



CITY OF CORNWALL

Waste Collection

Bag Tag Review

PREPARED BY:



DFA Infrastructure International Inc.

SEPTEMBER 23, 2020



DFA Infrastructure International Inc.

33 Raymond Street St. Catharines Ontario Canada L2R 2T3

Telephone: (905) 938 -0965

Fax: (905) 937-6568

September 23, 2020

Mr. Carl Goodwin, P.Eng., M.Sc.
Division Manager, Environmental Services
City of Cornwall
861 Second Street West
Cornwall, ON
K6H 5T9

Dear Mr. Goodwin,

**Re: City of Cornwall Waste Collection Bag Tag Review
Final Report**

DFA Infrastructure International Inc. (DFA) is pleased to submit our Final Report on the above captioned study for your review and comment. Please do not hesitate to contact us if you have any questions.

Respectfully Submitted by,

DFA Infrastructure International Inc.

Derek Ali, MBA, P.Eng.
President

Table of Contents

1	Introduction	2
2	Current Collection Practices.....	2
3	Practices in Other Jurisdictions	3
4	Tag Fees.....	5
5	Tag Administration	6
6	Recommendations	6

Appendices

Appendix A - City of Cornwall Waste Management By-Law 2019-034 Summary
Appendix B - Bag/Container Limits and Tag Use in Comparator Municipalities

1 Introduction

The City of Cornwall (City) is considering introducing a bag tag system to facilitate a reduction in the curbside waste collection to a two (2) bag or one (1) container limit per single family dwelling. The intent is to offer flexibility for more than the two (2) bag or 1 container limit to be placed at the curb while creating an incentive to reduce waste with a tag fee. This report provides information on the items noted below, for consideration by the City.

- Program changes that would be required to support the introduction of a 2-bag/1-container limit.
- Development of the cost per tag for each additional bag/container of regular curbside waste.
- Develop the cost per tag for bulk waste items (mattresses, furniture, appliances, etc.)
- The administrative procedures for the distribution, sale and accounting of tags and revenues
- Tag fees in other jurisdictions
- Identify a potential public education strategy
- The potential for illegal dumping and mitigation strategy

2 Current Collection Practices

The current waste collection practices and the level of service are based on the City's current Waste Management By-Law 2019-034. A summary of the By-Law is included in Appendix A. Waste collection is provided weekly to all customers with specific restrictions on the number of bags/containers and types of materials that may be set out for collection as noted in Appendix A. Businesses and residential tenants in the Downtown Business Improvement Area (DBIA) and Le Village receive collection twice per week. The current bag/container limits are noted in Table 2-1.

Table 2-1: Current Bag/Container Limits

Customer Type	Bag /Container Limits
Residential	<ul style="list-style-type: none">• 6 bags/3 containers• Maximum Size - 136 L (36 gallons)• Maximum Weight - 27kg.
Multi Residential	<ul style="list-style-type: none">• 1 cart for every 2 units• Size - 75 L (20 gallons) to 360 L (95 gallons)
Industrial, Commercial, & Institutional	<ul style="list-style-type: none">• Unlimited number of carts• Size - 75 L (20 gallons) to 360 L (95 gallons)

Although not specified in the By-Law, collection of leaf and yard waste is provided bi-weekly from July to September and weekly from the end of September to mid-November. Christmas trees are collected during one week in January. Bulk waste is not collected at the curb but accepted at the landfill site at fees approved through the Services Subject to Fees and Charges (By-Law 2019-047). The City also provides weekly curbside collection of recyclable (blue box) materials.

Visual inspections of number of bags/containers set out by residents for curbside waste collection were conducted by City staff in 2018 and in 2020. On both occasions the number of bags set out averaged

approximately 2.1 per household. A lower average set-out rate of 1.9 bags per household was also noted for households that participated in the recycling program. This suggests that most residents would fall within the 2-bag/1-container limit and the demand for tags for disposal of 3 or more bags would be relatively low.

3 Practices in Other Jurisdictions

Appendix B summarizes the bag tags and bulky waste collection practices in 18 other municipalities in Ontario. These include 5 municipalities that the City considers "comparator" municipalities:

- Kingston
- Brockville
- Peterborough
- Belleville
- North Bay

The limits range from 1 to 3 bags depending on the collection frequency. Municipalities with weekly collection have 1-bag or 2-bag limits. Those with bi-weekly collection allow higher limits of 2 to 4 bags. Others require tags on all bags (i.e. no limit provided there is a tag on each bag). In these cases the municipalities rely on tag fees as a major source of program funding. Exemptions are allowed in some municipalities to accommodate special situations e.g. home day care, residents with certain medical conditions etc. In all cases an unlimited number of bags/containers may be set out for collection as long as there is a tag. The bag/container limits in the six (6) municipalities within the United Counties of Stormont Dundas and Glengarry (SDG) were also obtained. Table 3-1 summarizes the bag/container limits in the comparator and most of the SDG municipalities. Most have 2-bag limits for residential customers.

Table 3-1: Bag/Container Limits in Other Municipalities

Municipality	Container/ Bag Limits	Tag Fee
<i>Comparator Municipalities</i>		
Kingston	Residential -1 (offers 3 "2-bag weeks" per year in January, May, & September)	\$2.00
North Bay	Residential - 3; Businesses - 6	\$1.00
Peterborough	Residential - 2; Commercial - 4	No Tag Fee
Belleville	No Limit - Tags Required for Each Bag	\$3.00
Brockville	Residential - 1	\$3.00
<i>Local Municipalities</i>		
North Glengarry	All customer types -2	\$3.00
North Dundas	Residential -2; Commercial - 6; Farm - 4	No Tags
South Dundas	Residential -2; Commercial & Business - 4	\$1.25
North Stormont	Residential -2; Com / Industrial /Farm - 6	No Tags
South Stormont	Residential -2; Commercial & Farm - 6	\$1.50

Some municipalities do not require tags for additional bags. In these cases, the additional garbage is either left behind or picked-up at the discretion of the collector depending on the size of the extra bag. This approach is not recommended due to its potential for inconsistency and possible disagreement with the customers leading to greater administrative effort.

The main features of the tag systems reviewed include the following:

- Tags are required for garbage and not necessarily for other items such as bulk waste.
- Fees range from \$1.00 to \$3.50 per tag.
- In some cases, a minimum number (e.g. 10 per sheet) must be purchased at a time. There is no maximum limit.
- There is no expiry date for the tags
- A limited number of free tags are given to residents annually to address any concerns regarding having to pay for additional garbage bags/containers
- The sale of tags is through the municipality online or in-person and/or retail outlets e.g. convenience stores
- There is either a simple written agreement or letter of understanding between the municipality and retailers outlining the delivery and sale of the tags. Retailers would buy the tags outright for resale. In some cases, the initial batch may be provided to retailers on consignment to eliminate the initial cash outlay by the retailer.
- Retailers may purchase tags on-line or at the municipality using a credit card or may be invoiced for the tags (for large orders).
- Tags are picked up by retailers at the time of purchase or delivered by the municipality to the retailer via courier.
- There are supporting collection programs to accommodate the lower (1-bag and 2-bag) limit. These include organic waste collection, leaf and yard waste collection and bulk waste collection. Weekly organics collection supports having lower bags limits and higher diversion rates. The municipalities with organics collection and lower bags limits tend to have diversion rates of 50% or higher (Appendix B).

According to the municipalities contacted, there are no major concerns from residents regarding the bag limits or tag fees. There is also no major impact with respect to illegal dumping once residents adjust to the new limits. This is partly due to having a good public education program and other curbside programs such as recycling, leaf and yard waste collection, organics collection and bulk waste collection to complement the weekly curbside waste collection service. These programs offset the need for higher bag/container limits.

Bulky items collection services vary across the municipalities surveyed (Appendix B). The main types of services offered are noted below.

- Drop-off at the landfill site or other designated location for a fee i.e. no curbside collection
- Curbside collection on regular garbage day on a call-in basis. A user fee may or may not apply depending on the municipality
- Curbside collection a few times per year. Users are required to call in depending on the municipality
- Designated "give-away" days during which residents may set out items at the curb for others to take away

The user fees that apply also vary by municipality. Table 3-2 summarizes the bulky waste collection and user fees in the comparator municipalities. The respective fees generally vary between \$10 and \$20 per item for curbside collection with higher fees for appliances. Although the fees seem to be based on the cost of service the survey was unable to confirm the basis for the fees. In a few cases the cost of service is absorbed within the tax base and not charged separately on a user pay basis.

Table 3-2: Bulky Items Collection in Comparator Municipalities

Municipality	Collection Service	Tag Fee
Kingston	4 giveaway days per year	Not Applicable
North Bay	Drop off available at Landfill Site	Only Landfill Fee Applies
Peterborough	6 collection days per year (call-in required in advance)	\$20 - 1st Item \$5 - Additional Items (except for mattresses and box springs which are \$20 each)
Belleville	Call-in Curbside Collection as needed	\$10.00 per item
Brockville	Curbside Collection (call-in)	Appliances with Freon - \$43.50 Appliances without Freon - \$29.40 Large Furniture - \$15.00 Small Furniture - \$10.00

4 Tag Fees

The tag fees in the context of paying for "extra" bags (over the limit) are intended to be an incentive to reduce waste rather than play a substantive role in funding the waste collection program. The objective is for customers to stay within the limit. Ideally there would be no need to purchase tags and no revenue from the tags if everyone were to stay within the limit. The following should be considered in setting the tag fee:

- It's role as an incentive to divert more (or disincentive to dispose more waste);
- Industry best practice which is in the \$1.00 to \$3.50 range;
- The need to ease customers into the tag system for the first time;
- Cost recovery of the production, distribution, sale and administration of the tag system;
- Whether or not HST should be included in the advertised fee or be extra; and
- The reasonableness of the price of the tag.

The average fee in the area is approximately \$2.29 per tag for mature programs in 6 municipalities (Kingston, Brockville, Belleville and 3 SDG municipalities). In the City's case a lower fee would ease the burden on customers as the new bag limit is introduced. The fee can be revisited once the program matures and other collection options (e.g. organics) become available to customers that would reduce their need for generating extra bags/containers. An initial fee of \$1.50 including HST is reasonable. This can be reviewed over time as the tag system matures and the performance of the bag/container limit assessed. The revenue to be generated from the tag sales is not expected to be significant because most

households already fall within the 2-bag limit according to the City's visual audit of garbage set-out rates.

Once the City determines the level of service for bulky items collection it would be appropriate to establish the fees based on the actual cost of service. Consideration should also be given to the fees noted in Table 3-1 which range between \$10 and \$20 per item.

5 Tag Administration

Administration would include establishing an in-house process for tag sales (if the decision is to sell tags at municipal offices/locations), reaching out to retailers to gauge interest in selling tags, initial tag design, printing, distribution, administering agreements with retailers and revenue collection. The main activities would include:

- Identifying the locations for tag sales
- Identifying the staff to be involved and their respective roles and responsibilities
- Identifying and contacting specific retailers that are geographically dispersed across the City to confirm their interest in selling tags. Key candidates are corner/convenience stores, drug stores, grocers, gas stations, etc. The current system and network of retailers for the bus passes could be leveraged
- Facilitating online purchasing of tags by retailers and customers via credit card to reduce in person purchasing given the physical distancing requirements due to the pandemic.
- Requiring a minimum number of tags to be purchased to reduce administration
- Delivery of the tags to the retailers by courier service
- Accounting for the tags sold by serial number.
- Establishing a standard agreement with retailers. The sale of bag tags could be added to the existing agreement for the sale of bus passes
- Using existing tags from other municipalities as a template for the design
- Arranging for the paper type (peel and stick) and printing on an ongoing basis as needed
- Including notices on the City's website and other waste management communication materials regarding the tags and where they can be obtained to educate the customers.
- Amending the City's fee By-Law to include the tag fees for the bag/ container limit and bulky waste collection

6 Recommendations

The main recommendations are presented below for consideration by the City.

- Establishing a tag fee of \$1.50 including HST for bags/containers above the 2-bag/1-container limit. This fee should be reviewed as the tag system matures and better bag limit performance information and tag costs become available.
- Undertake the administration activities noted in Section 5 as part of the implementation process for the tag system.
- Determine a desired level of service for bulky waste collection e.g. call-in weekly service, quarterly service, etc. and respective cost of service.
- Establish a tag fee for bulky waste collection that would recover the full cost of service for the level of service selected by the City.

Appendix A

City of Cornwall Waste Management By-Law 2019-034 Summary

By-law Components	
Curbside Waste Collection	
Collection Frequency	<ul style="list-style-type: none"> • Residential - weekly • Multi-residential - weekly • Industrial, Commercial, & Institutional - weekly • Business, including residential tenants, within the DBIA & Le Village areas - twice/weekly collection on Mondays & Fridays • Christmas trees are collected during 1 week in January • No bulk waste collection
Container Limit	<ul style="list-style-type: none"> • <i>Residential</i> - 6 bags/3 containers - container size not to exceed 136 L (36 gallons), height of approx. 90 cm (35 inches), diameter of approx. 46 cm (18"), with watertight lid and 2 handles; bags (black plastic) must have capacity of 0.09 cubic metres and be made from a minimum of 1-1/2 mil gauge material capable of holding up to 27 kg (60 lb) without tearing • <i>Multi-residential</i> - One garbage cart per 2 units with a capacity between 75 L (20 gallons) and 360 L (95 gallons), height between 97 cm (38") and 119 cm (47"), width between 51 cm (20") and 69 cm (27") • <i>Industrial, Commercial, & Institutional</i> - Unlimited amount of garbage in a garbage collection cart with a capacity between 75 L (20 gallons) and 360 L (95 gallons), height between 97 cm (38") and 119 cm (47"), width between 51 cm (20") and 69 cm (27")
Unacceptable Materials	<p><i>Residential:</i></p> <ul style="list-style-type: none"> • Industrial Waste • Hazardous Waste • Any condemned, abandoned or rejected product, by-product or stock of any wholesale or retail establishment • Highly combustible material • Liquid waste, whether or not in a container • Construction or demolition waste (including wood) • Any material frozen to a receptacle which cannot be removed by shaking; • Large tree limbs and trunks of trees (except Christmas trees during collection week in January) • Manure, feces (human or animal), or animal carcasses; • Biomedical waste • Sheet iron, scrap metal or car bodies • Earth, sand, stone, brick, concrete, asphalt, trees or stumps • Scrap tires

	<ul style="list-style-type: none"> • Electronic Waste • Mattresses • Any garbage that contains recyclable materials • Bulk waste <p><i>Multi-Residential, Industrial, Commercial, & Institutional:</i></p> <ul style="list-style-type: none"> • Industrial waste • Any condemned, abandoned, or rejected product, by-product, or stock of any wholesale or retail establishment • Construction or demolition waste • Biomedical waste • Discarded furniture • Any material not set out in a cart/receptacle as is defined in this by-law • Any waste that has not been placed for collection in accordance with this by-law • Any other material that, in the opinion of the Manager (Division Manager, Environmental Services, or such other person that is authorized by the Manager to exercise some or all powers vested by this by-law), is detrimental to the collection and/or disposal process
Recycling Collection	
Collection Frequency	<ul style="list-style-type: none"> • <i>Residential</i> - Weekly • <i>Multi-Residential</i> - Weekly • <i>Industrial, Commercial, & Institutional</i> - Weekly (note, businesses are required to set out at least one box/carton of recycling per week)
Single Stream/Dual Stream	<ul style="list-style-type: none"> • Not specified
Limits/Restrictions	<ul style="list-style-type: none"> • No limit to amount of recycling put out
Acceptable Materials	<p><i>Containers</i></p> <ul style="list-style-type: none"> • Glass bottles & jars - clean, caps removed • Food & beverage cans - aluminum and steel, clean • Plastic containers - clean, empty: <ul style="list-style-type: none"> ○ HDPE (No. 2) ○ PETE (No. 1) ○ PVC (No. 3) ○ LDPE (No. 4) ○ PP (No. 5) <p><i>Fibres</i></p> <ul style="list-style-type: none"> • Old Corrugated Cardboard - large boxes must be flattened and placed with other recyclables

	<ul style="list-style-type: none"> • Mixed Office Paper (Mixed Fibre) • Newspaper, Magazines, Flyers • Shredded Office Paper - bagged, free of anything other than paper (e.g. staples), free from hot ash, embers, or any other ignitable material • Box Board - clean
Leaf & Yard Waste	
Collection Frequency	<ul style="list-style-type: none"> • Not specified in by-law (<i>website indicates there is bi-weekly collection in July, August, & September, and weekly collection from the week of September 28th to November 13th</i>)
Limits/Restrictions	<ul style="list-style-type: none"> • No limits • Set out in compostable paper bags or clearly labeled reusable container • Leaves, grass clippings, garden waste accepted as Leaf & Yard Waste • Branches bundled in 1 M (3 feet) x 1 M (3 feet) sections allowed, must be placed beside the Leaf & Yard Waste
Household Hazardous Waste (HHW) & E- Waste Collection	
HHW Program Details	<ul style="list-style-type: none"> • Accepted at landfill site
E-Waste Program Details	<ul style="list-style-type: none"> • Accepted at landfill site
General Waste Collection	
Collection time	<ul style="list-style-type: none"> • Set out by 7:00 a.m. on collection day, no earlier than 7:00 p.m. the evening before collection day, and must be removed by 7:00 p.m. on the day of collection • In DBIA & Le Village areas, waste must be set out between 7:00 a.m. and 9:30 a.m. on collection day, and empty containers must be removed from the curbside within 1 hour of collection
Landfill Operations	
Hours of Operation	<ul style="list-style-type: none"> • 7:30 to 4:30 p.m. (as per by-law) - <i>note that website indicates these hours of operation are in effect from Monday to Friday, and Saturdays, the hours are 7:30 a.m. to 12:00 p.m.</i>
Unacceptable Materials (at disposal site)	<ul style="list-style-type: none"> • Any material in which a specified diversion area exists at the landfill site • Material originating outside the limits of the City of Cornwall, subject to the provisions of any agreement that may from time to time be made with the Corporation; • Trees or logs except where such material is removed from City streets or land, or as is permitted by the Manager • Any volatile or other liquids or substance which, in the opinion of the Manager, might be conducive to contamination or considered hazardous • Any earth, rock in excess of 0.03 cubic metres, or fill material, except as approved in writing by the Manager • Any earth or fill material contaminated by volatile or other substances,

	<p>without such earth or fill material meeting the appropriate requirements of Regulation 345 of the Environmental Protection Act, R.S.O. 1990, Chapter E.19 as amended from time to time;</p> <ul style="list-style-type: none"> • Sludge from septic tanks • Vehicle bodies or parts thereof • Carcasses of animals larger than that of a dog • Source separated materials as defined by those materials, which are collected through the City's Blue Box program • Material, which can be recycled, resulting from the erection, alteration or demolition of any building • Any other material that is detrimental to the operation of the Landfill Site
Administration and Enforcement	
Bulk Waste	<ul style="list-style-type: none"> • No collection provided by City. Residents are responsible for paying for the disposal of these items.
Inspections	<ul style="list-style-type: none"> • An Provincial Offences Officer (responsible for enforcement of the by-law) can enter a property at any reasonable time to do the following: <ul style="list-style-type: none"> ○ Ensure compliance with this by-law. ○ Determine whether a direction or order under this by-law is being complied with. ○ Determine whether a prohibition order made under the Municipal Act, 2001, is being followed. • Costs incurred during inspections (for example, examinations, tests, samples, photographs) are paid by the property owner or occupant where the inspection takes place.
Penalty for Violation	
Fines	<ul style="list-style-type: none"> • If a person contravenes any part of this by-law or doesn't comply with an order, penalties are as follows: <ul style="list-style-type: none"> ○ First conviction, maximum fine of \$5,000.00 ○ Subsequent conviction, maximum fine of \$10,000.00 • If it is a Corporation that contravenes the by-law or doesn't comply with an order, penalties are as follows: <ul style="list-style-type: none"> ○ First conviction, maximum fine of \$25,000.00 ○ Subsequent convictions, maximum fine of \$50,000.00

Appendix B

Bag/Container Limits and Tag Use in Comparator Municipalities

Municipality	Waste Collection Frequency	Bag/Container Limit	Exemption from Limit?	Bag Tag (for excess garbage) & Cost of Tag	Items Collected Under Separate Programs	Organics Program in Place?	Current Diversion Rate(2018) ¹
Regional Municipality of Peel	<ul style="list-style-type: none"> Bi-weekly 	<ul style="list-style-type: none"> 4 bags/containers 	<ul style="list-style-type: none"> Yes; Medical Waste Exemption Policy: <ul style="list-style-type: none"> - must apply once per year - doctor's note required - successful applicants receive either an upsized or additional garbage cart at no cost - if household is not part of cart program, tags will be provided 	<ul style="list-style-type: none"> Yes, \$ 3.00 per tag - available in sheets of 15. Single tags not available. Tags are ordered directly from the Region and are sent out via mail. Tags do not expire 	<ul style="list-style-type: none"> Recyclable materials - bi-weekly collection Organic materials - weekly collection Yard Waste - Weekly collection from March to June, bi-weekly from July to December, No pick up January & February Batteries - one collection day per year Christmas Trees - one collection day in January per year Some bulky items collected at the curb - furniture, mattresses and barbeques. All other items are required to be taken to one of the Community Recycling Centres where there is a fee. 	<ul style="list-style-type: none"> Yes, weekly collection 	<ul style="list-style-type: none"> 50.3%
Regional Municipality of Niagara	<ul style="list-style-type: none"> Weekly (changing to bi-weekly October 19th) 	<ul style="list-style-type: none"> 1 bag/container (2 bag/container per 2 weeks as of October 19th 2020) 	<ul style="list-style-type: none"> Yes: <ul style="list-style-type: none"> - Household with 2 children under 4 in diapers - Home daycares - Households with someone with medical condition - Group home (run out of a residence) 	<ul style="list-style-type: none"> Yes, \$2.50 per tag (for households & multi-residential properties with 6 units or less) May be ordered online directly from the Region, or purchased at several retail outlets throughout Niagara Tags are sold to retail outlets for \$2.30 each. The tags must be sold by the retailer to the public for \$2.50 each. For orders of less than 500 tags, the retailer must pay for them via credit card. 	<ul style="list-style-type: none"> Recyclable materials - weekly collection Organic materials - weekly collection Yard waste - weekly collection Branches - collected 4 weeks in spring & fall Bulk waste - call-in service for regular garbage day Christmas trees - one collection day in January per year 	<ul style="list-style-type: none"> Yes, weekly collection 	<ul style="list-style-type: none"> 55.9%

				<p>For orders larger than 500 tags, the Region will send the retailer an invoice, if requested. Invoices must be paid within 30 days.</p> <ul style="list-style-type: none">• Retailers must sign a “Letter of Understanding” with the Region. A copy of their vendor permit must also be produced.			
City of Kingston	<ul style="list-style-type: none">• <i>Weekly</i>	<ul style="list-style-type: none">• 1 bag/container (3 “2 bag weeks” per year - January, May, & September)	<ul style="list-style-type: none">• No	<ul style="list-style-type: none">• Yes, \$2.00 per tag (no limit on tags)• May be ordered online (sheets of 4 with \$1.50 shipping fee) directly from the City or purchased at several retail outlets in Kingston.• The City enters into a consignment agreement with some retailers. The City will usually provide the retailer with 200 tags to start, and more tags would be ordered if needed.• Small retailers don’t usually enter into a consignment agreement. They order tags and pay up front, as needed.• Larger retailers don’t enter into consignment. They will order bag tags from the City and the City will invoice them for the cost of the tags.• The retailers sell the tags for the same price the City	<ul style="list-style-type: none">• Recyclable materials - weekly collection• Organic materials - weekly collection• Brush & leaf collection - one fall collection for brush & one separate fall collection for leaves• 4 giveaway days per year during which unwanted items including furniture and appliances may be set out for others to take.	<ul style="list-style-type: none">• Yes, weekly collection	<ul style="list-style-type: none">• 62.4%

				<p>does. Therefore, other than having their name advertised on the City's website, there is no financial incentive for businesses to sell the garbage bag tags for the City.</p> <ul style="list-style-type: none">Tags are delivered to retail locations by City staff or via courier.			
Regional Municipality of Halton	<ul style="list-style-type: none">Bi-weekly	<ul style="list-style-type: none">3 bags/containers	<ul style="list-style-type: none">Yes:<ul style="list-style-type: none">-Diaper bag tag program -households with young children may apply for up to 40 free garbage bag tags per year (must be in clear bag)-Healthcare bag tag program-households with a person(s) with a medical condition may apply for up to 40 free garbage bag tags per year (may be in black bags)	<ul style="list-style-type: none">Yes, \$2.00 per tag (up to 3 extra bags per collection)May be ordered online directly from the Region or purchased at several regional and municipal locations and retail outlets in Halton - sold in sheets of 5 for \$10.00.Municipal and retail locations order tags from the Region in packages of 100 sheets at \$8.50 per sheet - therefore, the municipal and retail outlets profit \$1.50 per sheetAccording to Halton Region Waste Management, most retail and municipal outlets will order 2-6 packages of 100 sheets per year.Bag tags are delivered to retailers and municipal outlets via Halton Region staff or courier.	<ul style="list-style-type: none">Recyclable materials - weekly collectionOrganic materials - weekly collectionYard waste - weekly collection from first week of April to second week of DecemberBulk branches - call-in scheduled collection in 1 out of 4 municipalities (suburban) year-round2 Leaf collections in 2 out of 4 municipalities (suburban) in fallChristmas tree collection - 1 collection day in January	<ul style="list-style-type: none">Yes, weekly collection	<ul style="list-style-type: none">55.4%
City of Hamilton	<ul style="list-style-type: none">Weekly	<ul style="list-style-type: none">1 bag/container	<ul style="list-style-type: none">Yes (extra tags provided):	<ul style="list-style-type: none">Yes, 12 tags are provided (along with collection calendar) to each	<ul style="list-style-type: none">Recyclable materials - weekly collectionOrganic materials - weekly collection	Yes, weekly collection	<ul style="list-style-type: none">35.9%

			<ul style="list-style-type: none"> - Households with more than 2 kids 4 - Registered home daycares - Agricultural businesses 	household annually at <u>no cost</u> ; up to 14 more can be ordered (also free), for maximum 26 per year.	<ul style="list-style-type: none"> • Yard waste - weekly collection • Bulk waste-call-in scheduled collection. No fees • Christmas trees - 2 collection weeks in January 		
City of North Bay	<ul style="list-style-type: none"> • Residential - weekly • Businesses - twice per week 	<ul style="list-style-type: none"> • Residential - 3 bags/containers per week • Businesses - 6 bags/containers per week 	<ul style="list-style-type: none"> • No 	<ul style="list-style-type: none"> • Yes, \$1.00 per tag • Bag tags are available for purchase at City Hall. 	<ul style="list-style-type: none"> • Recyclable materials - bi-weekly collection • No curbside bulk waste collection. Drop off available at Landfill Site 	<ul style="list-style-type: none"> • No 	<ul style="list-style-type: none"> • 32.2%
Municipality of Chatham-Kent	<ul style="list-style-type: none"> • Weekly 	<ul style="list-style-type: none"> • 1 full “toter” or 3 bags/containers per week - a “toter” is equivalent to 3 regular garbage bags 	<ul style="list-style-type: none"> • No official exemption program, assessed on case by case basis - for example, Community Living homes 	<ul style="list-style-type: none"> • No 	<ul style="list-style-type: none"> • Recyclable materials - bi-weekly collection • Leaf and yard waste collected at the curb but each bag counts towards the 3-bag limit • Has online posting board to advertise unwanted large items 	<ul style="list-style-type: none"> • No 	<ul style="list-style-type: none"> • 34.8%
County of Oxford	<ul style="list-style-type: none"> • Weekly 	<ul style="list-style-type: none"> • User pay garbage bag tags required for each item set out - 1 tag per regular size garbage bag/container/3 tags for large “Herbie Curbie” 	<ul style="list-style-type: none"> • No 	<ul style="list-style-type: none"> • \$2.00 per tag for each bag. • Sold in sheets of 10 minimum 	<ul style="list-style-type: none"> • Recyclable materials - bi-weekly collection • Bulk waste - 2 collections per year • Brush collection - 2 collections per year • Leaf collection - 8 week fall program - 1 collection per household, but no guarantee that the City can collect more than once • Christmas tree collection - 1 collection week in January 	<ul style="list-style-type: none"> • No 	<ul style="list-style-type: none"> • 50.0%
City of Belleville	<ul style="list-style-type: none"> • Residential -Weekly 	<ul style="list-style-type: none"> • User pay garbage bag tags required for each item set out, no limit 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • \$3.00 per tag for each bag set out • Tags may be purchased online 	<ul style="list-style-type: none"> • Recyclable materials - weekly collection • Bulk waste - call-in service not part of weekly collection, user pay program 	<ul style="list-style-type: none"> • No 	<ul style="list-style-type: none"> • Unknown - diversion rate reported as part of Quinte Waste Solutions (includes 9 municipalities)

					<ul style="list-style-type: none">- Appliances with Freon - \$43.50- Appliances without Freon - \$29.40- Large Furniture - \$15.00- Small Furniture - \$10.00		
Peterborough	<ul style="list-style-type: none">Weekly	<ul style="list-style-type: none">Residential - 2 “lifts” per week (bag, container, bulky item - must meet size requirements)Commercial - 4 containers per weekCollection limit is doubled week after Christmas	<ul style="list-style-type: none">No official exemption program; exemptions are granted on a case by case basis	<ul style="list-style-type: none">No	<ul style="list-style-type: none">Recyclable materials -weekly collectionBulk waste - user pay program, 6 collection days per year. Users must call in on the Thursday before the event to have items collected. \$20 for first item and \$5 for each additional item except for mattresses and box springs. Mattresses treated for bed bugs must be placed in clear bags (1 free - available at City)Green (Yard waste) - weekly collection from first week of April to last week of November	<ul style="list-style-type: none">No	<ul style="list-style-type: none">54.4%
Brockville	<ul style="list-style-type: none">Weekly	<ul style="list-style-type: none">Residential- 1 bag	<ul style="list-style-type: none">N/A	<ul style="list-style-type: none">\$3.00Tags available at City and convenient locations e.g. Canadian Tire etc.	<ul style="list-style-type: none">Recyclable materials -weekly collectionBulk Waste collection based on user fee (\$10 per tag)2 weeks fall leaf collection	<ul style="list-style-type: none">No	<ul style="list-style-type: none">39.9%
Whitby	<ul style="list-style-type: none">Bi-Weekly	<ul style="list-style-type: none">Residential- 4 bags	<ul style="list-style-type: none">N/A	<ul style="list-style-type: none">\$2.50 each sold in sheets of 5Tags available at City and other convenient locations	<ul style="list-style-type: none">Large, bulky items must be scheduled in advance for a special collection.<ul style="list-style-type: none">- Each household is entitled to one free special collection per calendar year for up to twelve (12) items.- Additional special collections cost \$25.00 for each additional itemRecycling provided by Durham Region	<ul style="list-style-type: none">Yes	<ul style="list-style-type: none">Not Applicable - Durham Region provides recycling
Oshawa	<ul style="list-style-type: none">Weekly	<ul style="list-style-type: none">Residential- 4 bags	<ul style="list-style-type: none">N/A	<ul style="list-style-type: none">\$2.50 each sold in sheets of 5Tags available online, at	<ul style="list-style-type: none">Large, bulky items must be scheduled in advance for collection every other week with garbage. Booking online	<ul style="list-style-type: none">Yes	<ul style="list-style-type: none">Not Applicable - Durham Region provides recycling

				City and other convenient locations	<div>- Each household is entitled to one free special collection per calendar year</div> <div>- Additional special collections cost \$35.00 for each additional item.</div> <div><div>• Recycling provided by Durham Region</div></div>		
Region of Waterloo	<div><div>• Bi-Weekly</div></div>	<div><div>• Residential- 4 bags</div><div>• Multi-Res - 10 bags</div><div>• Containers not allowed - bags only</div></div>	<div><div>• N/A</div></div>	<div><div>• \$2.00 each sold in sheets of 5</div><div>• Tags available online, at Region and other convenient locations</div></div>	<div><div>• Large, bulky items must be scheduled in advance for collection every other week with garbage. Booking online. Maximum 3 items for SFD and 10 items for multi res. No charge noted.</div><div>• Weekly Recycling</div></div>	<div><div>• Yes</div></div>	<div><div>• 61%</div></div>
Newmarket	<div><div>• Bi-Weekly</div></div>	<div><div>• Residential- 3 bags</div></div>	<div><div>• N/A</div></div>	<div><div>• \$3.00 each sold in sheets of 5</div><div>• Tags available at Town and other convenient locations</div></div>	<div><div>• Large, bulky items must be scheduled in advance for collection. Tags sold for \$16 each at Town and mailed to resident</div><div>• Weekly Recycling</div></div>	<div><div>• Yes</div></div>	<div><div>• Not Applicable</div></div>
London	<div><div>• Every 6 days rotation</div></div>	<div><div>• Residential- 3 bags per residential unit (including multi-residential). Maximum size collected is 2 cubic metres regardless of bag limit and bulky waste items</div><div>• Rooming houses are allowed 1 bag per room</div><div>• Businesses - 12 bags maximum and not permitted to use garbage tags</div></div>	<div><div>• Extra bags allowed for medical conditions considered on a case by case basis</div></div>	<div><div>• \$1.50 each</div><div>• Tags available at City Enviro Depot</div></div>	<div><div>• Large, bulky items are collected over and above the 3-bag limit at no charge</div><div>• Recycling same frequency as garbage collection</div></div>	<div><div>• No</div></div>	<div><div>• 44%</div></div>
Thunder Bay	<div><div>• Weekly</div></div>	<div><div>• Residential- 2 bags</div><div>• 1 free bag days - 3rd</div></div>	<div><div>• Extra bags allowed for medical conditions considered on a case by</div></div>	<div><div>• \$2.00 each in sheets of 10</div><div>• Tags available at City and</div></div>	<div><div>• No information on Bulky Waste</div><div>• Recycling bi-weekly</div></div>	<div><div>• No</div></div>	<div><div>• 27.5%</div></div>

		bag free 3 times per year on specific weeks	case basis	Landfill and payment by credit card only. Tags mailed out.	<ul style="list-style-type: none">Spring and fall leaf and yard waste collection		
Simcoe County	<ul style="list-style-type: none">Bi-Weekly	<ul style="list-style-type: none">Residential- 2 bagsMax 8 bags - 2 without tags and 6 with tags	<ul style="list-style-type: none">NA	<ul style="list-style-type: none">\$3.00 each in sheets of 5Tags available at several local municipal offices	<ul style="list-style-type: none">Call-in Bulky Waste between June and September maximum 5 items at \$40 per collectionRecycling bi-weekly alternating with garbageSpring and fall leaf and yard waste collection	<ul style="list-style-type: none">Yes	<ul style="list-style-type: none">59.6%

1 - Obtained from “2018 Residential Waste Diversion Rates by Municipal Program,” Resource Productivity & Recovery Authority (www.rpra.ca)