



**WASTE MANAGEMENT AND
ENVIRONMENTAL SUSTAINABILITY
MEMORANDUM**

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TO: INFRASTRUCTURE AND COMMUNITY INVESTMENT COMMITTEE

FROM: S. COULTER, B.SC., ASSOCIATE DIRECTOR, WASTE MANAGEMENT AND ENVIRONMENTAL SUSTAINABILITY, EXT. 5826

WARD: ALL

NOTED: B. ARANIYASUNDARAN, P.ENG., GENERAL MANAGER OF INFRASTRUCTURE AND GROWTH MANAGEMENT

M. PROWSE, CHIEF ADMINISTRATIVE OFFICER

RE: BLUE BOX TRANSITION AND NEW WASTE COLLECTION CONTRACT DETAILS

DATE: JUNE 22, 2023

The purpose of this memorandum is to update the Infrastructure and Community Investment Committee on the Provincial Blue Box Transition initiative and provide details related to the new waste collection contract. The Blue Box Transition and waste collection specifications are tied to Provincial legislation and Municipal Policies as described in the Environmental Obligations and Municipal Policy Framework section below. This memo will provide detailed information related to resulting system changes and future resourcing requirements for successful implementation.

Environmental Obligations and Municipal Policy Framework

On June 9, 2016, the Province of Ontario enacted the Resource Recovery and Circular Economy Act (RRCEA). The Act required the Minister of Environment, Conservation and Parks to develop a strategy entitled Strategy for a Waste-Free Ontario: Building the Circular Economy within 90 days of the Act being adopted. The Circular Economy is designed to target resource efficiency, waste reduction and emissions reduction through circular supply chains (supported by recover, reuse, repair, and recycling concepts), product longevity (improving the lifecycle and value), new business models that promote the efficient use of goods and capital assets, and technological innovations.

The Provincial Circular Economy details, as well as the recommended Municipal Framework, were outlined in a memo to Council dated May 25, 2020. The memo indicated that Barrie's Circular Economy Framework consists of the following four (4) pillars as detailed in Appendix A:

- Reuse – extend the lifecycle of goods.
- Recycle – maximize the recycling and processing of captured materials.
- Consume – minimize food wastage from all sources.
- Recover – identify the economic value of waste and maximize beneficial energy use.

The memo further confirmed that Barrie's Circular Economy Framework is consistent with the Provincial RRCEA and will:

1. Support positive environmental outcomes.
2. Reduce reliance on raw materials.
3. Stimulate innovation, and
4. Support economic growth and competitiveness.

On March 22, 2021, through motion 21-G-054 Circular Economy Approach – Policies & 2021–2022 Initiatives, Council approved the policies identified in Appendix B of Staff Report BPE002-21 and provided delegated authority to the Manager of Business Performance & Environmental Sustainability or designate to amend or add to the Circular Economy policies on an as need basis and advise General Committee on the details of any changes through a memorandum. For information purposes, Appendix B of Staff Report BPE002-21 is attached to this memo as Appendix B.

It is important to note that the adopted policies as identified in Appendix B, will continue to shape the municipality's integrated waste management system well into the future as the Circular Economy frameworks drives an overall decrease in the creation of waste. The following are examples of adopted policies that will change certain elements of Barrie's current integrated waste management system:

- Overarching Pillar Policy 0.3 - to take a proactive approach in long term planning of waste management activities and continuously improve efficiency of programs and infrastructure.
- Recycle Pillar Policy 1.2 – to transition waste programs to an extended producer responsibility model.
- Recycle Pillar Policy 2.1 - to reduce street litter and illegal dumping in public areas and to increase diversion of these materials.
- Recycle Pillar Policy 3.1 – to minimize waste generation and maximize waste diversion opportunities at all City-owned facilities.
- Recycle Pillar Policy 3.2 – to maximize waste diversion opportunities for residents and the ICI sector.
- Consume Pillar Policy 2.2 – to expand organics diversion opportunities in the City of Barrie.
- Recover Pillar Policy 1.3 – to recover energy generated from waste disposal and waste processing.

On June 3, 2021, the Province of Ontario released the Blue Box Regulation, O.Reg. 391/21 Blue Box under the RRCEA which designated the Resource Productivity & Recovery Authority (RPRA) to administer and monitor the transition of the responsibility for blue box collection, processing, and marketing from Ontario Municipalities to the Producers (i.e., the companies producing and supplying paper, containers and packaging products that are collected in the City's current Blue Box Program) for certain eligible sources ("eligible source" means any residence or facility in an eligible community) such as:

- Single-family homes and seasonal dwellings (residential units),
- multi-residential properties (excluding commercial units),
- public space bins (location specific),
- specified not for-profit long term care and retirement facilities, and
- public and private schools (does not include post-secondary and day-care).

The intent of this legislation is to create consistency and standardization of services across the province, reduce consumer confusion, and to ensure Producers are fully responsible and financially accountable for the paper products and packaging supplied into the community and disposed of by residents. Producers have engaged with Producer Responsibility Organizations (PROs) for the transition to and management of the new standardized Common Collection System.

As a side note, it's anticipated that the City of Barrie will likely be deemed a Producer as defined under the Blue Box Regulation. Staff are currently collaborating with the RPRA and the Ontario Continuous Improvement Fund (CIF) to better understand the City's potential obligations.

A phased approach will be taken in Ontario, from July 1st, 2023, to December 31st, 2025, with Producers/PRO obligations changing over time. The City of Barrie (City) has a transition date of May 1st, 2024, when its obligation to provide Blue Box service to residents will end. This date aligns with the end date of the current solid waste collection contract (April 30, 2024).

It is also important to note that on April 11, 2023, Ontario's Ministry of Municipal Affairs and Housing approved the City of Barrie Official Plan 2051 which previously received council approval on February 15, 2022. Section 6.2e) of the Official Plan; Planning for Resilience includes the following objective:

- Adopt a city-wide circular economy approach to reduce waste, keep products and materials in circulation longer, and regenerate natural systems, thereby increasing economic and climate resiliency.

Detailed waste management policies within the Official Plan are outlined in Section 6.6.3 Infrastructure Resilience & Waste Management.

Blue Box Transition Implementation

The implementation of the Provincial Blue Box Transition initiative will trigger the need to adjust the municipality's current Integrated Waste Management System. To prepare for the City's transition, a comprehensive transition plan has been developed by Dillon Consulting entitled "City of Barrie Waste Recycling Transition Plan". The Transition plan will assist the municipality in navigating the impacts and managing the risks to its current Integrated Waste Management System. A summary of the required system adjustments is provided below:

- From May 1, 2024, to December 31, 2025, existing services and service levels will continue for all eligible blue box services. The Producers are obligated to maintain the existing service levels throughout the transition years. The City will remain responsible for recycling collection from the ineligible sectors (City Facilities, ICI Sector, BIA Commercial Sector, Special Events, Collection from Parks Interiors during transition, and Environmental Centre Depot). Materials currently accepted in Barrie's Blue Box Program will continue to be diverted. It is important to note that the Producers have identified a maximum 4% contamination rate as a target in the Blue Box system and expects that PRO's will meet this target. PRO's servicing eligible communities that exceed the maximum contamination rate would be expected to develop and fund a targeted improvement plan (promotion & education) to address the higher levels of contamination.
- After January 1, 2026, under the Producer Common Collection System, Producers will be responsible for the full residential or eligible Blue Box Program and may make changes to service levels and eligible material requirements. The Producers will continue to require PRO's to meet the maximum 4% contamination rate and implement the necessary promotion and education initiatives to meet the established target. The City will remain responsible for the collection and processing recycling from those sectors identified as ineligible sources (City Facilities, ICI Sector and BIA Commercial Sector, Special Events, and Environmental Centre Depot and places of worship).

New Waste Collection Contract

As detailed above, the Blue Box Transition Regulation will, in effect, remove a large portion of the responsibility for the collection of eligible blue box materials from the City's collection contractor. It is important to note that the current collection contract with the current service provider (Waste Connections Canada) is due to expire on April 30, 2024.

Through significant collaboration with various City divisions including Finance, IGM, and Legal Services, a new collection contract has been tendered and awarded and executed with a commencement date of May 1, 2024, which aligns with Barrie's Blue Box transition date. The contract, as executed is with Halton Recycling Ltd., who will be conducting business as Emterra Group, effective January 20, 2023. Collection services under the new contract will take effect on May 1, 2024, for a period of 8 years (2032) with an option for two (2) one (1) year extensions.

It is important to note that rising system costs have accelerated technology advancements in the waste management industry which have driven changes to solid waste collection processes. Industry waste collection best practices are trending towards the use of automation with carts. Experience from other municipalities who

have recently procured waste collection services have demonstrated that viable companies offering waste management services were reluctant to submit bids in response to procurement specifications requiring manual waste collection practices. Accordingly, under the new contract commencing May 1, 2024, Barrie's curbside waste collection services will incorporate the use of manual collection for a portion of the first two (2) years (i.e. 2024 and 2025) and on September 8, 2025 transition to automated collection with the use of carts for all materials except yard waste.

Solid Waste Management System Changes

Contract specifications were carefully drafted to ensure alignment with Barrie's Circular Economy policies as previously approved by council. A summary of the system adjustments are outlined below with further details provided in Appendix C – Collection System Details.

System Changes During Manual Collection Period (May 1, 2024 – September 7, 2025) are as follows:

- Contract payment based on number of stops or lifts based on service
- Single Family Curbside Collection routes to include specified private roads and laneways
- Green Bin Organics Collection service expanded to include Pet Waste in certified compostable bags.
- Green Bin Organics Collection service expanded to ICI sector (including BIA) and City owned Facilities.
- Daily (Mon-Fri) Garbage, Organics, Recycling (non-eligible sources only), and Public Space Bin (Garbage only) Collection in BIA (includes residential and businesses) with no change in maximum weekly limits.
- Every other week yard waste collection on opposite week from garbage collection for all sectors April through November inclusive; Holiday tree collection every week in January.
- Yard waste collection schedule to be every other week (April – November) opposite the garbage collection week with yard waste collection occurring anytime throughout that week.
- No schedule shifts for curbside collection due to holidays except for Christmas Day and New Year's Day.
- Annual battery collection for residential sectors and BIA.
- Eligible Blue Box Recycling Collection transitioned to Producers.
- Establish and maintain waste collection registration system for ICI sector (garbage, recycling, organics, and yard waste).
- Update and maintain Multi-residential waste collection registration system.

System Changes at Onset of Automated Collection (September 8, 2025):

- Garbage, Recycling (non-eligible sources) and Organics collection services transition to an automated cart-based collection system. Curbside collection of Yard Waste and Batteries remains manual.
- Recycling services (non-eligible sources) transition from two stream to single stream recycling. All recyclable material including containers, paper and cardboard are disposed of in the same automated cart.
- Garbage, Recycling (non-eligible sources) and Organics collection in the BIA change from daily manual collection to twice weekly automated cart collection. Public Space Bin collection (Garbage only) remains daily.
- Weekly single stream recycling collection for all other non-eligible sources.

It is also important to note that there are no curbside capacity reductions to the residential limits identified under the new contract. System enhancements such as expanded organics, increased BIA collection frequency and continued collection of non-eligible recyclables are in accordance with Barrie's Circular Economy policies and are intended to increase the recycling and recovery capacity of the municipality. Additionally, contract specification adjustments to collection frequencies in the BIA were included to improve solid waste management practices in high profile/pedestrian use areas and comply with the municipal Circular Economy policies.

Design specifications for new carts are currently under development and it is anticipated that cart capacities will accommodate current residential curbside limits/volumes for garbage and organics. Carts intended for the collection of garbage for the BIA businesses and the ICI sector will be sized to reflect the added opportunity for organics collection. Details on recommended automated cart sizes as outlined in Appendix D are based on municipal and contractor automated cart program implementation experiences.

System changes, such as those identified above, will require amendments to Barrie’s current Waste Management By-law 2021-003 and staff will submit an updated by-law for Council’s review and approval to correspond with the transition to the new service provider.

System Resourcing

System components that influenced contract costs include:

- Sector expansion of organics collection/processing with the inclusion of pet waste
- Enhanced collection frequency within the BIA
- Curbside collection extended to specified private roads and laneways
- Equipment retrofits to accommodate automated cart collection and cart purchases
- Transition of eligible blue box collection/processing to the producers

The table below provides the 2022 actual and a five (5) year forecast of annual solid waste collection costs for the major system material types in accordance with contract conditions. It is important to note that the costs associated with recycling collection for 2022, 2023, and the first four months of 2024 are subsidised at approximately 50% by Stewardship Ontario based on program costs submitted by the City to the Resource Productivity and Recovery Authority as the regulator mandated to enforce the province’s circular economy legislation and regulations. The existing collection contract ends April 30th, 2024, and the new contract begins May 1st, 2024. Therefore, 2024 costs are a blend of four (4) months of cost under the existing contract and eight (8) months of cost under the manual collection phase of the new contract. Similarly, the transition to automated collection is scheduled to commence September 8th, 2025. Accordingly, the 2025 costs are a blend of eight (8) months of manual collection and four (4) months of automated collection.

Annual Actual and Forecasted Solid Waste Collection Costs

Material Type	2022	2023	2024*	2025**	2026	2027
Garbage	\$973,648	\$999,547	\$2,245,153	\$3,242,004	\$4,058,173	\$4,294,921
Organics	\$2,391,236	\$2,454,843	\$4,526,631	\$5,809,293	\$6,287,413	\$6,656,472
Recycling***	\$1,970,487	\$2,022,902	\$1,194,540	\$732,938	\$672,905	\$694,430
Yard Waste	\$564,942	\$579,970	\$1,138,756	\$1,510,371	\$1,702,595	\$1,793,609
Batteries	N/A	N/A	\$67,303	\$109,936	\$127,980	\$134,869
Total	\$5,900,313	\$6,057,262	\$9,172,383	\$11,404,542	\$12,849,067	\$13,574,300

* Transition from existing contract to manual collection phase of new contract.

** Transition from manual collection phase of new contract to automated collection phase of new contract.

*** Stewardship Ontario subsidy not reflected in reported costs.

Since the new contract is multi-year (i.e. eight (8) years with an option for two (2) one (1) year extensions), it was appropriate to include cost escalation factors such as CPI and Fuel Adjustment to fairly off-set future annual increases in system costs. It is also important to note that the majority of the collection costs are based on the number of stops or serviceable units. As Barrie grows the number of stops will also increase which will trigger future increases in annual collection costs.

The Waste Management & Environmental Sustainability Department has been collaborating with Finance on Business Planning considerations as well as with Access Barrie for communications planning and implementation details. The successful transition of Blue Box Recyclables and the on-boarding of a new waste collections service provider at the same time cannot be effectively executed with our existing resources. Temporary additional resources will be required for up to four (4) years in the following areas:

- Temporary waste management resource within Waste Management and Environmental Sustainability to focus on complex specialized logistical components such as transitioning to automated cart collection. This resource will also assist in troubleshooting any curbside collections issues related to blue box transition and the transition to the new collection contract.
- Temporary communications resource to work in partnership with Waste Management & Environmental Sustainability staff to design, deliver, monitor, and revise all communications related to system changes within Barrie's Integrated Waste Management System. This will ensure all households, media and incoming customer service inquires receive accurate and timely information to the complicated changes that are occurring to the City's waste management system.

The changes to Barrie's integrated waste management system align with several goals of Council's 2022 – 2026 Strategic Plan as follows:

- Responsible Governance by maintaining focus on city core services,
- Thriving Community by supporting a vibrant downtown, and,
- Infrastructure Investments though implementing climate action plans via Circular Economy initiatives.

Next Steps

Updating Waste Collection By-law 2021-003 – Staff are reviewing and updating the current Waste Collections By-law to align with system changes and will submit for Council review and approval prior to May 1, 2024.

Blue Box Transition – Staff are attending Circular Materials Ontario workshops and seminars to learn as much as possible about details related to system changes and the proposed communications plan. Staff will also confirm the municipality's obligations as a producer under the Blue Box Regulation and will update Council in the form of a memo once the information is confirmed.

New Contract Implementation May 1, 2024 – Staff have commenced meetings with Emterra to review and finalize workplans and confirm critical path schedules for smooth service transition. Waste Management and Environmental Sustainability department is collaborating with Communications and Marketing to ensure all communications requirements are met.

Automated Collection September 8, 2025 – Staff are working with Emterra to scope cart sizing for optimal system operation and end user flexibility. Staff intend to include the necessary details related to automated cart collection in the upcoming waste collection by-law update identified above.

Recycling Collection within Parks Interiors – The new waste collections contract was amended during negotiations to remove all eligible blue box services including recycling collection in parks interiors based on an understanding that the PROs would be collecting recyclables from parks interiors. Recent regulatory refinement (implementation changes, as a result of interpretation of legislation) determined that recycling collection within parks interiors would not be an eligible source during the transition phase (May 1st, 2024 to Dec 31st, 2025). Pricing obtained through the tender process indicated that costing for minimum weekly collection within parks would be an estimated \$208,300. To continue recycling service within parks interiors after May 1st, 2024, Staff will include the costs in the 2024 Business Plan. On January 1st, 2026, PROs will commence full implementation of the common collection system, however program specifications related to obligations for Blue Box Collection in Public Spaces (including parks) have not been shared at this time.

Appendix "A"

City of Barrie's Four Pillars for Circular Economy



REUSE

Objective

Create and foster a culture of reuse.

Goal

Extend the lifestyle of goods, products, and resources through local repair, upgrade and resell initiatives.

Priority Areas

Repair
Share
Behaviour



RECYCLE

Objective

Ensure residents and businesses know about and are confident using recycling systems.

Goal

Maximize the recycling captured for processing.

Priority Areas

Blue Box
Producer Responsibility
Behaviour



CONSUME

Objective

Rethink the role that food can play in supporting a circular economy.

Goal

Minimize food waste from all sources.

Priority Areas

Food Production & Consumption
Food Diversion
Behaviour



RECOVER

Objective

Recover energy and materials after other efforts have been exhausted.

Goal

Identify the economic value of waste and maximize local energy benefit from waste streams.

Priority Areas

Residual Waste
Water
Behaviour

Appendix "B"

Circular Economy Action Table
(From Staff Report BPE002-21, March 8, 2021)

Connecting the Pillars: Overarching Circular Economy Policies and Actions

Proposed Policy 0.1
It is the policy of the City of Barrie to educate its residents, businesses and staff about the Circular Economy and its strategies.
Proposed Policy 0.2
It is the policy of the City of Barrie to join and participate in the Circular Economy community to share and disseminate knowledge with other municipalities and organizations about Circular Economy practices and implementation strategies.
Proposed Policy 0.3
It is the policy of the City of Barrie to take a proactive approach in long term planning of waste management activities and continuously improve efficiency of programs and infrastructure.

Appendix “B”

Circular Economy Pillar: Reuse

Objective: To create and foster a culture of reuse.
Goal: Extend the lifecycle of goods, products, and resources through local repair, upgrade and resell initiatives.
Priority Areas: Behaviour - Corporate Purchasing - leading by example through Circular procurement.
 Repair – Strengthening the community sharing economy.
 Share – Strengthening the community sharing economy.

Priority Area 1 - Corporate Purchasing – *Leading by Example Through Circular Procurement*

Proposed Policy 1.1

It is the policy of the City of Barrie to encourage municipal procurement practices that support a Circular Economy.

Priority Area 2 – Repair & Share – *Strengthening the Community Sharing Economy*

Proposed Policy 2.1

It is the policy of the City of Barrie to support initiatives that actively promote the Circular Economy through share, repair and reuse events and programs.

Proposed Policy 2.2

It is the policy of the City of Barrie, as part of business development, to incorporate Circular Economy strategies to inspire innovation and experimentation with circular initiatives.

Proposed Policy 2.3

It is the policy of the City of Barrie to promote activities that support a sharing economy and establish partnerships with internal and external stakeholders.

Priority Area 3 – Corporate & Community Plastic Consumption – *Regulating Single-Use Plastics*

Proposed Policy 3.1

It is the policy of the City of Barrie to support the reduction and phasing out of single-use plastic items.

Appendix "B"

Circular Economy Pillar: Recycle

Objective: Ensure residents and businesses know about and are confident using recycling systems.
Goal: Maximize the recycling captured for processing.
Priority Areas: Producer Responsibility, Diversion Programs, Behaviour.

Priority Area 1 – Producer Responsibility – *Advocacy and Collaboration*

Proposed Policy 1.1

It is the policy of the City of Barrie to advocate for the strengthening of federal and provincial regulations related to the capture of recyclables and recyclability of materials.

Proposed Policy 1.2

It is the policy of the City of Barrie to transition waste programs to an extended producer responsibility model.

Priority Area 2 – Public Space Waste Education & Communication – *Managing Waste in Public Spaces*

Proposed Policy 2.1

It is the policy of the City of Barrie to reduce street litter and illegal dumping in public spaces and to increase the diversion of these materials.

Priority Area 3 – Municipal Facility Recycling – *Managing Waste at Municipal Facilities*

Proposed Policy 3.1

It is the policy of the City of Barrie to minimize waste generation and maximize waste diversion opportunities at all City-owned facilities.

Proposed Policy 3.2

It is the policy of the City of Barrie to maximize waste diversion opportunities for residents and the ICI sector.

Appendix “B”

Circular Economy Pillar: Consume

Objective: Rethink the role that food can play in supporting a Circular Economy.
Goal: Minimize food wastage from all sources.
Priority Areas: Food Production & Consumption, Food Diversion, Behaviour.

Priority Area 1 – Food Production & Consumption – <i>Support Local Agriculture</i>
Proposed Policy 1.1
It is the policy of the City of Barrie to encourage community urban agricultural opportunities.
Proposed Policy 1.2
It is the policy of the City of Barrie to support a community food recovery program.

Priority Area 2 – Food Diversion – <i>Strengthening Communication and Education to Reduce and Rescue Food Waste</i>
Proposed Policy 2.1
It is the policy of the City of Barrie to develop a food waste reduction strategy.
Proposed Policy 2.2
It is the policy of the City of Barrie to expand organics diversion opportunities in the City of Barrie.

Appendix “B”

Circular Economy Pillar: Recover

Objective: Recover energy and materials after other efforts have been exhausted.
Goal: Identify the economic value of waste and maximize local energy benefit from waste streams.
Priority Areas: Residual Waste, Water, Behaviour.

Priority Area 1 – Long-Term Strategizing – *Recovering Energy and Realizing Value of Resources*

Proposed Policy 1.1

It is the policy of the City of Barrie to reduce water consumption, energy use, greenhouse gas (GHG) emissions, and transition to renewable energy for City operations and facilities.

Proposed Policy 1.2

It is the policy of the City of Barrie to minimize greenhouse gas emissions from waste management activities.

Proposed Policy 1.3

It is the policy of the City of Barrie to recover energy generated from waste disposal and waste processing.

Priority Area 2 –Circular Construction – *Supporting Low Carbon Development*

Proposed Policy 2.1

It is the policy of the City of Barrie to encourage reuse and recycling of construction and demolition (C&D) waste.

Priority Area 3 – Circular Soil Management – *Soil Reuse and Recycling Practices*

Proposed Policy 3.1

It is the policy of the City of Barrie to ensure soil from development or re-development is reused or recycled where possible.

Appendix “C”

Collection System Details

Sector Definitions:

“**Single Family Services**” means services provided to eligible Residential Units as defined in the City of Barrie Waste Management By-Law, including single detached dwelling, semi-detached dwelling, duplex dwelling, freehold or private frontage townhouse, or multiplex dwelling with less than six (6) units.

“**Multi-Residential Property(ies)**” means any building that contains six (6) or more residential dwelling units and does not include buildings that provide central dining facilities.

“**City Building**” means a building that is owned or operated by the City.

“**Public Space(s)**” is a designated location including parks, transit stops, roadside and BIA locations which receives Collection and includes Containers in a park, at a transit stop, along roadways, and/or a BIA streetscape; as updated and amended from time to time.

“**Business Improvement Area**” or “**BIA**” means the area(s) of the City as depicted in Schedule 5 including various land uses such as commercial property owners, residential units, and public spaces of the City as amended from time to time.

“**Environmental Centre**” (**City Depot**) means the City of Barrie’s Waste Management Facility located at 272 Ferndale Drive North, Barrie.

“**Industrial, Commercial, And Institutional (IC&I)**” means an industrial, commercial, or institutional establishment used for the purpose of including but not limited to retail, manufacturing/industrial, service, entertainment, recreation, offices, church, schools, clinics, hospitals, and nursing homes.

“**Special Events**” means all public events held on City property that are required to have a Special Event Permit and meet City requirements to ensure a safe and successful event for all involved.

**Appendix “C”
Garbage Collection Services:**

Sector	Existing Contract - Manual Collection	New Contract, Manual Collection Period - May 1, 2024 to September 7, 2025	New Contract, Automated Collection Period - September 8, 2025 to April 30, 2032
	Collection Frequency, Collection Allotment, Waste Collection Container Type, Collection Type	Description of Service, Collection Allotment, Waste Collection Container Type, Collection Type	Description of Service, Collection Allotment, Waste Collection Container Type, Collection Type
Single Family Services	Every other Week, Two (2) bags or reusable containers, Garbage Container (bag or reusable Container), Manual	Every other week, Two (2) bags or reusable containers, Garbage Container (bag or reusable Container), Manual	Every other week, Equivalent to two (2) bags or reusable containers, Automated Carts, Automated
		Every other week - Townhouse Locations accessed directly from a municipal roadway or laneway, Two (2) bags or reusable containers, Garbage Container (bag or reusable Container), Manual	Every other week - Townhouse Locations accessed directly from a municipal roadway or laneway, Equivalent to two (2) bags or reusable containers, Automated Carts, Automated
Multi-Residential Properties	Every other Week to twice Weekly, One (1) Cubic Yard for every 10 residential units, Front End Container (Dumpster), Automated	Variable collection frequency, One (1) Cubic Yard for every 10 residential units, Front End Container (Dumpster), Automated	Variable collection frequency, One (1) Cubic Yard for every 10 residential units, Front End Container (Dumpster), Automated
		*Every other week - Townhouse Locations accessed directly from a private roadway or laneway, Two (2) bags or reusable containers, Garbage Container (bag or reusable Container), Manual	*Every other week - Townhouse Locations accessed directly from a private roadway or laneway, Equivalent to two (2) bags or reusable containers, Automated Carts, Automated
City Buildings	Variable Collection frequency, Unlimited, Automated	Variable collection frequency, Unlimited, Front End Container (Dumpster), Automated	Variable collection frequency, Unlimited, Front End Container (Dumpster), Automated
	Variable Collection frequency, Unlimited, Roll-off Container, Automated	Variable collection frequency, Unlimited, Roll-off Container, Automated	Variable collection frequency, Unlimited, Roll-off Container, Automated
Public Spaces Transit & Roadside	Weekly, Dependant on volume of container, Public Space Container, Manual	Minimum weekly, Dependant on volume of container, Public Space Container, Manual	Minimum weekly, Dependant on volume of container, Public Space Container, Manual
Business Improvement Area (BIA)	Twice Weekly - Transit stops and roadside, Dependant on volume of container, Public Space Container, Manual	Daily (Mon-Fri) - Transit stops and roadside, Dependant on volume of container, Public Space Container, Manual	Daily (Mon-Fri) - Transit stops and roadside, Dependant on volume of container, Public Space Container, Manual
	Twice Weekly - Single Family Service, Two (2) bags or reusable containers per week, Garbage Container (bag or reusable Container), Manual	Daily (Mon-Fri) - Single Family Services, Two (2) bags or reusable containers per week, Garbage Container (bag or reusable Container), Manual	Twice Weekly - Single Family Service, Equivalent to two (2) bags or reusable containers per week, Automated Carts, Automated
	Twice Weekly - IC&I, Six (6) bags or reusable containers per week, Garbage Container (bag or reusable Container), Manual	Daily (Mon-Fri) - IC&I, Six (6) bags or reusable containers per week, Garbage Container (bag or reusable Container), Manual	Twice Weekly - IC&I, **Equivalent to six (6) bags or reusable containers per week, Automated Carts, Automated
		Daily (Mon-Fri) - Townhouse locations accessed directly from a municipal roadway or laneway, Two (2) bags or reusable containers per week, Garbage Container (bag or reusable Container), Manual	Twice Weekly - Townhouse Locations accessed directly from a municipal roadway or laneway, Equivalent to two (2) bags or reusable containers per week, Automated Carts, Automated
ICI (excluding the BIA)	Every other Week, Twelve (12) bags or reusable containers, Garbage Container (bag or reusable Container), Manual	Every other week, Twelve (12) bags or reusable containers, Garbage Container (bag or reusable Container), Manual	Every other week, **Equivalent to twelve (12) bags or reusable containers, Automated Carts, Automated

Legend:	
*	New Service
**	Waste allotment may be adjusted/redistributed to reflect the added opportunity for divertable materials (Recycling, Organics and Yard Waste).
***	Eligible Recycling Service that has transitioned to Producer Responsibility

Appendix “C”

Recycling Collection Services:

Sector	Existing Contract - Manual Collection	New Contract, Manual Collection Period - May 1, 2024 to September 7, 2025	New Contract, Automated Collection Period - September 8, 2025 to April 30, 2032
	Collection Frequency, Collection Allotment, Waste Collection Container Type, Collection Type	Description of Service, Collection Allotment, Waste Collection Container Type, Collection Type	Description of Service, Collection Allotment, Waste Collection Container Type, Collection Type
Single Family Services	Weekly - Two Stream Recycling, Unlimited, Recycling Container, Manual	***	***
Multi-Residential Properties	Weekly - Two Stream Recycling, Unlimited, Roll-out Cart, Semi-Automated	***	***
City Buildings	Variable Collection frequency - Cardboard, Unlimited, Roll-off Container, Automated	Variable Collection frequency - Cardboard, Unlimited, Roll-off Container, Automated	Variable Collection frequency - Cardboard, Unlimited, Roll-off Container, Automated
	Variable Collection frequency - Two Stream Recycling, Unlimited, Roll-out Cart, Semi-Automated	Variable collection frequency - Two Stream Recycling, Unlimited, Roll-out Cart, Semi-Automated	Variable collection frequency - Single Stream Recycling, Unlimited, Roll-out Cart, Automated or Semi-Automated
Public Spaces Transit & Roadside	Weekly - Recyclable Containers only, Dependant on volume of container, Public Space Container, Manual	***	***
Business Improvement Area (BIA)	Weekly - IC&I, Four (4) blue boxes, one (1) grey box, five (5) bundles of cardboard Weekly, Manual	Daily (Mon-Fri) - IC&I Two Stream Recycling, Four (4) blue boxes, one (1) grey box, five (5) bundles of cardboard Weekly, Recycling Container, Manual	Twice weekly - IC&I Single Stream Recycling, **Equivalent to four (4) blue boxes, one (1) grey box, five (5) bundles of cardboard Weekly, Automated Carts, Automated
	Weekly - Transits stops and roadside Recyclable Containers only, Dependant on volume of container, Public Space Container, Manual	***	***
	Weekly - Single Family Service, Unlimited, Recycling Container, Manual	***	***
City Environmental Centre	Weekly - Two Stream Recycling, Unlimited, Roll-out Cart, Semi-Automated	Minimum weekly - Two Stream Recycling, Unlimited, Roll-out Cart, Semi-Automated	Minimum weekly - Single Stream Recycling, Unlimited, Roll-out Cart, Automated or Semi-Automated
		*Minimum weekly - Two Stream Recycling, Unlimited, Roll-off Container, Automated	*Minimum weekly - Single Stream Recycling, Unlimited, Roll-off Container, Automated
		*Minimum weekly - Cardboard, Unlimited, Roll-off Container, Automated	*Minimum weekly - Cardboard, Unlimited, Roll-off Container, Automated
ICI (excluding the BIA)	Weekly - Two Stream Recycling, Four (4) blue boxes, one (1) grey box, five (5) bundles of cardboard, Recycling Container, Manual	Weekly - Two Stream Recycling, Four (4) blue boxes, one (1) grey box, five (5) bundles of cardboard, Recycling Container, Manual	Weekly - Single Stream Recycling, **Equivalent to four (4) blue boxes, one (1) grey box, five (5) bundles of cardboard Weekly, Automated Carts, Automated
Special Events	Variable Collection frequency - Recyclable Containers only, Unlimited, Roll-out Cart, Manual	Minimum daily - Two Stream Recycling, Unlimited, Roll-out Cart, Manual or Semi-Automated	Minimum daily - Single Stream Recycling, Unlimited, Roll-out Cart, Manual, Automated or Semi-Automated

Legend:

*	New Service
**	Waste allotment may be adjusted/redistributed to reflect the added opportunity for divertable materials (Recycling, Organics and Yard Waste).
***	Eligible Recycling Service that has transitioned to Producer Responsibility

Appendix “C”

Green Bin Organics Collection Services:

Sector	Existing Contract - Manual Collection	New Contract, Manual Collection Period - May 1, 2024 to September 7, 2025	New Contract, Automated Collection Period - September 8, 2025 to April 30, 2032
	Collection Frequency, Collection Allotment, Waste Collection Container Type, Collection Type	Description of Service, Collection Allotment, Waste Collection Container Type, Collection Type	Description of Service, Collection Allotment, Waste Collection Container Type, Collection Type
Single Family Services	Weekly, Unlimited, Organic Waste Container, Manual	Weekly, Unlimited, Organic Waste Container, Manual	Weekly, Shall accommodate current set out volumes, Automated Carts, Automated
		Weekly - Townhouse Locations accessed directly from a municipal roadway or laneway, Unlimited, Organic Waste Container, Manual	Weekly - Townhouse Locations accessed directly from a municipal roadway or laneway, Shall accommodate current set out volumes, Automated Carts, Automated
Multi-Residential Properties	Weekly, Unlimited, Roll-out Cart, Semi-Automated	Weekly, Unlimited, Roll-out Cart, Semi-Automated	Weekly, Unlimited, Roll-out Cart, Automated or Semi-Automated
		*Weekly - Townhouse Locations accessed directly from a private roadway or laneway, Unlimited, Organic Waste Container, Manual	*Weekly - Townhouse Locations accessed directly from a private roadway or laneway, Shall accommodate current set out volumes, Automated Carts, Automated
City Buildings		*Variable collection frequency, Unlimited, Roll-out Cart, Semi-Automated	*Variable collection frequency, Unlimited, Roll-out Cart, Automated or Semi-Automated
Business Improvement Area (BIA)	Weekly - Single Family Service, Unlimited, Organic Waste Container, Manual	Daily (Mon-Fri) - Single Family Services, Unlimited, Organic Waste Container, Manual	Organic Waste Residential Automated Cart twice weekly, Shall accommodate current set out volumes, Automated Carts, Automated
		*Daily (Mon-Fri) - IC&I, One (1), Organic Waste Container, Manual	*Organic Waste IC&I Automated Cart twice weekly, **Equivalent to one (1) Organics Waste Container, Automated Carts, Automated
		Daily (Mon-Fri) - Townhouse locations accessed directly from a municipal roadway or laneway, Unlimited, Organic Waste Container, Manual	Organic Waste Residential Automated Cart twice weekly from townhouse locations accessed directly from a municipal roadway or laneway per Schedule 2, Shall accommodate current set out volumes, Automated Carts, Automated
City Environmental Centre	Weekly, Unlimited, Roll-out Cart, Semi-Automated	Minimum weekly, Unlimited, Roll-out Cart, Semi-Automated	Minimum weekly, Unlimited, Roll-out Cart, Automated
ICI (excluding the BIA)		*Weekly, One (1), Organic Waste Container, Manual	*Organic Waste Automated Cart weekly Fully Automated Organic Waste, **Equivalent to one (1) Organics Waste Container, Automated Carts, Automated
Special Events		*Minimum daily, Unlimited, Organic Waste Container, Manual	*Minimum daily, Unlimited, Organic Waste Container, Manual, Automated or Semi-Automated

Legend:

*	New Service
**	Waste allotment may be adjusted/redistributed to reflect the added opportunity for divertable materials (Recycling, Organics and Yard Waste).
***	Eligible Recycling Service that has transitioned to Producer Responsibility

Appendix “C”

Yard Waste Collection Services:

Sector	Existing Contract - Manual Collection	New Contract, Manual Collection Period - May 1, 2024 to September 7, 2025	New Contract, Automated Collection Period - September 8, 2025 to April 30, 2032
	Collection Frequency, Collection Allotment, Waste Collection Container Type, Collection Type	Description of Service, Collection Allotment, Waste Collection Container Type, Collection Type	Description of Service, Collection Allotment, Waste Collection Container Type, Collection Type
Single Family Services	Weekly (Jan, Apr, May Jun, Oct, Nov Dec), Every other week (Jul, Aug, Sep), Unlimited, Kraft paper bag or reusable container, Manual	Every other week (April though November inclusive) - Yard Waste, Unlimited, Kraft paper bag or reusable container, Manual	Every other week (April though November inclusive) - Yard Waste, Unlimited, Kraft paper bag or reusable container, Manual
		Weekly (January) - Holiday Tree, Unlimited, n/a, Manual	Weekly (January) - Holiday Tree, Unlimited, n/a, Manual
		Every other week (April though November inclusive) - Yard Waste, Townhouse Locations accessed directly from a municipal roadway or laneway, Unlimited, Kraft paper bag or reusable container, Manual	Every other week (April though November inclusive) - Yard Waste, Townhouse Locations accessed directly from a municipal roadway or laneway, Unlimited, Kraft paper bag or reusable container, Manual
		Weekly (January) - Holiday Tree, Townhouse Locations accessed directly from a municipal roadway or laneway, Unlimited, n/a, Manual	Weekly (January) - Holiday Tree, Townhouse Locations accessed directly from a municipal roadway or laneway, Unlimited, n/a, Manual
Multi-Residential Properties	Weekly (Jan, Apr, May Jun, Oct, Nov Dec), Every other week (Jul, Aug, Sep), Unlimited, Kraft paper bag or reusable container, Manual	Every other week (April though November inclusive) - Yard Waste Townhouse Locations accessed directly from a private roadway or laneway, Unlimited, Kraft paper bag or reusable container, Manual	Every other week (April though November inclusive) - Yard Waste Townhouse Locations accessed directly from a private roadway or laneway, Unlimited, Kraft paper bag or reusable container, Manual
		*Weekly (January) - Holiday Tree, Townhouse Locations accessed directly from a private roadway or laneway, Unlimited, n/a, Manual	*Weekly (January) - Holiday Tree, Townhouse Locations accessed directly from a private roadway or laneway, Unlimited, n/a, Manual
Business Improvement Area (BIA)	Weekly (Jan, Apr, May, Jun, Oct, Nov Dec), Every other week (Jul, Aug, Sep) - Single Family Services, Unlimited, Kraft paper bag or reusable container, Manual	Every other week (April though November inclusive) - Yard Waste, Single Family Services, Unlimited, Kraft paper bag or reusable container, Manual	Every other week (April though November inclusive) - Yard Waste, Single Family Services, Unlimited, Kraft paper bag or reusable container, Manual
		Every other week (April though November inclusive) - Yard Waste, IC&I, Unlimited, Kraft paper bag or reusable container, Manual	Every other week (April though November inclusive) - Yard Waste, IC&I, Unlimited, Kraft paper bag or reusable container, Manual
		Weekly (January) - Holiday Tree, Single Family Services, Unlimited, n/a, Manual	Weekly (January) - Holiday Tree, Single Family Services, Unlimited, n/a, Manual
		Every other week (April though November inclusive) - Yard Waste, Townhouse locations accessed directly from a municipal roadway or laneway, Unlimited, Kraft paper bag or reusable container, Manual	Every other week (April though November inclusive) - Yard Waste, Townhouse locations accessed directly from a municipal roadway or laneway, Unlimited, Kraft paper bag or reusable container, Manual
		Weekly (January) - Holiday Tree, Townhouse locations accessed directly from a municipal roadway or laneway, Unlimited, n/a, Manual	Weekly (January) - Holiday Tree, Townhouse locations accessed directly from a municipal roadway or laneway, Unlimited, n/a, Manual
ICI (excluding the BIA)		Every other week (April though November inclusive) - Yard Waste, Unlimited, Kraft paper bag or reusable container, Manual	Every other week (April though November inclusive) - Yard Waste, Unlimited, Kraft paper bag or reusable container, Manual

Legend:

*	New Service
**	Waste allotment may be adjusted/redistributed to reflect the added opportunity for divertable materials (Recycling, Organics and Yard Waste).
***	Eligible Recycling Service that has transitioned to Producer Responsibility

Appendix "C"

Battery Collection Services:

Sector	Existing Contract - Manual Collection	New Contract, Manual Collection Period - May 1, 2024 to September 7, 2025	New Contract, Automated Collection Period - September 8, 2025 to April 30, 2032
	Collection Frequency, Collection Allotment, Waste Collection Container Type, Collection Type	Description of Service, Collection Allotment, Waste Collection Container Type, Collection Type	Description of Service, Collection Allotment, Waste Collection Container Type, Collection Type
Single Family Services	Annual, Unlimited, Bag, Manual	Annual, Unlimited, Bag, Manual	Annual, Unlimited, Bag, Manual
		Annual - Townhouse Locations accessed directly from a municipal roadway or laneway, Unlimited, Bag, Manual	Annual - Townhouse Locations accessed directly from a municipal roadway or laneway, Unlimited, Bag, Manual
Multi-Residential Properties	Annual - Single Family Service, Unlimited, Bag, Manual	Annual - Single Family Services, Unlimited, Bag, Manual	Annual - Single Family Services, Unlimited, Bag, Manual
		*Annual - Townhouse Locations accessed directly from a private roadway or laneway, Unlimited, Bag, Manual	Annual - Townhouse Locations accessed directly from a private roadway or laneway, Unlimited, Bag, Manual
Business Improvement Area (BIA)	Annual - Single Family Service, Unlimited, Bag, Manual	Annual - Single Family Services, Unlimited, Bag, Manual	Annual - Single Family Services, Unlimited, Bag, Manual
		Annual - Townhouse locations accessed directly from a municipal roadway or laneway, Unlimited, Bag, Manual	Annual - Townhouse locations accessed directly from a municipal roadway or laneway, Unlimited, Bag, Manual

Legend:	
*	New Service
**	Waste allotment may be adjusted/redistributed to reflect the added opportunity for divertable materials (Recycling, Organics and Yard Waste).
***	Eligible Recycling Service that has transitioned to Producer Responsibility

Appendix “D”

Automated Cart Sizing Specifications

Recommended Sizing Specifications - Automated Carts			
Roll-Out Cart	Material Stream		
Volume (L and gal)	Organic Waste - Cart includes locking mechanism	Recyclable Material - IC&I Sector Only (Y/N)	Garbage (Y/N)
120L/35gal	Yes	No	No
240L/65gal	N/A	No	Yes
360L/95gal	N/A	Yes	Yes

Legend:

* Waste allotment may be adjusted/redistributed to reflect the added opportunity for divertible materials (Recycling, Organics and Yard Waste).

Sectors and Services transitioning to Automated Collection Sep 8, 2025

Material Type	Sector	Description of Service	Collection Allotment	Waste Collection Container Type	Collection Type
Garbage	Single Family Services	Every other week	Equivalent to two (2) bags or reusable containers	Automated Carts	Automated
		Every other week - Townhouse Locations accessed directly from a municipal roadway or laneway	Equivalent to two (2) bags or reusable containers	Automated Carts	Automated
	Multi-Residential Properties	Every other week - Townhouse Locations accessed directly from a private roadway or laneway	Equivalent to two (2) bags or reusable containers	Automated Carts	Automated
	Business Improvement Area (BIA)	Twice Weekly - Single Family Service	Equivalent to two (2) bags or reusable containers per week	Automated Carts	Automated
		Twice Weekly - IC&I	*Equivalent to six (6) bags or reusable containers per week	Automated Carts	Automated
		Twice Weekly - Townhouse Locations accessed directly from a municipal roadway or laneway	Equivalent to two (2) bags or reusable containers per week	Automated Carts	Automated
	ICI (excluding the BIA)	Every other week	*Equivalent to twelve (12) bags or reusable containers	Automated Carts	Automated
Recyclable Material	Business Improvement Area (BIA)	Twice weekly - IC&I Single Stream Recycling	*Equivalent to four (4) blue boxes, one (1) grey box, five (5) bundles of cardboard Weekly	Automated Carts	Automated
	ICI (excluding the BIA)	Weekly - Single Stream Recycling	*Equivalent to four (4) blue boxes, one (1) grey box, five (5) bundles of cardboard Weekly	Automated Carts	Automated
Organics	Single Family Services	Weekly	Shall accommodate current set out volumes	Automated Carts	Automated
		Weekly - Townhouse Locations accessed directly from a municipal roadway or laneway	Shall accommodate current set out volumes	Automated Carts	Automated
	Multi-Residential Properties	Weekly - Townhouse Locations accessed directly from a private roadway or laneway	Shall accommodate current set out volumes	Automated Carts	Automated
	Business Improvement Area (BIA)	Organic Waste Residential Automated Cart twice weekly	Shall accommodate current set out volumes	Automated Carts	Automated
		Organic Waste IC&I Automated Cart twice weekly	*Equivalent to one (1) Organics Waste Container	Automated Carts	Automated
		Organic Waste Residential Automated Cart twice weekly from townhouse locations accessed directly from a municipal	Shall accommodate current set out volumes	Automated Carts	Automated
	ICI (excluding the BIA)	Organic Waste Automated Cart weekly Fully Automated Organic Waste	*Equivalent to one (1) Organics Waste Container	Automated Carts	Automated

