1,500	1,500	
		Total	-	-	-	100	-	1,500	1,600	
236	Reg. Rd. 46, Brock St. Over CNR Bridge, 0.1 km south of Hwy. 401, Bridge rehabilitation, Whitby	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	-	-	-	-	1,750	1,750	
		Total	-	-	-	-	-	1,750	1,750	
237	Reg. Rd. 50, Morgan Bridge, 3.1 km east of Reg. Rd. 51, Bridge rehabilitation. This boundary bridge is a partnership project with Simcoe County. 50% of costs to be recovered by Simcoe County, Brock	Pre-Construction	-	200	-	-	-	-	200	
		Construction	-	-	-	2,000	-	-	2,000	
		Total	-	200	-	2,000	-	-	2,200	
238	Reg. Rd. 53, Stevenson Rd. Over CNR Bridge, 0.9 km north of Wentworth St., Bridge rehabilitation, Oshawa	Pre-Construction	-	-	200	-	-	-	200	
		Construction	-	-	-	-	2,500	-	2,500	
		Total	-	-	200	-	2,500	-	2,700	
239	Reg. Rd. 53, Stevenson Rd. Over CPR Bridge, 0.4 km north of Laval Dr., Bridge rehabilitation / replacement. Coordinate with Metrolinx extension to Bowmanville, Oshawa	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	2,000	-	-	-	-	2,000	
		Total	-	2,000	-	-	-	-	2,000	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033		
240	Reg. Rd. 54, Park Rd. Over CPR Bridge, 0.48 km south of Gibb St., Bridge rehabilitation. Coordinate with Metrolinx extension to Bowmanville, Oshawa	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	3,500	-	-	-	-	3,500	
		Total	-	3,500	-	-	-	-	3,500	
241	Reg. Rd. 55, Townline Rd., 0.15km south of Beatrice St. Cross-culvert, Culvert replacement, Oshawa / Clarington	Pre-Construction	-	125	-	-	-	-	125	
		Construction	-	-	-	1,500	-	-	1,500	
		Total	-	125	-	1,500	-	-	1,625	
242	Reg. Rd. 57, Bowmanville Creek Bridge, 1.9 km north of Reg. Hwy. 2, Bridge rehabilitation, Clarington	Pre-Construction	250	-	-	-	-	-	-	
		Construction	-	4,800	-	-	-	-	4,800	
		Total	250	4,800	-	-	-	-	4,800	
243	Reg. Rd. 57, Burketon CPR Bridge, 3.3 km south of Shirley Rd., Bridge Replacement, Clarington	Pre-Construction	-	-	-	-	-	-	-	
		Construction	6,000	-	-	-	-	-	-	
		Total	6,000	-	-	-	-	-	-	
244	Reg. Rd. 58, Manning Rd. Culvert, 0.3 km east of Thickson Rd., Culvert rehabilitation, Whitby	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	-	-	1,300	-	-	1,300	
		Total	-	-	-	1,300	-	-	1,300	
245	Reg. Rd. 58, Adelaide Ave. W. Over Oshawa Creek Bridge, 0.6 km west of Simcoe St., Bridge rehabilitation, Oshawa	Pre-Construction	-	-	-	-	-	180	180	
		Construction	-	-	-	-	-	2,500	2,500	
		Total	-	-	-	-	-	2,680	2,680	
246	Reg. Rd. 58, Adelaide Ave. Culvert, 0.05 km west of Wilson Rd., Culvert rehabilitation, Oshawa	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	1,300	-	-	-	-	1,300	
		Total	-	1,300	-	-	-	-	1,300	
247	Reg. Rd. 59, Gibb St. Over Oshawa Creek Bridge, 0.4 km east of Park Rd., Bridge rehabilitation in conjunction with road rehabilitation, Oshawa	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	-	-	4,100	-	-	4,100	
		Total	-	-	-	4,100	-	-	4,100	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
248	Reg. Hwy. 2, Kingston Rd. Over Duffins Creek Bridge, 0.6 km west of Church St., Bridge rehabilitation, Ajax	Pre-Construction	-	-	-	-	-	-	-
		Construction	-	-	-	-	1,500	-	1,500
		Total	-	-	-	-	1,500	-	1,500
Structure Rehabilitation / Replacement Subtotal			18,060	32,285	24,000	22,720	12,485	45,435	136,925
Traffic Control & Other Programs - Non-Growth									
249	Miscellaneous Road and Storm Sewer Reconstruction Projects, Various	Pre-Construction	-	-	-	-	-	-	-
		Construction	400	400	400	400	400	2,000	3,600
		Total	400	400	400	400	400	2,000	3,600
250	Signal Modernization Program, Various	Pre-Construction	-	-	-	-	-	-	-
		Construction	1,510	1,645	1,475	1,460	1,390	8,980	14,950
		Total	1,510	1,645	1,475	1,460	1,390	8,980	14,950
251	Accessible Pedestrian Signal (APS) Installation Program, Various	Pre-Construction	-	-	-	-	-	-	-
		Construction	1,000	1,000	850	850	850	4,250	7,800
		Total	1,000	1,000	850	850	850	4,250	7,800
252	Advance Traffic Management Systems (ATMS) Upgrades, Various	Pre-Construction	-	-	-	-	-	-	-
		Construction	1,755	95	65	100	80	475	815
		Total	1,755	95	65	100	80	475	815
253	Uninterruptible Power Supply (UPS) Installation Program, Various	Pre-Construction	-	-	-	-	-	-	-
		Construction	500	500	500	500	500	2,500	4,500
		Total	500	500	500	500	500	2,500	4,500
254	Contingencies Non-Development Related, Various	Pre-Construction	-	-	-	-	-	-	-
		Construction	100	100	100	100	100	500	900
		Total	100	100	100	100	100	500	900
Traffic Control & Other Programs - Non-Growth Subtotal			5,265	3,740	3,390	3,410	3,320	18,705	32,565


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
					2025	2026	2027	2028	2029-2033	
Road & Traffic Safety Program (Vision Zero)										
255	Roadside Safety Program, Various	Pre-Construction	-	-	-	-	-	-	-	-
		Construction	800	800	800	800	800	4,000	7,200	
		Total	800	800	800	800	800	4,000	7,200	
256	Durham Vision Zero Program, Various	Pre-Construction	-	-	-	-	-	-	-	-
		Construction	650	500	814	-	-	-	1,314	
		Total	650	500	814	-	-	-	1,314	
Road & Traffic Safety Program (Vision Zero) Subtotal				1,450	1,300	1,614	800	800	4,000	8,514
Cycling Infill Projects										
257	Cycling Infill Projects, Various	Pre-Construction	-	-	-	-	-	-	-	-
		Construction	900	900	1,000	1,000	1,000	8,500	12,400	
		Total	900	900	1,000	1,000	1,000	8,500	12,400	
Cycling Infill Projects Subtotal				900	900	1,000	1,000	1,000	8,500	12,400
Building & Structures										
258	Depot Rationalization - Ajax Depot Expansion	Pre-Construction	-	-	-	-	-	-	-	-
		Construction	11,667	-	-	-	-	-	-	
		Total	11,667	-	-	-	-	-	-	
259	20 Bay Cold Vehicle Storage - Orono Depot Expansion	Pre-Construction	-	-	-	-	73	-	73	
		Construction	-	-	-	-	-	1,193	1,193	
		Total	-	-	-	-	73	1,193	1,266	
260	Salt and Brine Storage Building - Orono Depot Expansion	Pre-Construction	-	-	-	-	117	-	117	
		Construction	-	-	-	-	-	1,050	1,050	
		Total	-	-	-	-	117	1,050	1,167	
261	Depot Rationalization - New Oshawa/Whitby Depot	Pre-Construction	1,667	-	-	-	-	-	-	
		Construction	-	55,000	-	-	-	-	55,000	
		Total	1,667	55,000	-	-	-	-	55,000	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033		
262	New 16 Bay Cold Vehicle Storage - Scugog Depot Expansion	Pre-Construction	-	-	73	-	-	-	73	
		Construction	-	-	-	993	-	-	993	
		Total	-	-	73	993	-	-	1,066	
263	New Salt and Brine Storage Facility - Scugog Depot Expansion	Pre-Construction	-	-	100	-	-	-	100	
		Construction	-	-	-	1,067	-	-	1,067	
		Total	-	-	100	1,067	-	-	1,167	
264	Depot Rationalization - New Sunderland Depot	Pre-Construction	1,333	-	-	-	-	-	-	
		Construction	-	14,000	-	-	-	-	14,000	
		Total	1,333	14,000	-	-	-	-	14,000	
265	Additional Office Space - Scugog Depot		-	-	93	407	-	-	500	
266	Construction of Mezzanine in Fleet Area - Scugog Depot		-	160	-	-	-	-	160	
267	Construction of Mezzanine in Fleet Bay 1 - Orono Depot		-	-	67	-	-	-	67	
268	Improve Turning Radius of Ramp - 101 Consumers		-	-	-	-	264	-	264	
269	Materials Testing Lab Relocation - Oshawa/Whitby Depot		668	-	-	-	-	-	-	
270	Repairs and Epoxy Coat Fleet Bay - Scugog Depot		57	-	-	-	-	-	-	
271	Replace Existing Asphalt in Various Location - Scugog Depot		-	10	123	-	-	-	133	
272	Replacement of Windows - Oshawa/Whitby Depot		-	-	-	-	83	-	83	


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
273	Roof Replacement for Administration section - 101 Consumers		-	-	-	-	495	-	495
274	Roof Replacement on Vehicle Storage Bays - Orono Depot		173	-	-	-	-	-	-
275	Thermal Glass Panels for Rollup Doors and Door operators - Orono Depot		66	-	-	-	-	-	-
276	Widening of Existing Canopy Entrance - Sunderland Depot		41	-	-	-	-	-	-
Building & Structures Subtotal			15,672	69,170	456	2,467	1,032	2,243	75,368
Machinery & Equipment									
277	48" Round Shoring - Various Locations		-	-	3	-	-	6	9
278	Asphalt Content Ignition Furnace - Construction		-	-	-	-	-	7	7
279	Concrete Testing Equipment - Construction		-	-	-	-	-	9	9
280	Electronic Scale - Construction		-	-	-	-	-	3	3
281	Lab Oven - Various Locations		-	-	-	-	-	4	4
282	Latex Printer/Cutter - Traffic Engineering & Operations		-	35	-	-	-	-	35
283	Metal Detector - Sunderland Depot		-	-	-	-	-	-	-


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
284	North Dock Leveler Replacement - Oshawa/Whitby Depot		-	10	-	-	-	-	10
285	Nuclear Densometer - Construction		-	5	-	-	-	-	5
286	Pipe Locator - Various Locations		-	-	-	-	3	3	6
287	Portable Variable Message Signs - Traffic Engineering & Operations		-	200	-	-	-	-	200
288	Pressure Washer - Sunderland Depot		-	3	-	-	-	-	3
289	Replace 15,000 lbs Above Ground Hoist - Oshawa/Whitby Depot		-	-	28	-	-	-	28
290	Rollover flat bed applicator - Traffic Engineering & Operations		-	32	-	-	-	-	32
291	Safety Barrel Cones - Scugog Depot		-	-	-	-	-	1	1
292	Security Platform Replacement - Various Locations		13	-	-	-	-	-	-
293	Snow Fence Replacement - Various Locations		-	-	-	-	3	6	9
294	Survey GPS Instrument - Construction		10	10	10	10	17	37	84
295	Survey Total Station Replacement - Construction		17	-	17	-	17	34	68


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

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 Durham Budget 2024		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
296	Temporary Traffic Control Sign Replacement - Various Locations		-	2	-	2	-	6	10
297	Trench Box Replacement - Sunderland Depot		-	-	-	-	5	-	5
Machinery & Equipment Subtotal			40	296	58	11	45	115	525
Information Technology Infrastructure									
298	Bridge Management System (BMS) Software - Transportation-Infrastructure		-	200	-	-	-	-	200
299	Computers & Monitors Refresh - Financial Services		223	259	239	258	294	1,241	2,291
300	dTIMS Software Upgrades - Transportation-Infrastructure		-	-	-	-	50	-	50
301	Fuel Management System & Infrastructure Replacement - Various Locations		-	217	-	-	-	-	217
302	Large Format Colour Plotter - Traffic Engineering & Operations		30	-	-	-	-	25	25
303	Power Laptops - Various Locations		10	182	46	27	27	65	347
304	Scanner and Wide Format Black & White Printer - Construction		-	-	22	-	-	-	22
305	Standard Laptops		-	7	-	-	-	-	7
Information Technology Infrastructure Subtotal			263	865	306	285	371	1,330	3,157


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget2024		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
Vehicles									
306	1 Ton High Roof Van - Various Locations		-	-	-	53	-	-	53
307	1 Ton Plow Truck - Ajax Depot		145	-	-	-	-	-	-
308	1 Ton Plow Truck - Sunderland Depot		145	-	-	-	-	-	-
309	1/2 ton Pick-up Truck - Traffic Engineering & Operations		840	625	35	35	105	-	800
310	1/4 Ton Pick-up Truck - 289 Water St. (Facilities Maintenance)		-	24	-	-	-	-	24
311	2 Ton Truck - Oshawa/Whitby Depot		-	-	-	-	-	67	67
312	3 Ton Crew Cab - Various Locations		1,835	62	-	-	-	-	62
313	3 Ton Service Truck - Traffic Engineering & Operations		1,100	-	-	-	-	-	-
314	3/4 Ton Pick Up Truck - Various Locations		125	167	-	-	-	-	167
315	3/4 Ton Van - Ajax WSP		160	-	-	-	-	-	-
316	5 Ton Flatbed - Traffic Engineering & Operations		625	-	-	-	-	-	-
317	6 Ton Tandem - Orono Depot		649	-	-	-	-	-	-


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
318	6 Ton Tandem - Oshawa/Whitby Depot		650	-	-	-	-	-	-
319	6 Ton Tandem - Sunderland Depot		650	-	-	-	-	-	-
320	Asphalt Grinder Attachment (Skid Steer Loader) - Oshawa/Whitby Depot		-	-	8	-	-	-	8
321	Asphalt Hot Box - Ajax Depot		72	-	-	-	-	-	-
322	Asphalt Hot Box - Orono Depot		72	-	-	-	-	-	-
323	Asphalt Hot Box - Oshawa/Whitby Depot		72	-	-	-	-	-	-
324	Asphalt Hot Box - Scugog Depot		72	-	-	-	-	-	-
325	Asphalt Hot Box - Sunderland Depot		144	-	-	-	-	-	-
326	Backhoe with Breaker Attachment - Sunderland Depot		-	142	-	-	-	-	142
327	Breaker - Various Locations		150	-	-	-	-	-	-
328	Cube Van - 289 Water St		165	-	-	-	-	-	-
329	Emergency Fleet Equipment Replacement - Fleet		295	-	-	-	-	-	-
330	Enclosed Utility Trailer - Scugog Depot		-	17	-	-	-	-	17


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
331	Fleet Replacement Program Based on Useful Life - Fleet		-	2,259	4,571	1,814	7,501	16,478	32,623
332	Forklift - Ajax Depot		42	-	-	-	-	-	-
333	Generator - Oshawa/Whitby Depot		15	-	-	-	-	-	-
334	Geodimeter - Construction		396	-	-	-	-	-	-
335	Gradall - Orono Depot		950	-	-	-	-	-	-
336	Gradall - Sunderland Depot		950	-	-	-	-	-	-
337	Guard Rail Grass and Weed Cutter		-	125	-	-	-	-	125
338	Hybrid Van - Oshawa/Whitby Depot		-	-	17	-	-	-	17
339	Illuminated Sign Board - Scugog Depot		-	17	-	-	-	-	17
340	Large Paint Truck - Traffic Engineering & Operations		1,100	-	-	-	-	-	-
341	Liquid Spray Tank - Various Locations		300	-	-	-	-	-	-
342	Pole Trailer - Sunderland Depot		50	-	-	-	-	-	-
343	Rubber tire roller compaction unit - Orono Depot		-	20	-	-	-	-	20


Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
344	Sidewalk Plow/Snowblower - Oshawa/Whitby Depot		-	-	-	-	-	50	50
345	Single Axle Dump Truck - Ajax Depot		167	-	-	-	-	-	-
346	Single Axle Trailer - Oshawa/Whitby Depot		30	-	-	-	-	-	-
347	Single Axle Trailer - Traffic Engineering & Operations		35	-	-	-	-	-	-
348	Small Paint Truck - Traffic Engineering & Operations		882	-	-	-	-	-	-
349	Snow Blower - Oshawa/Whitby Depot		20	-	-	-	-	-	-
350	Snow Blower - Scugog Depot		300	-	-	-	-	-	-
351	Snow Blower for skid steer loader - Oshawa/Whitby Depot		-	10	-	-	-	-	10
352	Special Pump - Oshawa/Whitby Depot		85	-	-	-	-	-	-
353	Street Flusher - Oshawa/Whitby Depot		-	-	117	-	-	-	117
354	Street Sweeper attachment for Roadside Mower/Tractor - Oshawa/Whitby Depot		-	8	-	-	-	-	8
355	Tamper - Various Locations		83	-	-	-	-	-	-
356	Tandem Axle Dump Trailer - Sunderland Depot		-	12	-	-	-	-	12

Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
				2025	2026	2027	2028	2029-2033	
357	Tandem Axle Truck - Oshawa/Whitby Depot		-	83	-	-	-	-	83
358	Tandem Dump Trailer - Oshawa/Whitby Depot		32	-	-	-	-	-	-
359	Tandem Trailer - Various Locations		350	-	-	-	-	-	-
360	Tapping Machine - Oshawa/Whitby Depot		30	-	-	-	-	-	-
361	Tractor - Ajax Depot		2,368	-	-	-	-	-	-
362	Water Pump - Various Locations		18	-	-	-	-	-	-
Vehicles Subtotal			16,169	3,571	4,748	1,902	7,606	16,595	34,422
Furniture and Fixtures									
363	A/V Equipment and Technology Upgrades - Various Locations		-	20	10	10	10	10	60
364	Office Furniture - Various Locations		-	-	1	-	1	-	2
365	Parts Cabinets - Various Locations		125	-	-	-	-	-	-
Furniture and Fixtures Subtotal			125	20	11	10	11	10	62
Total Capital Regional Roads and Infrastructure			161,140	279,582	248,329	259,550	296,115	1,664,951	2,748,527

Appendix B: 2024-2033 Regional Roads and Infrastructure Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix A for financing details for capital projects proposed in 2024.

 Durham Budget 2024	Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033	

- * 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:

	2024	2025	2026	2027	2028	2029 - 2033	Grand Total
DC Shortfall							
Residential DC Shortfall	-	25,300	-	-	-	-	25,300
Commercial DC Shortfall	-	-	-	-	-	-	-
Institutional DC Shortfall	2,604	4,350	9,375	9,228	10,861	69,028	105,446
Industrial DC Shortfall	2,977	-	-	-	-	12,447	15,424
Total DC Shortfall	5,581	29,650	9,375	9,228	10,861	81,475	146,170
Shortfall Financing Source							
Regional Roads Levy	5,581	2,721	9,375	9,228	10,861	81,475	119,241
Debenture	-	26,929	-	-	-	-	26,929
Total Funding	5,581	29,650	9,375	9,228	10,861	81,475	146,170

Appendix C: 2024 Solid Waste Management Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix D for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div><div></div><div>DURHAM REGION</div></div><div>Durham Budget</div></div><div>2024</div></div></div>			Quantity	New / Replacement	2024 Proposed Financing								2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
Solid Waste Management																
Building and Structures																
4	Modifications and/or new waste management facilities - Optimization of older WMF sites and/or new sites for efficiencies/growth - Brock WMF		-		-	-	-	-	-	-	-	100	100	150	2,000	2,250
4	Modifications and/or new waste management facilities - Optimization of older WMF sites and/or new sites for efficiencies/growth - North/West Facility		-		-	-	-	-	-	-	-	100	100	-	9,000	9,100
8	Modifications and/or new waste management facilities - Optimization of older WMF sites and/or new sites for efficiencies/growth - Oshawa WMF		-		-	4,000	-	-	-	-	-	-	4,000	1,000	4,000	9,000
8	EV Chargers - Various Locations		3	New	-	-	-	-	-	-	-	26	26	-	-	26
Building and Structures Subtotal					-	4,000	-	-	-	-	-	226	4,226	1,150	15,000	20,376
Machinery & Equipment																
15	Replace Weigh Scale - Various Locations		1	Replacement	-	-	-	-	-	-	-	150	150	-	-	150
16	Roll-off Bin Replacement Program - Waste Facilities		17	Replacement	-	-	-	-	-	-	-	107	107	-	-	107
18	Security Platform Replacement - Various Locations		6	Replacement	-	-	-	-	-	-	-	21	21	-	-	21
Machinery & Equipment Subtotal					-	-	-	-	-	-	-	278	278	-	-	278
Information Technology Infrastructure																
19	Computer Printer - Waste Facilities		1	Replacement	-	-	-	-	-	-	-	3	3	-	-	3

Appendix C: 2024 Solid Waste Management Capital Projects (\$,000's)

Provides financing details for capital projects proposed in 2024. See Appendix D for the comprehensive 2024 capital budget and 2025-2033 forecast

<div><div><div><div></div><div>Durham</div><div>Budget</div></div></div><div>2024</div></div>			Quantity	New / Replacement	2024 Proposed Financing							2024 Proposed Budget	Approved Funding Prior to 2024	Forecast 2025-2033	Total Project to 2033
			Other	Reserve/ Reserve Funds	Industrial DCs	Institutional DCs	Commercial DCs	Residential DCs	Subsidy /Grant	Debenture	General Levy				
19	Computers & Monitors Refresh	1	Replacement	-	-	-	-	-	-	-	37	37	-	-	37
19	Ipad - Durham/York Energy Centre	2	New	-	-	-	-	-	-	-	2	2	-	-	2
19	Power Laptops - Various Locations	2	New	-	-	-	-	-	-	-	8	8	-	-	8
19	Toughbook Tablet with Monitor - Waste Admin - By-Law	1	New	-	-	-	-	-	-	-	3	3	-	-	3
Information Technology Infrastructure Subtotal					-	-	-	-	-	-	53	53	-	-	53
Vehicles															
	1/2 Ton Pick-up Truck - Various Locations	1	New	-	-	-	-	-	-	-	105	105	-	-	105
	Cube Van Upgrade - Various Locations	1	Replacement	-	-	-	-	-	-	-	70	70	-	-	70
Vehicles Subtotal					-	-	-	-	-	-	175	175	-	-	175
Solid Waste Management Subtotal					-	4,000	-	-	-	-	732	4,732	1,150	15,000	20,882
Total Capital Solid Waste Management					-	4,000	-	-	-	-	732	4,732	1,150	15,000	20,882

Appendix D: 2024 - 2033 Solid Waste Management Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix C for financing details for capital projects proposed in 2024

<div><div><div><div><div></div></div><div>DURHAM REGION</div></div><div><div>Durham</div><div>Budget</div></div></div><div>2024</div></div> <th>Expenditure Category</th> <th>2024 Proposed Budget</th> <th colspan="5">Forecast</th> <th>Forecast Total</th>			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
Solid Waste Management										
Building & Structures										
1	Provision for Long Term Waste Management Needs	Pre-Construction	-	-	-	10,000	-	-	10,000	
		Construction	-	-	-	-	-	-	-	
		Total	-	-	-	10,000	-	-	10,000	
2	Durham York Energy Centre - Consultant investigation - additional waste heat utilization / project construction	Pre-Construction	-	-	100	-	1,000	-	1,100	
		Construction	-	-	-	-	-	-	-	
		Total	-	-	100	-	1,000	-	1,100	
3	Modifications and/or new waste management facilities - Optimization of older WMF sites and/or new sites for efficiencies/growth - Scugog WMF	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	150	500	1,600	-	-	2,250	
		Total	-	150	500	1,600	-	-	2,250	
4	Modifications and/or new waste management facilities - Optimization of older WMF sites and/or new sites for efficiencies/growth - Oshawa WMF	Pre-Construction	-	-	-	-	-	-	-	
		Construction	4,000	4,000	-	-	-	-	4,000	
		Total	4,000	4,000	-	-	-	-	4,000	
5	Modifications and/or new waste management facilities - Optimization of older WMF sites and/or new sites for efficiencies/growth - Brock WMF	Pre-Construction	-	-	-	-	-	-	-	
		Construction	100	2,000	-	-	-	-	2,000	
		Total	100	2,000	-	-	-	-	2,000	
6	Modifications and/or new waste management facilities - Optimization of older WMF sites and/or new sites for efficiencies/growth - North/West Facility	Pre-Construction	-	-	-	-	-	-	-	
		Construction	100	1,000	4,500	3,500	-	-	9,000	
		Total	100	1,000	4,500	3,500	-	-	9,000	
7	Mixed Waste Pre-sort and Anaerobic Digestion Facility ¹	Pre-Construction	-	-	-	-	-	-	-	
		Construction	-	-	-	-	-	192,600	192,600	
		Total	-	-	-	-	-	192,600	192,600	
8	Equipment Storage Building - Oshawa WMF		-	540	-	-	-	-	540	
9	EV Chargers - Various Locations		26	-	-	-	-	-	-	

Appendix D: 2024 - 2033 Solid Waste Management Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix C for financing details for capital projects proposed in 2024


<div><div><div><div>DURHAM REGION</div></div><div>Durham Budget</div></div><div>2024</div></div> <div>Expenditure Category</div> <div>2024 Proposed Budget</div> <div data-cs="5" data-kind="parent">Forecast</div> <div data-kind="ghost"></div> <div data-kind="ghost"></div> <div data-kind="ghost"></div> <div data-kind="ghost"></div> <div>2025</div> <div>2026</div> <div>2027</div> <div>2028</div> <div>2029-2033</div> <div>Forecast Total</div>									
10	Extension of Concrete Retaining Wall - Brock WMF	-	119	-	-	-	-	-	119
11	Office Reconfiguration - Durham/York Energy Centre	-	145	-	-	-	-	-	145
12	Pave Area to North and East of Site - Scugog WMF	-	-	215	-	-	-	-	215
13	Perimeter Chain Link Fence Replacement - Oshawa WMF	-	172	-	-	-	-	-	172
14	Replace Inbound Scale House #2 - Oshawa WMF	-	100	-	-	-	-	-	100
15	Resurfacing Asphalt Paving - Oshawa WMF	-	-	-	350	270	-	-	620
16	Scale House - Various Locations	-	-	-	-	115	-	-	115
17	South Customer Disposal Area Enlargement - Oshawa WMF	-	275	1,575	-	-	-	-	1,850
Building & Structures Subtotal			4,226	8,501	6,890	15,450	1,385	192,600	224,826
Machinery & Equipment									
18	CCTV System Installation - Recycling Centre	-	22	-	-	-	-	-	22
19	Replace Weigh Scale - Various Locations	150	150	150	-	-	-	-	300
20	Roll-off Bin Replacement Program - Waste Facilities	107	107	107	107	107	535	963	

Appendix D: 2024 - 2033 Solid Waste Management Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix C for financing details for capital projects proposed in 2024

<div><div><div><div>DURHAM REGION</div></div><div>Durham Budget</div></div><div>2024</div></div>		Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033		
21 Security Platform Replacement - Various Locations			21	-	-	-	-	-	
Machinery & Equipment Subtotal			278	279	257	107	107	5351,285	
Information Technology Infrastructure									
22 Computer Printer - Waste Facilities			3	3	3	3	3	1527	
23 Computers & Monitors Refresh			37	92	50	34	105	264545	
24 Ipad - Durham/York Energy Centre			2	-	-	-	-	-	
25 Power Laptops - Various Locations			8	10	1	51	-	163	
26 Standard Laptops			-	-	-	-	-	-	
27 Toughbook Tablet with monitor - Waste Admin - By-Law			3	3	-	3	-	-6	
Information Technology Infrastructure Subtotal			53	108	54	91	108	280641	
Vehicles									
28 1/2 Ton Pick-up Truck - Various Locations			105	111	-	105	-	-216	
29 1/4 Ton Pick-up Truck - 289 Water St. (Facilities Maintenance)			-	4	-	-	-	-4	
30 Cube Van Upgrade - Various Locations			70	-	-	-	-	-	
31 Forklift - Cherrywood WMF			-	-	-	125	-	-125	

Appendix D: 2024 - 2033 Solid Waste Management Capital Forecast (\$,000's)
Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix C for financing details for capital projects proposed in 2024

<div><div>Durham Budget</div><div>2024</div></div>			Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
					2025	2026	2027	2028	2029-2033	
32 Forklift - Various Locations				-	185	-	-	-	-	185
33 Medium Articulated Loader - Cherrywood WMF				-	-	-	700	-	-	700
34 Skidsteer - Cherrywood WMF				-	-	-	150	-	-	150
Vehicles Subtotal				175	300	-	1,080	-	-	1,380
Landfill Remediation / Rehabilitation										
35 Oshawa Landfill - Remediation - Erosion and leachate control				-	500	325	125	250	3,400	4,600
36 Oshawa Landfill - Biofilter				-	350	300	-	-	-	650
37 Scott Landfill - Landfill Reclamation (Mining)				-	-	300	400	6,448	-	7,148
38 Scugog Landfill - Remediation - Purchase Contaminant Attenuation Zone				-	100	1,400	-	-	-	1,500
Landfill Remediation / Rehabilitation Subtotal				-	950	2,325	525	6,698	3,400	13,898
Total Capital Solid Waste Management				4,732	10,138	9,526	17,253	8,298	196,815	242,030

Appendix D: 2024 - 2033 Solid Waste Management Capital Forecast (\$,000's)

Provides a listing for all projects within the 2024 budget and nine-year capital forecast. See Appendix C for financing details for capital projects proposed in 2024

<div><div><div><div><div><div></div></div></div><div><div><div></div></div></div></div><div><div><div>Durham</div><div>Budget</div></div></div></div></div> <div>2024</div>	Expenditure Category	2024 Proposed Budget	Forecast					Forecast Total
			2025	2026	2027	2028	2029-2033	

¹ Project #7 - Mixed Waste Pre-sort and Anaerobic Digestion Facility - a provision of \$192.6 million has been included in 2032 and 2033 with the balance of funding projected to be required outside the ten year capital plan

* 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:

	2024	2025	2026	2027	2028	2029 - 2033	Grand Total
DC Shortfall							
Residential DC Shortfall	500	1,961	1,384	-	-	-	3,845
Commercial DC Shortfall	-	-	-	-	-	-	-
Institutional DC Shortfall	-	-	-	-	-	-	-
Industrial DC Shortfall	-	-	-	-	-	-	-
Total DC Shortfall	500	1,961	1,384	-	-	-	3,845
Shortfall Financing Source							
Waste Management Reserve Fund	500	1,961	1,384	-	-	-	3,845
Total Funding	500	1,961	1,384	-	-	-	3,845



The Regional Municipality of Durham Report

To: Works Committee
From: Acting Commissioner of Works
Report: #2024-W-7
Date: March 6, 2024

Subject:

Lease Agreement with 555 Hastings Avenue Inc. for space for use by Durham Regional Police Service (DRPS), located at 555 Hastings Avenue and 556 Hastings Avenue, City of Oshawa

Recommendations:

That the Works Committee recommends to Regional Council:

- A) That the Lease Agreement with 555 Hastings Avenue Inc. for the premises in the City of Oshawa, consisting of 8,784 square feet of office and Industrial space located at 555 Hastings Avenue and 0.22 acres of storage yard space at 556 Hastings Avenue, in the City of Oshawa, be approved with the following terms and conditions:
- i) The lease term is for a period of five (5) years commencing April 1, 2024, and ending on March 31, 2029;
 - ii) The annual rent for the lease term will be \$228,384*, payable in equal monthly instalments of \$19,031*, based on a rate of \$26.00 per square foot per annum;
 - iii) The basic rent will be increased by 2.5 percent for each successive year of the lease term;
 - iv) Additional rent is estimated at \$1.92 per square foot or \$16,865.28 per annum, including maintenance costs, property taxes and insurance;
 - v) The Region will have exclusive use of the 0.22-acre storage yard space at 556 Hastings Avenue, City of Oshawa. There is no additional cost for the

use of this space;

- vi) The Region will have the option to renew the lease for two additional terms of five (5) years under the same terms and conditions, with rent to be negotiated at the time of renewal;
- vii) The Region will be responsible for all maintenance and repair to the leased space, snow and ice removal and lawn cutting; and
- viii) The Landlord will be responsible for all improvements, repairs, renovations and alterations to the exterior of the building and property, as well as all systems servicing the leased space (e.g., HVAC).

- B) That the Regional Chair and Clerk be authorized to execute all documents associated with the Lease.
-

Report:

1. Purpose

- 1.1 The purpose of this report is to obtain approval to execute the lease with 555 Hastings Avenue Inc. as per the terms and conditions outlined herein.
- 1.2 Dollar amounts followed by an asterisk (*) are exclusive of applicable taxes.

2. Background

- 2.1 Real Estate staff received a request from the Durham Regional Police Service (DRPS) to identify a space to house the quartermaster unit and to store vehicles for upfitting and disposal, collision vehicles awaiting inspection, and a service boat and a trailer.
- 2.2 Real Estate staff identified and negotiated a lease agreement for space at 555 Hastings Avenue and 556 Hastings Avenue in the City of Oshawa.

3. Previous Reports and Decisions

There are no previous reports.

4. Terms of Lease

- 4.1 The proposed Lease Agreement is for five (5) years commencing April 1, 2024, and ending March 31, 2029. The Region will have the option to renew for a further two (2) five-year terms under the same terms and conditions subject to the rental rate being negotiated at the time of renewal.
- 4.2 The proposed annual rental rates during the term of the Lease are as follows:
- a) The annual rent for the term will be \$228,384*, payable in equal monthly instalments of \$19,031* based on a \$26.00 per square foot per annum, subject to a 2.5 percent for each successive year of the term;
 - The Regional Municipality of Durham (Region) will be responsible for its proportionate share of the property taxes, insurance, and utility costs. Additional rent is estimated at \$1.92 per square foot or \$16,865.28 per annum and includes maintenance costs, property taxes and insurance; and
 - The Region will have exclusive use of the 0.22-acre storage yard space at 556 Hastings Avenue at no additional cost.
- 4.3 The Region will be responsible for all maintenance and repair to the leased spaces, snow and ice removal, and lawn cutting.
- 4.4 The Landlord will be responsible for all improvements, repairs, renovations, and alterations to the exterior of the building and property, as well as all systems servicing the leased space (e.g., HVAC).

5. Financial Implications

- 5.1 Financing for this lease renewal will be provided from within the DRPS Operating Budget.
- 5.2 Since the approval of this lease requires a long-term financial obligation for which payment is required beyond the term for which Council was elected, the Regional Treasurer has updated the Region's financial debt obligation and obligation limit. In accordance with Section 4 of the Ontario Regulation 403/02, the Region's Treasurer has calculated an updated long-term debt/financial limit and has determined that the limit has not been exceeded. Therefore, this lease agreement does not require the approval of the Local Planning Appeal Tribunal.

6. Relationship to Strategic Plan

6.1 This report aligns with the following strategic goals and priorities in the Durham Region Strategic Plan:

- a) Goal 2.2: Enhance community safety and well-being;
- b) Goal 2.4: Support a high quality of life for all through human services delivery;
- c) Goal 2.5: Build a healthy, inclusive, age-friendly community where everyone feels a sense of belonging;
- d) Goal 5.1: Optimize resources and partnerships to deliver exceptional quality services and values.

7. Conclusion

7.1 DRPS has advised that they wish to lease space to house the quartermaster unit, and to store vehicles for upfitting and disposal, collision vehicles awaiting inspection, and a service boat and a trailer. Suitable space was identified at 555 Hastings Avenue and 556 Hastings Avenue in the City of Oshawa. It is recommended that the Lease Agreement be approved based on the above-noted terms and conditions.

7.2 This report has been reviewed by the Finance Department.

7.3 For additional information, please contact Christine Dunkley, Director of Corporate Infrastructure and Strategic Business Services, at 905-668-7711, extension 3475.

Respectfully submitted,

Original signed by:

Ramesh Jagannathan, MBA, M. Eng, P. Eng, PTOE
Acting Commissioner of Works

Recommended for Presentation to Committee

Original signed by:

Elaine C. Baxter-Trahair
Chief Administrative Officer



The Regional Municipality of Durham Report

To: Works Committee
From: Acting Commissioner of Works
Report: #2024-W-8
Date: March 6, 2024

Subject:

Standardization and Sole Source Acquisition of Combination Plow/Dump/Salter Trucks

Recommendations:

The Works Committee recommends to Regional Council:

- A) That the Regional Municipality of Durham continue to standardize Viking Cives Ltd. International Truck combination cab, chassis, and truck mounted plows/dump/salter bodies;
 - B) That staff negotiate and award a sole source agreement with Viking Cives Ltd. for the supply, customization, and delivery of Viking Cives Ltd. International Truck combination cab, chassis, and truck-mounted plows/dump/salter bodies, parts and servicing of the units from January 1, 2024, to December 31, 2028, at an estimated cost of \$18,457,640* for the term, including \$2,890,000* for 2024; and
 - C) That the Commissioner of Finance be authorized to execute the necessary documents related to this sole source agreement.
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Report:

1. Purpose

- 1.1 The purpose of this report is to seek Regional Municipality of Durham (Region) Council approval to extend the standardization of the Region's fleet of Viking Cives Ltd. International Truck combination cab, chassis, and truck-mounted plows/dump/salter bodies, and to sole source the purchase of this equipment, including parts and service from Viking Cives Ltd. (Viking) for a five-year period beginning January 1, 2024, and ending December 31, 2028.

- 1.2 Dollar amounts followed by an asterisk (*) are before applicable taxes.

2. Background

- 2.1 In 2017, Regional Council approved [Report #2017-COW-273](#) to use Viking Cives Ltd. as a sole source supplier from 2018 to 2021 for the combination plow/dump/salter bodies.
- 2.2 On August 25, 2023, the Summer Recess Sole Source Procurement process was utilized to purchase the Viking Cives Ltd. International Truck combination cab, chassis, and truck-mounted plows/dump/salter bodies for the period of August 25, 2023, to January 1, 2024.
- 2.3 The Viking Cives Ltd. International Truck combination cab, chassis, and truck-mounted plows/dump/salter bodies consists of a U-body dump truck designed to be used during winter storm events with very little preparation or changes to the principal format of the vehicle.
- 2.4 This truck combination cab and chassis configuration has been used exclusively throughout the Region for over 20 years to handle accumulations of snow and ice and is now used exclusively with salt brine liquids to reduce the amount of solid rock salt (sodium chloride) discharged while providing a proactive approach to winter maintenance. The U-body haunch tanks provide pre-wetting capabilities (applying brine to the rock salt before it is spun or discharged onto the road during a winter storm). Also, once the tailgate is removed from the U-body truck, a Direct Liquid Application (DLA) tank can be slipped in which will allow brine to be sprayed onto the road surface before the storm for anti-icing.
- 2.5 This combination vehicle specification involves two major components: first, the Viking Cives Ltd. International Truck cab and chassis, and second, the matching Viking Cives Ltd. body, which can be used for plowing and salting in the winter and as a dump body throughout the year, using hydraulically powered accessory mechanisms.

3. Standardization and Justification for Sole Source

- 3.1 The truck portion of the combination vehicles has competitively transitioned to International Truck cab and chassis and is the only unit used by the Region for this purpose. As a result, the interchangeability of the dump bodies, conveyors, plows, and electronic/hydraulic control systems on these cab and chassis units supports safety through a familiarity strategy and achievement of training

objectives. Additionally, the trucks and operators can be safely reallocated to support emergency winter conditions in any of the five district depots because of the consistency in engines, transmission, and hydraulic controls.

- 3.2 Standardizing these specifications provides the Region with a more efficient operation overall, which will reduce costs, vehicle down-time, and enable snowplows to be ready to respond to ice and snow conditions sooner. The Region can recognize savings due to less tooling, training, and diagnostic software. This conclusion is based on the Region's experience of over 20 years of operating and maintaining Viking Cives Ltd. International Truck combination cab, chassis, and truck-mounted plows/dump/salter bodies. Productivity has been exceptional, downtime and maintenance costs have been low, and the safety record has been excellent. Parts and services provided by the many supporting Viking Cives Ltd. International Truck dealerships have always been reliable and more importantly, timely. Finally, standardizing means improved productivity, equipment familiarity, the opportunity to share common parts, reduced stock and space, and enhanced turn-around times during periodic maintenance and repair.

4. Financial Implications

- 4.1 Section 7.2 of the Region's Purchasing By-law #16-2020 permits the acquisition of goods and services through sole source negotiations under specific circumstances outlined in Appendix C of the by-law.
- 4.2 Section 1.1 of Appendix C permits negotiations for goods or services which can be supplied only by a particular supplier and no reasonable alternative or substitute goods or services exist to ensure compatibility with existing goods, or to maintain specialized goods that must be maintained by the manufacturer of those goods or its representatives. The by-law also requires approval by the appropriate standing committee and Council for the award of sole source contracts that exceed \$100,000 in value.
- 4.3 The financing for the 2024 through 2028 purchases of the recommended standardized and sole sourced products will be provided through the Works Department annual business plans and budget.

5. Conclusion

- 5.1 It is recommended that the Regional Municipality of Durham standardize and award a sole source agreement with Viking Cives Ltd. International Truck combination cab, chassis, and truck-mounted plows/dump/salter bodies including

parts and service for a period of five years at an estimated cost of \$18,457,640 with Viking Cives Ltd. International.

5.2 The report has been reviewed by the Finance Department.

5.3 For additional information, contact: Eric Lamain, Manager of Maintenance Operations and Fleet Services at 905-668-7711 ext. 3534.

Respectfully submitted,

Original signed by:

Ramesh Jagannathan, M.B.A, M.Eng., P.Eng., PTOE
Acting Commissioner of Works

Recommended for Presentation to Committee

Original signed by:

Elaine C. Baxter-Trahair
Chief Administrative Officer