



## The Regional Municipality of Durham

### Works Committee Revised 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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|  | Pages |
|--|-------|
| 1. Roll Call   |       |
| 2. Declarations of Pecuniary Interest  |       |
| 3. Adoption of Minutes   |       |
| 3.1 Works Committee meeting - February 7, 2024   | 3     |
| 4. Statutory Public Meetings   |       |
| There are no statutory public meetings   |       |
| 5. Presentations   |       |
| *5.1 Ramesh Jagannathan, Acting Commissioner of Works, and Andrew Evans, Director of Waste Management Services | 9     |
| Re: 2024 Works Department Business Plan and Budget (2024-W-6)  |       |
| [Item 8.2 b.]  |       |
| 6. Delegations   |       |
| There are no delegations   |       |
| 7. Waste   |       |
| 7.1 Correspondence   |       |
| *a. Correspondence received from Linda Gasser, Whitby Resident, dated March 5, 2024                            | 64    |
| Re: New Waste Management Services By-law (2024-WR-1)   |       |
| Recommendation: Refer to Consideration of Item 7.2 a.  |       |

## 7.2 Reports

- |     |   |     |
|-----|---|-----|
| a.  | Report #2024-WR-1<br>New Waste Management Services By-law                           | 65  |
| *b. | Report #2024-WR-2<br>Update on Small Business Recycling Post Blue Box<br>Transition | 140 |

## 8. Works

### 8.1 Correspondence

### 8.2 Reports

- |    |   |     |
|----|---|-----|
| a. | Report #2024-W-5<br>The Regional Municipality of Durham's Drinking Water<br>Systems 2023 Summary Report   | 160 |
| b. | Report #2024-W-6<br>2024 Works Department Business Plan and Budget  | 215 |
| c. | Report #2024-W-7<br>Lease Agreement with 555 Hastings Avenue Inc. for space for<br>use by Durham Regional Police Service (DRPS), located at<br>555 Hastings Avenue and 556 Hastings Avenue, City of<br>Oshawa | 329 |
| d. | Report #2024-W-8<br>Standardization and Sole Source Acquisition of Combination<br>Plow/Dump/Salter Trucks   | 334 |

## 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

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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**

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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**

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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,

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D. Barton, Chair

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S. Ciani, Committee Clerk



# Durham Budget

2024

## 2024 Business Plan and Budget

### Works Department

Works Committee

March 6, 2024

Achieves the Regional  
Council approved 2024  
Business Plan and Budget  
**Guideline**

Supports the Region's  
**Strategic Plan**

Supports critical investment in  
**core services to meet needs  
of growing community**

Advances **critical growth  
related and asset  
management capital  
infrastructure** to support  
**provincial housing targets**

Responds to significant  
**inflationary pressures** and  
**capital cost escalations**

**Finance &  
Administration  
Committee:**

March 19, 2024

**Regional Council:**

March 27, 2024



# Durham Budget

2024

## Budget Overview Roads & Infrastructure

## Service Improvements

- Completed the rehabilitation of 12 kilometres of Regional roads including the installation of wider paved shoulders on rural roads.
- Completed the roundabout at Regional Road 57/Regional Road 3, the Cochrane Street bridge replacement over the Canadian Pacific Rail Corridor and the road widening of Westney Road from north of Rossland Road to Taunton Road.
- Supported the implementation of the Regional Cycling Plan to provide residents with a safe and accessible network through the addition of 13.7 kilometres of new cycling facilities.



## Customer Service

- Acquired properties to support the advancement of several Regional strategic initiatives and projects.
- Negotiated leases for space to support program delivery, including:
  - 312 Colborne and 117 King Street in the Town of Whitby for the operation of a shelter and transitional home for residents experiencing homelessness; and
  - 710 Wilson Road South, City of Oshawa for Durham Regional Police Service fleet and canine operations which were displaced by fire.
- Acquired 20 properties for the Highway 2 Bus Rapid Transit (BRT) project to advance the Rapid Transit program in Durham and six (6) properties for the Durham Regional Road 57 widening project from Baseline Road to King Street West (Regional Highway 2), in the Municipality of Clarington.
- 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 temporary housing solution to address increased homelessness within the Region.

## Customer Service

- Commenced construction of the Seaton Long Term Care facility in the City of Pickering.
- Completed various state of good repair projects to support the goals of the Region's Asset Management plan.
- Operated and maintained 687 traffic signals across the Region, with Accessible Pedestrian Signals installed at 228 locations.
- Responded to 51 winter storms including nine significant winter storm events.

## Vision Zero (Works Measures)

### Engineering

- Advanced the goals of the Durham Vision Zero Safety Plan by undertaking pedestrian improvements, guiderail expansion/replacement, safety reviews and implementation, roundabouts construction and policy updates.

### Enforcement

- ASE – Installed four new fixed and two mobiles on rotational basis. Total of 14 cameras operational at the end of 2023, including 8 fixed and 6 mobile cameras across 36 Community Safety Zones and School Zones on Regional Roads, with over 3,500 camera-days; estimated 60,440 fines issued and a notable increase in speed limit compliance.
- RLC - 12 fixed locations; over 4,380 camera-days and an estimated 2,555 fines issued.

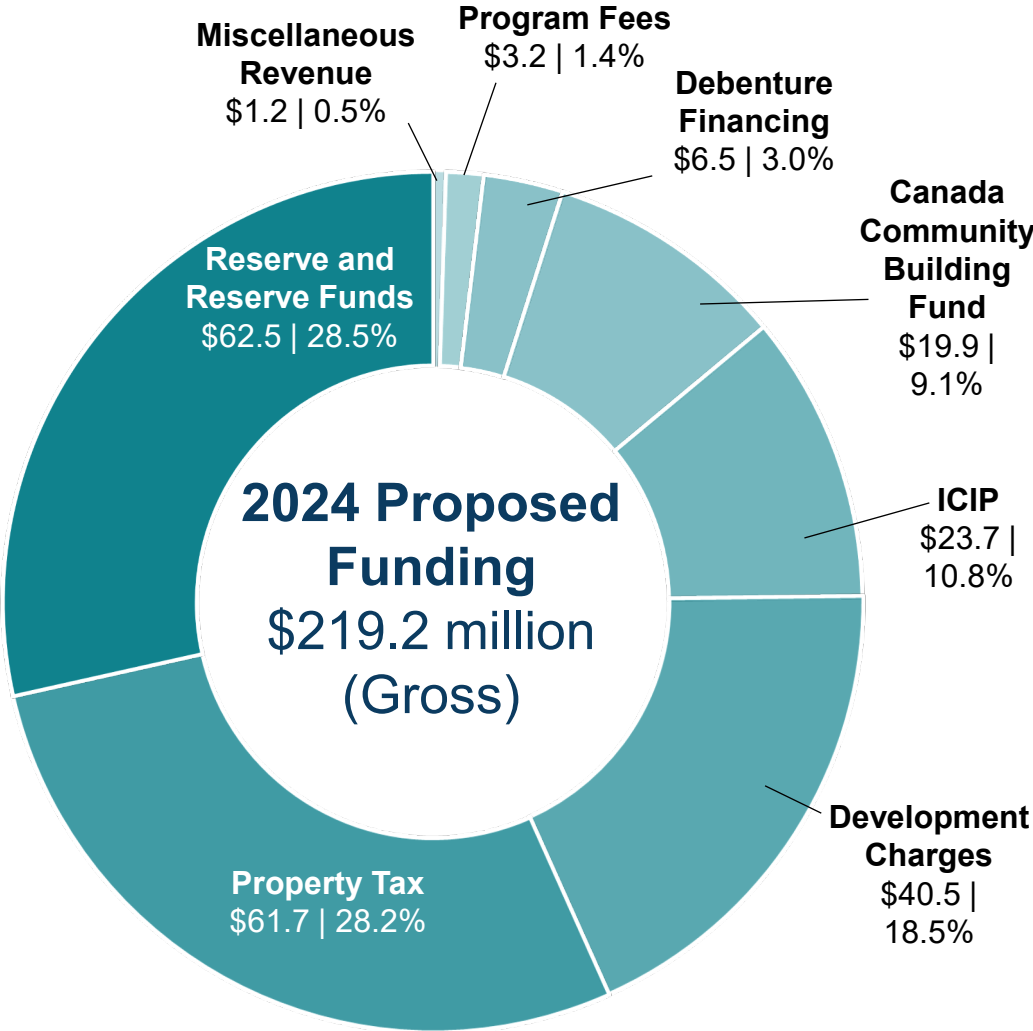
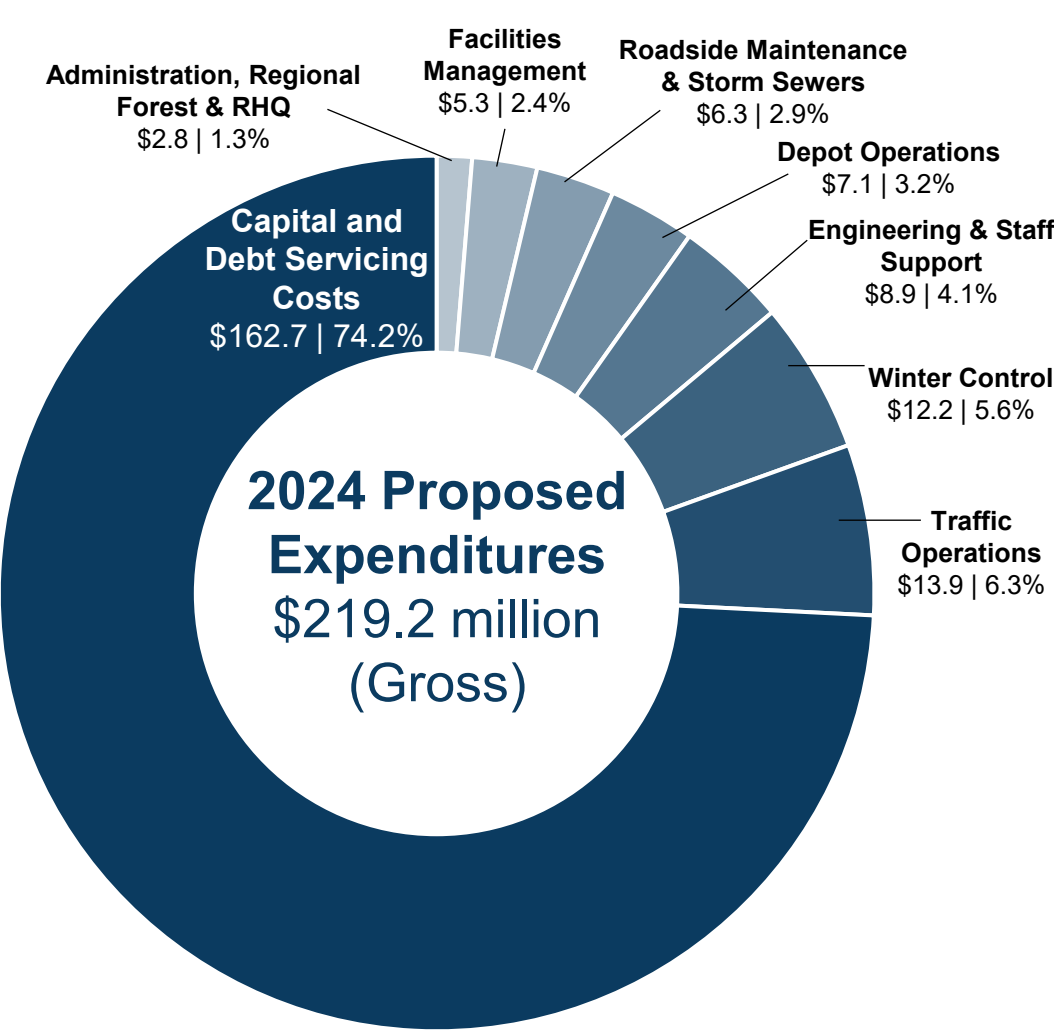
### Education

Cross ride education, single lane roundabouts, pedestrian crossovers, ASE, RLC, and aggressive driving countermeasures in partnership with DRPS, Health, Corporate Communications and community partners.

## Awards and Achievements

- 
- Received the OPWA Project of the Year Award in the “Structures less than \$2 million category” for the Micro-homes Supportive Housing Project.
- 
- Received the Ontario Public Works Association (OPWA) 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.
-

# 2024 Proposed Expenditures and Financing



## Proposed budget includes base increases of \$3.384 M

- \$1.685 million inflationary increases for vehicle repairs and maintenance, utilities, materials and services
- \$1.246 million for economic increases
- \$0.820 million for debt servicing
- \$0.800 million for the annualized cost of 2023 positions
- \$0.038 million increase for Regional Head Quarters
- \$0.519 million reduction for removal of one-time items and line-by-line savings
- \$0.686 million in savings for realignment of staffing resources to reflect effort on priority capital works

## Capital

**\$115.69 M** Capital regional roads and infrastructure projects, including Regional transportation projects funded under the Investing in Canada Infrastructure Program (ICIP).

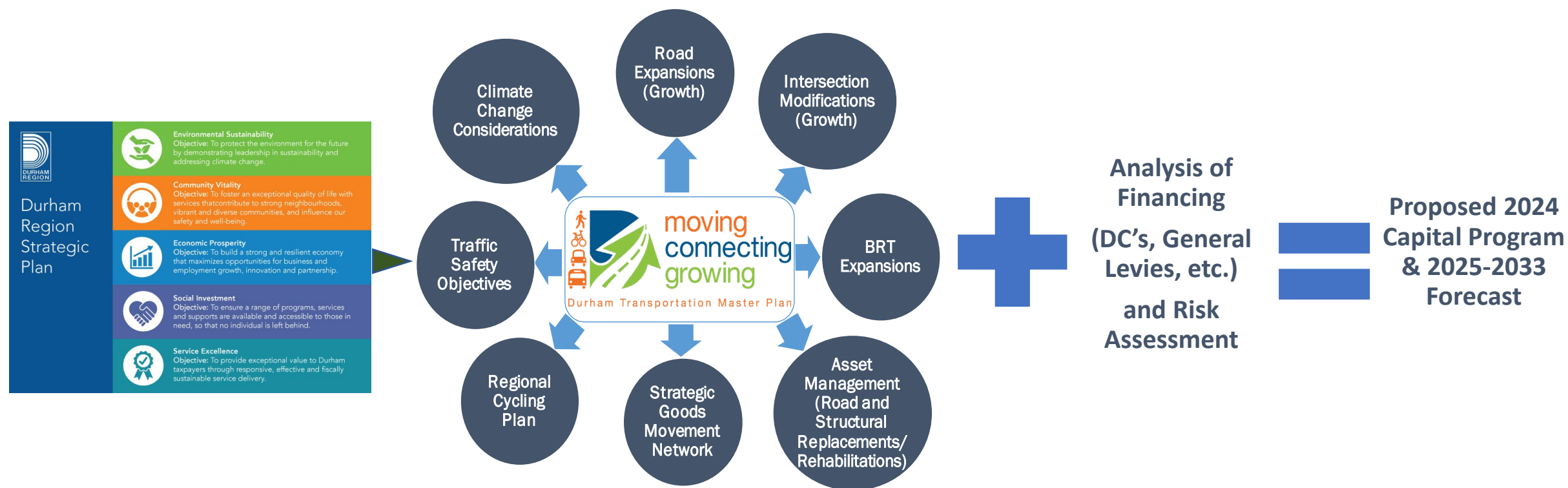
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**\$44.00 M** Capital investments for construction and design work for the expansion and modernization of the Ajax, Oshawa/Whitby and Sunderland maintenance depots.

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**\$1.45 M** Ongoing implementation of Durham Vision Zero countermeasures, including red light camera technology and automated speed enforcement, including \$0.65 M funded from the Vision Zero Reserve Fund.

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*\* Durham Region Strategic Plan was updated in 2020 after the completion of the TMP.*



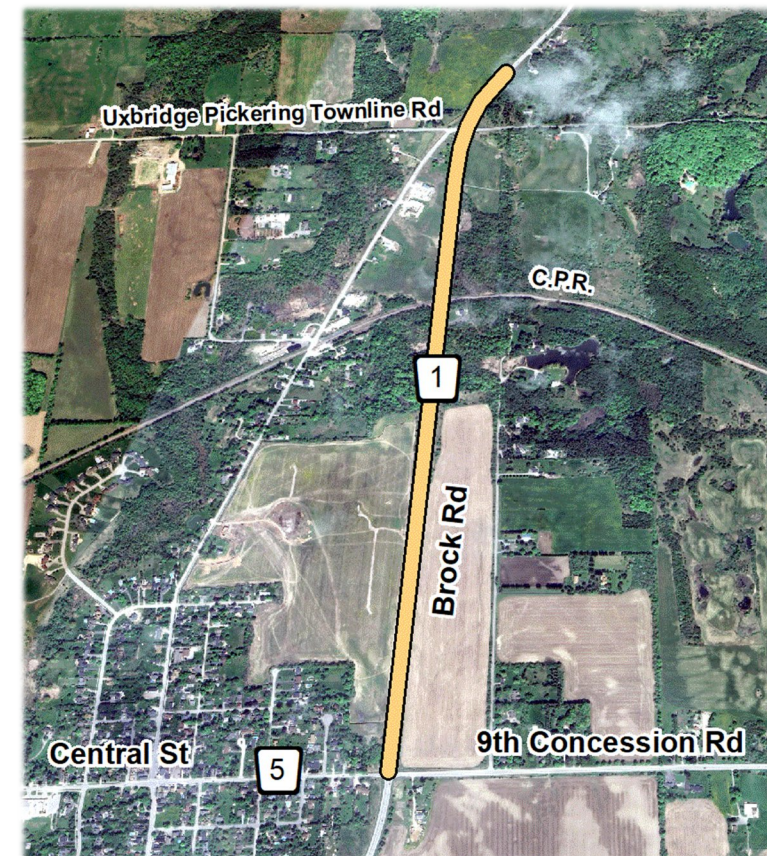
# 2024 Roads Projects

## Brock Rd. (Reg. Rd. 1) from Reg. Rd. 5 to 0.2km north of Uxbridge/Pickering Townline Rd, Pickering Road Rehabilitation

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| Prior Budget Approval:               | N/A                                  |
| <b>2024 Budget Request:</b>          | <b>\$2,200,000</b>                   |
| <b>Total Estimated Project Cost:</b> | <b>\$2,200,000</b>                   |
| On Regional Cycling Plan?            | No                                   |
| Project Driver:                      | Rehabilitation                       |
| Existing Segment Description:        | PCI Very Poor, 2 Lane Rural, on SGMN |
| Status:                              | Tender in Q1/Q2 2024                 |
| Anticipated Construction Year(s):    | 2024                                 |
| Coordination with adjacent projects: | N/A                                  |

*PCI = Pavement Condition Index*

*SGMN = Strategic Goods Movement Network*



*Image not to scale*

# 2024 Roads Projects

## Simcoe St. (Reg. Rd. 2) from 0.6km south of River St. to Saintfield Rd., Scugog Road Rehabilitation

|                                      |  |
|--------------------------------------|--|
| Prior Budget Approval:               | N/A                                    |
| <b>2024 Budget Request:</b>          | <b>\$2,700,000</b>                     |
| <b>Total Estimated Project Cost:</b> | <b>\$2,700,000</b>                     |
| On Regional Cycling Plan?            | Yes; proposed buffered paved shoulders |
| Project Driver:                      | Rehabilitation                         |
| Existing Segment Description:        | PCI Very Poor, 2 Lane Rural            |
| Status:                              | Tender in Q1 2024                      |
| Anticipated Construction Year(s):    | 2024                                   |
| Coordination with adjacent projects: | N/A                                    |

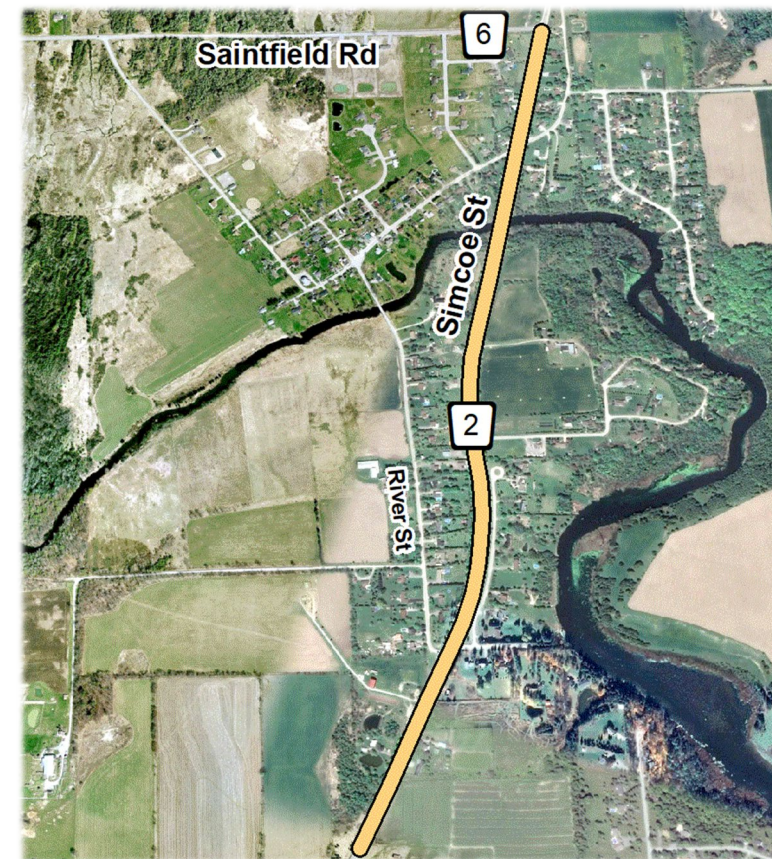


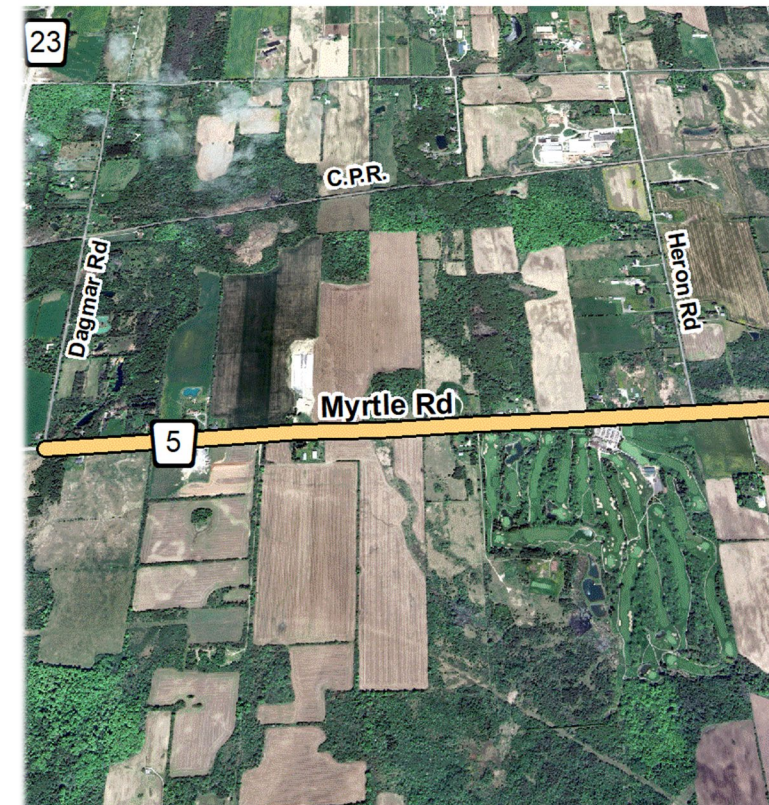
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# 2024 Roads Projects

## Myrtle Rd. (Reg. Rd. 5) from Dagmar Rd. to west limit of Ashburn, Whitby Road Rehabilitation

|                                      |                              |
|--------------------------------------|------------------------------|
| Prior Budget Approval:               | N/A                          |
| <b>2024 Budget Request:</b>          | <b>\$2,800,000</b>           |
| <b>Total Estimated Project Cost:</b> | <b>\$2,800,000</b>           |
| On Regional Cycling Plan?            | Yes; proposed paved shoulder |
| Project Driver:                      | Rehabilitation               |
| Existing Segment Description:        | PCI Very Poor, 2 Lane Rural  |
| Status:                              | Tender in Q1/Q2 2024         |
| Anticipated Construction Year(s):    | 2024                         |
| Coordination with adjacent projects: | N/A                          |

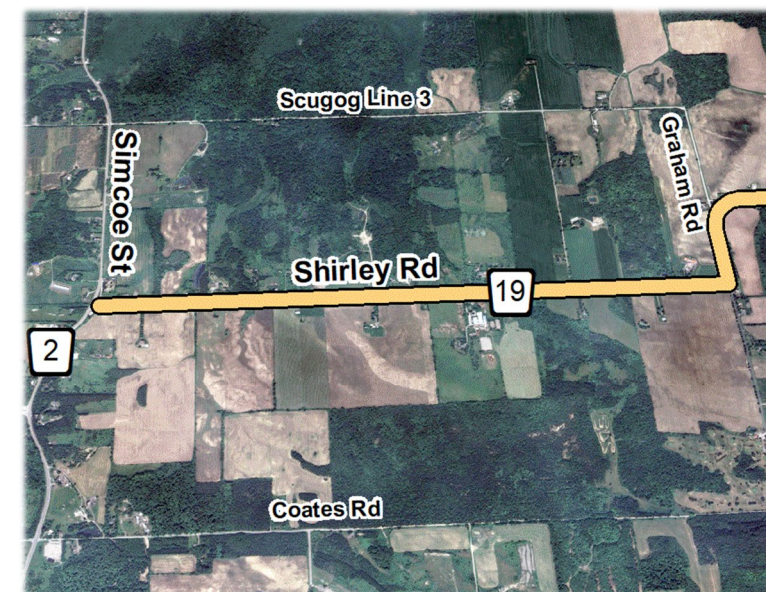


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# 2024 Roads Projects

## Shirley Rd. (Reg. Rd. 19) from Simcoe St. to 0.5 km east of Graham Rd., Scugog Road Rehabilitation

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Prior Budget Approval:               | N/A                             |
| <b>2024 Budget Request:</b>          | <b>\$1,200,000</b>              |
| <b>Total Estimated Project Cost:</b> | <b>\$1,200,000</b>              |
| On Regional Cycling Plan?            | No                              |
| Project Driver:                      | Rehabilitation                  |
| Existing Segment Description:        | PCI Very Poor, 2 Lane Rural     |
| Status:                              | Anticipate tender in Q2/Q3 2024 |
| Anticipated Construction Year(s):    | 2024                            |
| Coordination with adjacent projects: | N/A                             |



*Image not to scale*



# 2024 Roads Projects

## Thickson Rd. (Reg. Rd. 26) from Wentworth St. to C.N. Rail Kingston, Whitby Reconstruct and widen road to 4 lanes

|                                      |   |
|--------------------------------------|---|
| Prior Budget Approval:               | \$7,300,000   |
| <b>2024 Budget Request:</b>          | <b>\$800,000</b>  |
| <b>Total Estimated Project Cost:</b> | <b>\$8,100,000</b>  |
| On Regional Cycling Plan?            | Yes; proposed MUP on west side  |
| Project Driver:                      | Growth-related  |
| Existing Segment Description:        | PCI Very Poor, 2 Lane Rural   |
| Status:                              | Tender in Q1 2024   |
| Anticipated Construction Year(s):    | 2024  |
| Coordination with adjacent projects: | Victoria St/Bloor St - Thickson to Stevenson Widening,<br>Victoria St – South Blair to west of Thickson<br>Realignment and Widening |



*Image not to scale*

## Wentworth St. (Reg. Rd. 60) from Park Rd. to west of Cedar St., Oshawa Road Rehabilitation

|                                      |  |
|--------------------------------------|--|
| Prior Budget Approval:               | \$300,000  |
| <b>2024 Budget Request:</b>          | <b>\$1,500,000</b>                                   |
| <b>Total Estimated Project Cost:</b> | <b>\$1,800,000</b>                                   |
| On Regional Cycling Plan?            | No   |
| Project Driver:                      | Rehabilitation                                       |
| Existing Segment Description:        | PCI Very Poor / Poor, 4 / 5 Lane Urban               |
| Status:                              | Tender in Q1 2024                                    |
| Anticipated Construction Year(s):    | 2024   |
| Coordination with adjacent projects: | Wentworth St. from west of Cedar St. to Farewell St. |



Image not to scale



## Reg. Hwy. 2 from Ovens Rd. to East Townline Rd., Clarington Road Rehabilitation

|                                      |  |
|--------------------------------------|--|
| Prior Budget Approval:               | N/A  |
| <b>2024 Budget Request:</b>          | <b>\$1,250,000</b>                         |
| <b>Total Estimated Project Cost:</b> | <b>\$1,250,000</b>                         |
| On Regional Cycling Plan?            | Yes; proposed paved shoulder               |
| Project Driver:                      | Rehabilitation                             |
| Existing Segment Description:        | PCI Very Poor / Poor, 2 Lane Urban / Rural |
| Status:                              | Anticipate tender in Q2/Q3 2024            |
| Anticipated Construction Year(s):    | 2024                                       |
| Coordination with adjacent projects: | Reg. Hwy 2 / Newtonville Rd Intersection   |



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# 2024 Roads Projects

## Reg. Hwy. 47 from 0.9 km east of Reg. Rd. 30 to west of Reg. Rd. 21, Uxbridge Road Rehabilitation

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| Prior Budget Approval:               | N/A                                  |
| <b>2024 Budget Request:</b>          | <b>\$2,500,000</b>                   |
| <b>Total Estimated Project Cost:</b> | <b>\$2,500,000</b>                   |
| On Regional Cycling Plan?            | No                                   |
| Project Driver:                      | Rehabilitation                       |
| Existing Segment Description:        | Very PCI Poor, 2 Lane Rural, on SGMN |
| Status:                              | Anticipate tender in Q2/Q3 2024      |
| Anticipated Construction Year(s):    | 2024                                 |
| Coordination with adjacent projects: | N/A                                  |



*Image not to scale*



# 2024 Roads Projects

## Grandview St. N. (Reg. Rd. 3) from Hwy 407 to Columbus Rd. E. and Columbus Rd. E. from Grandview St. N. to Townline Rd. N., Oshawa Road Rehabilitation

|                                      |  |
|--------------------------------------|--|
| Prior Budget Approval:               | \$7,000,000  |
| <b>2024 Budget Request:</b>          | <b>\$1,600,000</b>   |
| <b>Total Estimated Project Cost:</b> | <b>\$8,600,000</b>   |
| On Regional Cycling Plan?            | No   |
| Project Driver:                      | Rehabilitation   |
| Existing Segment Description:        | PCI Very Poor, 2 Lane Rural  |
| Status:                              | Detail Design – Completion Q1 2024<br>Property - Complete<br>Utility Relocations - Complete<br>Permitting – Completion Q2 2024 |
| Anticipated Construction Year(s):    | 2024-2025  |
| Coordination with adjacent projects: | Taunton Rd. (Reg. Rd. 4) from east of Townline Rd. to west of Enfield Rd.,<br>Reg. Rd. 3 from Townline Rd. to Enfield Rd.      |

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## Taunton Road (Reg. Rd. 4) / Anderson St. Intersection, Whitby Intersection Modifications

|                                      |  |
|--------------------------------------|--|
| Prior Budget Approval:               | \$4,620,000  |
| <b>2024 Budget Request:</b>          | <b>\$440,000</b>   |
| <b>Total Estimated Project Cost:</b> | <b>\$5,060,000</b>   |
| On Regional Cycling Plan?            | Yes; MUP on north side of Taunton and proposed cycling lanes on Anderson Street  |
| Project Driver:                      | Growth-related   |
| Existing Segment Description:        | Taunton Road - PCI Fair, 4 Lane Urban, Sidewalk (south side) & MUP (north side), Taunton on SGMN   |
| Status:                              | Detail Design – Completion Q1 2024<br>Property - Complete<br>Utility Relocations - Completion Q2 2024<br>Permitting – Completion Q1 2024 |
| Anticipated Construction Year(s):    | 2024-2025  |
| Coordination with adjacent projects: | Winchester Road (Reg. Rd. 3) from Baldwin St. to Anderson St.  |



Image not to scale



## Farewell St. (Reg. Rd. 56) from Harbour Rd. to Bloor St., Oshawa Road Rehabilitation

|                                      |  |
|--------------------------------------|--|
| Prior Budget Approval:               | \$8,350,000  |
| <b>2024 Budget Request:</b>          | <b>\$200,000</b>   |
| <b>Total Estimated Project Cost:</b> | <b>\$8,550,000</b>   |
| On Regional Cycling Plan?            | Yes; proposed MUP  |
| Project Driver:                      | Rehabilitation   |
| Existing Segment Description:        | PCI Very Poor, 2 to 4 Lane Urban, Sidewalk on west side north of Wentworth, on SGMN  |
| Status:                              | Detail Design – Completion Q2 2024<br>Property – Complete<br>Utility Relocations - Completion Q1 2024<br>Permitting – Completion Q1 2024 |
| Anticipated Construction Year(s):    | 2024-2025  |
| Coordination with adjacent projects: | MTO Hwy 401/Harmony Rd./Bloor St. Interchange, Wentworth St. (Reg. Rd. 60) from west of Cedar St. to Farewell St.                        |



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# 2024 Roads Projects

## Reg. Rd. 3 from Townline Rd. to Enfield Rd., Oshawa / Clarington Road Rehabilitation

|                                      |   |
|--------------------------------------|---|
| Prior Budget Approval:               | \$5,400,000   |
| <b>2024 Budget Request:</b>          | <b>\$2,500,000</b>  |
| <b>Total Estimated Project Cost:</b> | <b>\$7,900,000</b>  |
| On Regional Cycling Plan?            | No  |
| Project Driver:                      | Rehabilitation  |
| Existing Segment Description:        | PCI Very Poor, 2 Lane Rural   |
| Status:                              | Detail Design – Completion Q4 2024<br>Property - Complete<br>Utility Relocations - Completion Q4 2024<br>Permitting – Completion Q4 2024  |
| Anticipated Construction Year(s):    | 2025  |
| Coordination with adjacent projects: | Grandview St. N. (Reg. Rd. 3) from Hwy 407 to Columbus Rd. E. and Columbus Rd. E. from Grandview St. N. to Townline Rd. N.,<br>Taunton Rd. (Reg. Rd. 4) from east of Townline Rd. to west of Enfield Rd |

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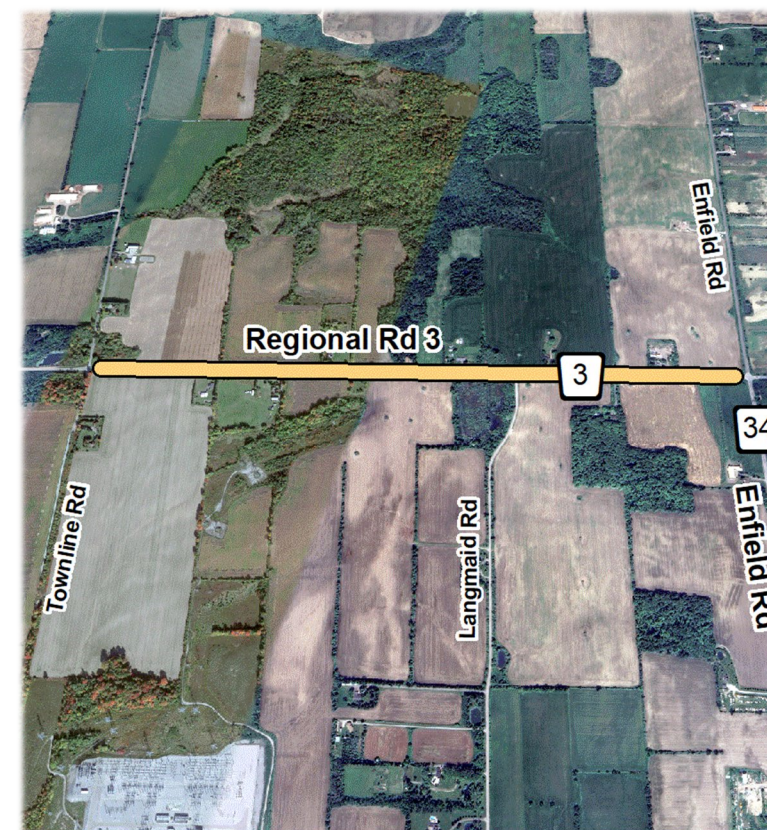


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# 2024 Roads Projects

## Taunton Rd. (Reg. Rd. 4) from east of Townline Rd. to west of Enfield Rd., Clarington Road Rehabilitation

|                                      |  |
|--------------------------------------|--|
| Prior Budget Approval:               | \$11,673,000   |
| <b>2024 Budget Request:</b>          | <b>\$825,000</b>   |
| <b>Total Estimated Project Cost:</b> | <b>\$12,498,000</b>  |
| On Regional Cycling Plan?            | No   |
| Project Driver:                      | Rehabilitation   |
| Existing Segment Description:        | PCI Very Poor, 2 Lane Rural, on SGMN   |
| Status:                              | Detail Design – Completion Q3 2024<br>Property - Complete<br>Utility Relocations - Complete<br>Permitting – Complete   |
| Anticipated Construction Year(s):    | 2025   |
| Coordination with adjacent projects: | Grandview St. N. (Reg. Rd. 3) from Hwy 407 to Columbus Rd. E. and Columbus Rd. E. from Grandview St. N. to Townline Rd. N.,<br>Reg. Rd. 3 from Townline Rd. to Enfield Rd. |

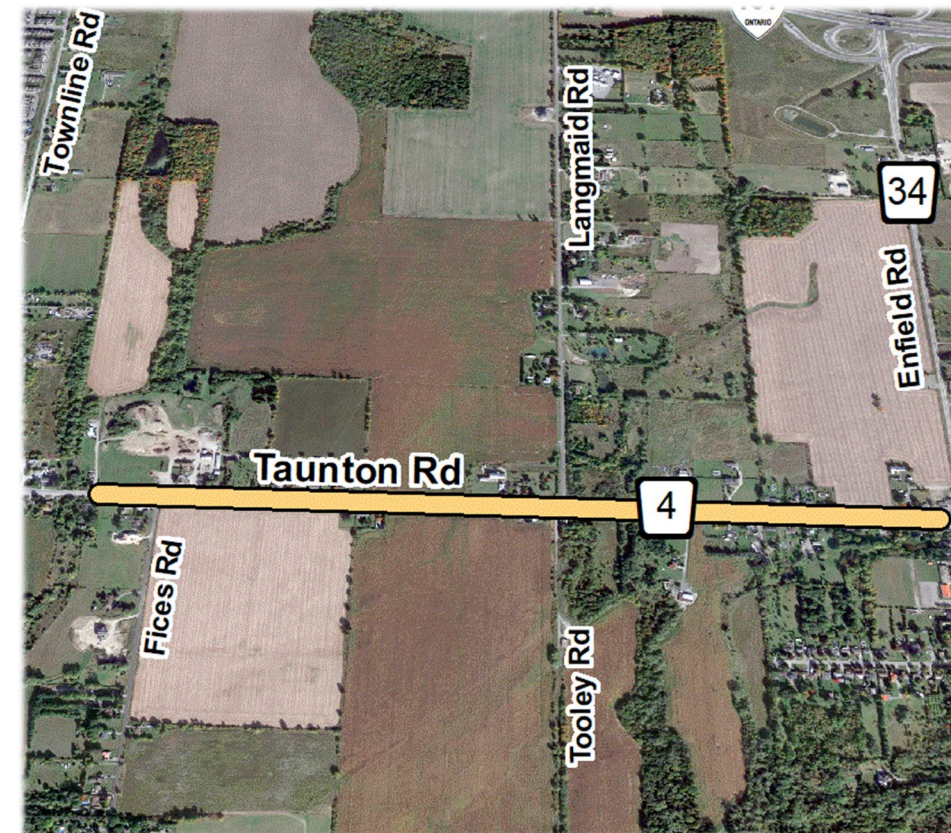


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# 2024 Roads Projects

## Reach St. (Reg. Rd. 8) from east of Old Simcoe St. to Bigelow St., Scugog Road Rehabilitation

|                                      |   |
|--------------------------------------|---|
| Prior Budget Approval:               | \$550,000   |
| <b>2024 Budget Request:</b>          | <b>\$3,100,000</b>  |
| <b>Total Estimated Project Cost:</b> | <b>\$3,650,000</b>  |
| On Regional Cycling Plan?            | Yes; proposed MUP on south side, proposed sidewalk on north side  |
| Project Driver:                      | Rehabilitation  |
| Existing Segment Description:        | PCI Poor, 2 Lane Rural, asphalt pathway on south side   |
| Status:                              | Detail Design – Completion Q4 2024<br>Property – N/A<br>Utility Relocations - Completion Q4 2024<br>Permitting – Completion Q3 2024 |
| Anticipated Construction Year(s):    | 2025  |
| Coordination with adjacent projects: | N/A   |



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# 2024 Roads Projects

## Zephyr Rd. (Reg. Rd. 13) from Conc. 3 (Reg. Rd. 39) to Conc. 4., Uxbridge Road Rehabilitation

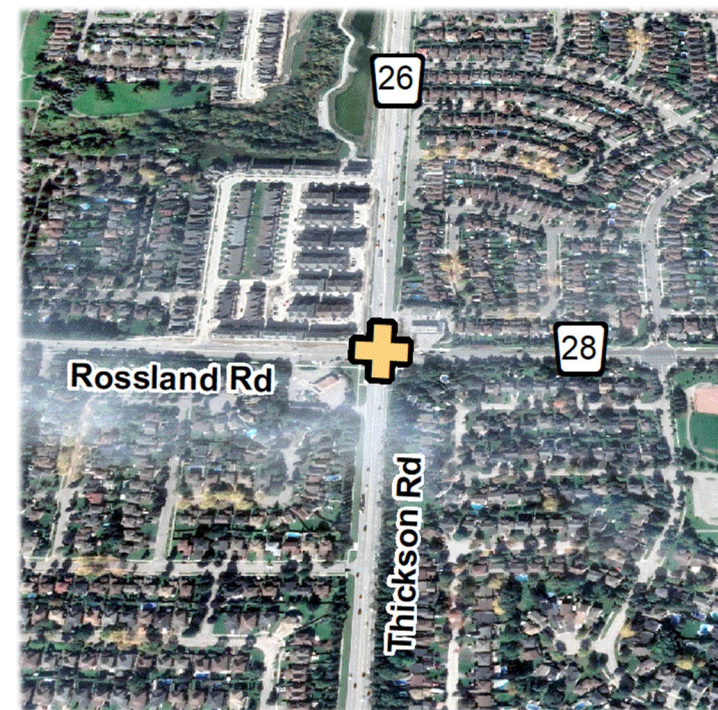
|                                      |   |
|--------------------------------------|---|
| Prior Budget Approval:               | \$9,050,000   |
| <b>2024 Budget Request:</b>          | <b>\$520,000</b>  |
| <b>Total Estimated Project Cost:</b> | <b>\$9,570,000</b>  |
| On Regional Cycling Plan?            | Yes; proposed paved shoulder  |
| Project Driver:                      | Rehabilitation  |
| Existing Segment Description:        | PCI Very Poor, 2 Lane Rural, Sidewalk on south side through the hamlet  |
| Status:                              | Detail Design – Completion Q4 2024<br>Property - Complete<br>Utility Relocations - Completion Q4 2024<br>Permitting – Complete  |
| Anticipated Construction Year(s):    | 2025  |
| Coordination with adjacent projects: | Replacement of Timber Bridge on Zephyr between Conc. 5 and Conc 6., Reconstruction of Bridge on Sandford Rd. Between Conc. 2 and Conc. 3, Conc. Rd. 7 (Reg. Rd. 1) from Reg. Rd. 11 to 0.4 km north of Ashworth Rd. and from Foster Dr. to south limit of Leaskdale |



Image not to scale

## Thickson Road (Reg. Rd. 26) / Rossland Rd. (Reg. Rd. 28) Intersection, Whitby Intersection Modifications

|                                      |  |
|--------------------------------------|--|
| Prior Budget Approval:               | \$996,000  |
| <b>2024 Budget Request:</b>          | <b>\$6,000,000</b>   |
| <b>Total Estimated Project Cost:</b> | <b>\$6,996,000</b>   |
| On Regional Cycling Plan?            | Yes, on Rossland Rd; proposed MUP on north side of Rossland Rd.  |
| Project Driver:                      | Growth-related   |
| Existing Segment Description:        | Thickson Road - PCI Good, 4 Lane Urban, Sidewalk (east side) & MUP (west side), Thickson on SGMN<br>Rossland Road – PCI Very Good, 4 Lane Urban    |
| Status:                              | Detail Design – Completion Q3 2024<br>Property – Completion Q2 2024<br>Utility Relocations - Completion Q4 2024<br>Permitting – Completion Q3 2024 |
| Anticipated Construction Year(s):    | 2025   |
| Coordination with adjacent projects: | Rossland Rd. / Garden St. intersection modifications   |



*Image not to scale*



# 2024 Roads Projects

## Olive Ave. (Reg. Rd. 59) from Simcoe St. to Drew St., Oshawa

### Road Rehabilitation in conjunction with water/sewer project

|                                      |   |
|--------------------------------------|---|
| Prior Budget Approval:               | \$825,000   |
| <b>2024 Budget Request:</b>          | <b>\$275,000</b>  |
| <b>Total Estimated Project Cost:</b> | <b>\$1,100,000</b>  |
| On Regional Cycling Plan?            | No  |
| Project Driver:                      | Rehabilitation, watermain and sanitary sewer replacement  |
| Existing Segment Description:        | PCI Very Poor – Good, 2 Lane Urban, Sidewalk on both sides  |
| Status:                              | Detail Design – Complete<br>Property - Complete<br>Utility Relocations - Complete<br>Permitting – Complete  |
| Anticipated Construction Year(s):    | 2025  |
| Coordination with adjacent projects: | MTO bridge replacements over 401 (Simcoe, Albert, Park, Cubert, Wilson)<br>Metrolinx GO Bowmanville Expansion,<br>Simcoe St. (Reg. Rd. 2) from Olive Ave. to north of John St.,<br>Centre St. (Reg. Rd. 2A) from King St. to Adelaide Ave |



*Image not to scale*

# 2024 Roads Projects

## Liberty Street (Reg. Rd. 14) from Longworth Ave. to Concession Rd. 3, Clarington

Road rehabilitation including roundabout at Concession Rd. 3 intersection, signalization and modifications at Freeland Ave - Bons Ave intersection

|                                      |   |
|--------------------------------------|---|
| Prior Budget Approval:               | \$11,320,000  |
| <b>2024 Budget Request:</b>          | <b>\$1,200,000</b>  |
| <b>Total Estimated Project Cost:</b> | <b>\$12,520,000</b>   |
| On Regional Cycling Plan?            | No; MUP/cycle track is proposed on west side  |
| Project Driver:                      | Growth-related, rehabilitation  |
| Existing Segment Description:        | PCI Very Poor, 2 Lane Rural, partial sidewalk at the south end  |
| Status:                              | Detail Design – Completion Q4 2024<br>Property - Completion Q3 2024<br>Utility Relocations - Completion Q1 2025<br>Permitting – Completion Q1 2025                                    |
| Anticipated Construction Year(s):    | 2025-2026   |
| Coordination with adjacent projects: | Taunton Rd. (Reg. Rd 4) / Bowmanville Avenue (Reg. Rd. 57) Roundabout<br>Bowmanville Ave. from south of Reg. Hwy 2 to Stevens Rd.<br>Bowmanville Ave. from Baseline Rd. to Reg. Hwy 2 |

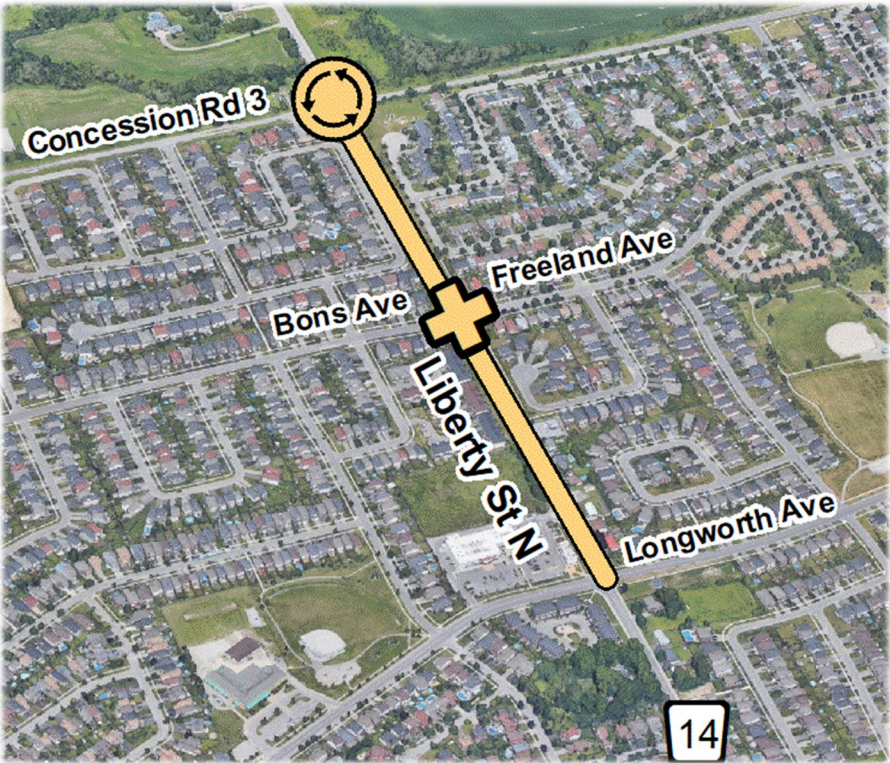


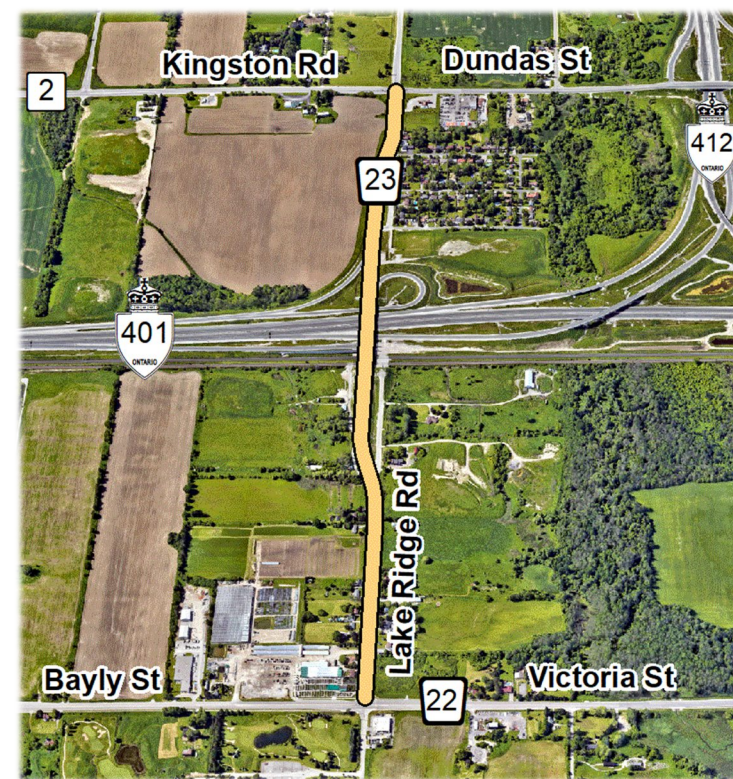
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## Lake Ridge Rd. (Reg. Rd. 23) from Bayly St. to Kingston Rd. - Dundas St., Ajax/Whitby

### Reconstruct and widen road to 4 lanes

|                                      |   |
|--------------------------------------|---|
| Prior Budget Approval:               | \$3,410,000   |
| <b>2024 Budget Request:</b>          | <b>\$8,000,000</b>  |
| <b>Total Estimated Project Cost:</b> | <b>\$16,410,000</b> (\$5M to be included in 2025 budget)  |
| On Regional Cycling Plan?            | Yes; proposed buffered paved shoulder, cycle track and MUP sections   |
| Project Driver:                      | Growth-related  |
| Existing Segment Description:        | PCI Very Poor, 2 Lane Rural   |
| Status:                              | Detail Design – Completion Q4 2024<br>Property – N/A<br>Utility Relocations - Completion Q4 2024<br>Permitting – Completion Q4 2024 |
| Anticipated Construction Year(s):    | 2025-2026   |
| Coordination with adjacent projects: | BRT on Kingston Rd. - Dundas St. from 200m west of Lake Ridge Rd. to Fothergill Crt.  |



*Image not to scale*

# Proposed 2024 Structures Replacement/Rehabilitation Projects



**Durham**  
**Budget**

2024

| Project   | Municipality | Proposed 2024 Budget |
|---|--------------|----------------------|
| <b>Replacements</b>   |              |                      |
| Reg. Rd. 5 Central St. Over Mitchell Creek Tributary Bridge           | Pickering    | \$1,500,000          |
| Reg. Rd. 5, Ninth Concession Rd. Over Duffins Creek Tributary Culvert | Pickering    | \$1,950,000          |
| Reg. Rd. 6, Saintfield Rd. Bridge                                     | Scugog       | \$4,000,000          |
| Reg. Rd. 9, Ganaraska Rd. Cross Culvert, east of Reg. Rd. 18          | Clarington   | \$100,000            |
| Reg. Rd. 57, Burketon CPR Bridge                                      | Clarington   | \$6,000,000          |
| <b>Rehabilitations</b>  |              |                      |
| Reg. Rd. 26, Thickson Rd. Culvert at Wentworth St.                    | Whitby       | \$1,300,000          |
| Capital Maintenance and Repairs Programs                              | Various      | \$510,000            |
| Various Preparatory and Coordination Activities                       | Various      | \$2,700,000          |
| <b>Total</b>  |              | <b>\$18,060,000</b>  |

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Central St. Over Mitchell Creek Tributary Bridge



Saintfield Bridge



Burketon / CPR Bridge

# Proposed 2024 Traffic Programs



| Traffic Program   | Proposed 2024 Budget |
|---|----------------------|
| Signal Installation Program                             | \$2,400,000          |
| Signal Modernization Program                            | \$1,510,000          |
| Accessible Pedestrian Signal (APS) Installation Program | \$1,000,000          |
| Roadside Safety Program                                 | \$800,000            |
| Durham Vision Zero Program                              | \$650,000            |
| Intelligent Transportation System (ITS) Projects        | \$635,000            |
| Uninterruptible Power Supply (UPS) Installation Program | \$500,000            |
| Advance Traffic Management Systems (ATMS) Upgrades      | \$1,755,000          |
| <b>Total</b>  | <b>\$9,250,000</b>   |





## Traffic Signal Design and Construction – Various

### Signal installations planned in 2024 include:

- Bloor St. at Trulls Rd.
- Bowmanville Ave. at Concession Rd. 6
- Bowmanville Ave. at Concession Rd. 7
- Brock Rd. at Usman Rd.
- Dundas St. at Centre St. (for Whitby)
- Enfield Rd. at Concession Rd 7
- King Ave. at Massey Dr./Pedwell St.
- Manning Rd. at HEPC Trail (50% Whitby)
- Reg. Hwy. 47 at Concession 3 Rd./Front St.
- Reg. Rd. 3 at Enfield Rd.
- Rossland Rd. at HEPC Trail (50% Whitby)
- Taunton Rd. at Darlington-Clarke Townline
- Taunton Rd. at Northbrook St./Patton St.
- Wilson Rd. at Attersley Dr.
- Winchester Rd. at Bridle Rd.

**2024 Budget Provision:**  
**\$2,400,000**



## Vision Zero – Traffic Safety Initiatives

**Eight emphasis areas:** Intersections, Aggressive Driving, Distracted Driving, Young Drivers, Pedestrians, Impaired Drivers, Cyclists, Commercial Vehicle Operations

**Highlights:** Automated Speed Enforcement, Red Light Cameras, Pedestrian Crossing Improvements, New Cycling Infrastructure, Enforcement Programs, Outreach and Education

**Goal:** 10% reduction in fatal and injury over 5 years

**2024 Budget Provision: \$3,429,264**

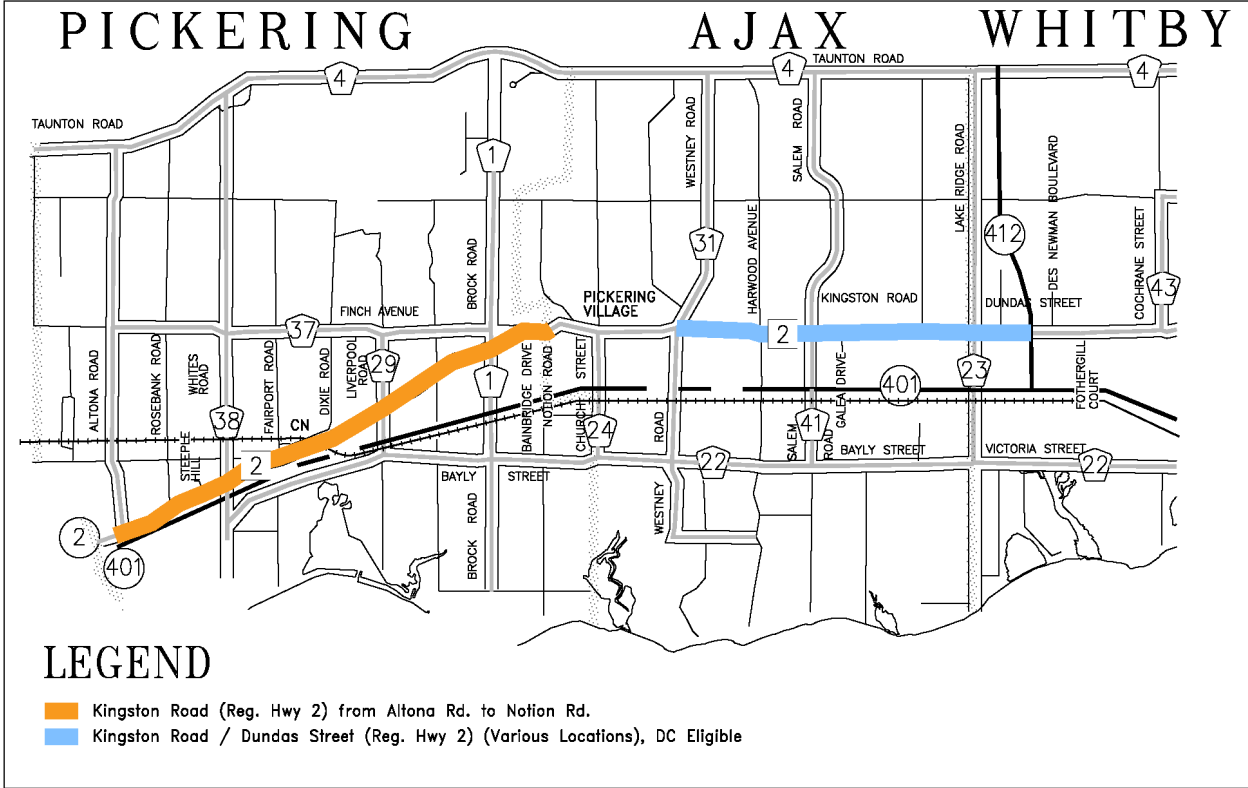


Automated Speed Camera – Claremont Public School (Pickering)

# Proposed 2024 ICIP BRT Projects

| Bus Rapid Transit Project  | Municipality | Proposed 2024 Budget* |
|--|--------------|-----------------------|
| Kingston Rd. (Reg. Hwy. 2) from Altona Rd. to Notion Rd.           | Pickering    | \$11,455,000          |
| Kingston Rd. - Dundas St. (Reg. Hwy 2) from Westney Rd. to Hwy 412 | Ajax, Whitby | \$20,922,000          |
| Total  |              | \$32,377,000          |

*\* Total includes \$23.7 million in external funding*





# Planned 2024 Road Tenders Funded from Previous Year Budgets



- Reg. Rd. 1 (Concession 7) reconstruction from Sandford Rd. to north of Ashworth Rd.
- Reg. Rd. 1 (Concession 7) reconstruction from Foster Dr. to Harrison Dr.
- Reg. Rd. 2A (Centre Street) reconstruction from King St. to Adelaide Ave.
- Reg. Rd. 3 (Winchester Rd.) widening to 3/4 lanes from east of Baldwin St. to Anderson St.
- Reg. Rd 4 (Taunton Rd.) / Reg. Rd. 57 Bowmanville Avenue Roundabout
- Reg. Rd. 13 reconstruction from east of Lake Ridge Rd. to west of Sideroad 17
- Reg. Hwy 2 (Kingston Rd.) BRT reconstruction from Harwood Ave. to Galea Dr.
- Reg. Hwy 2 / Newtonville Rd. (Reg. Rd. 18) intersection modifications

## **Construction carryover road construction projects that commenced before 2024:**

- Reg. Rd. 2 (Simcoe St) reconstruction from Olive Ave. to John St.
- Reg. Rd. 57 (Bowmanville Ave.) widening from south of Reg. Hwy 2 to Stevens Rd.



# Durham Budget

2024

## Budget Overview – Solid Waste Management

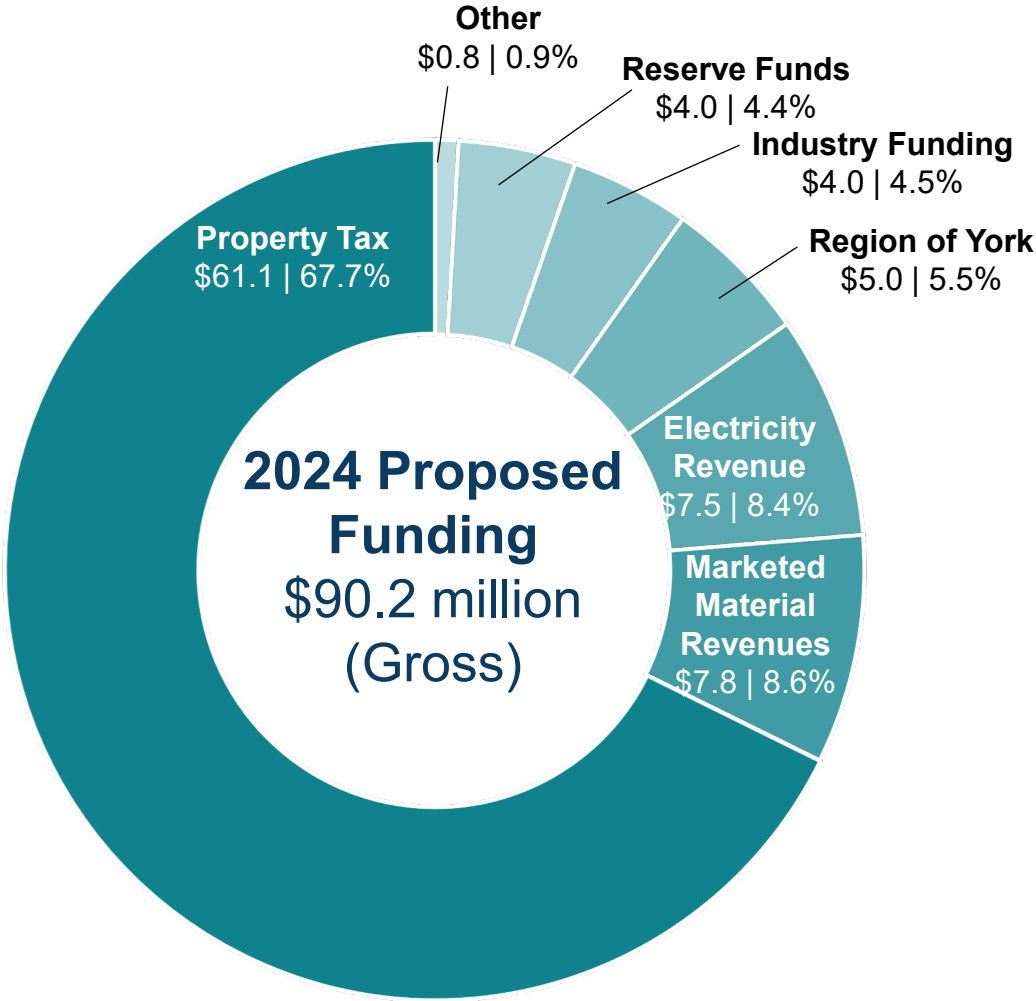
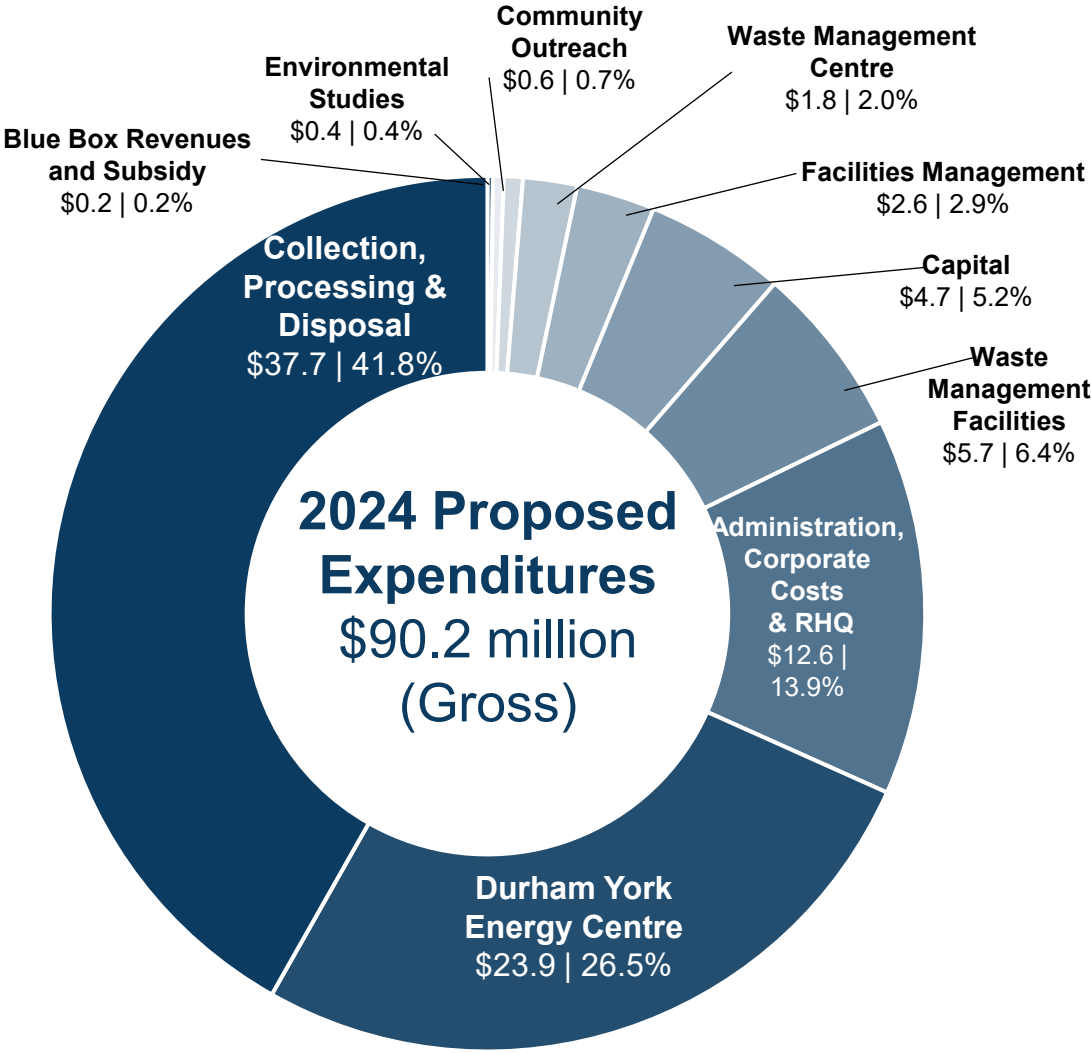
## Service Improvements

- Awarded an organics processing contract to fulfill the requirements of the Region's short term organics management needs and accommodate the expansion of the green bin program in 2024.
- Piloted a Biocover system at the closed Oshawa Landfill site, to assess the effectiveness of biocover as an effective methane reduction method for closed landfills in the Region.
- Developed agreements with service providers to continue curbside collection services to designated small businesses within the Region's Business Improvement Area during the transition to the extended producer responsibility program.

## Customer Service

- Provided service to more than 321,000 customers at the Region's Waste Management facilities.
- 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.
- Managed over 228,000 tonnes of materials within the waste diversion and disposal programs.

# 2024 Proposed Expenditures and Financing



**\$4.00M**

Investment to redesign the Oshawa Waste Management Facility and optimize the site to ensure it is utilized to its full extent and achieves the goals outlined in the Region's Long Term Management Plan, 2022-2040.

**\$2.36M**

Savings due to the transition of the blue box program to extended producer's responsibility program and the enhanced green bin program. The savings have been used to partially fund the above capital improvements at the Oshawa Waste Management Facility.

## Proposed budget includes base increase of \$2.385 M

- Primary drivers are:
  - \$2.153 million increase in collection, disposal and processing contract costs due to CPI adjustments
  - \$0.381 million for economic increases
  - \$0.183 million reduction for removal of one-time items and line-by-line savings

## Proposed budget includes impact of (\$2.36 M)

The transition to the extended producer's responsibility program (for blue box) and the enhanced green bin program will result in net savings of \$2.36 million, which has been used to partially fund the capital improvements at the Oshawa Waste Management Facility.

- Primarily due to the reduction of collection and processing contract costs – (\$9.0 M)
- Revenue generation from Material Recovery Facility Lease – (\$0.5 M)
- Loss of provincial funding and commodity revenue - \$6.46 M
- Contract for blue box service for BIAs - \$0.2 M

## Blue Box Transition & Enhanced Green Bin Program

---

- Transition out of Blue Box Program into the Extended Producer's Responsibility program and launch of the Enhanced Green Bin Program will commence on July 1, 2024.
  - The enhanced Green Bin Program will see the list of acceptable materials expanded to include diapers, personal sanitary products, adult incontinence products, pet waste, and pet litter.
  - The Region will 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.
- 
-



## Risks and Uncertainties

- Transition to the Extended Producer's Responsibility (EPR) 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 current blue box collection contract includes curbside battery collection, and replacement contract for battery collection will be required.
- Uncertainty regarding blue box material commodity pricing and industry funding which will be ending on June 30, 2024, with the transition to the EPR program.
- Requirements and timing of the Province's Food and Organic Waste Policy Statement/Framework. Residents' uptake of the Green Bin expansion program will 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.



# Durham Budget

2024

## **Staffing, Risks & Uncertainties and Future Budget Pressures**

## Works Department Assessment

- With the growing population in the Region and increased Provincial housing targets, the Region needs to invest in infrastructure to achieve these targets.
- The Works department has modestly grown its workforce over the years and 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 required to achieve the Provincial housing targets and local municipal housing pledges, continues to exceed existing staffing levels.
- To address the rapid 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.

## Works Department Assessment

Based on surveys, interviews, and a scan of the municipal sector, the consultant findings highlighted the following from a resourcing perspective:

- Resourcing challenges to deliver ongoing and forecasted projects
- Resourcing pressures due to several enterprise-wide functions increasingly being housed and developed in the Works Department
- Inconsistency in long-term workforce planning in the department
- Challenges attracting talent and long lead times to get project-ready talent
- Difficulty leveraging resources across the Works department as project planning and delivery are done at the team level



## Works Department Assessment

Key recommendations to develop scale and efficiency in the department include:

- Increasing focus on capital project delivery by creating a new dedicated “operational vertical”
- Centralization of support services within Works to increase the department's focus on common core services across Works
- 2024 General Tax and Waste budget
  - provision of \$0.935 million for full time equivalent employees (FTEs) anticipated as a priority from the recommendations of the Works Department assessment.
  - provision is a 2024 minimum requirement to set the groundwork for resourcing and advancing a significant capital program, maintaining assets in a state of good repair, and operating existing infrastructure in line with targeted levels of service and community expectations, all key to facilitating the achievement of housing targets.

## Risks and Uncertainties

- Ongoing efforts to maintain Minimum Service 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 traffic infrastructure and Regional facilities.
- Uncertainty around revenue/funding pressures (e.g., provincial/federal infrastructure programs which require matching Regional investment).
- Reduction in Development Charges that was historically used to help finance the growth-related portion of road expansion projects. These reserve funds will be reduced significantly over the next five years because of Bill 23 *More Homes, Built Faster Act, 2023* and Bill 134 *Affordable Homes and Good Jobs Act, 2023*.
- Increased pressure on road rehabilitation needs due to uncertainty around receipt and availability of development charge revenue for major road projects. Any reduction in Development Charges for growth may result in increased pressure on road rehabilitation.
- Changes in local market demands for engineering and construction services impacting external industry capacity and internal human resources capacity for infrastructure projects.

## Risks and Uncertainties (cont'd)

- Increasing costs of operations due to unprecedented inflation on labour, materials and supplies critical for service provision and ongoing supply chain challenges.
- Resource pressures for capital project delivery due to the increasing number and complexity of projects.
- Recruiting and retaining qualified Regional staff, especially in a very competitive job market.
- Ongoing difficulties experienced by contractors to recruit and retain 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.

## Forecasted Pressures – Impacts on 2025 Budget

- Annualization of new positions approved during 2024
- Uncertainty regarding the impact of recyclable commodity prices on revenues and 2024 Blue Box transition.
- Continued uncertainty in relation to inflationary impacts on contracted services.

## Growth

- 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.



## Forecasted Pressures (cont'd)

### Asset Management and Infrastructure

- Reconstruction, modernization and expansion of existing Maintenance Operations Depots.
- Increased resources to support Durham Regional Local Housing Corporation initiatives and expansion of Long-Term Care, Region of Durham Paramedic Services, Durham Regional Police Services and Durham Region Transit facilities.
- Replacement of the fuel management system and related infrastructure.
- Financial and staffing constraints to address state of goods repair for the road network and the growing capital road, traffic control, bridge expansion and rehabilitation needs.
- Optimization of the Region's Waste Management Facilities to increase efficiency and productivity.
- Increased demand for maintenance, cleaning and winter operations for new roads and for a clean, safe and comfortable transport infrastructure for pedestrians, transit users, vehicles and the movement of goods.

## Forecasted Pressures (cont'd)

### Legislative and Regulatory Requirements

- *More Homes Built Faster act, 2022 and 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.
- 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.
- Expansion of Vision Zero countermeasures.
- On-going environmental protection, compliance and rehabilitation requirements for closed landfills.
- Regulation 941 of the Professional Engineers Act requiring continuing professional development annually to maintain licenses, which will impact divisional budgets and project/program productivity.



# Durham Budget

2024

## Questions?

**From:** [Clerks](#)  
**To:** [Sarah Ciani](#)  
**Subject:** FW: Correspondence for March 6 Works Cttee re Report 2024-WR-1 New Waste Management Services by-law  
**Date:** March 5, 2024 11:09:38 AM

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Hi Sarah,

For tomorrow's meeting.

Thank you,  
Sheila

-----Original Message-----

From: Linda Gasser [REDACTED]  
Sent: Tuesday, March 5, 2024 10:54 AM  
To: Clerks <[Clerks@durham.ca](mailto:Clerks@durham.ca)>  
Cc: [clerk@whitby.ca](mailto:clerk@whitby.ca); Akeson, Lisamaria <[akesonl@whitby.ca](mailto:akesonl@whitby.ca)>  
Subject: Correspondence for March 6 Works Cttee re Report 2024-WR-1 New Waste Management Services by-law

Good morning Chair & Members of Works Committee:

Durham Region is responsible for managing residential materials (waste) within the Region.

An ongoing concern at both Whitby (which does collection for garbage and green bin) and at the Region, is that both Whitby's and the Durham's positions seem to be that IF buildings/condo/townhouse developments don't meet Whitby's/Durham's Technical & Risk Management Guidelines, that local/regional waste collection services won't be provided.

I urge you to consider inserting a clause that makes it clear to ALL applicants, that effective immediately there must be NO OPTING OUT of regional/local waste programs.

Applications for residential developments that do NOT meet regional/local waste collection and other standards, should NOT be approved and require relevant revisions such that they are designed to meet local and Regional Guidelines, Site Plan Requirements etc.

Developers/builders design their developments/buildings to maximize their profits. They don't really care if purchasers i.e. your future residents, end up paying extra for private waste collection/disposal, and whether or not they would be able to participate in all waste programs required by the Region. Purchasers may not be aware of these matters until well after their purchase.

Developers/builders must be informed at the earliest opportunity, including during pre-consultation meetings prior to submitting applications, that their buildings MUST meet regional/local Tech Risk Guidelines, with NO OPTING OUT of regional/local waste collection.

Allowing developments/buildings to opt out creates a two tier system and higher costs for those who have to pay for private disposal, not to mention the known negatives of not requiring, or being able to oversee, proper sorting and collection of waste and divertibles.

Thank you for your attention.

Linda Gasser  
Whitby





# The Regional Municipality of Durham Report

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

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**Subject:**

New Waste Management Services By-law

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**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:**

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

Recommended for Presentation to Committee

**Original signed by:**

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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;



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- (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;

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- (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;

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- (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);

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- (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



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- (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 (3<sup>rd</sup>) 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 -----<sup>th</sup> 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](https://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

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](https://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

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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](http://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

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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**

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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](mailto: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

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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**

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

## **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, 5<sup>th</sup> Floor  
605 Rossland Road East, PO Box 623  
Whitby, Ontario L1N 6A3

Or electronically to:

[wastestaff@durham.ca](mailto: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**

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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"> <li>3.69 m to top of cab</li> <li>5.08 m with bucket up</li> </ul>   | 11.50 m        |
| Multi-Residential Front-end Waste                              | 9.85 m  | 2.77 m | <ul style="list-style-type: none"> <li>4.31 m to top of cab</li> <li>7 m with forks extended</li> </ul> | 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

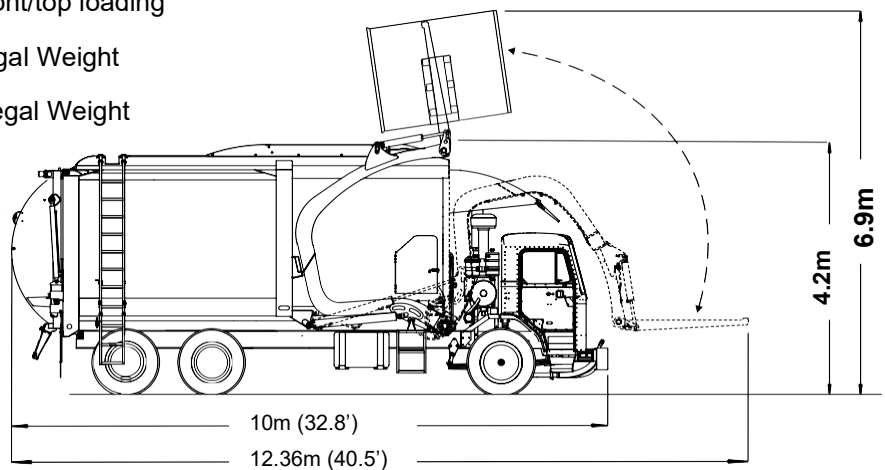
Example: SU9/medium size trucks front/top loading

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.

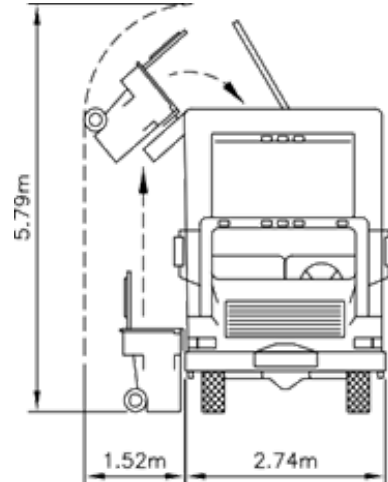
The following illustrates the motion of multi-residential organics cart recycling collection vehicle.

### **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<br>2.24 ft | 0.68 m<br>2.23 ft | 1.09 m<br>3.58 ft | 1 cubic m<br>3.3 ft x 3.3 ft   |
| 2 Cubic Yard Bin                    | 1.82 m<br>6.0 ft  | 0.91 m<br>3 ft    | 0.91 m<br>3 ft    | 2 m x 1.2 m<br>6.5 ft x 4 ft   |
| 3 Cubic Yard Bin                    | 1.82 m<br>6.0 ft  | 1.03 m<br>3.4 ft  | 1.21 m<br>4.0 ft  | 2 m x 1.4 m<br>6.5 ft x 4.5 ft |
| 4 Cubic Yard Bin                    | 1.82 m<br>6.0 ft  | 1.37 m<br>4.5 ft  | 1.22 m<br>4.0 ft  | 2 m x 1.7 m<br>6.5 ft x 5.5 ft |
| 6 Cubic Yard Bin                    | 1.82 m<br>6.0 ft  | 1.82 m<br>6.0 ft  | 1.6 m<br>5.25 ft  | 2 m x 2.1 m<br>6.5 ft x 7 ft   |
| 8 Cubic Yard Bin                    | 1.82 m<br>6.0 ft  | 2.1 m<br>7.0 ft   | 1.82 m<br>6.0 ft  | 2 m x 2.4 m<br>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.   |

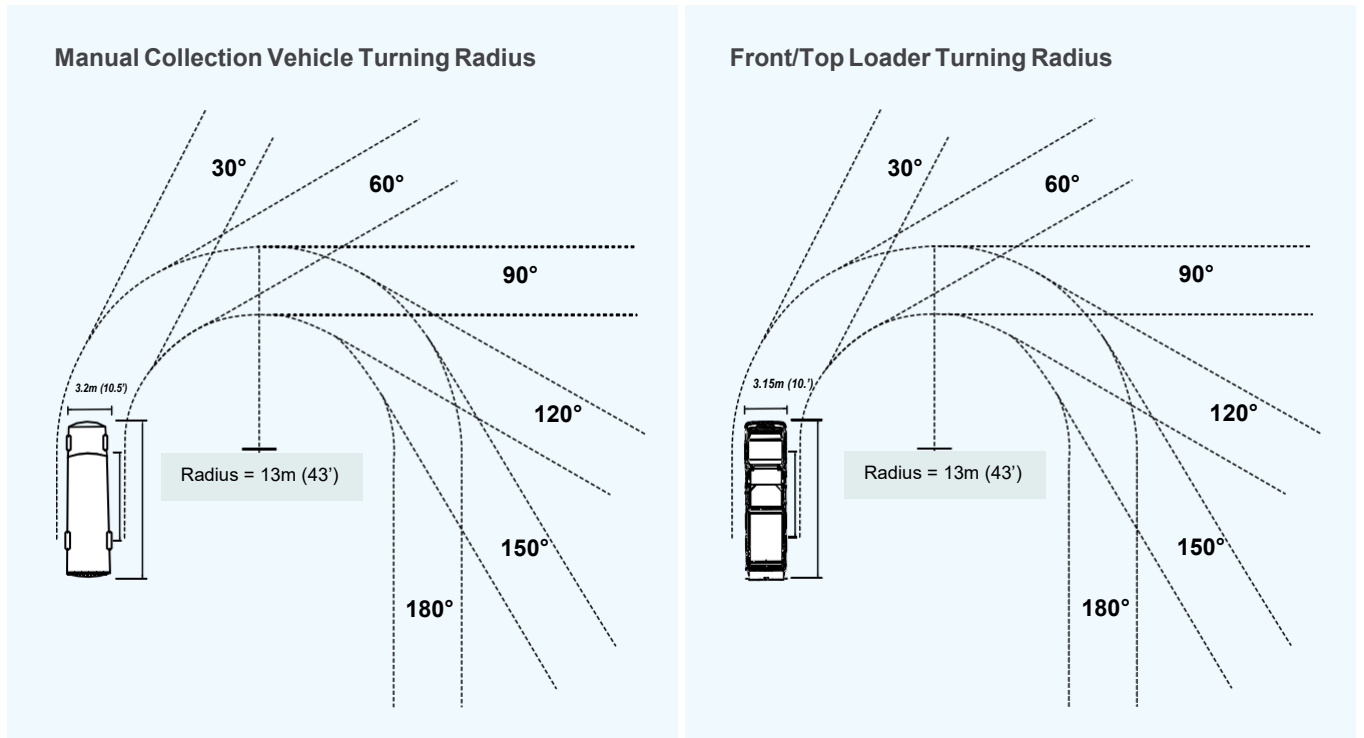


Figure 1 Collection Vehicle Turning Radius

### Appendix C: Dimensions for a "T" Turnaround

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

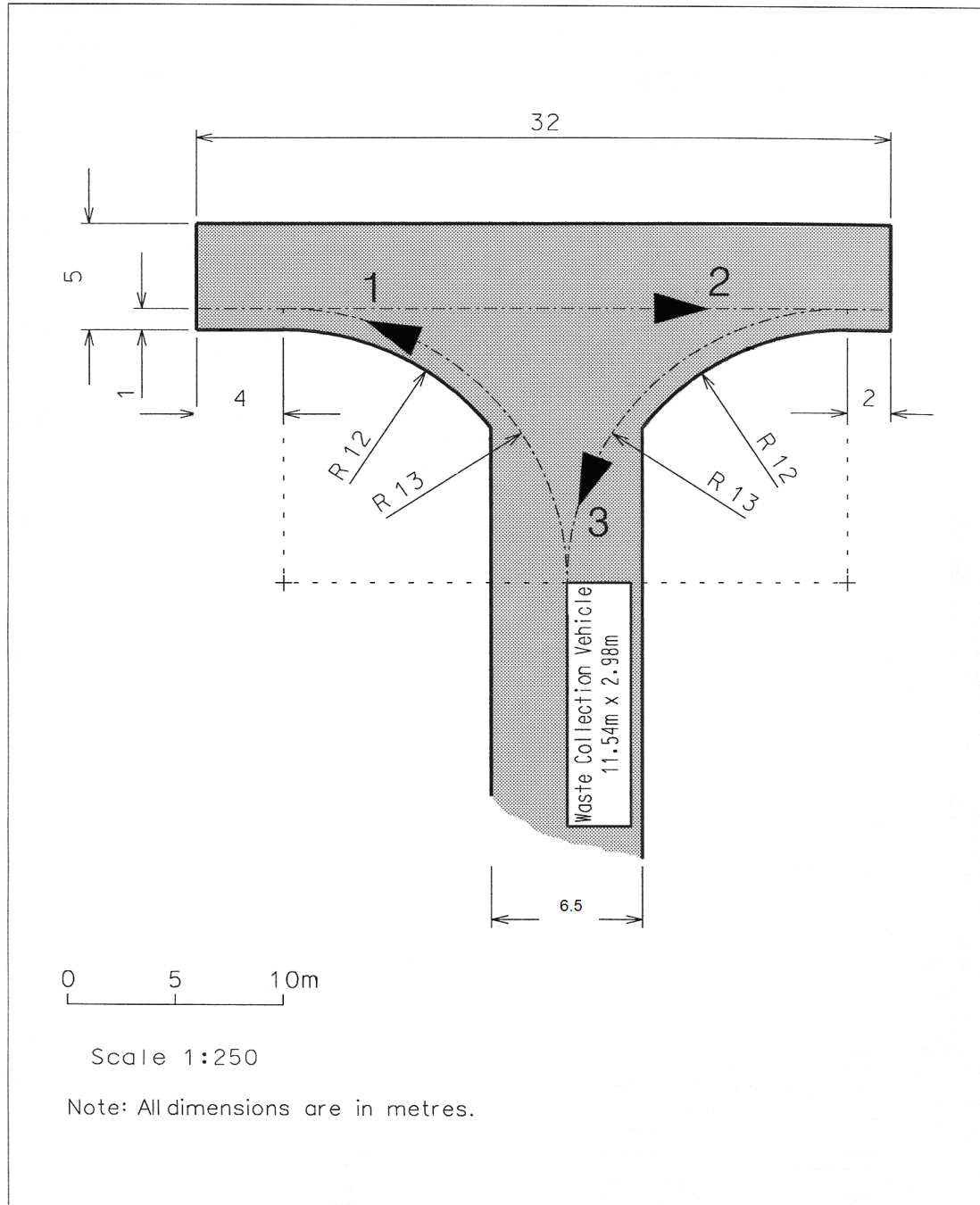


Figure 2 Dimensions for a "T" Turnaround

## 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.

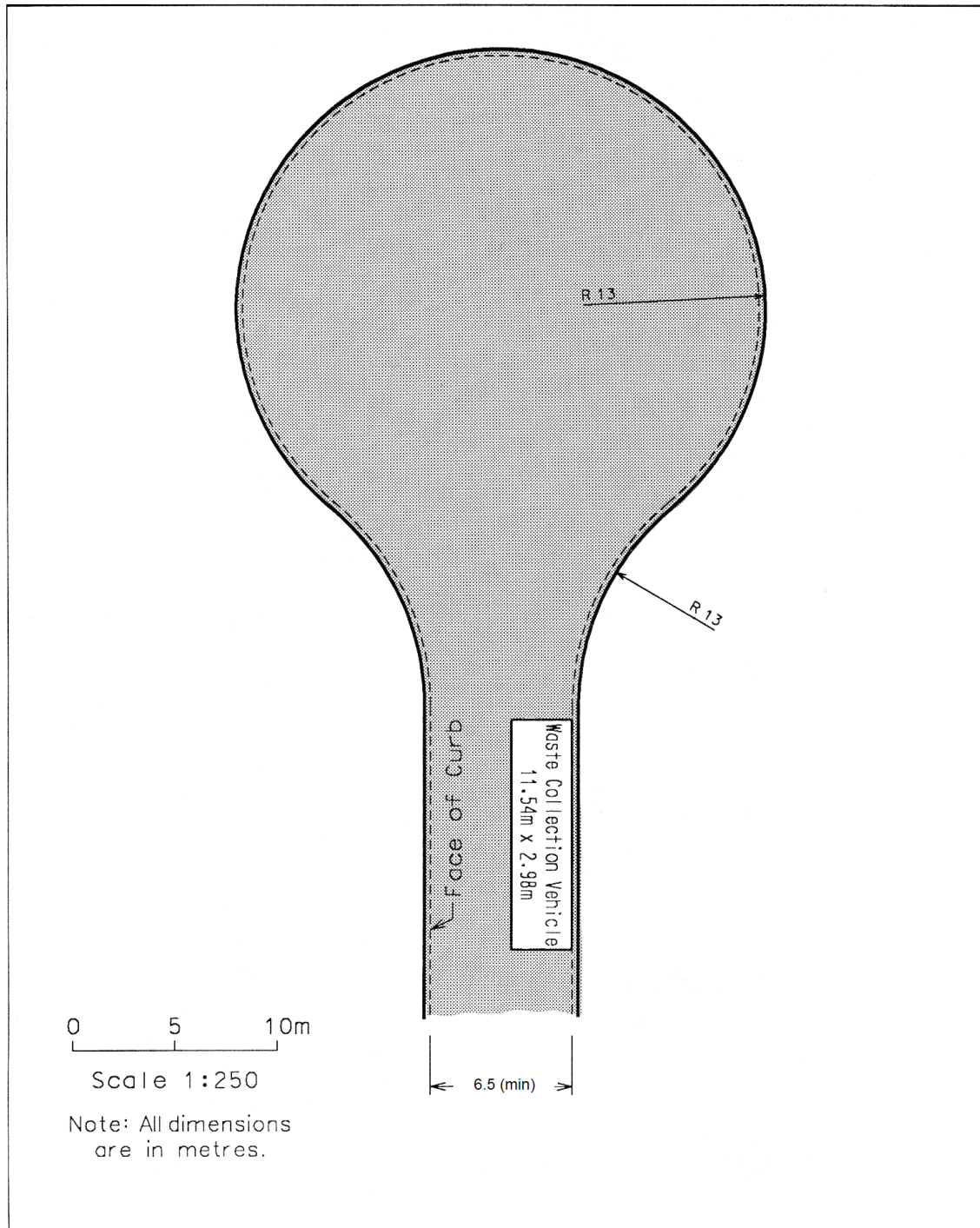


Figure 3 Dimensions for a Cul-de-Sac Turnaround

**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

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

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**Subject:**

Update on Small Business Recycling Post Blue Box Transition

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**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 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.
- 2.8 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).
- 2.9 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  |               |
| <b>TOTAL STOPS</b>  |            | <b>2,761</b>                                     | <b>191</b>    |
| <b>Estimated Annual Cost<br/>Jul 1, 2024 – Dec 31, 2025</b> |            | <b>\$22,000 + \$3,000 (material processing)</b>  |               |
| <b>Estimated Annual Cost<br/>after Jan 1, 2026</b>          |            | <b>\$225,000 + \$3,000 (material processing)</b> |               |

- 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:**

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

Recommended for Presentation to Committee

**Original signed by:**

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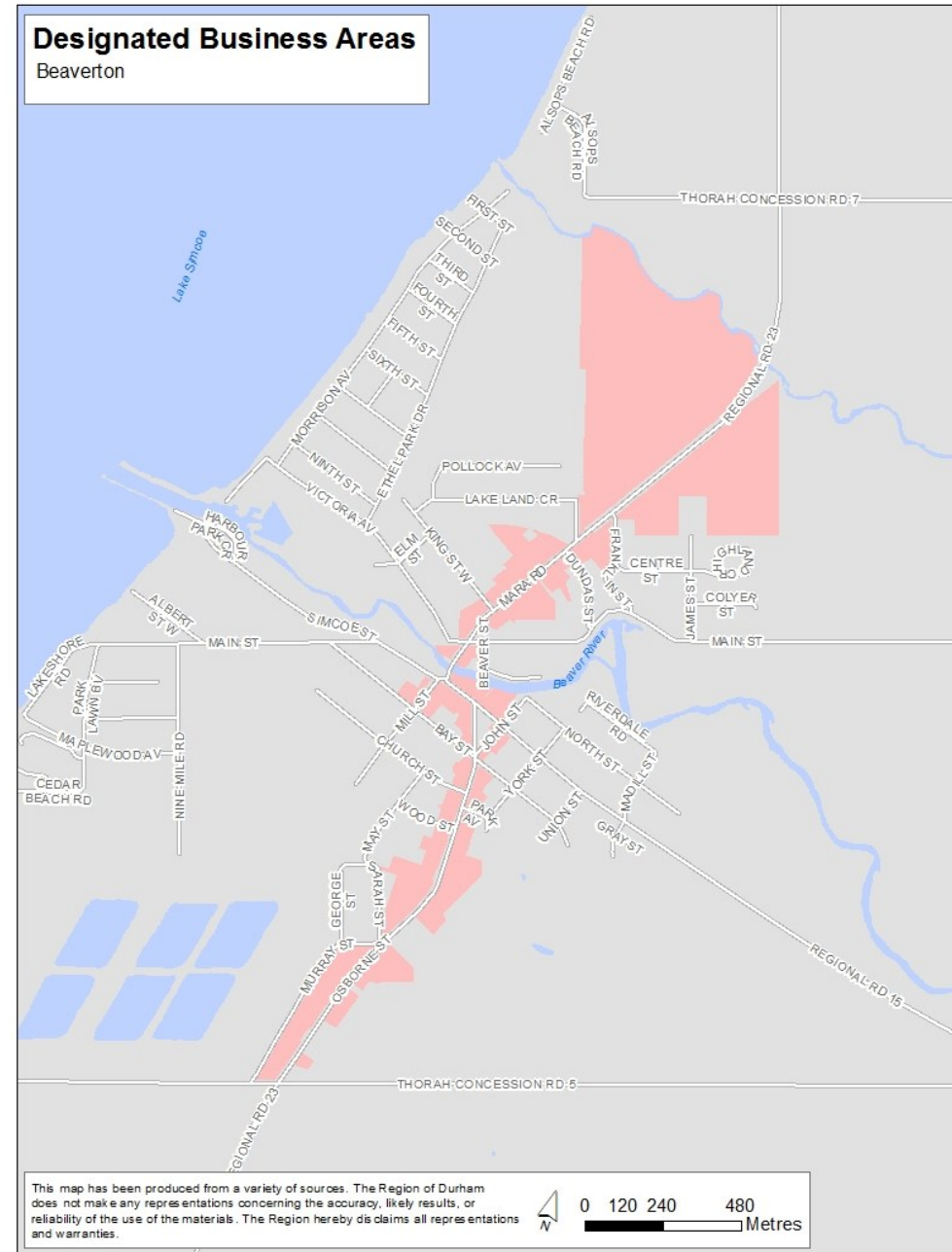
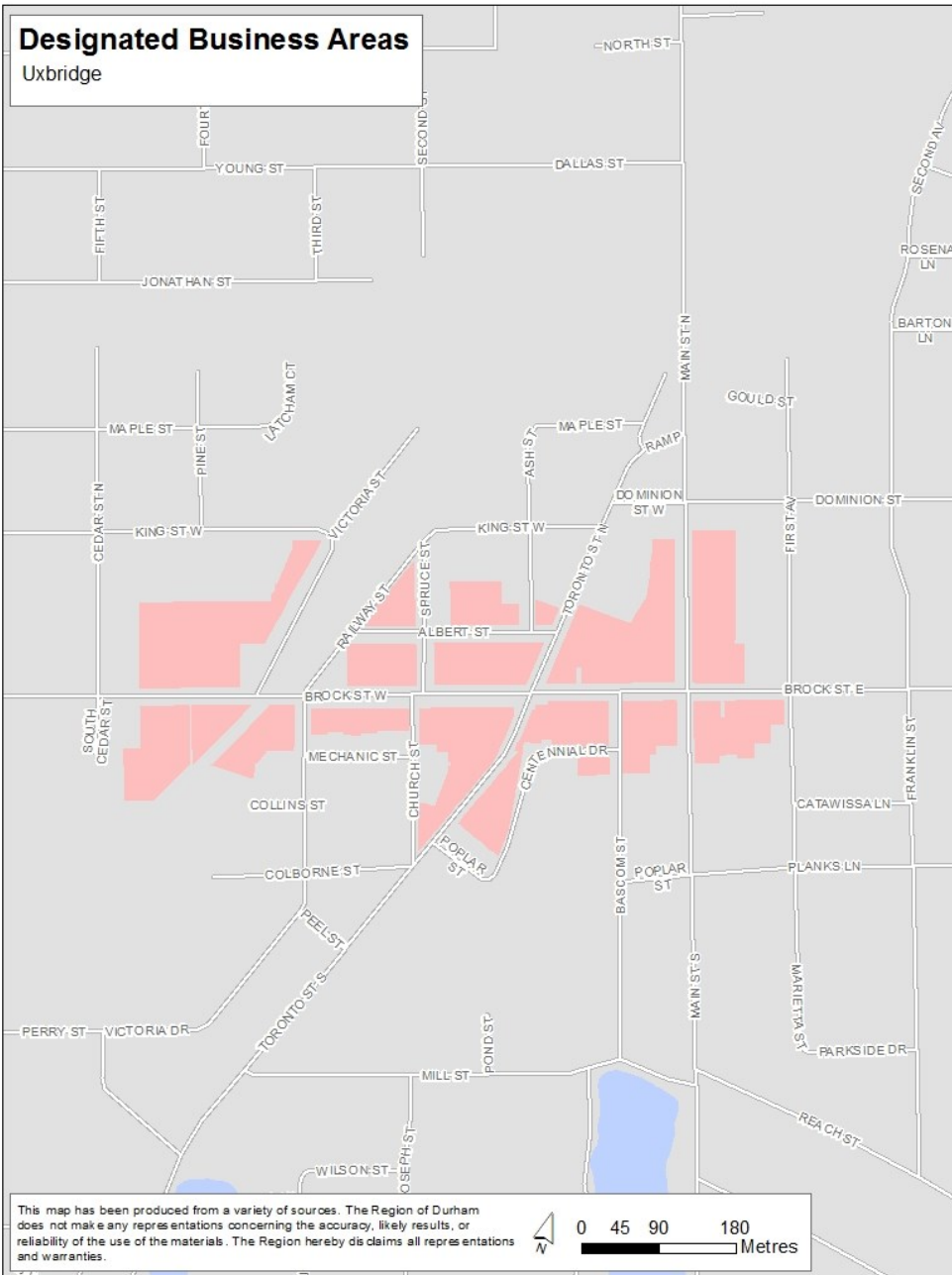
Elaine C. Baxter-Trahair  
Chief Administrative Officer

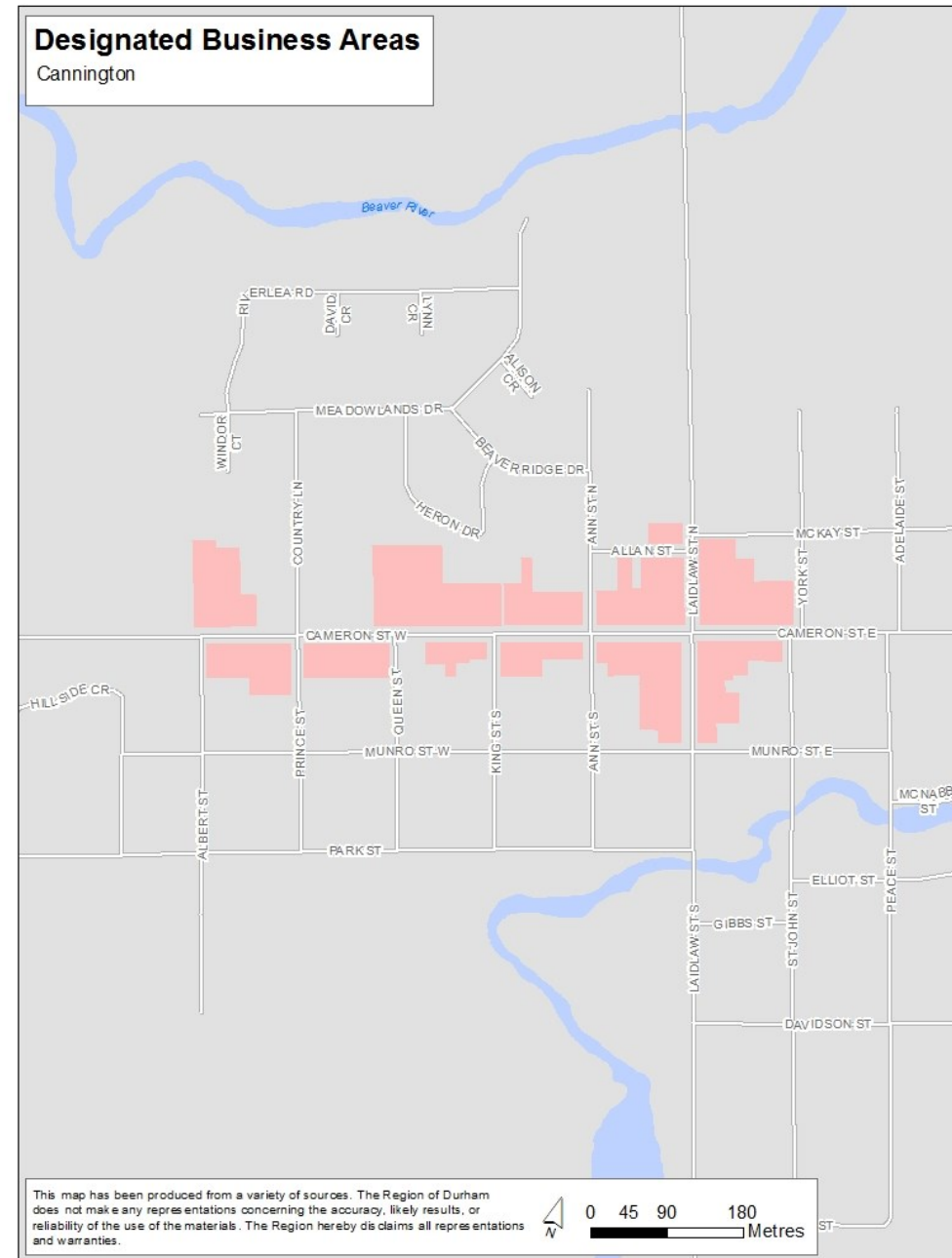
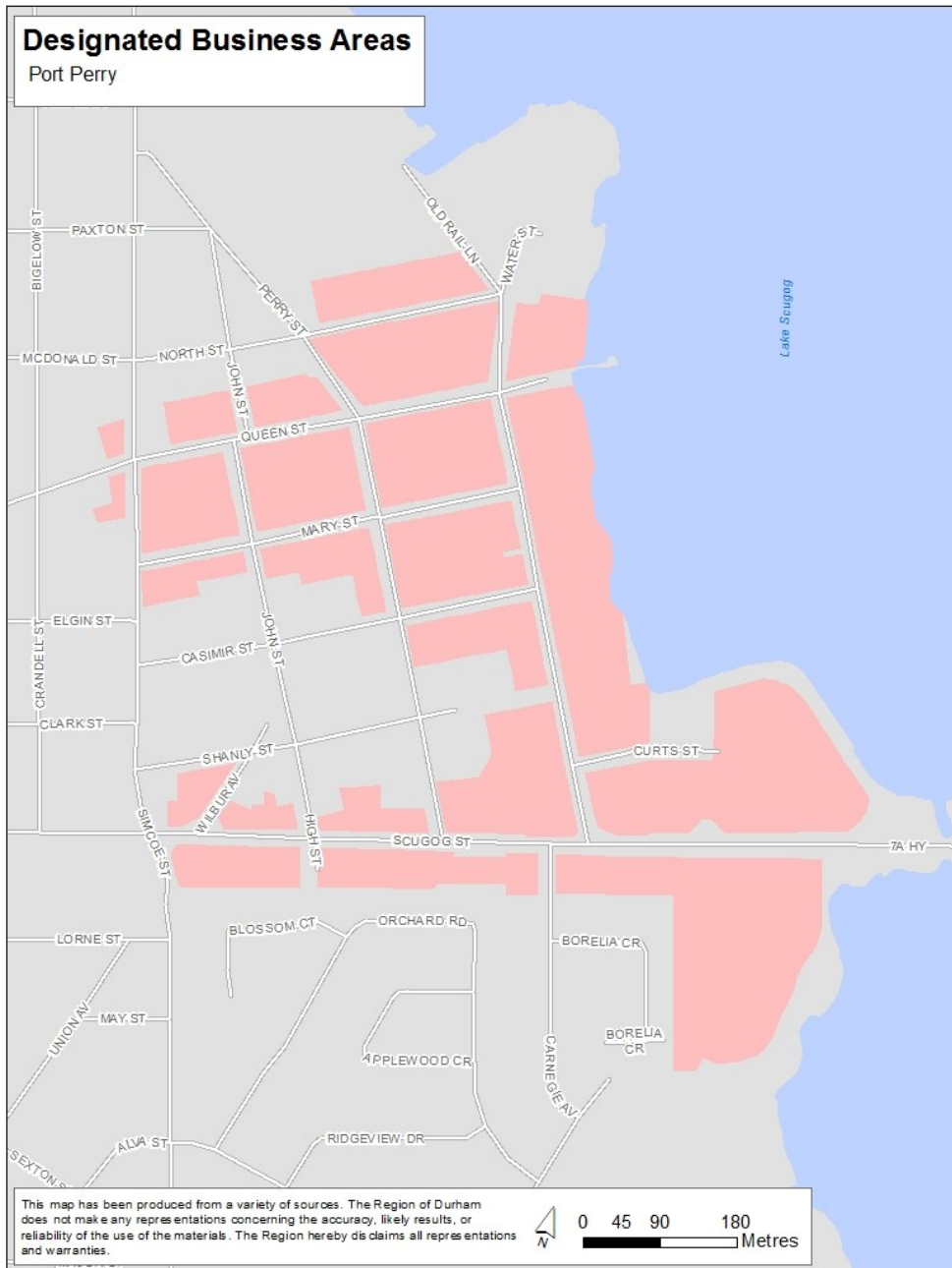


## Attachment # 1

# Designated Business Areas

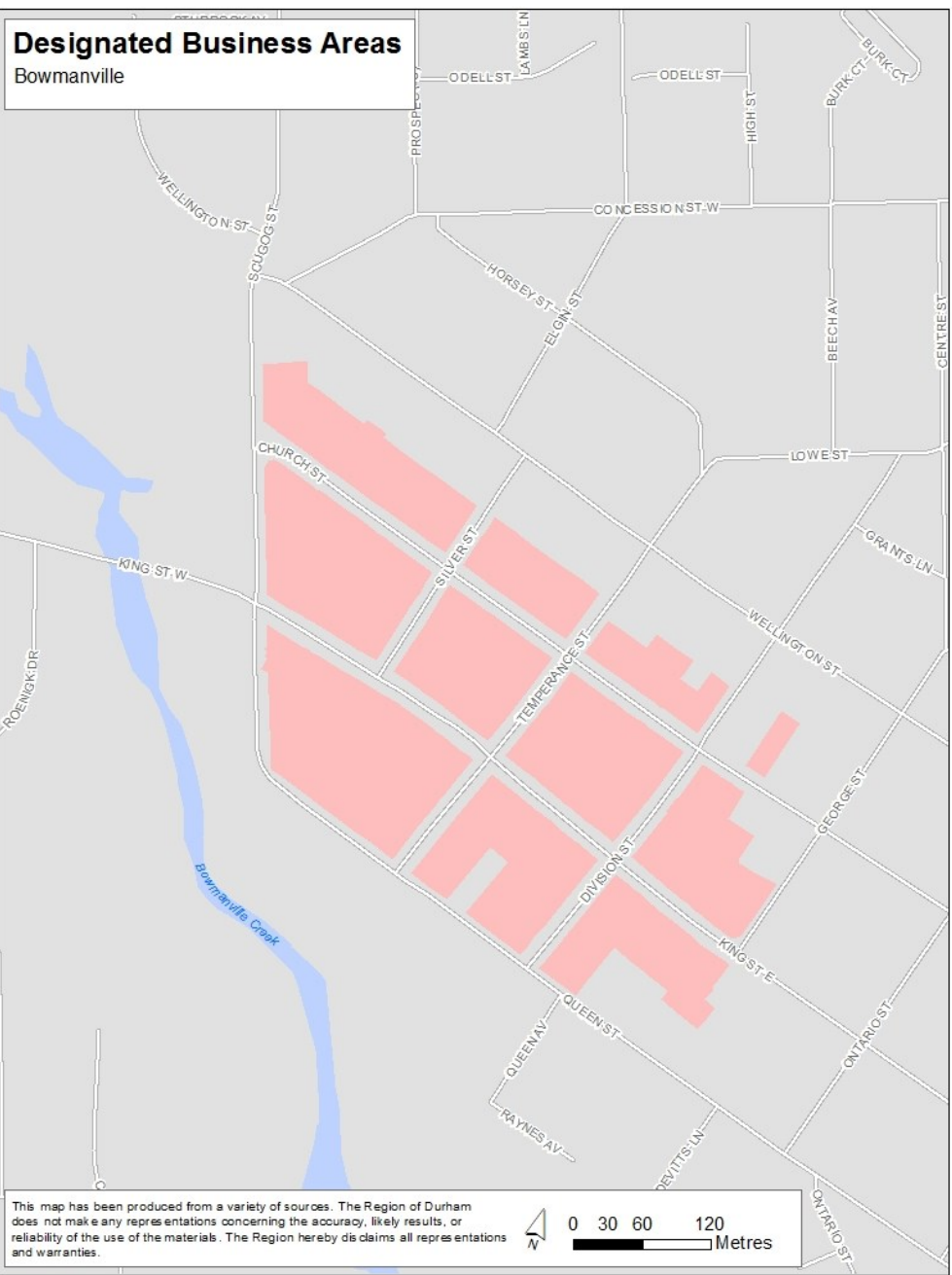
By Area Municipality





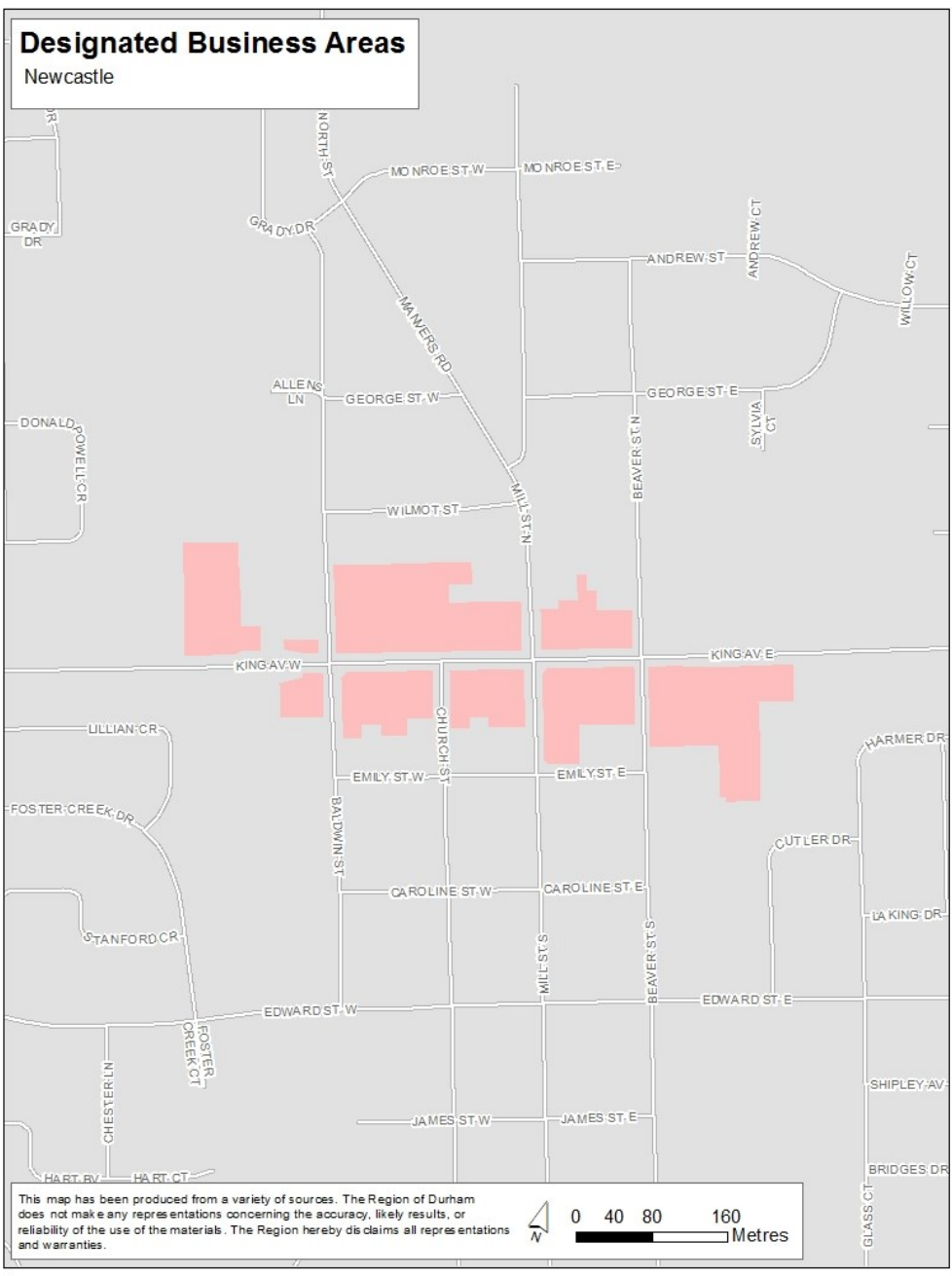
# Designated Business Areas

Bowmanville



# Designated Business Areas

Newcastle







### Designated Business District Ajax (Pickering Village)

ATTACHMENT 3

1:2,000



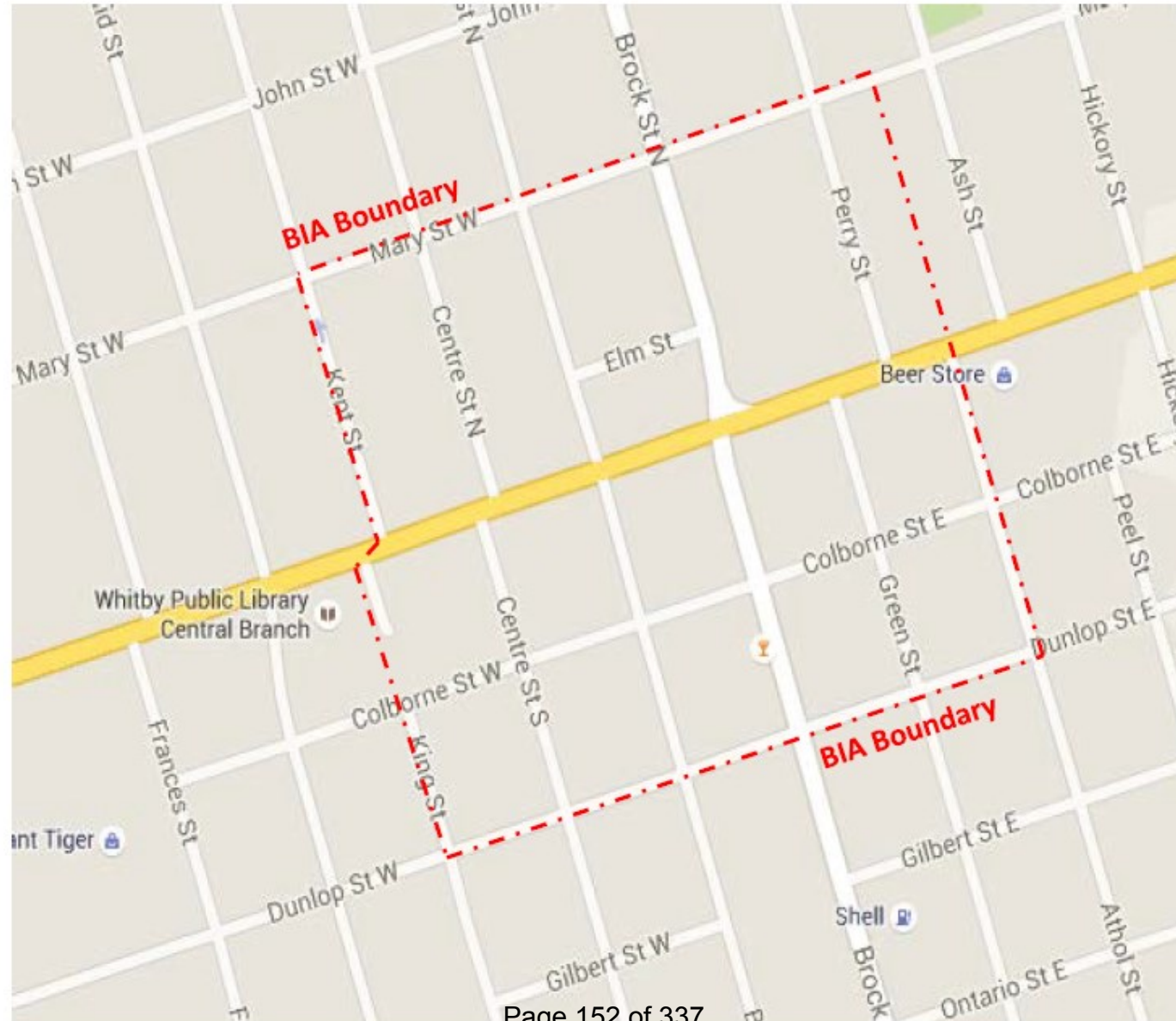
### Designated Business District Ajax

ATTACHMENT 4

1:2,000

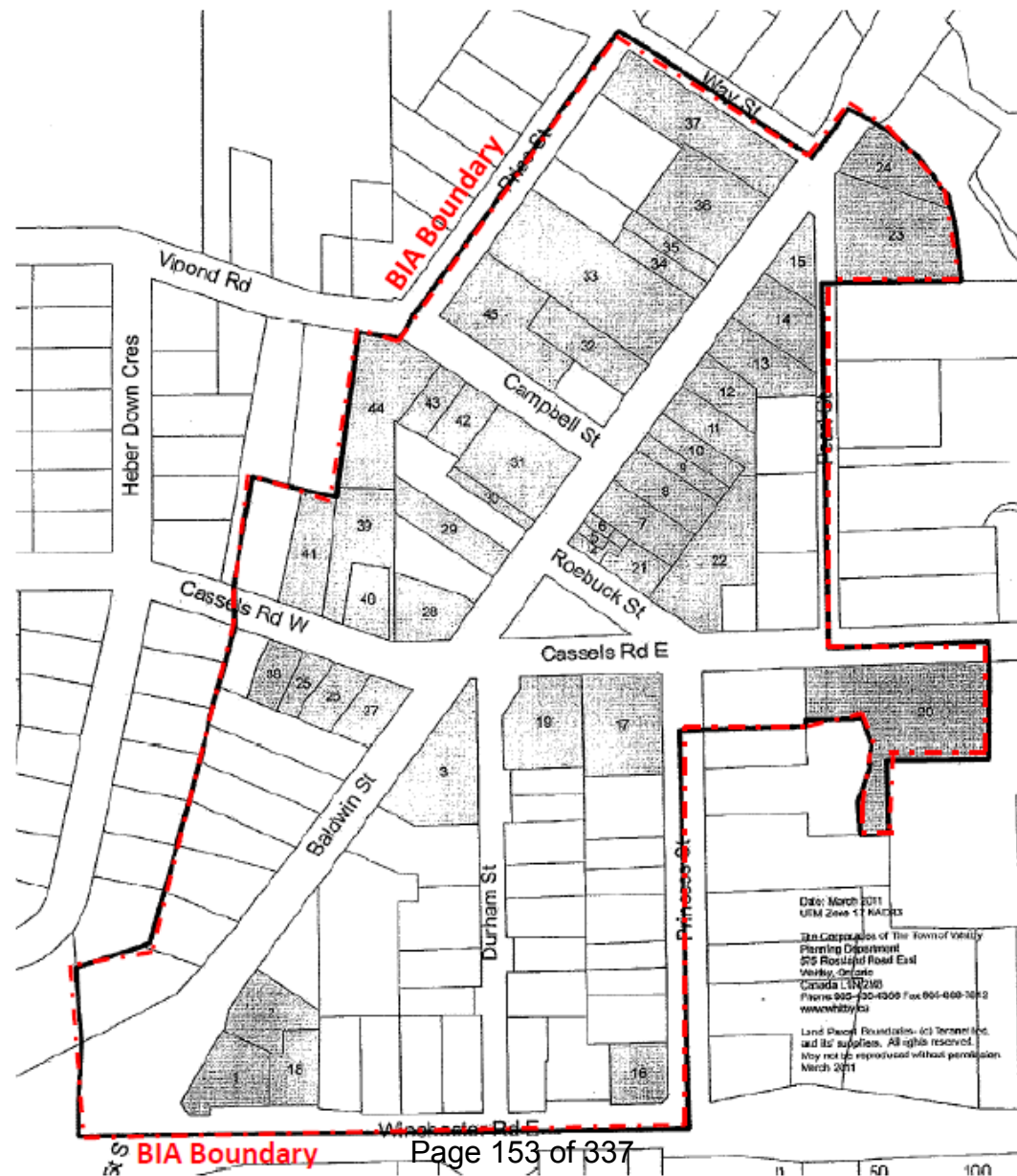
## TOWN OF WHITBY BIA BOUNDRY

(Approximate # of Stops 1151)



# VILLAGE OF BROOKLIN BIA BOUNDARY

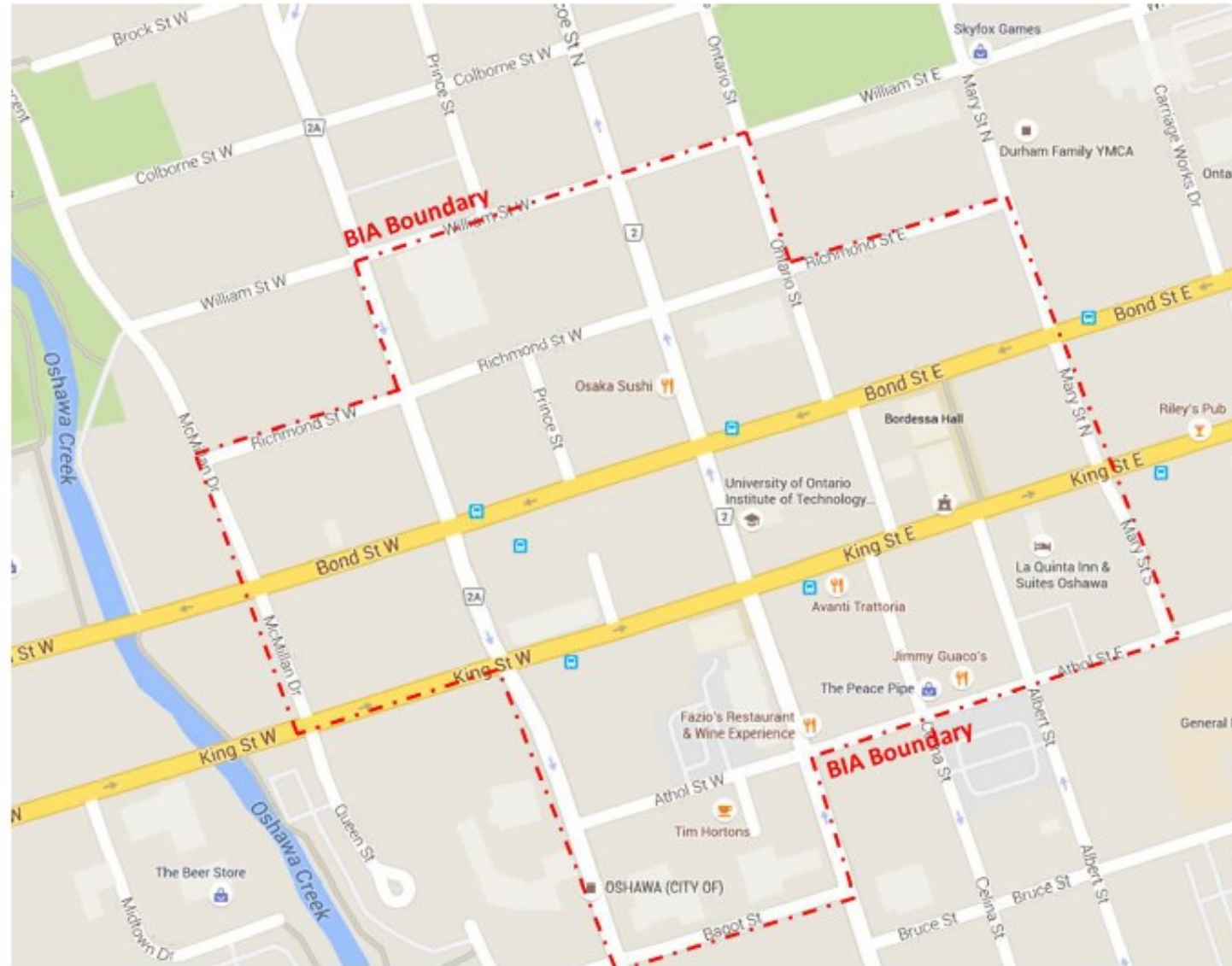
(Approximate No. of Stops 96)





## 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

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

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**Subject:**

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

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**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.
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**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**

| <b>Drinking Water System</b> | <b>Municipal Drinking Water License #</b> | <b>Issue Number</b> | <b>Issue Date</b>  |
|------------------------------|---|---------------------|--------------------|
| 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**

| <b>Drinking Water System</b> | <b>Compliance Requirements</b> | <b>Water Taking Conditions</b> |
|------------------------------|--------------------------------|--------------------------------|
| <b>Oshawa *</b>              | Non-compliant                  | Did Not Exceed                 |
| <b>Whitby *</b>              | Compliant                      | Did Not Exceed                 |
| <b>Ajax *</b>                | Non-compliant                  | Did Not Exceed                 |
| <b>Beaverton</b>             | Compliant                      | Did Not Exceed                 |
| <b>Blackstock</b>            | Compliant                      | Did Not Exceed                 |
| <b>Bowmanville</b>           | Compliant                      | Did Not Exceed                 |
| <b>Cannington</b>            | Non-Compliant                  | Did Not Exceed                 |
| <b>Greenbank</b>             | Compliant                      | Did Not Exceed                 |
| <b>Newcastle</b>             | Non-Complaint                  | Did Not Exceed                 |
| <b>Orono</b>                 | Compliant                      | Did Not Exceed                 |
| <b>Port Perry</b>            | Compliant                      | Did Not Exceed                 |
| <b>Sunderland</b>            | Compliant                      | Did Not Exceed                 |
| <b>Uxbridge</b>              | 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](http://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](http://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:**

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

Recommended for Presentation to Committee

**Original signed by:**

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Elaine C. Baxter-Trahair  
Chief Administrative Officer



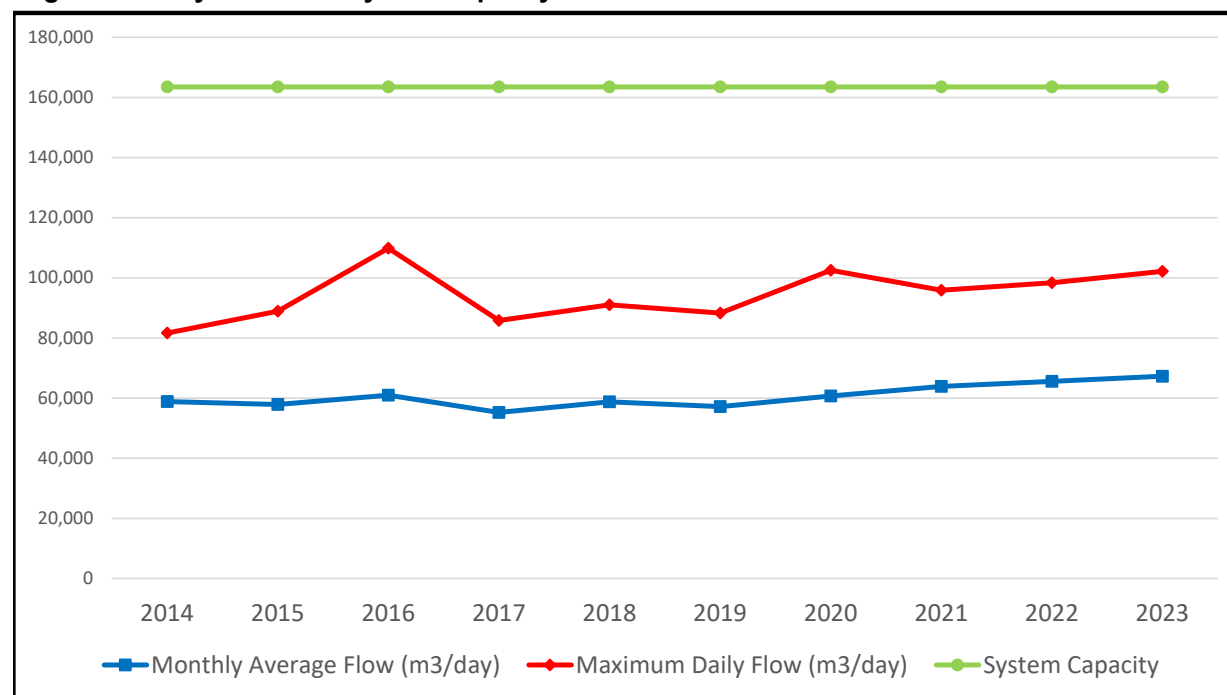
| Month                                     | Raw Water Monthly<br>Average Flow<br>Cubic metres per<br>day (m <sup>3</sup> /day) | Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Raw Water<br>Flow (m <sup>3</sup> ) | Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day) | Treated Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Treated Water<br>Flow (m <sup>3</sup> ) |
|---|--|--|---|--|--|---|
| 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<br>Water Limit             |  | 170,000  |   |  |  |   |
| Municipal Drinking<br>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<br>(m <sup>3</sup> /day) | Maximum Daily Flow<br>(m <sup>3</sup> /day) | System Capacity<br>(m <sup>3</sup> /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

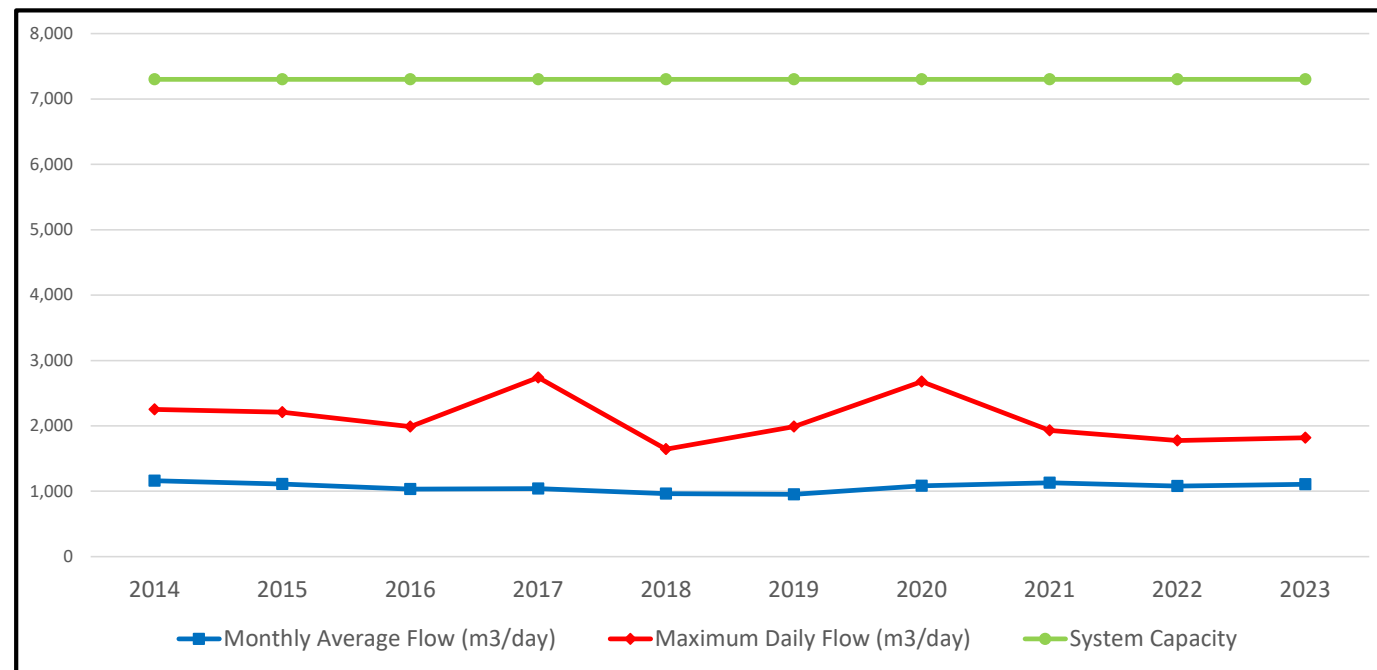
| Month  | Raw Water Monthly<br>Average Flow Cubic<br>metres per day<br>(m <sup>3</sup> /day)<br>Pro-Rated | Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) Pro-<br>Rated | Total Raw Water<br>Flow (m <sup>3</sup> ) | Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day)<br>Pro-Rated | Treated Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) Pro-<br>Rated | Total Treated Water<br>Flow (m <sup>3</sup> ) |
|--|---|--|---|---|--|---|
| 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<br>Water Limit                |   | 7,300  |   |   |  |   |
| Municipal Drinking<br>Water Licence<br>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 <sup>3</sup> /day) | Maximum Daily Flow (m <sup>3</sup> /day) | System Capacity (m <sup>3</sup> /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 <sup>3</sup> /day) Pro-rated | Well # 7* Raw Water Maximum Daily Flow (m <sup>3</sup> /day) Pro-rated | Well # 7* Total Raw Water Flow (m <sup>3</sup> ) | Well # 8 Raw Water Maximum Taken per Minute (litres) | Well # 8 Raw Water Monthly Average Flow (m <sup>3</sup> /day) Pro-rated | Well # 8 Raw Water Maximum Daily Flow (m <sup>3</sup> /day) Pro-rated | Well # 8 Total Raw Water Flow (m <sup>3</sup> ) |
|----------------------------|---|---|--|--|--|---|---|---|
| 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<br>Monthly Average<br>Flow cubic metres<br>per day (m <sup>3</sup> /day) | Treated Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Treated Water<br>Flow (m <sup>3</sup> ) |
|--|--|--|---|
| 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<br>Water Licence<br>Limit |  | 994  |   |

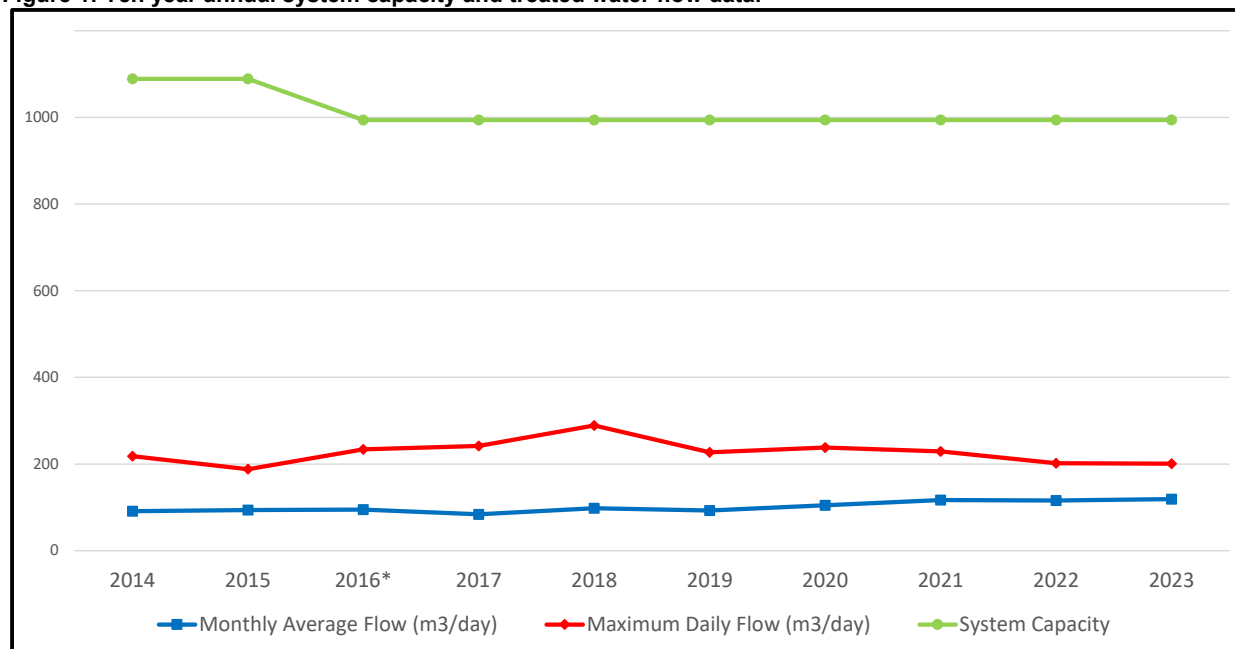
The Regional Municipality of Durham  
Blackstock Drinking Water System  
2023 Flow Summary Report

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

| Year  | Monthly Average Flow (m <sup>3</sup> /day) | Maximum Daily Flow (m <sup>3</sup> /day) | System Capacity (m <sup>3</sup> /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<br>Average Flow<br>Cubic metres per<br>day (m <sup>3</sup> /day) | Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Raw Water<br>Flow (m <sup>3</sup> ) | Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day) | Treated Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Treated Water<br>Flow (m <sup>3</sup> ) |
|---|--|--|---|--|--|---|
| 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<br>Water Limit             |  | 47,700   |   |  |  |   |
| Municipal Drinking<br>Water Licence Limit |  |  |   |  | 36,368   |   |

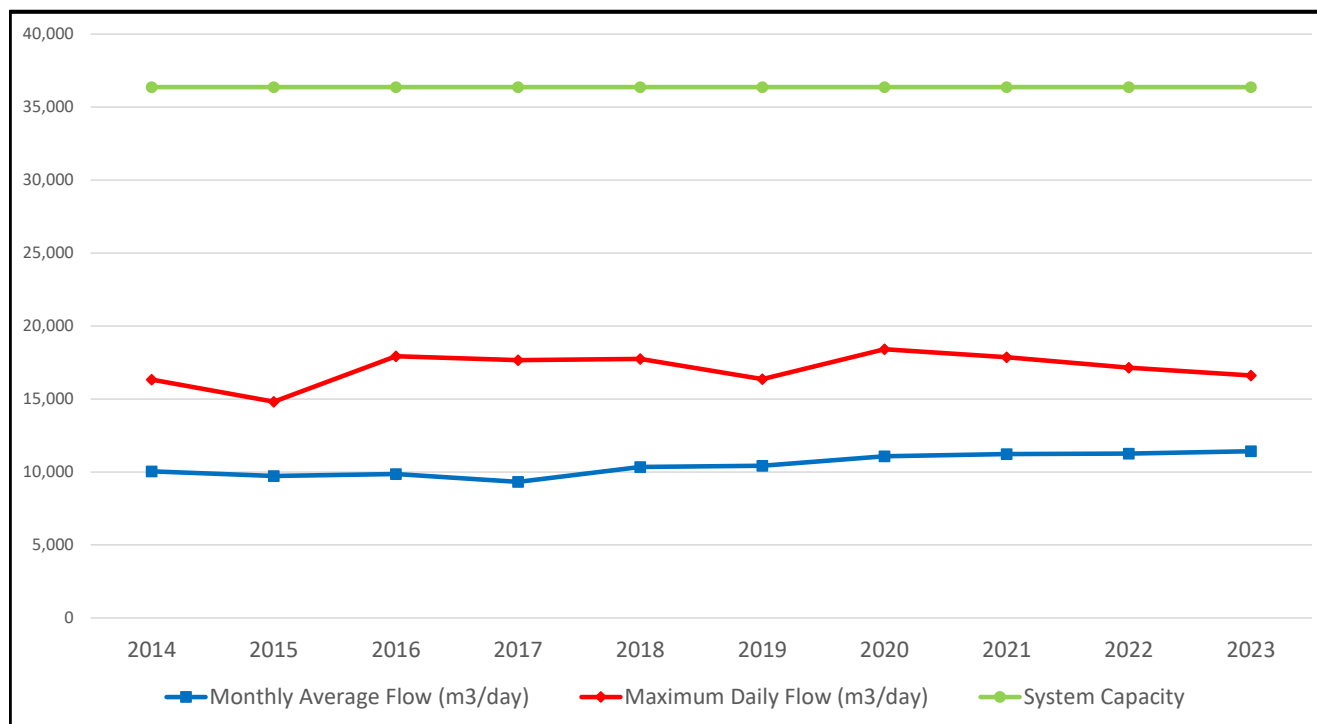


**The Regional Municipality of Durham  
Bowmanville Drinking Water System  
2023 Flow Summary Report**

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

| Year | Monthly Average Flow (m <sup>3</sup> /day) | Maximum Daily Flow (m <sup>3</sup> /day) | System Capacity (m <sup>3</sup> /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  
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| Month                              | Well # 2 Raw Water<br>Maximum Taken<br>per Minute (litres) | Well # 2 Raw Water<br>Monthly Average Flow<br>Cubic metres per day<br>(m <sup>3</sup> /day)<br>Pro-Rated | Well # 2 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) Pro-<br>rated | Well # 2 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 2 Treated<br>Water Monthly<br>Average Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 2 Treated<br>Water Maximum<br>Daily Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 2 Total<br>Treated Water Flow<br>(m <sup>3</sup> ) |
|------------------------------------|--|--|---|--|---|--|---|
| 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<br>Water Limit      | 84   |  | 121   |  |   |  |   |
| Municipal Drinking<br>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  
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| Month                                      | Well # 7 Raw Water<br>Maximum Taken<br>per Minute (litres) | Well # 7 Raw Water<br>Monthly Average<br>Flow Cubic metres<br>per day (m <sup>3</sup> /day) | Well # 7 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) Pro-<br>rated | Well # 7 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 7 Treated<br>Water Monthly<br>Average Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 7 Treated<br>Water Maximum<br>Daily Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 7 Total<br>Treated Water Flow<br>(m <sup>3</sup> ) |
|--|--|---|---|--|---|--|---|
| 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<br>Limit              | 270  |   | 389   |  |   |  |   |
| Municipal Drinking<br>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  
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| Month                                   | Well # 2 and 7 Treated Water Monthly Average Flow Cubic metres per day (m <sup>3</sup> /day) | Well # 2 and 7 Treated Water Maximum Daily Flow (m <sup>3</sup> /day) Pro-rated | Well # 2 and 7 Total Treated Water Flow (m <sup>3</sup> ) |
|---|--|---|---|
| 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<br>Maximum Taken per<br>Minute (litres) | Well # 3 Raw Water<br>Monthly Average<br>Flow Cubic metres<br>per day (m <sup>3</sup> /day)<br>Pro-rated | Well # 3 Raw Water<br>Maximum Daily Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 3 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 3 Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 3 Treated Water<br>Maximum Daily Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 3 Total Treated<br>Water Flow (m <sup>3</sup> ) |
|---|--|--|--|--|--|--|--|
| 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<br>Limit             | 180  |  | 259  |  |  |  |  |
| Municipal Drinking<br>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<br>Maximum Taken per<br>Minute (litres) | Well # 4 Raw Water<br>Monthly Average<br>Flow Cubic metres<br>per day (m <sup>3</sup> /day)<br>Pro-rated | Well # 4 Raw Water<br>Maximum Daily Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 4 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 4 Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 4 Treated Water<br>Maximum Daily Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 4 Total Treated<br>Water Flow (m <sup>3</sup> ) |
|---|--|--|--|--|--|--|--|
| 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<br>Limit             | 192  |  | 277  |  |  |  |  |
| Municipal Drinking<br>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  
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| Month                                     | Well # 8 Raw Water<br>Maximum Taken per<br>Minute (litres) | Well # 8 Raw Water<br>Monthly Average Flow<br>Cubic metres per day<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 8 Raw Water<br>Maximum Daily Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 8 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 8 Treated Water<br>Monthly Average Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 8 Treated Water<br>Maximum Daily Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 8 Total Treated<br>Water Flow (m <sup>3</sup> ) |
|---|--|--|--|--|--|--|--|
| 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<br>Limit             | 568  |  | 818  |  |  |  |  |
| Municipal Drinking<br>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  
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| Month                                  | Total System Raw Water Monthly Average Flow<br>Cubic metres per day (m <sup>3</sup> /day)<br>Pro-rated | Total System Raw Water Maximum Daily Flow (m <sup>3</sup> /day) | Total Raw Water Flow (m <sup>3</sup> ) | Total System Treated Water Monthly Average Flow (m <sup>3</sup> /day) | Total System Treated Water Maximum Daily Flow (m <sup>3</sup> /day) | Total System Total Treated Water Flow (m <sup>3</sup> ) |
|--|--|---|--|---|---|---|
| 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.



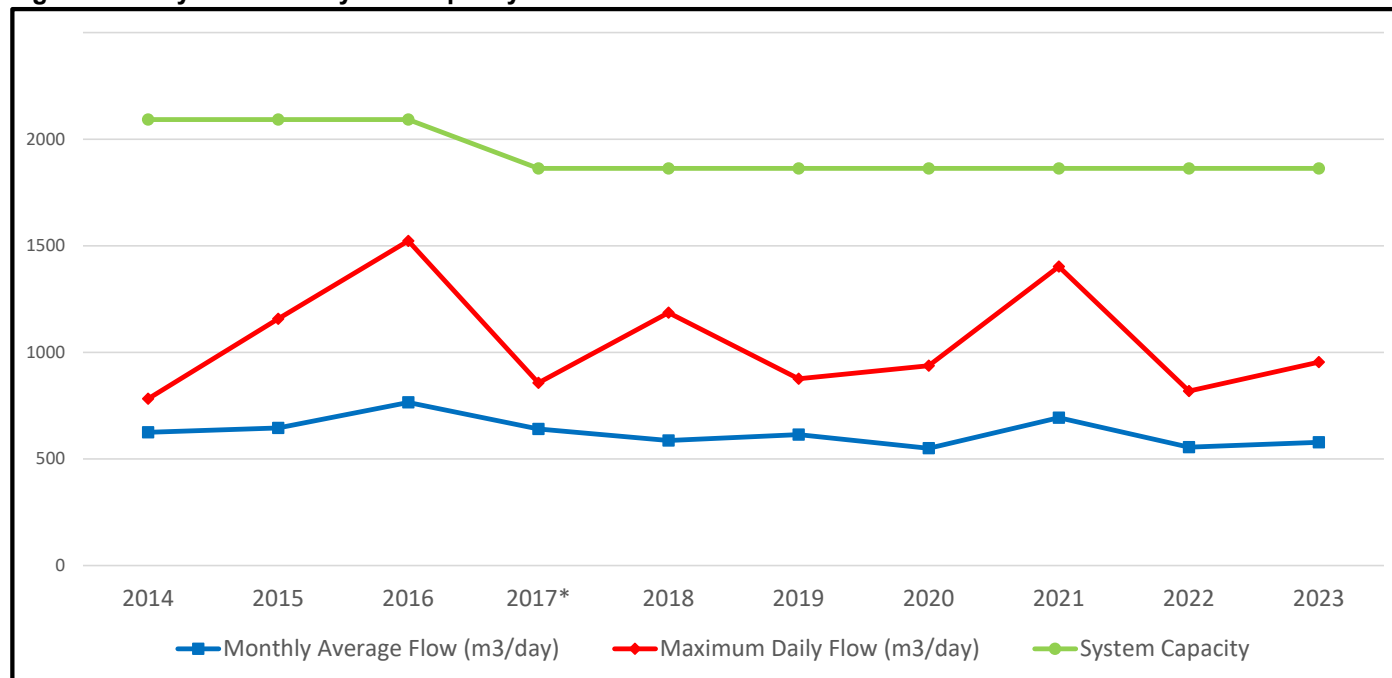
The Regional Municipality of Durham  
Cannington Drinking Water System  
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Table 1: Ten year annual system capacity and treated water flow data.

| Year  | Monthly Average Flow (m <sup>3</sup> /day) | Maximum Daily Flow (m <sup>3</sup> /day) | System Capacity (m <sup>3</sup> /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<br>Maximum Taken<br>per Minute (litres) | Well # 1 Raw Water<br>Monthly Average Flow<br>cubic metres per (day<br>m <sup>3</sup> /day) Pro-rated | Well # 1 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) Pro-<br>rated | Well # 1 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 3 Raw Water<br>Maximum Taken<br>per Minute (litres) | Well # 3 Raw Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 3 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 3 Total Raw<br>Water Flow (m <sup>3</sup> ) |
|-------------------------------|--|---|---|--|--|--|--|--|
| 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<br>water limit | 70   |   | 101   |  | 91   |  | 130  |  |

The Regional Municipality of Durham  
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| Month                         | Well # 4 Raw Water<br>Maximum Taken<br>per Minute (litres) | Well # 4 Raw Water<br>Monthly Average<br>Flow cubic metres<br>per day (m <sup>3</sup> /day)<br>Pro-rated | Well # 4 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 4 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 5 Raw Water<br>Maximum Taken<br>per Minute (litres) | Well # 5 Raw Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 5 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 5 Total<br>Raw Water Flow<br>(m <sup>3</sup> ) |
|-------------------------------|--|--|--|--|--|--|--|---|
| 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<br>water limit | 68   |  | 99   |  | 68   |  | 99   |   |

The Regional Municipality of Durham  
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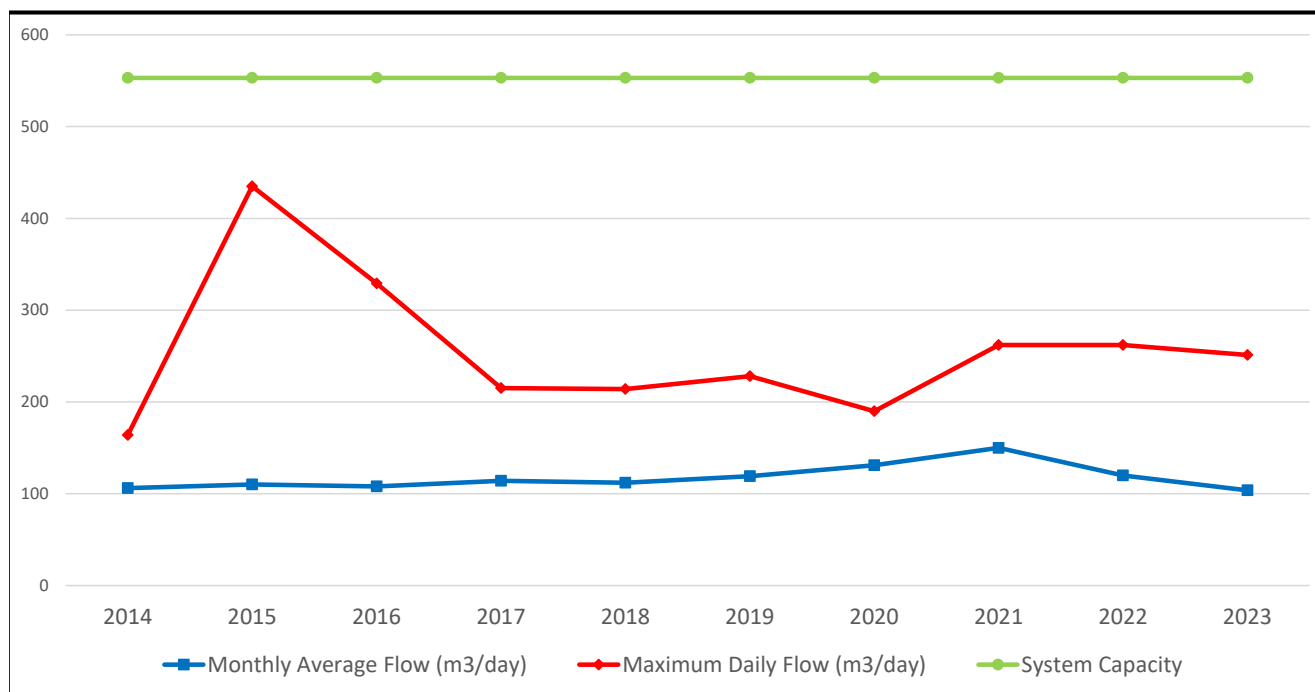
| Month  | Well # 6 Raw Water<br>Maximum Taken<br>per Minute (litres) | Well # 6 Raw Water<br>Monthly Average<br>Flow cubic metres<br>per day (m <sup>3</sup> /day)<br>Pro-rated | Well # 6 Raw<br>Water Maximum<br>Daily Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 6 Total<br>Raw Water Flow<br>(m <sup>3</sup> ) | Treated Water<br>Monthly Average<br>Flow cubic metres<br>per day (m <sup>3</sup> /day) Pro-<br>rated | Treated Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) Pro-<br>rated | Total Treated Water<br>Flow (m <sup>3</sup> ) |
|--|--|--|---|---|--|--|---|
| 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<br>water limit                | 91   |  | 130   |   |  | NR   |   |
| Municipal<br>Drinking Water<br>License Limit |  |  |   |   |  | 553  |   |

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

| Year | Monthly Average Flow (m <sup>3</sup> /day) | Maximum Daily Flow (m <sup>3</sup> /day) | System Capacity (m <sup>3</sup> /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  
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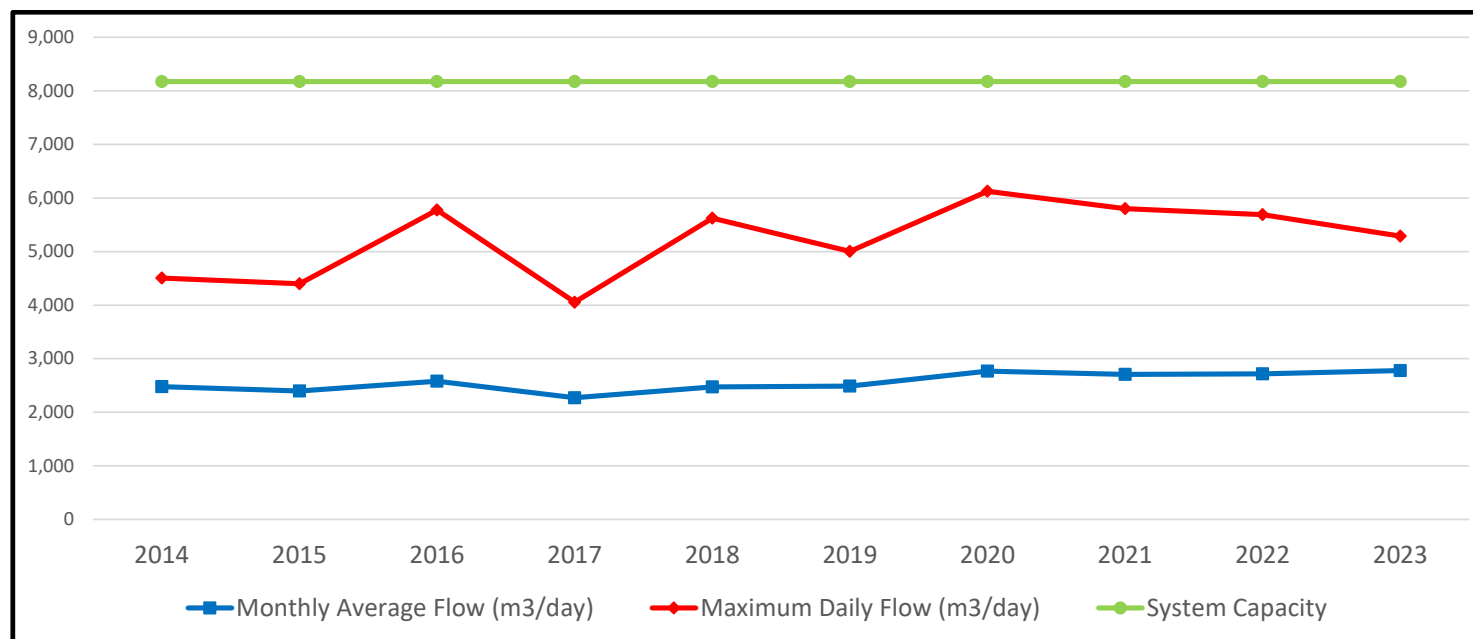
| Month                                     | Raw Water Monthly<br>Average Flow<br>Cubic metres per<br>day (m <sup>3</sup> /day) | Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Raw Water<br>Flow (m <sup>3</sup> ) | Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day) | Treated Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Treated Water<br>Flow (m <sup>3</sup> ) |
|---|--|--|---|--|--|---|
| 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<br>Water Limit             |  | 18,100   |   |  |  |   |
| Municipal Drinking<br>Water Licence Limit |  |  |   |  | 8,173  |   |

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

| Year | Monthly Average Flow (m <sup>3</sup> /day) | Maximum Daily Flow (m <sup>3</sup> /day) | System Capacity (m <sup>3</sup> /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.



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| Month                         | Well # 3 Raw Water<br>Maximum Taken<br>per Minute (litres) | Well # 3 Raw Water<br>Monthly Average Flow<br>cubic metres per day<br>(m <sup>3</sup> /day) Pro-rated | Well # 3 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) Pro-<br>rated | Well # 3 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 4 Raw Water<br>Maximum Taken<br>per Minute (litres) | Well # 4 Raw Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 4 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 4 Total Raw<br>Water Flow (m <sup>3</sup> ) |
|-------------------------------|--|---|---|--|--|--|--|--|
| 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<br>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.



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| Month                                     | Well # 5* Raw Water Monthly Average Flow cubic metres per day (m <sup>3</sup> /day) Pro-rated | Well # 5* Raw Water Maximum Daily Flow (m <sup>3</sup> /day) Pro-rated | Well # 5* Total Raw Water Flow (m <sup>3</sup> ) | System Total Treated Water Monthly Average Flow (m <sup>3</sup> /day) Pro-rated | System Total Treated Water Maximum Daily Flow (m <sup>3</sup> /day) Pro-rated | System Total Treated Water Flow (m <sup>3</sup> ) |
|---|---|--|--|---|---|---|
| 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 m<sup>3</sup>/day for up to 90 days per calendar year.

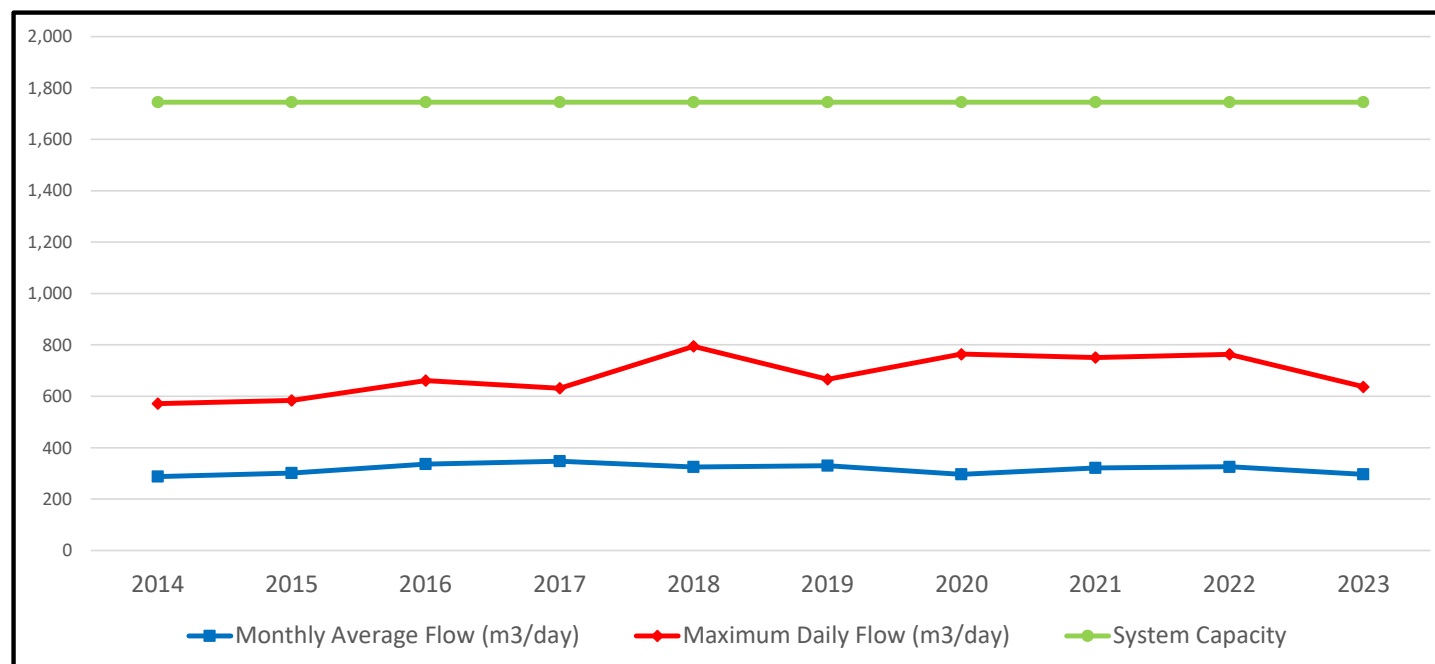
**The Regional Municipality of Durham  
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**Table 1: Ten year annual system capacity and treated water flow data.**

| Year | Monthly Average Flow (m <sup>3</sup> /day) | Maximum Daily Flow (m <sup>3</sup> /day) | System Capacity (m <sup>3</sup> /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 m<sup>3</sup>/day not exceeding 90 days per calendar year.

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



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| Month                      | West Intake Raw Water Monthly Average Flow<br>Cubic metres per day (m <sup>3</sup> /day) | West Intake Raw Water Maximum Daily Flow (m <sup>3</sup> /day) | West Intake Total Raw Water Flow (m <sup>3</sup> ) | East Intake Raw Water Monthly Average Flow (m <sup>3</sup> /day) | East Intake Raw Water Maximum Daily Flow (m <sup>3</sup> /day) | East Intake Total Raw Water Flow (m <sup>3</sup> ) |
|----------------------------|--|--|--|--|--|--|
| 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   |  |

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| Month                                     | Total Raw Water<br>Monthly Average<br>Flow Cubic metres<br>per day (m <sup>3</sup> /day) | Total Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Raw Water<br>Flow (m <sup>3</sup> ) | Total Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day) | Total Treated Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Treated Water<br>Flow (m <sup>3</sup> ) |
|---|--|--|---|--|--|---|
| 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<br>Water Limit*            |  | 134,000  |   |  |  |   |
| Municipal Drinking<br>Water Licence Limit |  |  |   |  | 107,000  |   |

\* Oshawa Plant 1 has a capacity of 27,000 m<sup>3</sup>/day. Plant 2 has a capacity of 107,000 m<sup>3</sup>/day. Only Plant 2 was operational during the reporting period.

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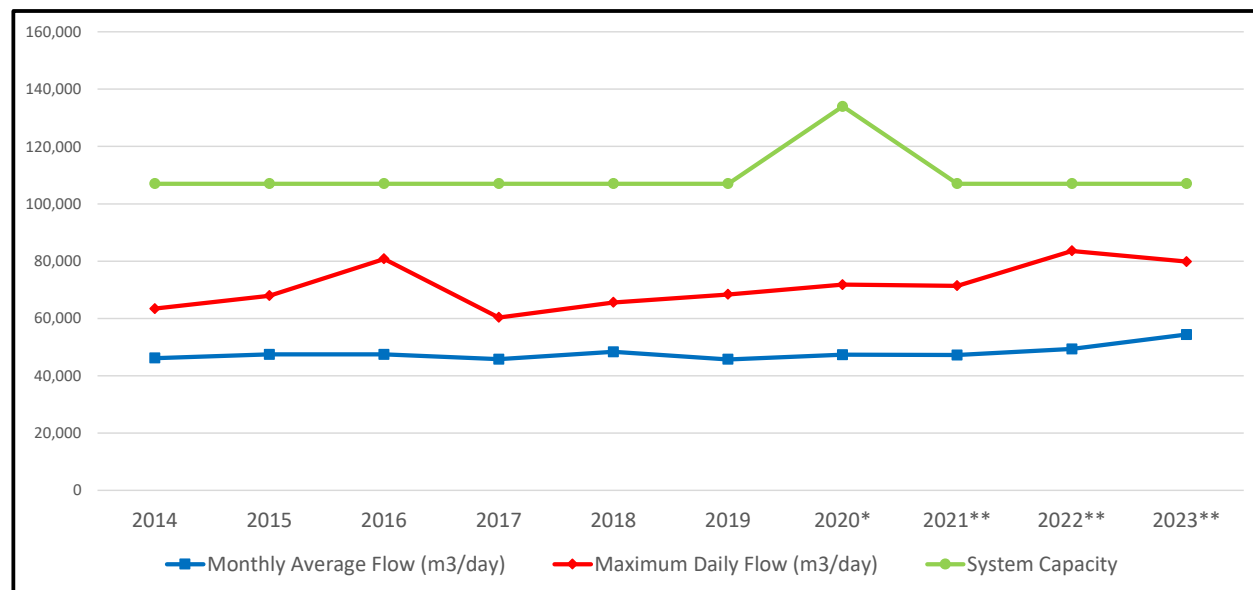
Table 1: Ten year annual system capacity and treated water flow data.

| Year   | Monthly Average Flow (m <sup>3</sup> /day) | Maximum Daily Flow (m <sup>3</sup> /day) | System Capacity (m <sup>3</sup> /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 m<sup>3</sup>/day. Plant 2 has a capacity of 107,000 m<sup>3</sup>/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 m<sup>3</sup>/day to 134,000 m<sup>3</sup>/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.



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| Month  | Well # 3 Maximum<br>Taken per Minute<br>(litres) | Well # 3 Monthly<br>Average Flow cubic<br>metres per day<br>(m <sup>3</sup> /day) Pro-rated | Well # 3 Maximum<br>Daily Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 3 Total<br>Water Flow (m <sup>3</sup> ) | Well # 5 Maximum<br>Taken per Minute<br>(litres) | Well # 5 Monthly<br>Average Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 5 Maximum<br>Daily Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 5 Total<br>Water Flow (m <sup>3</sup> ) |
|--|--|---|---|--|--|--|---|--|
| 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<br>water limit                | 1,817  |   | 2,617   |  | 1,817  |  | 2,617   |  |
| Municipal<br>Drinking Water<br>License Limit |  |   | 2,618   |  |  |  | 2,618   |  |

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2023 Flow Summary Report

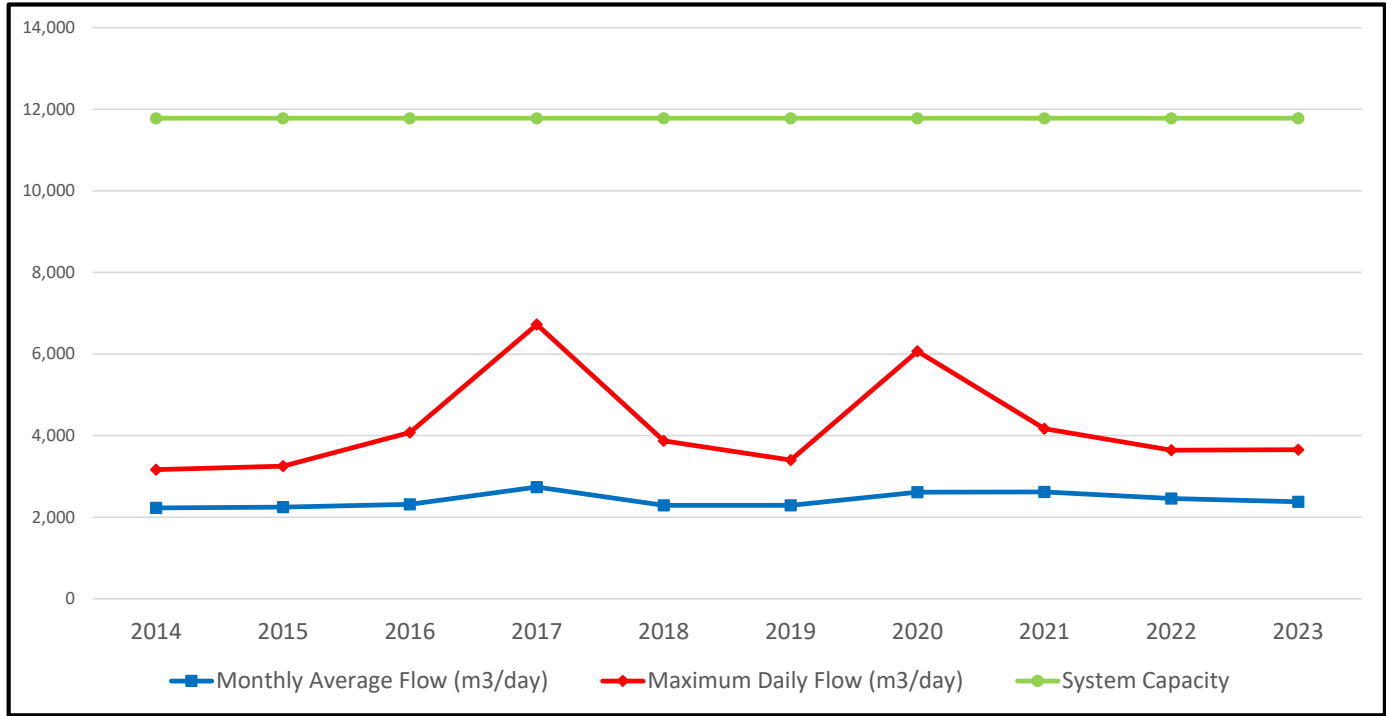
| Month  | Well # 6 Maximum<br>Taken per Minute<br>(litres) | Well # 6 Monthly<br>Average Flow cubic<br>metres per day<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 6 Maximum<br>Daily Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 6 Total Water<br>Flow (m <sup>3</sup> ) | Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Treated Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Total Treated<br>Water Flow (m <sup>3</sup> ) |
|--|--|--|---|--|---|---|---|
| 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<br>water limit                | 4,543  |  | 6,542   |  |   |   |   |
| Municipal Drinking<br>Water License<br>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 (m³/day) | Maximum Daily Flow (m³/day) | System Capacity (m³/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<br>Maximum Taken<br>per Minute (litres) | Well # 1 Raw Water<br>Monthly Average Flow<br>Cubic metres per day<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 1 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 1 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well #1 Treated<br>Water Monthly<br>Average Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well #1 Treated<br>Water Maximum<br>Daily Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 1 Total<br>Treated Water Flow<br>(m <sup>3</sup> ) |
|---|--|--|--|--|--|---|---|
| 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<br>Water Limit             | 1,023  |  | 1,373  |  |  |   |   |
| Municipal Drinking<br>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<br>Maximum Taken<br>per Minute (litres) | Well # 2 Raw Water<br>Monthly Average<br>Flow Cubic metres<br>per day (m <sup>3</sup> /day)<br>Pro-rated | Well # 2 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 2 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 2 Treated<br>Water Monthly<br>Average Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 2 Treated<br>Water Maximum<br>Daily Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 2 Total<br>Treated Water<br>Flow (m <sup>3</sup> ) |
|---|--|--|--|--|---|--|---|
| 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<br>Water Limit             | 1,023  |  | 1,373  |  |   |  |   |
| Municipal Drinking<br>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<br>Maximum Taken per<br>Minute (litres) | Well # 3 Raw Water<br>Monthly Average<br>Flow Cubic metres<br>per day (m <sup>3</sup> /day)<br>Pro-rated | Well # 3 Raw<br>Water Maximum<br>Daily Flow<br>(m <sup>3</sup> /day) Pro-<br>rated | Well # 3 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 3 Treated<br>Water Monthly<br>Average Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 3 Treated<br>Water Maximum Daily<br>Flow (m <sup>3</sup> /day) Pro-<br>rated | Well # 3 Total Treated<br>Water Flow (m <sup>3</sup> ) |
|---|--|--|--|--|---|---|--|
| 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<br>Water Limit             | 600  |  | 864  |  |   |   |  |
| Municipal Drinking<br>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<br>Average Flow Cubic<br>metres per day<br>(m <sup>3</sup> /day)<br>Pro-rated | Raw Water Maximum<br>Daily Flow (m <sup>3</sup> /day)<br>Pro-rated | Total Raw Water<br>Flow (m <sup>3</sup> ) | Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Treated Water<br>Maximum Daily Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Total Treated Water<br>Flow (m <sup>3</sup> ) 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<br>Water Limit             |   | 2,745  |   |   |   |   |
| Municipal Drinking<br>Water Licence Limit |   |  |   |   | 2,238   |   |

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

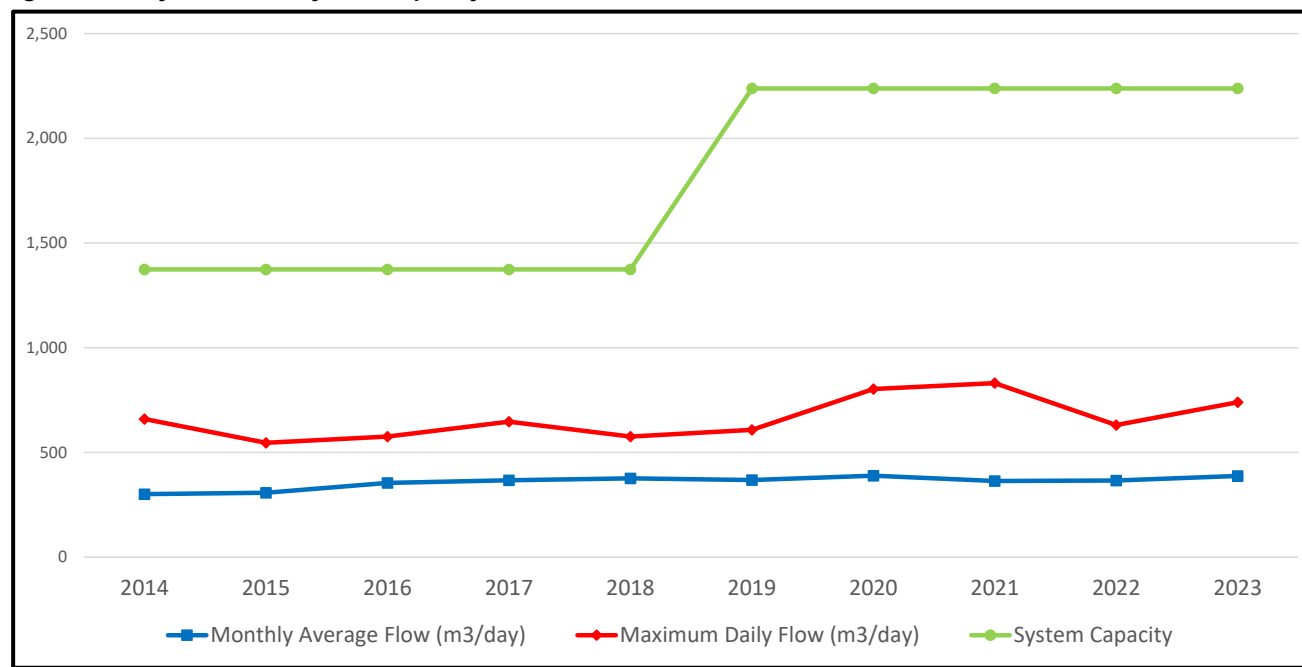
The Regional Municipality of Durham  
Sunderland Drinking Water System  
2023 Flow Summary Report

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

| Year | Monthly Average Flow (m <sup>3</sup> /day) | Maximum Daily Flow (m <sup>3</sup> /day) | System Capacity (m <sup>3</sup> /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<br>Maximum Taken<br>per Minute (litres) | Well # 5 Raw Water<br>Monthly Average Flow<br>Cubic metres per day<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 5 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 5 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 5 Treated<br>Water Monthly<br>Average Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 5 Treated<br>Water Maximum<br>Daily Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 5 Total<br>Treated Water Flow<br>(m <sup>3</sup> ) |
|---|--|--|--|--|---|--|---|
| 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<br>water limit                 | 3,000  |  | 4,320  |  |   |  |   |
| Municipal<br>Drinking Water<br>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<br>Maximum Taken<br>per Minute (litres) | Well # 7 Raw Water<br>Monthly Average<br>Flow Cubic metres<br>per day (m <sup>3</sup> /day)<br>Pro-rated | Well # 7 Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 7 Total Raw<br>Water Flow (m <sup>3</sup> ) | Well # 7 Treated<br>Water Monthly<br>Average Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Well # 7 Treated<br>Water Maximum<br>Daily Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 7 Total<br>Treated Water<br>Flow (m <sup>3</sup> ) |
|---|--|--|--|--|---|--|---|
| 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<br>Water Limit                 | 3,000  |  | 4,320  |  |   |  |   |
| Municipal Drinking<br>Water Licence<br>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<br>Treated Water<br>Monthly Average<br>Flow Cubic metres<br>per day (m <sup>3</sup> /day)<br>Pro-rated | Well # 5 and 7<br>Treated Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 5 and 7<br>Total Treated<br>Water Flow (m <sup>3</sup> )<br>Pro-rated** | Well # 6<br>Raw/Treated Water<br>Maximum Taken per<br>Minute (litres) | Well # 6<br>Raw/Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 6 Raw/Treated<br>Water Maximum Daily<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Well # 6 Total<br>Raw/Treated Water<br>Flow (m <sup>3</sup> ) |
|---|---|---|--|---|---|--|---|
| 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<br>Water Limit             |   | 4,320   |  | 2,730   |   | 3,931  |   |
| Municipal Drinking<br>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  
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| Month                                       | Raw Water Monthly<br>Average Flow Cubic<br>metres per day<br>(m <sup>3</sup> /day)<br>Pro-rated | Raw Water Maximum<br>Daily Flow (m <sup>3</sup> /day)<br>Pro-rated | Total Raw Water<br>Flow (m <sup>3</sup> ) | Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day)<br>Pro-rated | Treated Water<br>Maximum Daily Flow<br>(m <sup>3</sup> /day)<br>Pro-rated | Total Treated Water<br>Flow (m <sup>3</sup> ) |
|---|---|--|---|---|---|---|
| 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<br>Limit*              |   | 8,251  |   |   |   |   |
| Municipal Drinking<br>Water Licence Limit** |   |  |   |   | 8,251<br><br>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 m<sup>3</sup>/day.

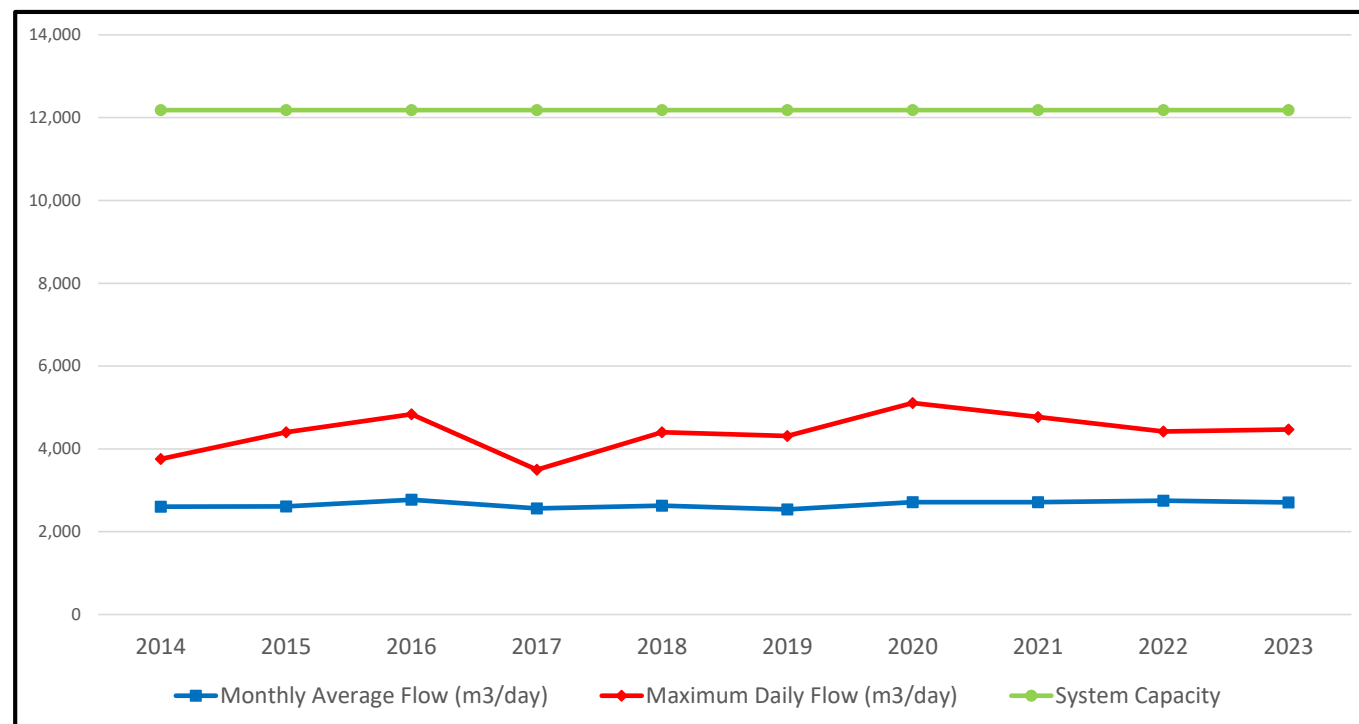
\*\*8,251 m<sup>3</sup>/day is the rated capacity for Wells 5 and 7 and 3,931 m<sup>3</sup>/day is the rated capacity for Well 6.

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 <sup>3</sup> /day) | Maximum Daily Flow (m <sup>3</sup> /day) | System Capacity (m <sup>3</sup> /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<br>Monthly Average<br>Flow Cubic metres<br>per day (m <sup>3</sup> /day) | Raw Process Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Raw Process<br>Water Flow (m <sup>3</sup> ) | Raw Industrial<br>Water Monthly<br>Average Flow<br>(m <sup>3</sup> /day) | Raw Industrial<br>Water Maximum<br>Daily Flow (m <sup>3</sup> /day) | Total Raw<br>Industrial Water<br>Flow (m <sup>3</sup> ) |
|--------------|--|--|---|--|---|---|
| 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

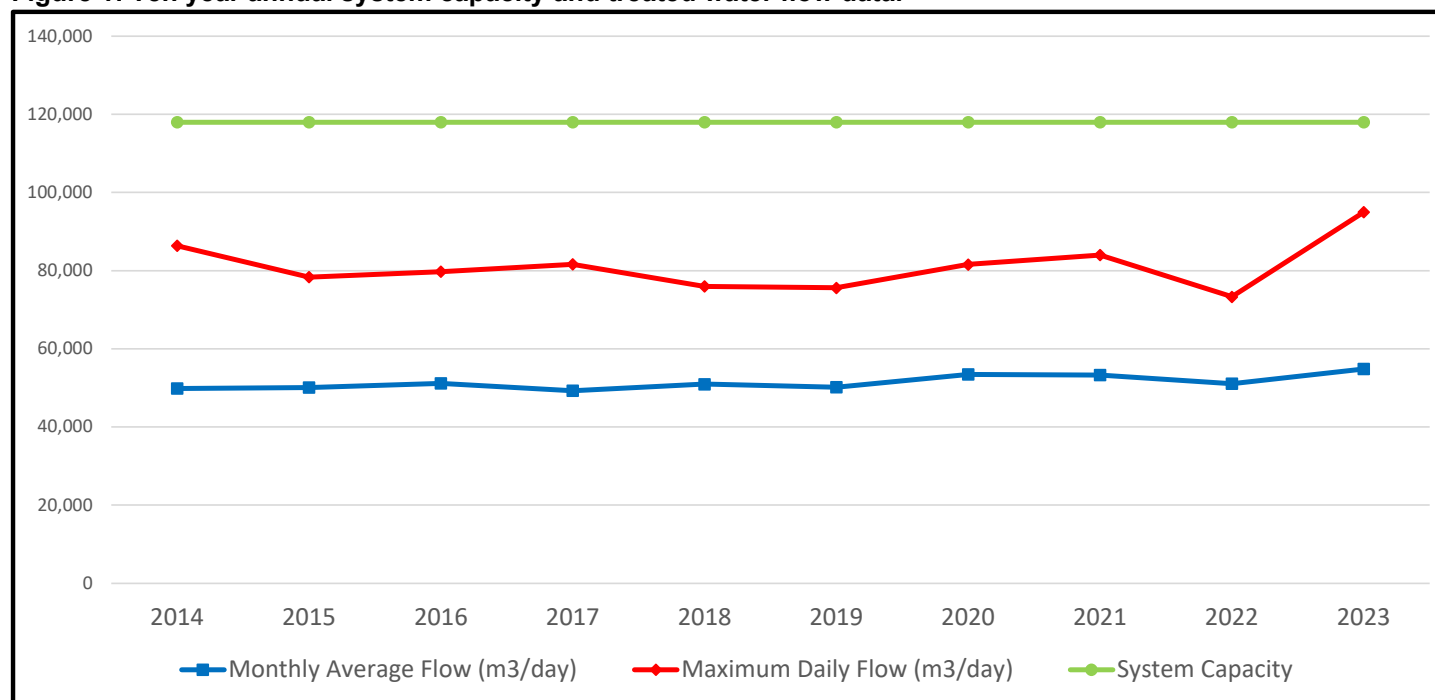
| Month                                     | Raw Water Monthly<br>Average Flow<br>Cubic metres per<br>day (m <sup>3</sup> /day) | Raw Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Raw Water<br>Flow (m <sup>3</sup> ) | Treated Water<br>Monthly Average<br>Flow (m <sup>3</sup> /day) | Treated Water<br>Maximum Daily<br>Flow (m <sup>3</sup> /day) | Total Treated Water<br>Flow (m <sup>3</sup> ) |
|---|--|--|---|--|--|---|
| 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<br>Water Limit             |  | 144,000  |   |  |  |   |
| Municipal Drinking<br>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 <sup>3</sup> /day) | Maximum Daily Flow (m <sup>3</sup> /day) | System Capacity (m <sup>3</sup> /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

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

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### **Subject:**

2024 Works Department Business Plan and Budget

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### **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.

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### **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:**

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

Recommended for Presentation to Committee

### **Original signed by:**

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Elaine Baxter-Trahair  
Chief Administrative Officer

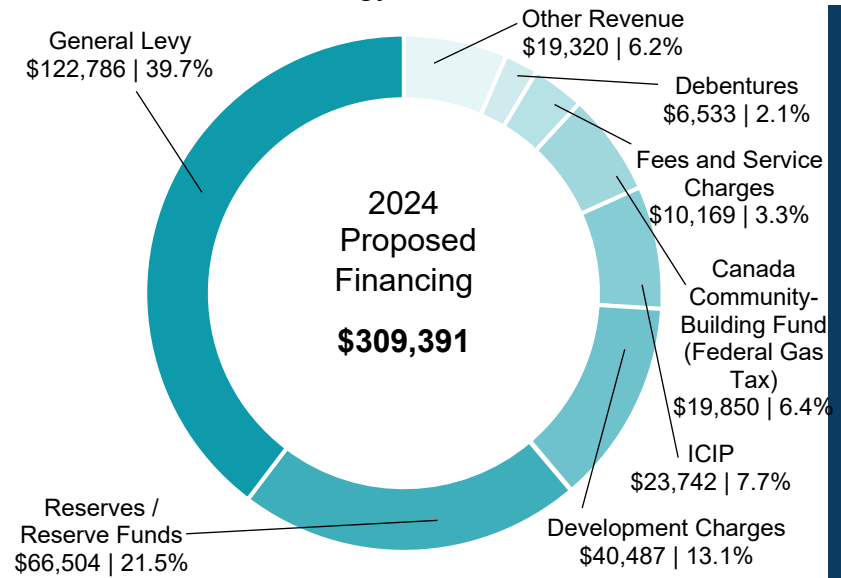
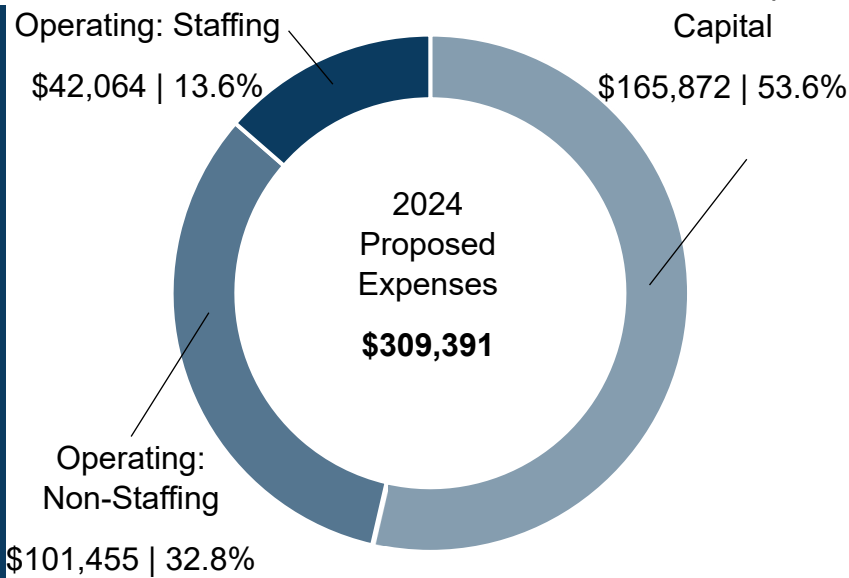


**Durham  
Budget**

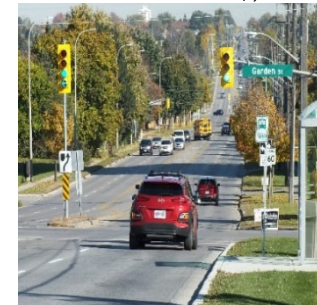
**2024**

# 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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# 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



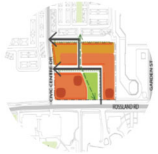
Better connect people and move goods more effectively by constructing and maintaining an efficient goods movement network; supporting the Bowmanville GO extension, Highway 2 Bus Rapid Transit and Simcoe Street Rapid Transit networks; and rationalizing the Region's building footprint through ongoing Master 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

|  |  | 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        |                |
|---|------------------------|----------------------|----------------------|-----------------|----------------|
|   |                        |                      |                      | \$              | %              |
| <b>Internal Transfers &amp; Recoveries</b>  |                        |                      |                      |                 |                |
| 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)             |                 |                |
| <b>Internal Transfers &amp; Recoveries Subtotal</b>                               | <b>(12,626)</b>        | <b>(12,626)</b>      | <b>(13,523)</b>      | <b>(897)</b>    | <b>(7.1%)</b>  |
| <b>Gross Operating Expenses</b>   | <b>140,355</b>         | <b>140,469</b>       | <b>143,519</b>       | <b>3,050</b>    | <b>2.2%</b>    |
| <b>Capital Expenses</b>   |                        |                      |                      |                 |                |
| New   | 15,773                 | 15,773               | 1,365                |                 |                |
| Replacement   | 14,866                 | 14,866               | 16,769               |                 |                |
| Major Capital   | 184,278                | 184,278              | 147,738              |                 |                |
| <b>Capital Expenses Subtotal</b>  | <b>214,917</b>         | <b>214,917</b>       | <b>165,872</b>       | <b>(49,045)</b> | <b>(22.8%)</b> |
| <b>Total Expenses</b>   | <b>355,272</b>         | <b>355,386</b>       | <b>309,391</b>       | <b>(45,995)</b> | <b>(12.9%)</b> |
| <b>Operating Revenue</b>  |                        |                      |                      |                 |                |
| 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)                |                 |                |
| <b>Operating Revenue Subtotal</b>   | <b>(33,097)</b>        | <b>(35,297)</b>      | <b>(30,225)</b>      | <b>5,072</b>    | <b>14.4%</b>   |

## 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

|  <b>Durham</b><br><b>Budget</b> <span>2024</span> | 2023 Estimated Actuals | 2023 Approved Budget | 2024 Proposed Budget | Variance      |              |
|--|------------------------|----------------------|----------------------|---------------|--------------|
|  |                        |                      |                      | \$            | %            |
| <b>Capital Financing</b>   |                        |                      |                      |               |              |
| 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<br>(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<br>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)              |               |              |
| <b>Capital Financing Subtotal</b>  | <b>(207,270)</b>       | <b>(207,270)</b>     | <b>(156,380)</b>     | <b>50,890</b> | <b>24.6%</b> |
| <b>Total Revenues and Financing</b>  | <b>(240,367)</b>       | <b>(242,567)</b>     | <b>(186,605)</b>     | <b>55,962</b> | <b>23.1%</b> |
| <b>Property Tax Requirement<br/>Works Department</b>   | <b>114,905</b>         | <b>112,819</b>       | <b>122,786</b>       | <b>9,967</b>  | <b>8.8%</b>  |

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

|  <b>Durham</b><br>Budget |  | 2024          |               | 2023           |           |                  | 2023 Restated Budget (000)'s |               |                |           |                  | 2024 Proposed Budget (000)'s |              |              |    |   | Variance |  |
|---|--|---------------|---------------|----------------|-----------|------------------|------------------------------|---------------|----------------|-----------|------------------|------------------------------|--------------|--------------|----|---|----------|--|
|   |  |               |               | Estimated      | Operating | Gross            | Subsidy                      | Other         | Approved       | Operating | Gross            | Subsidy                      | Other        | Proposed     | \$ | % |          |  |
|   |  |               |               | Actuals        | Expenses  | Capital          | Funding                      | Funding       | Budget         | Expenses  | Capital          | Funding                      | Funding      | Budget       |    |   |          |  |
| <b>Works - General Tax</b>  |  |               |               |                |           |                  |                              |               |                |           |                  |                              |              |              |    |   |          |  |
| 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                        | -            |              |    |   |          |  |
| <b>Works - General Tax Subtotal</b>   |  | <b>55,212</b> | <b>51,704</b> | <b>213,037</b> | <b>-</b>  | <b>(210,585)</b> | <b>54,156</b>                | <b>58,069</b> | <b>161,140</b> | <b>-</b>  | <b>(157,489)</b> | <b>61,720</b>                | <b>7,564</b> | <b>14.0%</b> |    |   |          |  |

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<br>Estimated<br>Actuals | 2023 Restated Budget (000)'s |                  |                    |                  |                    | 2024 Proposed Budget (000)'s |                  |                    |                  |                    | Variance     |             |
|--|------------------------------|------------------------------|------------------|--------------------|------------------|--------------------|------------------------------|------------------|--------------------|------------------|--------------------|--------------|-------------|
|  |                              | Operating<br>Expenses        | Gross<br>Capital | Subsidy<br>Funding | Other<br>Funding | Approved<br>Budget | Operating<br>Expenses        | Gross<br>Capital | Subsidy<br>Funding | Other<br>Funding | Proposed<br>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          |             |
| <b>Solid Waste Management Subtotal</b>                               | <b>59,693</b>                | <b>88,765</b>                | <b>1,880</b>     | <b>(8,267)</b>     | <b>(23,715)</b>  | <b>58,663</b>      | <b>85,450</b>                | <b>4,732</b>     | <b>(4,018)</b>     | <b>(25,098)</b>  | <b>61,066</b>      | <b>2,403</b> | <b>4.1%</b> |
| <b>Property Tax Requirement Works Department</b>                     | <b>114,905</b>               | <b>140,469</b>               | <b>214,917</b>   | <b>(8,267)</b>     | <b>(234,300)</b> | <b>112,819</b>     | <b>143,519</b>               | <b>165,872</b>   | <b>(4,018)</b>     | <b>(182,587)</b> | <b>122,786</b>     | <b>9,967</b> | <b>8.8%</b> |




## 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<br>Budget | 2024 | 2023<br>Approved<br>Budget | 2024<br>Proposed<br>Budget | Forecast |         |         |         |           | Forecast<br>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<br>Approved<br>Budget | 2024<br>Proposed<br>Budget | Forecast       |                |                |                |                  | Forecast<br>Total |
|--|----------------------------|----------------------------|----------------|----------------|----------------|----------------|------------------|-------------------|
|  |                            |                            | 2025           | 2026           | 2027           | 2028           | 2029-2033        |                   |
| <b>Capital Financing</b>   |                            |                            |                |                |                |                |                  |                   |
| 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<br>(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 <sup>1</sup>  | 55                         | -                          | 2,725          | -              | 1,000          | -              | -                | 3,725             |
| Debentures - User Rate Funded  | 15,667                     | 6,533                      | 61,779         | -              | -              | -              | -                | 61,779            |
| <b>Capital Financing Subtotal</b>  | <b>213,037</b>             | <b>161,140</b>             | <b>279,582</b> | <b>248,329</b> | <b>259,550</b> | <b>296,115</b> | <b>1,664,951</b> | <b>2,748,527</b>  |
| <b>Total Capital<br/>Regional Roads and Infrastructure</b>                       | <b>213,037</b>             | <b>161,140</b>             | <b>279,582</b> | <b>248,329</b> | <b>259,550</b> | <b>296,115</b> | <b>1,664,951</b> | <b>2,748,527</b>  |

<sup>1</sup> 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<br>Budget | 2024 | 2023<br>Approved<br>Budget | 2024<br>Proposed<br>Budget | Forecast |         |         |         |           | Forecast<br>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<br>(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<br>Solid Waste Management   |      | 1,880                      | 4,732                      | 10,138   | 9,526   | 17,253  | 8,298   | 196,815   | 242,030           |
| Total Capital<br>Works Department   |      | 214,917                    | 165,872                    | 289,720  | 257,855 | 276,803 | 304,413 | 1,861,766 | 2,990,557         |

## Details of Budget Changes

| <b>Strategic Investments: Regional Roads and Infrastructure</b>   | <b>2024 Impact<br/>(\$ 000's)</b> |
|---|-----------------------------------|
| 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                             |
| <b>Strategic Investments: Regional Roads and Infrastructure Subtotal</b>  | <b>4,180</b>                      |

## Details of Budget Changes Continued

| <b>Base Adjustments: Regional Roads and Infrastructure</b>   | <b>2024 Impact</b><br>(\$ 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                               |
| <b>Base Adjustments: Regional Roads and Infrastructure Subtotal</b>  | <b>3,384</b>                     |
| <b>Net Changes: Regional Roads and Infrastructure</b>  | <b>7,564</b>                     |

## Details of Budget Changes Continued

| <b>Strategic Investments: Solid Waste Management</b>  | <b>2024 Impact<br/>(\$ 000's)</b> |
|---|-----------------------------------|
| 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)                             |
| <b>Strategic Investments: Solid Waste Management Subtotal</b>   | <b>18</b>                         |

## Details of Budget Changes Continued

| Base Adjustments: Solid Waste Management  | 2024 Impact<br>(\$ 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                        |
| <b>Base Adjustments: Solid Waste Management Subtotal</b>  | <b>2,385</b>              |
| <b>Net Changes: Solid Waste Management</b>  | <b>2,403</b>              |
| <b>Net Changes: Works Department</b>  | <b>9,967</b>              |

## 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)

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**Regional Roads Infrastructure Subtotal** 436.441

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### 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

(0.095)

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### Solid Waste Management Subtotal

**73.980**

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### Total Complement: Works Department

**510.421**

## 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>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         |                                |                    |                       |         |
| 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><div></div><div>DURHAM REGION</div></div><div>Durham 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 |   |                      |                                |                    |                       |        |
| 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 <sup>1</sup>                      | -        | -                      | -                       | 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><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 |                      |                                |                    |                       |         |
| 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>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 |
|---|---|----------|-------------------|-------------------------|-------|---|---|---|---|-------|---|---|----------------------|--------------------------------|--------------------|-----------------------|
| 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><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 |       |
|---|--|----------|-------------------|-------------------------|------------------------|----------------|-------------------|----------------|-----------------|----------------|-----------|----------------------|--------------------------------|--------------------|-----------------------|-------|
| 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)

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><div>DURHAM REGION</div></div><div><div><div></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 |
|---|--|----------|-------------------|-------------------------|----------------|-------------------|----------------|-----------------|----------------|-----------|--------------|----------------------|--------------------------------|--------------------|-----------------------|
|   |  |          | 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>Durham 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         |                                |                    |                       |        |
| 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)

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| <div><div><div><div><div></div><div>DURHAM REGION</div></div><div><div>Durham</div><div>Budget</div></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         |                                |                    |                       |        |        |
| 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 <sup>2</sup>              | -        | -                 | -                       | -              | 503               | 440            | 691             | 4,783          | -         | 5,250                | -                              | 11,667             | -                     | -      | 11,667 |
| 261   | Depot Rationalization - New Oshawa/Whitby Depot <sup>3</sup>           | -        | -                 | -                       | -              | 56                | 49             | 78              | 534            | -         | 950                  | -                              | 1,667              | -                     | 55,000 | 56,667 |
| 264   | Depot Rationalization - New Sunderland Depot <sup>4</sup>              | -        | -                 | -                       | -              | 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 |

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| <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 |
|---|---|----------|-------------------|-------------------------|------------------------|----------------|-------------------|----------------|-----------------|----------------|-----------|----------------------|--------------------------------|--------------------|-----------------------|
| 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                   |

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| <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 |   |                      |                                |                    |                       |
| 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                    |



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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)

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 |                      |                                |                    |                       |
| 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><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 |                      |                                |                    |                       |
| 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>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         |                                |                    |                       |

\*\*\*\*\* Project Notes:

- <sup>1</sup> 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.
- <sup>2</sup> 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.
- <sup>3</sup> 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.
- <sup>4</sup> 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.

|  Durham Budget 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.

|  <b>Durham Budget</b> <b>2024</b> |  |                  | 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)

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.

|  <b>Durham Budget</b> <b>2024</b> |   |                  | 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.

|  |   |                  | 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.

|  <b>Durham Budget</b> <b>2024</b> |  |                  | 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)

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.

|  <b>Durham Budget</b> <b>2024</b> |   |                  | 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)

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.

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


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|  <b>Durham Budget</b> <b>2024</b> |   |                  | 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     |                |


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|  <b>Durham Budget</b> <b>2024</b> |  |                  | 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)


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 |        |        |                |
| 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.

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

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 |        |                |
| 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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|  <b>Durham Budget</b> <b>2024</b> |   |                  | 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 |                |


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


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 |                |
| 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.

|  |   |                  | Expenditure Category | 2024 Proposed Budget | Forecast |       |      |      |           | Forecast Total |
|--|---|------------------|----------------------|----------------------|----------|-------|------|------|-----------|----------------|
|  |   |                  |                      |                      | 2025     | 2026  | 2027 | 2028 | 2029-2033 |                |
| <b>Road Rehabilitation / Reconstruction Projects</b>                             |   |                  |                      |                      |          |       |      |      |           |                |
| 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    | -     | -     | -    | -         | 5,550          |
|   |  |  | Total                | -                    | 5,550    | -     | -     | -    | -         | 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 | -     | -    | -         | 2,000          |
|   |  |  | Total                | -                    | -        | 2,000 | -     | -    | -         | 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    | -     | -     | -    | -         | 3,000          |
|   |  |  | Total                | -                    | 3,000    | -     | -     | -    | -         | 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 | -    | -         | 9,000          |
|   |  |  | Total                | 1,000                | 600      | 200   | 9,000 | -    | -         | 9,800          |
| 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  |  | Pre-Construction     | 500                  | -        | 100   | -     | -    | -         | 100            |
|   |  |  | Construction         | -                    | -        | -     | 5,000 | -    | -         | 5,000          |
|   |  |  | Total                | 500                  | -        | 100   | 5,000 | -    | -         | 5,100          |
| 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    | -     | -     | -    | -         | 2,500          |
|   |  |  | Total                | 150                  | 2,500    | -     | -     | -    | -         | 2,500          |


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|  <b>Durham Budget</b> <b>2024</b> |  |                  | 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                  | -                    | -        | -     | -         | -     | -     |                |

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|  |   | 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          |


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|  <b>Durham Budget</b> <b>2024</b> |   |                  | 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.

|  <b>Durham Budget</b> <b>2024</b> |  | 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            |


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.

|  <b>Durham Budget</b> <b>2024</b> |  | 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)

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 |
| 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 |                |




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|  <b>Durham Budget</b> <b>2024</b> |  |                  | 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                | -        | -     | -    | -         | 1,200 |                |
|   |  | Total            | -                    | 1,200                | -        | -     | -    | -         | 1,200 |                |
| 216   | Reg. Rd. 23, Lake Ridge Rd. Culvert north of Reg. Rd. 12, Culvert replacement, Brock   | Pre-Construction | 150                  | -                    | -        | -     | -    | -         | -     |                |
|   |  | Construction     | -                    | -                    | 2,000    | -     | -    | -         | 2,000 |                |
|   |  | Total            | 150                  | -                    | 2,000    | -     | -    | -         | 2,000 |                |
| 217   | Reg. Rd. 23 Culvert, 1.0 km north of Thorah Concession Rd 7, Culvert rehabilitation, Brock   | Pre-Construction | -                    | -                    | -        | -     | -    | 50        | 50    |                |
|   |  | Construction     | -                    | -                    | -        | -     | -    | 300       | 300   |                |
|   |  | Total            | -                    | -                    | -        | -     | -    | 350       | 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 | -    | -         | 1,840 |                |
|   |  | Total            | 280                  | -                    | -        | 1,840 | -    | -         | 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       | 100   |                |
|   |  | Construction     | -                    | -                    | -        | -     | -    | 650       | 650   |                |
|   |  | Total            | -                    | -                    | -        | -     | -    | 750       | 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       | 200   |                |
|   |  | Construction     | -                    | -                    | -        | -     | -    | 2,100     | 2,100 |                |
|   |  | Total            | -                    | -                    | -        | -     | -    | 2,300     | 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        | 50    |                |
|   |  | Construction     | -                    | -                    | -        | -     | -    | 750       | 750   |                |
|   |  | Total            | -                    | -                    | -        | -     | -    | 800       | 800   |                |
| 223   | Reg. Rd. 28, Rossland Rd. west of Anderson St. Cross-culvert , Culvert replacement, Whitby   | Pre-Construction | 250                  | -                    | -        | -     | -    | -         | -     |                |
|   |  | Construction     | -                    | -                    | 1,620    | -     | -    | -         | 1,620 |                |
|   |  | Total            | 250                  | -                    | 1,620    | -     | -    | -         | 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.

|  <b>Durham Budget</b> <b>2024</b> |   |                  | 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 |                |


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|  <b>Durham Budget</b> <b>2024</b> |   |                  | 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)

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 & 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    |                |


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|  <b>Durham Budget</b> <b>2024</b> |  |                  | 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     |                |

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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                                      |                      | -                    | -        | -    | -     | -     | -         | -              |




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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             |


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|  <b>Durham Budget</b> <b>2024</b> |   | 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              |
| <b>Machinery &amp; Equipment Subtotal</b>   |   |                      | <b>40</b>            | <b>296</b> | <b>58</b>  | <b>11</b>  | <b>45</b>  | <b>115</b>   | <b>525</b>     |
| <b>Information Technology Infrastructure</b>  |   |                      |                      |            |            |            |            |              |                |
| 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              |
| <b>Information Technology Infrastructure Subtotal</b>   |   |                      | <b>263</b>           | <b>865</b> | <b>306</b> | <b>285</b> | <b>371</b> | <b>1,330</b> | <b>3,157</b>   |


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.

|  <b>Durham Budget</b> <b>2024</b> |  | Expenditure Category | 2024 Proposed Budget | Forecast |      |      |      |           | Forecast Total |
|---|--|----------------------|----------------------|----------|------|------|------|-----------|----------------|
|   |  |                      |                      | 2025     | 2026 | 2027 | 2028 | 2029-2033 |                |
| <b>Vehicles</b>   |  |                      |                      |          |      |      |      |           |                |
| 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.

|  |   |  | 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 Attachement (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.

|  <b>Durham Budget</b> <b>2024</b> |  | 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.

|  <b>Durham Budget</b> <b>2024</b> |  | 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.

|  <b>Durham Budget</b> <b>2024</b> |   | 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                   | -              | -              | -              | -              | -                | -                |
| <b>Vehicles Subtotal</b>  |   |                      | <b>16,169</b>        | <b>3,571</b>   | <b>4,748</b>   | <b>1,902</b>   | <b>7,606</b>   | <b>16,595</b>    | <b>34,422</b>    |
| <b>Furniture and Fixtures</b>   |   |                      |                      |                |                |                |                |                  |                  |
| 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                  | -              | -              | -              | -              | -                | -                |
| <b>Furniture and Fixtures Subtotal</b>  |   |                      | <b>125</b>           | <b>20</b>      | <b>11</b>      | <b>10</b>      | <b>11</b>      | <b>10</b>        | <b>62</b>        |
| <b>Total Capital Regional Roads and Infrastructure</b>  |   |                      | <b>161,140</b>       | <b>279,582</b> | <b>248,329</b> | <b>259,550</b> | <b>296,115</b> | <b>1,664,951</b> | <b>2,748,527</b> |

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<br>Budget2024 | Expenditure<br>Category | 2024 Proposed<br>Budget | Forecast |      |      |      |           | Forecast<br>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    |
|-----------------------------------|--------------|---------------|--------------|--------------|---------------|---------------|----------------|
| <b>DC Shortfall</b>               |              |               |              |              |               |               |                |
| 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         |
| <b>Total DC Shortfall</b>         | <b>5,581</b> | <b>29,650</b> | <b>9,375</b> | <b>9,228</b> | <b>10,861</b> | <b>81,475</b> | <b>146,170</b> |
| <b>Shortfall Financing Source</b> |              |               |              |              |               |               |                |
| Regional Roads Levy               | 5,581        | 2,721         | 9,375        | 9,228        | 10,861        | 81,475        | 119,241        |
| Debenture                         | -            | 26,929        | -            | -            | -             | -             | 26,929         |
| <b>Total Funding</b>              | <b>5,581</b> | <b>29,650</b> | <b>9,375</b> | <b>9,228</b> | <b>10,861</b> | <b>81,475</b> | <b>146,170</b> |



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>DURHAM<br/>REGION</div></div><div>Durham<br/>Budget</div></div></div> <div>2024</div> |   | Quantity | New /<br>Replacement | 2024 Proposed Financing |       |   |   |   |   |   |   | 2024<br>Proposed<br>Budget | Approved<br>Funding<br>Prior to<br>2024 | Forecast<br>2025-2033 | Total<br>Project to<br>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>DURHAM REGION</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 |
|--|--|---|-------------|------------------------|-------------------------|-------------------|----------------|-----------------|----------------|-----------|--------------|----------------------|--------------------------------|--------------------|-----------------------|
|  |  |   | 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>DURHAM<br/>REGION</div></div><div>Durham<br/>Budget</div></div><div>2024</div></div></div> |   |                  | Expenditure<br>Category | 2024 Proposed<br>Budget | Forecast |        |       |         |         | Forecast<br>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 <sup>1</sup>  | 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></div><div>DURHAM REGION</div></div><div><div>Durham</div><div>Budget</div></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  | 535       | 1,285 |                |
| Information Technology Infrastructure  |  |                      |                      |          |      |      |           |       |                |
| 22   | Computer Printer - Waste Facilities                            | 3                    | 3                    | 3        | 3    | 3    | 15        | 27    |                |
| 23   | Computers & Monitors Refresh                                   | 37                   | 92                   | 50       | 34   | 105  | 264       | 545   |                |
| 24   | Ipad - Durham/York Energy Centre                               | 2                    | -                    | -        | -    | -    | -         | -     |                |
| 25   | Power Laptops - Various Locations                              | 8                    | 10                   | 1        | 51   | -    | 1         | 63    |                |
| 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  | 280       | 641   |                |
| 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><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> |   |       |        |       |        |       |         |         |       |
|--|---|-------|--------|-------|--------|-------|---------|---------|-------|
| 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 |                |

<sup>1</sup> 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  |
|-----------------------------------|------------|--------------|--------------|----------|----------|-------------|--------------|
| <b>DC Shortfall</b>               |            |              |              |          |          |             |              |
| Residential DC Shortfall          | 500        | 1,961        | 1,384        | -        | -        | -           | 3,845        |
| Commercial DC Shortfall           | -          | -            | -            | -        | -        | -           | -            |
| Institutional DC Shortfall        | -          | -            | -            | -        | -        | -           | -            |
| Industrial DC Shortfall           | -          | -            | -            | -        | -        | -           | -            |
| <b>Total DC Shortfall</b>         | <b>500</b> | <b>1,961</b> | <b>1,384</b> | <b>-</b> | <b>-</b> | <b>-</b>    | <b>3,845</b> |
| <b>Shortfall Financing Source</b> |            |              |              |          |          |             |              |
| Waste Management Reserve Fund     | 500        | 1,961        | 1,384        | -        | -        | -           | 3,845        |
| <b>Total Funding</b>              | <b>500</b> | <b>1,961</b> | <b>1,384</b> | <b>-</b> | <b>-</b> | <b>-</b>    | <b>3,845</b> |



## The Regional Municipality of Durham Report

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To: Works Committee  
From: Acting Commissioner of Works  
Report: #2024-W-7  
Date: March 6, 2024

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### **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

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### **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:**

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

Recommended for Presentation to Committee

**Original signed by:**

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Elaine C. Baxter-Trahair  
Chief Administrative Officer



# The Regional Municipality of Durham Report

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To: Works Committee  
From: Acting Commissioner of Works  
Report: #2024-W-8  
Date: March 6, 2024

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**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.
- 

**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:**

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

Recommended for Presentation to Committee

**Original signed by:**

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Elaine C. Baxter-Trahair  
Chief Administrative Officer